नाशिक महानगरपालिका, नाशिक

अनुक्रमणिका

अ.क्र.	विषय	पान क्रमांक
	① टिपणी	N-1

A3000246
1320016206

NASHIK MUNICIPAL CORPORATION-::NASHIK
Estimate Summary Budget Codewise

STATUS	A	B	C	D	E	F
DATE						05.12.2025

4097
S420409707 SINHASTHA KUMBHMELA - 2027

Estimate No. 1820016206	Work Name: Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.
Prabhag No. GNR	Nature of Work - CAPITAL EXPENDITURE

Sno.	Particuars	Amount in Rs.
1.	Current Year's Budget Provision (FY2025-26)	32,775,800,000.00
2.	Expenditure Till Date	0.00
3.	Amount of Workorders Issued	0.00
4.	Amount of Tenders Sanction	0.00
5.	Amount of Administrative Approvals Given	1,482,553,108.00
6.	Amount of Administrative Approvals Pending	2,580,028,880.00
7.	Totals of Expenditures and Liabilities (2+3+4+5+6)	4,062,581,988.00
8.	Budget Provision Available (1-7)	28,713,218,012.00
9.	Proposed Current Estimate	568,578,496.00

Junior Engineer

Deputy Engineert

Executive Engineer

City Engineer/Superintendent Engineer/H.O.D.

Junior Accountant / Deputy Accountant

Senior Accountant

Deputy C.A.O.

C.A.O.

मा. सविनय सादर **दि. /०९/२०२५**

कामाचे नाव:- गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/त्र्यंबकरोड जोड रस्ता)

प्रशासकीय मंजुरी :- सिंहस्थ कुंभमेळा २०२७-२८ साठी अर्थ संकल्पात पा.क्र. ९२ वर संगणक कोड २९४५ अंतर्गत ३०००.०० लक्ष इतकी तरतुद करण्यात आलेली आहे.

महोदय,

प्रस्तावना:-

सदर रस्ता शहरातील मुख्य रस्ता असुन गंगापुर रोड, त्रंबक रोड व अंबडलिंक रोडव्दारे मुंबई-आग्रा महामार्गाकडे जाणारा मुख्य रिंग रोड आहे. सदर रस्त्यावर मुंबईकडुन येणारी वाहतुक गरवारे-एक्स्लो पॉईंटने आय.टी.आय. सिग्नल ते सुला चौक दरम्यान असलेल्या पपया नर्सरी सिग्नल वरुन त्रिंबकेश्वर तसेच सुला चौक-कार्बन नाका – शिवाजीनगर – गंगापुर कडे जाण्याचा मार्ग आहे. नाशिक त्रिंबकरोड वर वाहतुकीची कोंडी झाल्यास पपया नर्सरी सिग्नल येथुन गंगापुर रोडकडे डायव्हर्ड करण्यासाठी मुख्य व पर्यायी मार्ग आहे. सदर रस्ता सन २०१४-१५ म्हणजे मागील सिंहस्थामध्ये डांबरीकरण केलेला आहे. आगामी सिंहस्थात वाहतुक नियंत्रणाच्या दृष्टीने सदर रस्ता सुधारणे आवश्यक आहे. रस्त्याची एकुण लांबी ५०१०.०० मी. असुन रुंदी मंजुर विकास आराखड्यात ३६.०० मी. आहे. सदर रस्ता मुख्य डी.पी. रस्ता असल्याने सदर रस्त्याचे रुंदीकरण व अस्तरीकरण करणे आवश्यक आहे.

१.१ बारदान फाटा ते बबन लॉन्स :

रस्त्याची सद्यस्थिती

सदर रस्ता हा डांबरी असुन १४७०.०० मी. लांबी व सुमारे १४.२० मी. रुंदीचा आहे. सदर रस्त्याचे सुमारे १० ते १२ वर्षांपुर्वी डांबरीकरण करण्यात आलेले आहे. तद्नंतर सदर रोडवर पाणी पुरवठा पाईप लाईन, ड्रेनेज पाईप लाईन, एम.आय.डी.सी. पाईप लाईन, ओ.एफ.सी. केबल, एम.एन.जी.एल. गॅस पाईप लाईन इत्यादी कामांसाठी रस्ता ठिकठिकाणी तोडण्यात आल्याने सद्यस्थितीत सदर रस्त्याचा पृष्ठभाग खराब झालेला आहे. त्यामुळे सदर रस्त्याचे डांबरीकरण व अस्तरीकरण करणे आवश्यक आहे.

प्रस्तावित कामाचा वाव-

प्रस्तावित कामामध्ये रुंदीकरणासह डांबरीकरण करणे, पावसाचे पाणी निचरा करणेसाठी खोदाई, पाईप, चेंबर बांधणे, टॅक कोट, बी.एम., डी.बी.एम., बी.सी., रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश आहे.

१.२ बबन लॉन्स ते कार्बन नाका :

रस्त्याची सद्यस्थिती

सदर रस्ता हा डांबरी असुन १२३०.०० मी. लांबी व सुमारे १२.२७ मी. रुंदीचा आहे. सदर रस्त्याचे सुमारे १० ते १२ वर्षांपुर्वी डांबरीकरण करण्यात आलेले आहे. तद्नंतर सदर रोडवर पाणी पुरवठा पाईप लाईन, ड्रेनेज पाईप लाईन, एम.आय.डी.सी. पाईप लाईन, ओ.एफ.सी. केबल, एम.एन.जी.एल. गॅस पाईप लाईन इत्यादी कामांसाठी रस्ता ठिकठिकाणी तोडण्यात आल्याने सद्यस्थितीत सदर रस्त्याचा पृष्ठभाग खराब झालेला आहे. त्यामुळे सदर रस्त्याचे डांबरीकरण व अस्तरीकरण करणे आवश्यक आहे.

(10)

प्रस्तावित कामाचा वाव-

प्रस्तावित कामामध्ये रुंदीकरणासह डांबरीकरण करणे, पावसाचे पाणी निचरा करणेसाठी खोदाई, पाईप, चेंबर बांधणे, टॅक कोट, बी.एम., डी.बी.एम., बी.सी., रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश आहे.

१.३ कार्बन नाका ते सुला चौक:

रस्त्याची सद्यस्थिती

सदर रस्ता हा डांबरी असुन २३१०.०० मी. लांबी व सुमारे १८.४५ मी. रुंदीचा आहे. सदर रस्त्याचे सुमारे १० ते १२ वर्षांपुर्वी डांबरीकरण करण्यात आलेले आहे. तद्नंतर सदर रोडवर पाणी पुरवठा पाईप लाईन, ड्रेनेज पाईप लाईन, एम.आय.डी.सी. पाईप लाईन, ओ.एफ.सी. केबल, एम.एन.जी.एल. गॅस पाईप लाईन इत्यादी कामांसाठी रस्ता ठिकठिकाणी तोडण्यात आल्याने सद्यस्थितीत सदर रस्त्याचा पृष्ठभाग खराब झालेला आहे. त्यामुळे सदर रस्त्याचे डांबरीकरण व अस्तरीकरण करणे आवश्यक आहे.

प्रस्तावित कामाचा वाव-

प्रस्तावित कामामध्ये रुंदीकरणासह डांबरीकरण करणे, पावसाचे पाणी निचरा करणेसाठी खोदाई, पाईप, चेंबर बांधणे, टॅक कोट, बी.एम., डी.बी.एम., बी.सी., रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश आहे.

सदर रस्त्याच्या कामातील मुख्य वाहतूक मार्गात येणारे विविध प्रकारचे वृक्ष काढणे अथवा स्थलांतरित करणे, दुभाजकात शोभेची झाडे लावणे व देखभाल दुरुस्ती करण्याची कामे तसेच इतर तद्अनुषंगिक कामे ही मनपाच्या उद्यान विभागामार्फत करण्यात येणार असल्यामुळे उपरोक्त बाबींचा अंतर्भाव सदर प्रस्तावात घेतलेला नाही.

सदरचे अंदाजपत्रकातील दर सार्वजनिक बांधकाम विभागाची राज्य नियंत्रित दरसुची २०२२-२३ व महाराष्ट्र जीवन प्राधिकरण दरसुची २०२३-२४ वर आधारीत असुन जीएसटी, टेस्टींग चार्जेस, रॉयल्टी चार्जेस यांचा अंतर्भाव करुन प्राकलन तयार केले असता एकूण र.रु.५०,९४,१३,१६२/- मात्र इतका खर्च अपेक्षित आहे.

सदर कामाची अंदाजित रकयकिंमत (अ) स्थापत्य विषयक कामे ५०.९४ कोटी व (ब) विद्युत व्यवस्था ५.९२ कोटी एकुण र.रु. ५६.८६ कोटी इतकी आहे. सबब उपरोक्त विषयाधीन रस्त्याच्या कामांस तांत्रीक मान्यतेसह पुढील प्रशासकीय मान्यतेसाठी प्रस्ताव सविनय सादर.

शाखा अभियंता (श्री. डी.एस. कोल्हे)

मा. उपअभियंता सो. (श्री. व्ही.एम. गांगुर्डे)

मा. कार्यकारी अभियंता सो. (श्री. संदेश शिंदे)

उप अभियंता (५)

विषय :- नाशिक महानगरपालिका हद्दीतील गंगापूर रोड वाहतूक भागात NB सुधा औषध पर्यायी रस्ता विकसित करणे...

दि 16/09/2025

विषयाधीन कामाच्या प्राक्कलनामधील Part 'A' Civil Work हे PWD SSR year 2022-23 wef dt. 25/7/2022, MJP SSR year 2023-24 wef dt 20/6/2023 व विभागाने सोबत जोडलेल्या दरपृथःकरण नुसार नमूद पुढील योग्य कार्यवाहीसाठी निर्देशाकरीत सादर.

उप अभियंता (स्था.)

मा. कार्यकारी अभियंता –

विषयाधीन कामासाठी स्थापत्य विषयक कामांचे प्राक्कलनास मंजुरी मिळणेत विनंती.

त्याचप्रमाणे, विद्युत विषयक बाबींचे प्राक्कलनासाठी विद्युत विभागाची नॉमीक मंजुरी मिळणेत विनंती.

मा.न.म.पा. कार्यालय आवक नं. ८३७ दिनांक:- 9/9/2025

मा० शहर अभियंता मा.

मा. अधिक्षक अभियंता (विद्युत) – Sanjib 9/9/25

EE (Elec) –

उप अभियंता सातपूर

(4)

(5)

कामाचे नाव- नाशिक महानगरपालिका हद्दीतील गंगापुररोड बारदान फाटा ते सुला चौक पर्यंतचा रस्ता विकसित करणे.

दिनांक-१६/०९/२०२५.

सिंहस्थ कुंभमेळा २०२७-२८ चे अनुषंगाने सार्वजनिक बांधकाम विभाग मनपा मार्फत नाशिक महानगरपालिका हद्दीतील गंगापुररोड बारदान फाटा ते सुला चौक पर्यंतचा रस्ता विकसित करण्यात येत आहे. सदर रस्त्यावर विद्युत विषयक कामाचे प्राकलन व तांत्रिक मान्यता मिळणेकामी मनपा सा.बां.विभागाकडुन नस्ती विद्युत विभागाकडे प्राप्त झाली आहे. प्रत्यक्ष देणेत आलेल्या माहितीनुसार सदर विकसीत करण्यात येणाऱ्या रस्त्यावरील पथदिप व्यवस्था सुधारणा, सुशोभीकरण करणे, रस्त्यात असलेले MSEDCL पोल / डी पी / ट्रान्सफॉर्मर/मिनी पिलर स्थलांतरीत करणे, ओव्हरहेड लाईन भुमिगत करणे इ. विद्युत विषयक कामाचे प्राकलन महाराष्ट्र शासन सी.एस.आर. २०२३-२४ चे मंजुर दराप्रमाणे व ज्या बाबींचा समावेश महाराष्ट्र शासनमान्य सी.एस.आर. मध्ये नाही अशा बाबींचा बाजार भावाप्रमाणे प्राकलन तयार केले असता ते र.रु ५,९१,६५,३३५/- (GST सह) (अक्षरी र.रु. पाच कोटी एक्क्याऐंशव लाख पासष्ट हजार तीनशे पस्तीस फक्त) होत आहे.

- सदर कामाकरीता येणारा खर्चाचे नियोजन सार्वजनिक बांधकाम विभाग, मनपा, नाशिक यांचेमार्फत करणेत यावा.
- सदर कामात वापरण्यात येणारे साहित्याचे III[rd] Party Inspection करणे, विद्युत निरीक्षक तपासणी अहवाल प्राप्त करुन घेणे इत्यादी कामे मक्तेदाराने स्वखर्चाने करावयाचे असल्याने प्राकलनात त्याखर्चाचा समावेश करण्यात आलेला नाही.
- सदर कामाचे प्राकलन हे प्रस्तावित केलेल्या कामानुसार असल्यामुळे प्रत्यक्ष काम करते वेळी प्राकलनातील बाबींच्या संख्येत बदल होण्याची शक्यता आहे. परंतु प्राकलन रकमे पावेतो ऐकुण खर्च करणे बंधनकारक राहील.

उपरोक्त अटी शर्तीस अधिन राहुन प्राकलन र.रु. ५,९१,६५,३३५/- (GST सह) यास तांत्रिक मान्यता देण्यात येत आहे. सदर कामाची निविदा मागवितांना खालील बाबींचा निविदेत समावेश होणे आवश्यक आहे.

१. सदर कामाची निविदा काढणेपुर्वी विद्युत विषयक कामासाठी अटी-शर्ती विद्युत विभागामार्फत तयार करुन घेवुन त्याचा निविदेत अंतर्भाव (समावेश) करण्यात यावा.
२. महाराष्ट्र शासन सां.बां. विभाग यांचे कडील नोंदणीकृत विद्युत मक्तेदार तसेच PWD, Appropriate Class यांचे कडुन विद्युत विषयक कामे करण्यात यावे.
३. विद्युत विषयक काम सुरु करणे पुर्वी विद्युत विभागाकडुन कामाचा लाईन आऊट घेणे, कामात वापरणाऱ्या साहित्यांची आवश्यक ती तपासणी करुन घेणे व विद्युत विभागाच्या देखरेखी खाली काम करुन घेणे संबंधित मक्तेदारास बंधनकारक राहील.
४. सदर कामात MSEDCL संबंधित कामास MSEDCLकडुन आवश्यक १.३% सुपरव्हिजन चार्जेसचे कोटेशन प्राप्त करुन घेणे, MSEDCL यांचे प्रचलित नियमानुसार आवश्यक त्या मंजुरी घेणे व त्यानुसार काम करणे मक्तेदारास बंधनकारक राहील. १.३% सुपरव्हिजन चार्जेसचा येणारा खर्च मनपामार्फत करण्यात येईल.
५. विद्युत विषयक कामाचे III[rd] Party Inspection, NABL Approved Lab किंवा मनपाने नियुक्त केलेल्या संस्थेमार्फत करणे मक्तेदारास बंधनकारक राहील, त्याकरीता येणारा सर्व खर्च मक्तेदारास स्वखर्चाने करणे बंधनकारक राहील.
६. सदर विद्युत विषयक कामाचे प्राकलनात घेणेत आलेले साहित्य (Item) हे प्रत्यक्ष काम करते वेळी साहित्याचे संख्येत बदल होवु शकतो.

वरील सर्व बाबींस अधिन राहुन प्राकलनास तांत्रिक मान्यता मिळणेस व पुढील कार्यवाही होणे करीता सदरची नस्ती बांधकाम विभागाकडे पाठविणेस सविनय सादर.

व. लिपीक : (signature)

मा. उपअभियंता (वि.) (signature)

मा. कार्यकारी अभियंता (वि.) (signature)

मा. अधीक्षक अभियंता (वि./यां) — Dhanait

मा. शहर अभियंता — ELE

जा.क्र. म.न.पा. नाशिक
जावक नं. ४३७
दिनांक:- १८/१०/२५

(6)

उपरोक्त विषयाधीन प्रस्तावास स्थापत्य कामाबद्दलसेच विद्युत विषयक कामास तांत्रिक मान्यता देण्यात आलेली आहे.

स्थापत्य विषयक काम :- 5094131621-

विद्युत विषयक काम :- 5,91,65335/-

एकूण रु. 5685784971-

उपरोक्त प्रस्तावास, नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचे मार्फत दि. 14/9/2023 अन्वये मान्यता मिळालेली आहे तरी सदर प्रस्तावास मुख्य व लेखा विभागाच्या मान्यतेस्तव सादर.

Munde

मा. शहर अभियंता मनपा

मंजूर

विषय:- नाशिक शहरातील मनपा हद्दीतील गंगापूर रोड बारदान फाटा ते सुला चौक पर्यंतचा रस्ता विकसित करणे. **(निविदा र.रु. ५६,८५,७८,४९७/-)**

(नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडीलदि.१४.९.२०२५ रोजीच्या प्र.मा. आदेशातील अ.क्र. १ चे काम)

सविनय सादर,

१. सद्यस्थितीत नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १४.०९.२०२५ रोजीच्या आदेशानुसार प्रशासकीय मान्यता मिळाली असल्याने "सिहंस्थ कुंभमेळा कामे २०२७" संगणक कोड क्र. "४०९७" या लेखाशिर्षातून खर्च करणेकामी कार्यकारी विभागाने आवश्यक ती उचित कार्यवाही करावी.

२.नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १४.०९.२०२५ रोजीच्या प्रशासकीय मान्यता आदेशातील नमुद अ. क्र. १ नुसार सदर कामास र.रु. ५६.८६ कोटीच्या खर्चास प्रशासकीय मान्यता देणेत आलेली आहे त्यानुसार प्राप्त प्रशासकीय मान्यतेनुसार शासन निधीतुन कामासाठी उपलब्ध तरतुदीच्या मर्यादेत सदर कामाचा खर्च करण्याची जबाबदारी कार्यकारी विभागाची राहील.

३. कार्यकारी विभागाने नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १४.०९.२०२५ रोजीच्या प्रशासकीय मान्यता आदेशातील अटी व शर्ती क्र. १ ते ३० चे पालन करणे आवश्यक राहील.

४. मा.आयुक्त यांचे परिपत्रक जा.क्र./आस्वीस /वशि / ४८७ / २०१९ दि.२४/१२/२०१९,जा.क्र./मनपा/ लेखा / २२०/२०२१ दि. २४/०२/२०२१ व परिपत्रक जा.क्र./आस्वीस/वशि/१११/२०२४ दि.६/६/२०२४ अन्वये कार्यवाही करण्याची करण्याची विभागाने नोंद घ्यावी.

५. मा. आयुक्त सो. यांचे सन २०२५-२६ च्या अंदाजपत्रकातील "सिहंस्थ कुंभमेळा कामे २०२७" संगणक कोड क्र. "४०९७" या लेखाशिर्षात कुंभमेळा प्राधिकरण यांचेकडील दि. १४.०९.२०२५ रोजीच्या आदेशानुसार सदर कामास तरतुद उपलब्ध करून देणेत आलेली आहे.

६. सदर कामाची तांत्रिक मान्यता सार्व. बांधकाम विभागाने र.रु. ५०,९४,१३,१६२/- व सार्व. आरोग्य अभि. विद्युत व्यवस्थापन विभागाने र.रु. ५,९१,६५,३३५/- इतक्या रकमेची सक्षम प्राधिकरणाने प्रमाणित करून दिलेली आहे.

७. निविदा अटी/शर्ती मध्ये केलेल्या कामाचे काम करतांनाचे जिओ टॅगिंग फोटो जोडण्यात यावे, देयक अदायगीचे वेळेस फोटो सादर करावे व ते कार्यकारी विभागाच्या उपअभियंता यांनी प्रमाणित करावे.

८. आगामी अंदाजपत्रकात "सिहंस्थ कुंभमेळा कामे २०२७" संगणक कोड क्र. "४०९७" या लेखाशिर्षामधुन हाती घेण्यात येणाऱ्या कामांचा समावेश करून त्यासाठी मनपा हिस्स्यापोटी येणाऱ्या खर्चासाठी तरतूद करणेची दक्षता कार्यकारी विभागाने घ्यावी.

९.नाशिक मनपा मार्फत सिंहस्थच्या दृष्टीने विविध प्रशासकीय विभागा अंतर्गत केंद्र व राज्य योजनांमध्ये जसे की अमृत २.० (मलनि:स्सारण व पाणीपुरवठा), UCF इ. अंतर्गत निधी उपलब्ध होण्याच्या अनुषंगाने, महत्वाचे विविध भांडवली कामांचे प्रकल्प हाती घेण्यात आले आहेत. त्यामुळे नाशिक मनपा हिस्साकरीता करावा लागणारा निधी हा म्युनिसिपल बॉण्डद्वारे रु. २००.०० कोटी व ग्रीन बॉण्डद्वारे र.रु. २००.०० कोटी असे एकूण र.रु. ४००.०० कोटी व उर्वरित मनपा स्वनिधी मधून उभारण्याची कार्यवाही सुरु आहे. सदर बॉण्ड उभारणी करतांना विशिष्ठ प्रकल्प हाती घेणे आवश्यक आहे. त्यामुळे सिंहस्थ आराखडा २०२७ च्या अंतर्गत, नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणामार्फत नाशिक मनपास विविध विकास कामांसाठी प्राप्त होणाऱ्या एकूण निधी हा, सिंहस्थच्या दृष्टीने आवश्यक असलेल्या प्रकल्पांमध्ये नाशिक मनपाने केलेला खर्च हा कामनिहाय हिस्सा न पकडता, एकत्रितरित्या मनपा हिस्सा म्हणून समायोजित करणे आवश्यक आहे याबाबत वरिष्ठ अधिकाऱ्यांचे शासन स्तरावर विचारविनिमय चालू आहे.

विषय:- नाशिक शहरातील मनपा हद्दीतील गंगापूर रोड बारदान फाटा ते सुला चौक पर्यंतचा रस्ता विकसित करणे. **(निविदा र.रु. ५६,८५,७८,४९७/-)**

सबब सदर बाबतीत कार्यकारी विभागाने प्रमाणित करून प्रस्तावित केलेप्रमाणे येणारा खर्च र.रु. ५६,८५,७८,४९७/- **(अक्षरी र.रु. छप्पन कोटी पंच्याऐंशी लक्ष आठ्याहत्तर हजार चारशे सत्यान्नव मात्र)** या खर्चास शासन अनुदान प्राप्त होण्याच्या अधीन व निधी उपलब्धतेनुसार महाराष्ट्र महानगरपालिका अधिनियम कलम ७३ (क) अन्वये सक्षम प्राधिकरण म्हणून मा. महासभेची प्रशासकीय मान्यता घेऊन ई-निविदा राबविणेकामी सक्षम प्राधिकरणाच्या उचित निर्णयार्थ सादर.

(अजय कमोद)
उपलेखापाल -

(गुलाब वा.गावित)
उपमुख्य लेखाधिकारी -

(दत्तात्रय ज्ञा.पथरूट)
मा. मु.ले.व वित्त अधिकारी सो. -

मा.मुलेप

(9)

58बांधकाम

विषय:-गंगापुररोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळंना जोडणारा त्रंबकरोड जोड रस्ता करणे कामी प्रशासकिय मंजुरी बाबत आहे.

1) प्राकलन र. रू. 50,94,13,162/-इतकेआहे.
2) प्राकलनातील दर जिल्हा नियंत्रण दर सुची सन 2022-2023 प्रमाणे घमण्यात आलेले आहे.
3) यास दि.१४/०९/२०२५ अनुवे नाशिक त्रबेक्षेश्वर कुभामेळा प्राधीकरण सामित्यीची मानेता आहे,व आदेशात नमूदकेल्या प्रमाणे विभागाने कार्यवाही करणेत यावी.
4) विभागाने कामाची निकड पृष्ठ क्र. 7 वर नमुद केली आहे.
5) सदर कामाचे प्राकलनातील रक्कम व प्राकलनातील बाबीचे तांत्रिक विभागाने तपासणी करून प्रमाणित केलेआहे.
6) लेखा व वित्तविभागाचा पृष्ठ क्र.7,8 वरील अभिप्रायाचे अवलोकन करणेत यावे.
7) मंजुर तरतुदीच्याआत खर्च होईल याबाबत विभागा दक्षता घेण्यात यावी.
8) मा.आयुक्त सोयां चे कडील 111 दिनांक 06/06/2024 व आ.क. 487 दिनांक 24/12/2016 रोजीच्या च परिपत्रका नुसार कार्यवाही करणे बाबत विभागाने दक्षता घ्यावी.
9) सदरचे काम दुबार होणार नाही या बाबत विभागाने दक्षता घेणेत यावी.
10) मा. आयुक्त यांचे कडील दिनांक 02/6/01/2025 चे परिपत्रका नुसार कार्यवाही करणे बाबत विभागाने दक्षता घ्यावी.
11) सदरचे काम जाहिर निविदेव्दारे करणेत यावे.
12) विभागाने शिखर समिची मानेता घेणे आवश्यक आहे या बाबत विभागाने दक्षता घेणेत यावी.
13) The Maharastra Stamp Duty Act 1958 Amended by Mah.act 20 of 2025 Dt 04/2055,Mah .Act act No,9 of2025 DT. 1.1.2025 And Mah.Act,No,32 of2024 dt 31.07.2024 Section 34 (Penalty) बाबत विभागाने दक्षता घेणेत यावी.

प्रस्तावास प्रशासकिय मंजुरि घेऊन दिनांक 01/12/2016 रोजीच्या शासन निर्णया प्रमाणे नियमोची कार्यवाहीच्या पुढील निर्णयास्तव सादर

वलेप-किरण धारणकर

मा.उपमुले (प्र) किरण धारणकर

मा.मुख्य लेखापरिक्षक (बी. जे. गायकवाड)

मा City Engineer

दै लोकमत दि २१/९/२०२५

(11)

नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई- टेंडर सेल विभाग

सिंहस्थ कामे- ई- निविदा सूचना क्र.०३ (सन २०२५-२६)

नाशिक महानगरपालिका, नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सूचना क्रमांक ०३ (सन २०२५-२६) दिनांक २२/०९/२०२५ पासून दिनांक ०६/१०/२०२५ रोजी दुपारी ३.०० वाजेपावेतो मा. शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल. निविदा स्वीकृतीची अंतिम दिनांक ०६/१०/२०२५ राहील.

टीप - यापुढील सर्व आवश्यक सूचना/शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

Sd/-XXX
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

Sd/-XXX
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

जनसंपर्क /जा. क्र./२६०/२०२५ दिनांक २०/०९/२०२५

दै सकाळ दि २१/९/२०२५

नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई-टेंडर सेल विभाग

सिंहस्थ कामे- ई-निविदा सुचना क्र. 03 (सन २०२५-२६)

नाशिक महानगरपालिका, नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सुचना क्रमांक ०३ (सन २०२५-२६) दिनांक २२/०९/२०२५ पासुन दिनांक ०६/१०/२०२५ रोजी दुपारी ३.00 वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल. निविदा स्विकृतीची अंतिम दिनांक ०६/१०/२०२५ राहील.

टीप - यापुढील सर्व आवश्यक सुचना / शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

Sd/-xxx
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

sd/-xxx
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

जनसंपर्क/जा.क्र/२६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टाळा, भविष्य सांभाळा.

दै. पुण्यनगरी दि २१/९/२०२५

नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई-टेंडर सेल विभाग

सिंहस्थ कामे- ई-निविदा सुचना क्र. 03 (सन २०२५-२६)

नाशिक महानगरपालिका, नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सुचना क्रमांक ०३ (सन २०२५-२६) दिनांक २२/०९/२०२५ पासुन दिनांक ०६/१०/२०२५ रोजी दुपारी ३.00 वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल. निविदा स्विकृतीची अंतिम दिनांक ०६/१०/२०२५ राहील.

टीप - यापुढील सर्व आवश्यक सुचना / शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

Sd/-xxx
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

sd/-xxx
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

जनसंपर्क/जा.क्र/२६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टाळा, भविष्य सांभाळा.

दै. पिंपरी दि २१/९/२०२५

नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई- टेंडर सेल विभाग

सिंहस्थ कामे - ई- निविदा सुचना क्र.०३ (सन २०२५-२६)

नाशिक महानगरपालिका, नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई- निविदा सुचना क्रमांक ०३ (सन २०२५-२६) दिनांक २२/०९/२०२५ पासुन दिनांक ०६/१०/२०२५ रोजी दुपारी ३.०० वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल. निविदा स्विकृतीची अंतिम दिनांक ०६/१०/२०२५ राहील.

टीप - यापुढील सर्व आवश्यक सुचना / शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

सही/-xxx
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

सही/-xxx
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

जनसंपर्क/जा. क्र./२६०/२०२५ दिनांक २०/०९/२०२५

दै प्रात: काल दि २१/९/२०२५

NASHIK MUNICIPAL CORPORATION, NASHIK
E-Tender Cell Department

Sinhastha Work - E-Tender Notice No.03 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in. from dt.22/09/2025 to 06/10/2025 up to 3.00 pm. Last date for acceptance of tender will be dt.06/10/2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-xxx
Executive Engineer
(Tender Cell)
Nashik Municipal Corporation

Sd/-xxx
Additional Commissioner(2)
Nashik Municipal
Corporation

जनसंपर्क/जा.क्र/२६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टाळा, भविष्य स

दै. लोकमत टाइम्स दि २५ वा वार्ता

(12)

NASHIK MUNICIPAL CORPORATION, NASHIK
E-Tender Cell Department
Sinhastha Work - E-Tender Notice No.03 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in. from dt.22/09/2025 to 06/10/2025 up to 3.00 pm. Last date for acceptance of tender will be dt.06/10/2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-xxx
Executive Engineer
(Tender Cell)
Nashik Municipal Corporation

Sd/-xxx
Additional Commissioner(2)
Nashik Municipal
Corporation

जनसंपर्क/जा.क्र/२६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टाळा, भविष्य सभाळा.

दै. टाइम्स ऑफ इंडिया दि २५ वा वार्ता

NASHIK MUNICIPAL CORPORATION, NASHIK
E-Tender Cell Department
Sinhastha Work - E-Tender Notice No.03 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in. from dt.22/09/2025 to 06/10/2025 up to 3.00 pm. Last date for acceptance of tender will be dt.06/10/2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-xxx
Executive Engineer
(Tender Cell)
Nashik Municipal Corporation

Sd/-xxx
Additional Commissioner(2)
Nashik Municipal
Corporation

जनसंपर्क/जा.क्र/२६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टाळा, भविष्य सभाळा.

दै. हिंदुस्थान टाइम्स दि २५ वा वार्ता

NASHIK MUNICIPAL CORPORATION, NASHIK
E-Tender Cell Department
Sinhastha Work - E-Tender Notice No.03 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in. from dt.22/09/2025 to 06/10/2025 up to 3.00 pm. Last date for acceptance of tender will be dt.06/10/2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-xxx
Executive Engineer
(Tender Cell)
Nashik Municipal Corporation

Sd/-xxx
Additional Commissioner(2)
Nashik Municipal
Corporation

जनसंपर्क/जा.क्र/२६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टाळा, भविष्य सभाळा.

दै mint टाइम्स

NASHIK MUNICIPAL CORPORATION, NASHIK
E-Tender Cell Department
Sinhastha Work - E-Tender Notice No.03 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in. from dt.22/09/2025 to 06/10/2025 up to 3.00 pm. Last date for acceptance of tender will be dt.06/10/2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-xxx
Executive Engineer
(Tender Cell)
Nashik Municipal Corporation

Sd/-xxx
Additional Commissioner(2)
Nashik Municipal
Corporation

जनसंपर्क/जा.क्र/२६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टाळा, भविष्य सभाळा.

दै. गवकाल दि २५ वा वार्ता

NASHIK MUNICIPAL CORPORATION, NASHIK
E-Tender Cell Department
Sinhastha Work - E-Tender Notice No.03 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in. from dt.22/09/2025 to 06/10/2025 up to 3.00 pm. Last date for acceptance of tender will be dt.06/10/2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-xxx
Executive Engineer
(Tender Cell)
Nashik Municipal Corporation

Sd/-xxx
Additional Commissioner(2)
Nashik Municipal
Corporation

जनसंपर्क/जा.क्र/२६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टाळा, भविष्य सभाळा.

आगे →

दै. नवभारत दि १६/१०/२०२५ 180

Nashik Municipal Corporation, Nashik
Public Health Engineering Department (Sewerage)
Rajiv Gandhi Bhavan, Sharanpur Road, Nashik- 422 002
Ph. (0253) 2575631/32, 2579119 Fax: 2577936
E-Tender Notice No. 03/ 2025-26

Nashik Municipal Corporation, invites bids vide e-Tender No-03/(2025-26) for 01 works. The Detailed Tender Notice & Tender documents will be available on www.mahatenders.gov.in. from Dt. 17/10/2025 to Dt. 03/11/2025.

Sd/xxx
Superintending Engineer
Public Health Engineering
Department (Sew)
Nashik Municipal
Corporation, Nashik

Sd/xxx
Commissioner &
Administrator
Nashik Municipal
Corporation, Nashik

जनसंपर्क/जा.क्र/२९४/२०२५ दि.१५/१०/२०२५

गोदा प्रदुषण टाळा, भविष्य संभाळा.

दै. गावकरी दि १६/१०/२०२५

Nashik Municipal Corporation, Nashik
Public Health Engineering Department (Sewerage)
Rajiv Gandhi Bhavan, Sharanpur Road, Nashik- 422 002
Ph. (0253) 2575631/32, 2579119 Fax: 2577936
E-Tender Notice No. 03/ 2025-26

Nashik Municipal Corporation, invites bids vide e-Tender No-03/(2025-26) for 01 works. The Detailed Tender Notice & Tender documents will be available on www.mahatenders.gov.in. from Dt. 17/10/2025 to Dt. 03/11/2025.

Sd/xxx
Superintending Engineer
Public Health Engineering
Department (Sew)
Nashik Municipal
Corporation, Nashik

Sd/xxx
Commissioner &
Administrator
Nashik Municipal
Corporation, Nashik

जनसंपर्क/जा.क्र/२९४/२०२५ दि.१५/१०/२०२५

गोदा प्रदुषण टाळा, भविष्य संभाळा.

दै. टाईम्स ऑफ इंडिया दि १६/१०/२०२५

Nashik Municipal Corporation, Nashik
Public Health Engineering Department (Sewerage)
Rajiv Gandhi Bhavan, Sharanpur Road, Nashik- 422 002
Ph. (0253) 2575631/32, 2579119 Fax: 2577936
E-Tender Notice No. 03/ 2025-26

Nashik Municipal Corporation, invites bids vide e-Tender No-03/(2025-26) for 01 works. The Detailed Tender Notice & Tender documents will be available on www.mahatenders.gov.in. from Dt. 17/10/2025 to Dt. 03/11/2025.

Sd/xxx
Superintending Engineer
Public Health Engineering
Department (Sew)
Nashik Municipal
Corporation, Nashik

Sd/xxx
Commissioner &
Administrator
Nashik Municipal
Corporation, Nashik

जनसंपर्क/जा.क्र/२९४/२०२५ दि.१५/१०/२०२५

गोदा प्रदुषण टाळा, भविष्य संभाळा.

दै. हिंदुस्थान टाईम्स दि १६/१०/२०२५

(15)

(15)

सविनय सादर.

दिनांक : २४/०९/२०२५

विषय : सार्वजनिक बांधकाम विभागामार्फत करावयाच्या कामांची ई-निविदा नोटीसचे शुद्धीपत्रक प्रसिध्द करणे बाबत.

संदर्भ : १) अध्यक्ष ,नाशिक –त्र्यंबकेश्वर कुंभमेळा प्राधिकरण तथा विभागीय आयुक्त सो. यांचे कडील दि.१४/०९/२०२५ रोजीची प्रशासकीय मान्यता.
२) सिंहस्थ कामे ई-निविदा सु.क्र.०३ सन २०२५-२६

उपरोक्त संदभ क्र.१ अन्वये अध्यक्ष ,नाशिक –त्र्यंबकेश्वर कुंभमेळा प्राधिकरण तथा विभागीय आयुक्त सो. यांचे कडील दि.१४/०९/२०२५ रोजीची प्रशासकीय मान्यता मिळाल्यानुसार, संदर्भ क्र.-२ अन्वये सिंहस्थ अंतर्गत रस्त्यांच कामांची ई-निविदा सु.क्र.०३ सन २०२५-२६ वर्तमान पत्रात प्रसिद्ध करण्यात आली होती. सदर निविदा संच विक्रीचा कालावधी हा दि.२२/०९/२०२५ ते दि.०६/१०/२०२५ असा होता. परंतु तांत्रिक अडचणीमुळे ऑनलाईन निविदा अपलोड करण्यास विलंब झाला आहे. त्यामुळे सदर निविदेचा विक्री कालावधी दि.२५/०९/२०२५ ते दि.१०/१०/२०२५ रोजी पर्यंत वाढविण्यास व तसे शुध्दीपत्रक ऑनलाईन प्रसिध्द करणेस मंजुरी मिळणेस विनंती.

क.लिपीक
(राहुल पोरजे)

कार्यकारी अभियंता (रविंद्र बागुल) | कार्यकारी अभियंता (नवनीत भामरे) | कार्यकारी अभियंता (रविंद्र पाटील) | कार्यकारी अभियंता (संदेश शिंदे) | कार्यकारी अभियंता (प्रशांत पगार)

मा.शहर अभियंता
(संजय अग्रवाल)

मे मान्य करणेस सरकत नाही.

(प्रदिप चौधरी)
मा.अतिरीक्त आयुक्त सो.

(मनिषा खत्री)
मा.आयुक्त तथा प्रशासक सो.

(18)

नाशिक महानगरपालिका,नाशिक
मध्यवर्ती ई-टेंडर सेल विभाग
सिंहस्थ कामे ई- निविदा सुचना क्र.०३ चे शुद्धीपत्रक (सन २०२५-२६)

नाशिक महानगरपालिकेच्या सार्वजनिक बांधकाम विभागाच्या खालील नमुद केलेल्या कामा करीता महाराष्ट्र शासन अथवा केंद्र शासनाच्या अथवा निमशासकीय संस्थेकडे योग्य वर्गातील पंजीकृत व काम करण्याचा अनुभव असलेल्या मक्तेदाराकडून ई-टेंडर (ऑनलाईन) निविदा मागवित आहोत.

अ.क्र	कामाचे नाव	प्राकलन र.रु
१)	गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/त्र्यंबकरोड जोडरस्ता)	५६,८५,७८,४९७/-
२)	त्र्यंबक रोड पपया नर्सरी सिग्नल ते एक्स.लो. जंक्शन (बाह्य वाहनतळ / रेल्वे स्थानक-त्र्यंबकरोड- मुंबई महामार्ग जोडरस्ता / वाहतूक नियोजन)	७७,३२,७५,३४३/-
३)	एक्सलो चौक ते गरवारे चौकपावेतो (बाह्य वाहनतळ / रेल्वे स्थानक त्र्यंबकरोड मुंबई महामार्ग जोडरस्ता / वाहतूक नियोजन)	७१,९८,७४,७१०/-
४)	वडनेर गेट ते विहितगाव (लॅम रोड) (रेल्वे स्थानक त्र्यंबकरोड जोडरस्ता वाहतूक नियोजन)	३१,९९,९९,७४०/-
५)	विहितगाव (लॅम रोड) ते बिटको चौक ते जेलरोड-गोदावरी नदी पर्यंत (घाटाकडे जाणारा रस्ता)	६५,५०,०१,८०३/-
६)	नांदूर पूल ते जत्रा हॉटेल (घाटाकडे जाणारा रस्ता)	७१,२०,०४,८९५/-
७)	लेखा नगर NH३-कलानगर चौक- वडाळागाव रविशंकर मार्ग-विजय ममता चौक (घाटाकडे जाणारा रस्ता / वाहतुक नियोजन)	३८,४९,७५,८१२/-
८)	संगम पूल ते मिर्ची हॉटेल चौक ते अमृतधाम चौक ते गुंजाळ बाबा चौक तारवाला चौक ते मार्केट सिग्नल ते मखमलाबाद रोड (घाटाकडे जाणारा रस्ता / साधुग्राम पोहोच रस्ता)	८३,२६,४७,५०९/-
९)	के.टी.एच.एम. पूल ते जुना गंगापूर नाका ते शरणपूर पोलीस चौकी, बॉश (मायको) सर्कल ते चांडक सर्कल ते महामार्ग बस स्टॅन्ड (घाटाकडे जाणारा रस्ता / वाहनतळ जोडणारा)	४८,०८,०९,४०७/-
१०)	विजय ममता चौक-टाकळी गाव-संगम पूल (घाटाकडे जाणारा रस्ता/ साधुग्राम पोहोच रस्ता)	२२,१९,८७,६९४/-
११)	अशोक स्तंभ ते जेहान सर्कल (गंगापूर रोड) रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता/वाहनतळ जोडणारा)	३७,८१,००,०३९/-
१२)	गंगापूर रोड - जेहान सर्कल ते गंगापूर गाव मनपा हद्द पावेतो रस्ता विकसित करणे. (वाहनतळ जोडणारा रस्ता)	४९,३४,६०,३४८/-
१३)	खडकाळी सिग्नल ते त्र्यंबक नाका ते आयटीआय सिग्नल (त्रंबक रोड) पर्यंतचा रस्ता विकसित करणे. (नाशिक त्रंबक कुंभमेळा दोन्ही ठिकाणी जोडणारा ररता / वाहनतळ जोडणारा रस्ता)	५१,०५,१६,७५०/-

अ.क्र	कामाचे नाव	प्राकलन र.रु
१४)	त्र्यंबक रोड आय.टी.आय. सिग्नल ते पिंपळगाव बहुला मनपा हद्द रस्ता विकसित करणे. (नाशिक त्रंबक कुंभमेळा दोन्ही ठिकाणी जोडणारा रस्ता /वाहनतळ जोडणारा रस्ता)	४९,२८,६८,७२७/-
१५)	निमाणी चौक ते मनपा हद्द पावेतोचा दिंडोरी रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता /वाहनतळ जोडणारा)	५९,५६,९९,४६५/-
१६)	पेठ रोड कालवा ते मेहेरधाम पेठ रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता / वाहनतळ जोडणारा)	७६,४९,०९,२७३/-
१७)	पुणे रोड- दत्त मंदिर चौक ते सिन्नर फाटा (रेल्वे स्थानक जोड रस्ता)	१७,७४,८१,९८२/-
१८)	जनार्दन स्वामी गठ (छत्रपती संभाजी नगर रोड) ते लक्ष्मी नारायण मंदिरपुल ते ड्रीम सिटी चौक (घाटाकडे जाणारा रस्ता/ साधुग्राम जोडणारा रस्ता)	१४,९९,८५,९३७/-
उपरोक्त नमुद अ.क्र.१ ते१८ चे कामांसाठी निविदा फी र.रु.३६३१/- इतकी राहील		

अटीशर्ती-

१) सविस्तर निविदा नोटीस मा. राज्य शासनाचे संकेत स्थळ (Website) www.mahatenders.gov.in वर प्रसिध्द केली आहे त्याचे अवलोकन करावे.

२) सदर कामासाठी ऑनलाईन निविदा संच विक्री दि.२५/०९/२०२५ ते दि.१०/१०/२०२५ या कालावधी मध्ये केली जाईल.

३) सदर कामासाठी निविदापुर्व बैठक दि. ०१/१०/२०२५ रोजी दु.४.०० वाजता ऑनलाईन पध्दतीने घेण्यात येईल, त्याची लिंक निविदा दस्तामध्ये दिलेली आहे.

४) सदर कामांसाठी ऑनलाईन सादरी करणाची अंतिम मुदत दि.१०/१०/२०२५ रोजी दु.३.०० वाजे पर्यंत राहील.

५) सदर कामासाठी ऑनलाईन सादर केलेल्या निविदा दि.११/१०/२०२५ रोजी दु.३.०० वाजेनंतर (शक्य झाल्यास) कार्यकारी अभियंता (टेंडर सेल) यांचे समक्ष उघडण्यात येतील.

६) कोणतेही कारण न देता निविदा स्विकारणे अथवा नाकारणे याबाबतचे अंतिम अधिकार मा.आयुक्त सो. तथा प्रशासक नाशिक मनपा यांचे राहतील.

Sd xxx/-
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

Sd xxx/-
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

(19)

दिनांक : ०९/१०/२०२५

सविनय सादर,

विषय : ई-निविदा सु.क्र.०३ सन २०२५-२६ या कामास मुदतवाढ मिळणे बाबत.

संदर्भ : १) अध्यक्ष ,नाशिक –त्र्यंबकेश्वर कुंभमेळा प्राधिकरण तथा विभागीय आयुक्त सो. यांचे कडील दि.१४/०९/२०२५ रोजीची प्रशासकीय मान्यता.

२) सिंहस्थ कामे ई-निविदा सु.क्र.०३ सन २०२५-२६

उपरोक्त संदर्भ क्र.१ अन्वये अध्यक्ष ,नाशिक –त्र्यंबकेश्वर कुंभमेळा प्राधिकरण तथा विभागीय आयुक्त सो. यांचे कडील दि.१४/०९/२०२५ रोजीची प्रशासकीय मान्यता मिळाल्यानुसार, संदर्भ क्र.-२ अन्वये सिंहस्थ अंतर्गत रस्त्यांच कामांची ई-निविदा सु.क्र.०३ सन २०२५-२६ वर्तमान पत्रात प्रसिद्ध करण्यात आली होती. सदर कामाची निविदा सादरीकरणाची अंतीम मुदत ही दि.१०/१०/२०२५ रोजी पावेतो आहे. सदर कामाची ऑनलाईन पध्दतीने निविदापुर्व बैठक दि.०१/१०/२०२५ रोजी घेण्यात आली. सदर बैठक व मक्तेदार यांच्या कडील लेखी मुद्दे यास अनुसरुन Modified Clause नुसार अटी/ शर्ती बाबत CSD Common set of Deviation / Addendum / Corrigendum प्रसिध्द करावयाचे आहे. त्यानंतर मक्तेदार यांना निविदा सादर करण्यासाठी पुरेसा कालावधी मिळावा यासाठी सदर निविदेस मुदतवाढ देणे आवश्यक आहे. त्यामुळे सदर निविदेस दि.१७/१०/२०२५ रोजी पावेतो मुदतवाढ मिळणेस विनंती.

क.लिपीक
(राहुल पोरजे)

कार्यकारी अभियंता (रविंद्र बागुल) | कार्यकारी अभियंता (नवनीत भामरे) | कार्यकारी अभियंता (रविंद्र पाटील) | कार्यकारी अभियंता (संदेश शिंदे) | कार्यकारी अभियंता (प्रशांत पगार)

मा.शहर अभियंता
(संजय अग्रवाल)

(प्रदिप चौधरी)
मा.अतिरीक्त आयुक्त सो.

(मनिषा खत्री)
मा.आयुक्त तथा प्रशासक सो.

मा. कार्यकारी अभियंता निविदा मंजूर करण्यात आहे आहे आहे

सा. शहर अभियंता :–

20

नाशिक महानगरपालिका,नाशिक
मध्यवर्ती ई- टेंडर सेल विभाग

सिंहस्थ कामे- ई- निविदा सुचना क्र.०३ शुध्दीपत्रक-१ (सन २०२५-२६)

नाशिक महानगरपालिका,नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सुचना क्रमांक.०३ (सन २०२५-२६) दिनांक २५/०९ /२०२५ पासुन दिनांक १७/१०/२०२५ रोजी दुपारी ३.०० वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल.निविदा स्विकृतीची अंतिम दिनांक १७/१०/२०२५ राहील.

टीप - यापुढील सर्व आवश्यक सुचना/शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

स्वाक्षरीत/-
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

Nashik Municipal Corporation, Nashik
E-Tender Cell Department

Sinhastha Work - E-Tender Notice No.03 Corigendum-1 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in. from dt.25/09/2025 to 17/10/2025 up to 3.00 pm Last date for acceptance of tender will be dt.17/10 /2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-
Executive Engineer (Tender Cell)
Nashik Municipal Corporation

(22)



NASHIK MUNICIPAL CORPORATION::NASHIK
TENDER PROCESS REPORT
AS ON 13.12.2025

37

File/Work Name - Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Nature of the Work-CAPITAL EXPENDITURE **Prabhag No. GNR**
Estimate No.-1820016206 NMC Tender No.-1221768-1 ERP Tender No.-20251293223 Op Date-25.09.2025

Line Item No.- 10

STATUS	A	B	C	D	E	F
Date			12.11.2025	25.09.2025	04.09.2025	16.09.2025
Bill Amount						

Budget/Comp Code **4097** **ERP BUDGET CODE** **S420409707**

Account Head-

	Approving Body	Approval No.	Approval Date	Approval Amount
Technical Approval	Supretendent Eng[HOD]	11	16.09.2025	568,578,496.00
Admin Approval	GB Resol No	321	04.09.2025	568,578,496.00
Financial Approval				

	Contractor No.	Contractor Name	Bidding Amount	1st Negotiation	2nd Negotiation	Final Tender Amount
	1200581	B D SORATHIA & CO	389,812,529.00	0.00	0.00	466,991,191.04

Contractor Selected for Tender - B D SORATHIA & CO
PAN- AACFB0543P **GST- 27AACFB0543P1ZE**

NASHIK MUNICIPAL CORPORATION::NASHIK
TENDER PROCESS REPORT
(38)
AS ON 13.12.2025

Sno.	Particulars	Amount in Rs.
1	Budgetary Provision (2025-2026)	32775800,000.0
2	Current Estimate	568,578,496.00
3	Royalty Amount	6,241,608.24
4	GST Amount	85,662,623.90
5	Architecture Fee Amount	770,798.58
6	Net Estimate (2 - (3 + 4 + 5))	475,903,465.28
7	Tender %	18.0900 % BELOW
8	Tender Amount(Excl. Royalty + Final GST + Arch. Fee)	389,812,529.00
9	Royalty Amount	6,241,608.24
10	Final GST Amount	70,166,255.22
11	Architecture Fee Amount	770,798.58
12	Final Tender Amt (Incl. Royalty + Final GST + Arch. Fee)	466,991,191.04
13	Outstanding Tender Amount	2,757,908,388.00
14	Total Outstanding (12 + 13)	3,224,899,579.04
15	Current Year Payments	0.00
16	Balance Budget (1-(14+15))	29550900,420.96

Junior Engineer

Deputy Engineer

Executive Engineer

City Engineer/Superintdent Engineer/H.O.D

Junior Accountant / Deputy Accountant

Senior Accountant

Deputy C.A.O.

C.A.O.

दिनांक : / /२०२५

(३७)

सविनय सादर,

विषय : गंगापुर रोड बारदान फाटा ते सुला चौक (बाहय वाहनतळ तेअंतर्गत वाहजळाला जोडणारा/त्रंबकरोड जोडरस्ता)

संदर्भ : १) मा.महासभा ठराव क्रमांक.३२१ दिनांक. ०४ /०९ /२०२५
२) ई- निविदा सु.क्र.०३/०१ (सन २०२५-२६)
३) नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचाकडील प्रशासकीय मान्यता आदेश दि.१४/०९/२०२५.

नाशिक-त्र्यंबकेश्वर येथे सन-२०२७ होणारा सिंहस्थ कुंभमेळा पुर्व तयारी दृष्टीकोनातुन वाहतुक व्यवस्था सुधारणे आदी दृष्टीकोनातुन, रस्त्याचा कामाची यादी तयार करुन त्यानुसार निधी मागणीसाठी प्रस्ताव सादर करण्यास मा.महासभा ठराव क्र.३२१ दि.०४/०९/२०२५ अन्वये मान्यता प्राप्त झाली आहे. त्यापुर्वी नाशिक महानगरपालिके मार्फत दि.०२/०७/२०२४ अन्वये र.रु.१५१७२.४२ कोटी रक्कमेचा आराखडा मंजुरीसाठी पाठविण्यात आला होता. त्याचप्रमाणे दि.०४/०६/२०२५, दि.१७/०७/२०२५, दि.१०/०७/२०२५, दि.०९/०९/२०२५, दि.०३/१०/२०२५, दि.२४/१०/२०२५ अन्वये वारंवार निधी मंजुरीसाठी पाठपुरावा करण्यात आला. त्याचप्रमाणे पोलिस विभागाने त्याचाकडील दि.२८/०७/२०२५ व दि.०९/०९/२०२५ चा पत्रान्वये प्रधान्यक्रम कळविला आहे. त्यास अनुसरुन नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणा मार्फत दि.१४/०९/२०२५ व दि.२२/०९/२०२५ अन्वये प्रशासकीय मान्यता प्राप्त झालेली आहे. तसेच नं.NMC/PWD/TS/१०/२०२५ दिनांक १६/९/२०२५ अन्वये मा.शहर अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे. तसेच विद्युत विभाग यांचे कडील नं. TS/४४/२०२५ दिनांक १६/०९/२०२५ अन्वये मा.अधिक्षक अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे.

सदर कामाचे सविस्तर प्राकलन अ) स्थापत्य विषयक **र.रु.५०,९४,१३,१६२/-**ब) विद्युत विषयक **र.रु.५,९१,६५,३३५/-**असे जीएसटी, टेस्टींग चार्जेस, रॉयल्टी चार्जेस सह **एकुण.र.रु ५६,८५,७८,४९७/-(अक्षरी** —छपन्न् कोटी पंच्याऐंशी लक्ष अठयाहत्तर हजार चारशे सत्यान्नव मात्र) इतके झालेले आहे.

त्यानुसार सदर कामाची **ई-निविदा सुचना क्र.०३/०१** (२०२५-२६) दि. २१/०९/२०२५ अन्वये दै.लोकमत, दै.दिव्य मराठी, दै.सकाळ, दै.लोकमत टाईम्स, दै.टाईम्स ऑफ इंडिया, दै.मिन्ट टाईम्स, दै.हिंदुस्तान टाईम्स. दै.नवभारत, दै.प्रात:काल, दै.फ्रिप्रेस जरनल, या वर्तमान पत्रात निविदा प्रसिध्द करुन ऑनलाईन निविदा मागविल्या असता अंतिम मुदतीत एकुण चार (०४) निविदाधारकांनी निविदा सादर केलेल्या आहेत. सदर प्राप्त निविदांच्या तांत्रिक कागदपत्रांची छाननी केली असता दोन (०२) निविदा तांत्रिकदृष्ट्या पात्र ठरल्या असून दि.१२/११/२०२५ रोजी आर्थिक देकार उघडण्यात आले आहेत. त्यानुसार **मे.बी.डी सोरटीया ॲन्ड कंपनी बडोदा** यांची निविदा प्राकलन दरापेक्षा १८.०१० % कमी दराची तुलनात्मकदृष्ट्या सर्वात कमी दराची प्राप्त झालेली आहे. असा अहवाल मध्यवर्ती निविदा कक्षाकडुन प्राप्त झाला असुन तो सोबत जोडला आहे.

मे.बी. डी सोरटीया ॲन्ड कंपनी बडोदा यांना लेखी पत्र देऊन वाटाघाटी व दरपृथ्थकरण सादर करणेबाबत विचारणा केली असता, मक्तेदार यांनी लेखी पत्र देऊन सदरचे काम प्राकलन दरापेक्षा **१८.०९० % कमी** दर रास्त असुन त्याच दराने प्रस्ताव मंजुर करणेची विनंती केली आहे. तसेच मक्तेदार यांनी अतिरिक्त सुरक्षा अनामत रक्कमेपोटी बॅक ऑफ बडोदा या बॅकेची FDR.No.1707252022 दि.८/१२/२०२५ र.रु.६,९३,००,०००/- सादर केलेली आहे. सोबत न्युनतम मक्तेदार यांची तांत्रिक कागदपत्रे जोडले आहे.

विषयांधीन कामास संदर्भ क्र.३ अन्वये नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची प्रशासकीय मंजुरी प्राप्त झाली असुन, प्रशासकीय मान्यता रक्कम रु.५६.८६ कोटी आहे. शासन निधीतुन कामासाठी उपलब्ध तरतुदी मधुन सदरचा खर्च करण्यात येईल.

सदर प्रशासकीय मान्यतेनुसार न्युनतम निविदाधारक **मक्तेदार मे.बी.डी सोरटीया ॲन्ड कंपनी बडोदा** यांचेकडून प्राकलन दरापेक्षा **१८.०९० % कमी** दराने र.रु.३८,९८,१२,५२९/- अधिक (र.रु.७,०१,६६,२५५/- जी.एस.टी. + र.रु.६२,४१,६०८/- रॉयल्टी व टेस्टींग चार्जेस सह) अधिक सल्लागार फी र.रु.७,७०,७९९/- अशी **एकुण र.रु.४६,६९,९१,१९१** /- (अक्षरी र.रु.शेचाळीस कोटी एकोनसत्तर लाख एक्याण्णव हजार एकशे एक्याण्णव मात्र) पावेतोच्या खर्चास मंजुरी मिळणेस व करारनामा करणेस स्थायी समितीच्या मंजुरीसाठी सोबत डॉकेट तयार करुन जोडले असून मान्य असल्यास त्यावर स्वाक्षरी होणेस विनंती.

(संदेश शिंदे)
कार्यकारी अभियंता (बांध)

(संजय अग्रवाल)
मा. शहर अभियंता

मुख्य लेखा व वित्त अधिकारी

नाशिक महा...
लेखा वि...
आवक क्र.- 1081
दिनांक - २/१२/२०२५
स्वाक्षरी -

(41)

विषय:- गंगापुर रोड बारदान फाटा ते सुला चौक (बाह्य बाहनतळ ते अंतर्गत वाहनतळाना जोडणारा / त्र्येबक रोड जोडरस्ता) विकसित करणे.

(प्राकलन र.रु. ५६,८५,७८,४९७/-)

(नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडीलदि.१४.०९.२०२५ रोजीच्या प्र.मा. आदेशातील **अ.क्र. १** चे काम)

सविनय सादर,

1. सद्यस्थितीत नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १४.०९.२०२५ रोजीच्या आदेशानुसार प्रशासकीय मान्यता मिळाली असल्याने "सिहंस्थ कुंभमेळा कामे २०२७" संगणक कोड क्र. "4097" या लेखाशिर्षातून खर्च करणेकामी कार्यकारी विभागाने आवश्यक ती उचित कार्यवाही करावी.

2.नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १४.०९.२०२५ रोजीच्या प्रशासकीय मान्यता आदेशातील नमुद **अ. क्र.** 1 नुसार सदर कामास **र.रु. ५६.८६** कोटीच्या खर्चास प्रशासकीय मान्यता देणेत आलेली आहे त्यानुसार प्राप्त प्रशासकीय मान्यतेनुसार शासन निधीतुन कामासाठी उपलब्ध तरतुदीच्या मर्यादेत सदर कामाचा खर्च करण्याची जबाबदारी कार्यकारी विभागाची राहील.

3. कार्यकारी विभागाने नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. 14.09.2025 रोजीच्या प्रशासकीय मान्यता आदेशातील अटी व शर्ती क्र. 1 ते 30 चे पालन करणे आवश्यक राहील.

4. मा.आयुक्त यांचे परिपत्रक जा.क्र./आस्वीस /वशि / 487 / 2019 दि.24/12/2019,जा.क्र./मनपा/ लेखा / 220/2021 दि. 24/02/2021 व परिपत्रक जा.क्र./आस्वीस/वशि/111/2024 दि.6/6/2024 अन्वये कार्यवाही करण्याची करण्याची विभागाने नोंद घ्यावी.

५. सदर कामाची तांत्रिक मान्यता सार्व. बांधकाम विभागाने **र.रु. ५०,९४,१३,१६२**/- व सार्व. आरोग्य अभि. विद्युत व्यवस्थापन विभागाने **र.रु. ५,९१,६५,३३५५**/- इतक्या रकमेची सक्षम प्राधिकरणाने प्रमाणित करून दिलेली आहे.

६ विषयांकित कामाचे प्राकलन **र.रु. ५६,८५,७८,४९७/-** निविदा मागविली असता मे.बी.डी.सोरटीया ॲण्ड कंपनी बडोदा, मे. आकार कंन्स्ट्रक्शन नाशिक, यांची निविदा प्राप्त झाली असता **L-१ मे.बी.डी.सोरटीया ॲण्ड कंपनी बडोदा**, यांची निविदा प्राकलन दरापेक्षा **१८.०९०% कमी दराने** प्राप्त झाल्याचे विभागाने नमुद केले आहे.

7. प्रस्तावित प्रकरणी प्राकलन रकमेपैक्षा १८.०९०% कमी असल्याकारणाने अतिरीक्त सुरक्षा अनामत बॅक ऑफ बडोदा या बॅकेची FDR NO. १७०७२५५२०२२ दि. ०८/१२/२०२५ अन्वये र.रू. ९३,७८,०००/- समवेत सादर केलेलीआहे.

8. सदर कामाबाबत मक्तेदाराने मुद्रांक शुल्क (stamp duty) भरलेची पावती सादर केल्यानंतरच कार्यादेश देण्याची कार्यवाही विभागाने करावी.

9. निविदा अटी/शर्ती मध्ये केलेल्या कामाचे पूर्वीचे व कामानंतरचे जिओ टॅगिंग फोटो जोडण्यात यावे, देयक अदायगीचे वेळेस फोटो सादर करावे व ते कार्यकारी विभागाच्या उपअभियंता यांनी प्रमाणित करावे.

१०. आगामी अंदाजपत्रकात "सिहंस्थ कुंभमेळा कामे 2027" संगणक कोड क्र. "4097" या लेखाशिर्षामधुन हाती ण्यात येणाऱ्या कामांचा समावेश करून त्यासाठी मनपा हिस्स्यापोटी येणाऱ्या खर्चासाठी तरतूद करणेची दक्षता कार्यकारी विभागाने घ्यावी.

११.नाशिक मनपा मार्फत सिंहस्थच्या दृष्टीने विविध प्रशासकीय विभागा अंतर्गत केंद्र व राज्य योजनांमध्ये जसे की अमृत 2.0 (मलनि:स्सारण व पाणीपुरवठा), UCF इ. अंतर्गत निधी उपलब्ध होण्याच्या अनुषंगाने, महत्वाचे विविध भांडवली कामांचे प्रकल्प हाती घेण्यात आले आहेत. त्यामुळे नाशिक मनपा हिस्साकरीता करावा लागणारा निधी हा म्युनिसिपल बॉण्डद्वारे रु. 200.00 कोटी व ग्रीन बॉण्डद्वारे र.रु. 200.00 कोटी असे एकूण र.रु. ४००.00 कोटी व उर्वरित मनपा स्वनिधी मधून उभारण्याची कार्यवाही सुरु आहे. सदर बॉण्ड उभारणी करतांना विशिष्ठ प्रकल्प हाती घेणे आवश्यक आहे. त्यामुळे सिंहस्थ आराखडा 2027 च्या अंतर्गत, नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणामार्फत नाशिक मनपास विविध विकास कामांसाठी प्राप्त होणाऱ्या एकूण निधी हा, सिंहस्थच्या दृष्टीने आवश्यक असलेल्या प्रकल्पांमध्ये नाशिक मनपाने केलेला खर्च हा कामनिहाय हिस्सा न पकडता, एकत्रितरित्या मनपा हिस्सा म्हणून समायोजित करणे आवश्यक आहे याबाबत वरिष्ठ अधिकाऱ्यांचे शासन स्तरावर विचारविनिमय चालू आहे.

(42)

उपरोक्त प्रमाणे विभागाने प्रस्तावित व प्रमाणित केल्यानुसार मक्तेदार **मे.बी.डी.सोरटीया अॅण्ड कंपनी बडोदा**, यांची निविदा प्राकलन दरापेक्षा **१८.०९०% कमी दराने र.रु.४६,६९,९१,१९१/-** (अक्षरी र.रु. शेचाळीस कोटी एकोणसत्तर लक्ष एक्यान्नव हजार एकशे एक्कयानव मात्र) इतक्या रक्कमेपर्यंत काम करुन घेणेस व करारनामा करणेस महाराष्ट्र महानगरपालिका अधिनियम कलम ७३ (क) अन्वये वित्तीय मान्यता मा.स्थायी समितीची घेण्यास हरकत नाही असे लेखा विभागाचे मत आहे. नस्ती पुढील कार्यवाहीस्तव लेखापरिक्षण विभागास पाठविण्यास सादर

प्र. व.लेखापाल (गो.कु.रा. राऊत) -

प्र.उपमुख्यलेखाधिकारी (साहेबराव पाटील)-

मा.मु.ले.व वित्त अधिकारी सो. (दत्तात्रय ज्ञा.पाथरूट) -

मा.मुलेप

नाशिक महानगरपालिका
लेखा विभाग
जावक क्र.- २७८२
दिनांक - १२/१२/२०२५
स्वाक्षरी -

प्रस्ताव CITY ENGINEER यांच्याकडून सादर

Name,of,work- DEELOPMENT OF ROAD FROM ANGAPUER ROAD BARDHANFATA TO SULA CHOWK .

लेखा विभागाने पान क्र. 41,42 वर अभिप्राय नमुद केला आहे. त्यानुसार विभागाने कार्यवाही करावी.

- निविदा मागविले असता मुदतीत 4 निविदे पैकी न्युनतम दर निविदा धारक B,D. SORATHIA & CO..ची निविदा प्राकलन रक्कमे पेक्षा18.090%BELOW.वाटाघाटीअंती 18.090%Below,दराने काम करण्याची तयारी दर्शविली आहे. कामाचा दर्जा व गुणवत्ते बाबत विभागाने दक्षता घेणेत यावी.
- मा. आयुक्त यांचे आदेश क्र. 02 दिनांक 06/01/2025 रोजीच्या आदेशात नमुद केल्या बाबीं बाबत विभागाने दक्षता घेण्यात यावी.
- मा.आयुक्त सो. यांचे आदेश क्र. 111 दिनांक 06/06/2024 रोजीच्या आदेशात नमुद केलेल्या बाबीं बाबत विभागाने दक्षता घेण्यात यावी.
- दर योग्य असले बाबत विभागाने पान क्र.39,40वर प्रमाणीत करून त्या प्रमाणे अभिप्राय नोदविलेला आहे.
- प्राकलनात 18% GST धरण्यात आलेला आहे. सदर मक्तेदारस नियमानुसार GST अदा करणेत येईल. केंद शासनाने व राज्य शासनाने GST माफ केल्यास GST देय होणारनाही. याची विभागाने दक्षता घेण्यात यावी.
- मा.मुलेप सो. यांचे परिपत्रक क्र. ५९९ दिनांक ०१/०७/२०२५ रोजीच्या आदेशात नमुद केल्याबाबीं (Stamp Duty) सुधारित दराने वसुली बाबत विभागाने दक्षता घेण्यात यावी.
- THE MAHARASHRA STAMP ACT 1958 AMENDED BY MAH ACT NO.20 OF 2025 DT.01/04/2025 SECTION 34 CLAUSE NO 34 (II) बाबत विभागाने दक्षता घेण्यात यावी.
- न्युनतम मक्तेदार यांना कामाचा आदेश देतांना जादा रक्कमेचा जाणार नाही याबाबत विभागाने दक्षता घ्यावी.
- सदरचे काम दुबार होणार नाही याबाबत विभागाने दक्षता घ्यावी.

विभागाने प्रस्तावीत केल्या नुसार व शिफारशी नुसार र.रू,46,69,91,191/-इतक्या रक्कमेस प्रस्ताव रक्कमेस मा. स्थायी समितीच्या मान्यतेच्या पुढील निर्णयास्तव सादर.

वलेप - कृष्णा रामु पडोळ

મા.ઉપમુલેપ (પ્ર.)- किरण धारणकर

પ્રસ્તાવિત કામાની નાંણીક વ્યવસ્થાના દરોની અનુકુલના દરાણા નિયમાનુસારનું અંદાજપત્રકીય મંજુર નિવિદાની પ્રણાલીના. રાબવિવ્યાન કામોની નિવિદા વનિવિદેન મંજુર કોકના કિંમતો ડાર્ની કરવાની સત્તાઓની વ્યાખ્યા પ્રમાણે કાર્યવાહી કરવા સાદિત કરુ " પ્રમાણે કાર્યવાહી કરવા

મા. મુલેપ - બી.જે. गायकवाड

મા. CITY ENGINEER

विकासाधीन वनमालावर लेखा व लेखापरिक्षणाची विभागाची मान्यता, पर्यावरणीय आलेखी आहे.

मक्तेदाराचे व मक्तेदाराचा कर मंजुरी नसल्याचे प्रस्तावामध्ये मक्तेदार मंजुरीसाठी माननीय स्थायि समिती मंजुरी आवश्यक असून, मान्यतेस्तव सादर.

माननीय आयुक्त

मा. मार्ग. उपायुक्त

प्रस्ताव मान्य करण्यास हरकत नाही.

मा. अमुक

ePrecurement System Government of Maharashtra
Created By: SANDESH SHINDE
Created Date/Time: 12-Nov-2025 01:55 PM
Tender Title: Development of road from, Gangapur Road Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)
Tender ID: 2025_NMC_1221768_1

Tender Inviting Authority: Executive Engineer

Name of Work: Development of road from, Gangapur Road Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)

Contract No: NMC/E-tender Cell/03/01/2025-26

SCHEDULE OF WORK / ITEM(S)

Sl.No	Bidder Name	Estimated Rate	Quoted Percentage	Quoted Rate in Figures and Words (Iteration 0)	
				Rate	Amount
1.00	AAKAR CONSTRUCTIONS (GSTN-27ACLPP9752B1ZA) BID ID -6930878	475903466.000	-9.900	428789022.866	Fourty Two Crore Eighty Seven Lakh Eighty Nine Thousand Twenty Two
2.00	M/s. B D Sorathia and Co. (GSTN-NA) BID ID -6929224	475903466.000	-18.090	389812529.001	Thirty Eight Crore Ninty Eight Lakh Tweleve Thousand Five Hundred Twenty Nine

Lowest Amount Quoted BY: M/s. B D Sorathia and Co.(389812529.001)

Executive Engineer
E-Tender Cell
Nashik Municipal Corporation, Nashik

BOQ Summary Details

Tender Title: Development of road from, Gangapur Road Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)

Tender ID: 2025_NMC_1221768_1

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	M/s. B D Sorathia and Co. (BID ID -6929224)	389812529.001	L1
	2	AAKAR CONSTRUCTIONS (BID ID -6930878)	428789022.866	L2

नाशिक महानगरपालिका,नाशिक

सार्वजनिक बांधकाम विभाग,मुख्यालय

दिनांक ०१/११/२०२५रोजीच्या निविदा समितीच्या बैठकिचे इतिवृत्त

संदर्भ - १. मा.आयुक्त सो,यांचेकडीलआदेश जा.क्र./आस्विस/वशि/१५६/२०१६ दि.१०/१०/२०१६
२.निविदा सुचना क्रमांक ०३ अ.क्र.०१ सन २०२५-२०२६
३. कार्यकारी अभियंता मध्यवर्ती निविदा कक्ष प्रमुख यांचे दि.०१/११/२०२५रोजीचा निविदा तपासणी अहवाल

उपरोक्त संदर्भ क्र.२ अन्वये निविदा सुचना क्रमांक ०३अन्वये अ.क्र.०१ कामाची निविदा सुचना प्रसिध्द करण्यात आली होती. सदर कामासाठी प्राप्त झालेल्या निविदेतील तांत्रिक कागदपत्रांची पडताळणी कार्यकारी अभियंता, मध्यवर्ती निविदा कक्ष यांनी करुन संदर्भ क्र.०३ अन्वये पडताळणी अहवाल सादर केला आहे. त्यावर निर्णय घेण्यासाठी निविदा समितीची बैठक दिनांक०१/११/२०२५ रोजी सकाळी ११.०० वाजता मा.अतिरिक्त आयुक्त -२ सो,यांचे दालनात संपन्न झाली सदर बैठकिस खालील सदस्य उपस्थित होते.

अ.क्र.	पदनाम	पद
१.	अतिरिक्त आयुक्त-२	अध्यक्ष
२.	शहर अभियंता	सदस्य सचिव
३.	मुख्य लेखा व वित्तअधिकारी	सदस्य
४.	मुख्य लेखापरिक्षक	सदस्य
५.	कार्यकारी अभियंता (सार्व.बांधकाम)	सदस्य

त्यावर सार्वजनिक बांधकाम विभागामार्फत करावयाच्या निविदा सुचनेतील कामासाठी तांत्रिक मान्यता व सक्षम प्राधिकरणाची प्रशासकिय मान्यता घेऊन ई-निविदा प्रसिध्द करुन निविदा देकार मागविण्यात आलेले आहेत. कार्यकारी अभियंता, मध्यवर्ती निविदा कक्ष यांचेकडून प्राप्त निविदांच्या तांत्रिक पडताळणी अहवालानुसार पुढील निर्णय घेण्यात आला.

निविदा सुचना क्रमांक ०३ अ.क्र.०१

अ.नं	कामाचे नाव	प्राकलन र.रु.	एकुण प्राप्त निविदा
०३/०१	गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/त्र्यंबकरोड जोडरस्ता) विकसीत करणे.	५६,८५,७८,४९७/-	०४

खालील नमुद केलेली कागदपत्रे तांत्रिक लिफाफयात सादर केलेली नसल्याचे निदर्शनास आलेले असल्याबाबत कार्यकारी अभियंता, मध्यवर्ती निविदा कक्ष यांच्या अहवालात नमूद केले आहे.

अ.क्र.	मक्तेदाराचे नांव	तांत्रिक लिफाफयात सादर न केलेले कागदपत्रे
१.	Aakar Construction.	**1.1 Eligibility criteria** b)Satisfactorily executed following minimum --- 1)WBM+GSB+WMM Required- 7718.99cu.m. Submitted- Single year executed quantities not submitted and share of bidder is not clear. 2) BM 30% Qty. of Schedule 'B' Required- 1362.37cu.m. Submitted- 977.62cu.mand share of bidder is not clear.
२.	B R Goyal Infrastructure	**1.2 Eligibility criteria** 1.1.3.Experience of having successfully completed similar works --- Amount- 47.08 Cr Submitted- Similar work not completed not making PQ criteria b)Satisfactorily executed minimum quantities --- 1) WBM+GSB+WMM Required – 7718.99 cu.m. Submitted- Single year executed quantities not submitted 2) BM 30% Qty. of Schedule 'B' Required- 1362.37 Submitted- Not submitted

(20)

		C) 1) Batch Mix Plant – Required- 01 owned Submitted – 01 owned but Bills are not readableand Without SCADA 2)Hydraulic Paver Finisher- Required- 01 owned Submitted – 01 ownedbut Without SCADA 3) Mechanical truck- mounted or towed type bituminous pressure sprayer- Required- 01 owned Submitted – 01 ownedWithout SCADA 4) Vibratory road roller --- Required- 02 owned with SCADA Documents not readable 5)Static roller ---Not submitted 6) Truck / Tipper --- Required- 06 ownedWith SCADA Submitted-11 owned Without SCADA 7) Motor grader--- Required- 01 owned Submitted-03 owned but documents not readable
३.	Gyan Construction	**1.1 Eligibility criteria** 1.1.3.Experience of having successfully completed similar works --- For 2 works Required- Amount- 2942.89 lakh per work Submitted- Not fulfilling criteria because the amount of work done shall be after 2020-21. C) 1) Batch Mix Plant – -- only sale agreement without SCADA enclosed. 2)Hydraulic Paver Finisher-only sale agreement without SCADA enclosed. 3) Mechanical truck- mounted or towed type bituminous pressure sprayer --- only sale agreement without SCADA enclosed. 4) Vibratory road roller ---only sale agreement without SCADA enclosed. 5)Static roller ---only sale agreement enclosed.

		6) Truck / Tripper --- Required- 06ownedWith SCADA Submitted-01 owned not fulfilling criteria. 7) Motor grader--- only sale agreement enclosed.
४.	M/s. B D Sorathia and Co.	**1.1 Eligibility criteria** 1.1.3.Experience of having successfully completed similar works --- For 3 works Required- Amount- 2354.31 lakh per work Submitted- Not fulfilling criteria because the amount of work done shall be after 2020-21. C) 1) Batch Mix Plant – -- Owned but SCADA not enclosed. 2)Hydraulic Paver Finisher- only Lease agreement enclosed. 3) Mechanical truck- mounted or towed type bituminous pressure sprayer ---Documents not submitted 4) Vibratory road roller --- Documents not clear 5)Static roller ---Documents not clear 6) Truck / Tripper --- Required- 06 owned With SCADA Submitted-06 owned SCADA not mentioned 7) Motor grader--- Not submitted. **1.3 Financial Turnover And Bid Capacity** **B) Bid Capacity** Not submitted **3.1.1 Technical bid ----.** v) Professional Tax Clearance certificate is not Submitted

उपरोक्त नुसार तांत्रिक तपासणी अहवालाचे अवलोकन केले असता, एकुण चार(०४) निविदा प्राप्त झालेल्या असुन एकाही निविदाधारकांचे दस्तऐवज परिपुर्ण नसल्याचे निदर्शनास येतआहे.

शासन निर्णय,क्रमांक: सीएसटी/२०१७/प्र.क्र.०८/इमा-२ दिनांक २७/०९/२०१८ मधील नियम ४.५.२ मधील तरतुदीनुसार निविदा उघडणाऱ्या सक्षम अधिकाऱ्यांनी (कार्यकारी अभियंता/अधीक्षक अभियंता/शहर

अभियंता) संबंधीत निविदाधारकास पात्र/अपात्र ठरविण्यापुर्वी त्यांचे बरोबर लिखित स्वरुपात पत्रव्यवहार करावा व कंत्राटदाराकडुन लिखित स्वरुपात स्पष्टीकरण घेऊन ते पडताळावे. किरकोळ व महत्व नसलेल्याअटीमुळे निविदाधारकास अपात्र करण्यात येऊ नये,अशा बाबतीत कंत्राटदारा कडुन लेखी स्पष्टीकरण घ्यावे व अटी नुसार दुरुस्त कागदपत्रे प्राप्त करुन निविदा समिती समोर ठेवुन त्याची छाननी करुन कंत्राटदाराच्या निविदा पात्रता/अपात्रते विषयी निर्णय घ्यावा. याबाबतचे सर्व अभिलेख धारिकेत व संकेतस्थळावर ठेवावे व निविदा स्विकृतीसाठी सादर करण्याच्या प्रस्तावात या सर्व पडताळणी पध्दतीचा स्पष्ट उल्लेख करावा.अशी तरतुदआहे.

विषयांकित कामाचे पात्रतेबाबत दिनांक ०१/११/२०२५ रोजी मा.आयुक्त सो. यांच्या समवेत झालेल्या चर्चेनुसार निकोप स्पर्धा होणेचे दृष्टीने प्रथमत: वर नमुद यादीतील किरकोळ कारणास्तव अपात्र ठरणा-या निविदाधारकांना प्रथमत: लेखी स्वरुपात पुर्तता करणे बाबत लेखी/संकेतस्थळावरुन कळविणे, व त्यानुसार अपुर्ण कागदपत्रांची पुर्तता करणेकामी निविदा धारकांना दिनांक ११/११/२०२५ पावेतोची मुदत देऊन त्यानंतर पुढील नियोमोचित कार्यवाही करावी, असे निविदा समितीने सुचित केले.

त्यानुसार सविस्तर चर्चेअंती तांत्रिक कागदपत्रांच्या छाननी अहवालानुसार वरिल कामासाठी पुरेशा प्रमाणात व स्पर्धात्मक दर प्राप्त होण्याच्या दृष्टीने सदर कामासाठी तांत्रिकदृष्टया अपुर्ण कागदपत्रांसाठी प्रथमत: मक्तेदार यांना लेखी पत्र देऊन /ऑनलाईन शॉर्टफॉल देऊन पुर्तता करणेची संधी देणेआवश्यकअसल्यामुळे विभागाने नियमानुसार कार्यवाही करणेच्या सुचना निविदा समितीने दिल्या.

उपरोक्त प्रमाणे बैठकित निर्णय होऊन बैठक संपल्याचे मा.अतिरिक्तआयुक्त-२ यांनी जाहीर केले.

मा.कार्यकारी अभियंता	मा.कार्यकारी अभियंता	मा.शहर अभियंता
मा.मुख्यलेखा व वित्तअधिकारी	मा.मुख्य लेखापरिक्षक	मा.अतिरिक्तआयुक्त -२

मा.आयुक्त तथा प्रशासक सो,

20

(३१)

नाशिक महानगरपालिका,नाशिक

सार्वजनिक बांधकाम विभाग,मुख्यालय

दिनांक १२/११/२०२५ रोजीच्या निविदा समितीच्या बैठकिचे इतिवृत्त

विषय - निविदा सुचना क्रमांक ०३ सन २०२५-२६ मधील अ.क्र.०१ चा आर्थिक देकार उघडणेबाबत..

संदर्भ - १.मा.आयुक्त सो,यांचेकडील आदेश जा.क्र./आस्विस/वशि/१५६/२०१६ दिनांक १०/१०/२०१६
२.शासन निर्णय क्रमांक:सीएसटी-/२०१७/प्र.क्र.०८/इमा-२ दिनांक २७/०९/२०१८
३.निविदा सुचना क्रमांक ०३ अ.क्र.१ सन २०२५-२०२६
४. कार्यकारी अभियंता, मध्यवर्ती निविदा कक्ष यांचा निविदा तपासणी अहवाल.
५. मा.अति.आयुक्त सो.(२) यांचा दालनात दि. ०१/११/२०२५ रोजीची निविदा समितीचे बैठकीचे इतिवृत्त
६. कार्यकारी अभियंता, मध्यवर्ती निविदा कक्ष यांचा अंतिम तपासणी अहवाल

नाशिक महानगरपालिका,सार्वजनिक बांधकाम विभागामार्फत करावयाच्या कामांची ई-निविदा सुचना क्रमांक ०३ (२०२५-२६) अन्वये अ.क्र.१ या कामांची वर्तमानपत्रात निविदा नोटीस www.mahatender.gov.in या संकेतस्थळावर प्रसिध्द करण्यात आली होती. सदर कामासाठी प्राप्त झालेल्या निविदांची तांत्रिक कागदपत्रांची पडताळणी कार्यकारी अभियंता, मध्यवर्ती निविदा कक्ष यांनी करुन संदर्भ क्र.०४ व ०६ अन्वये पडताळणी अहवाल सादर केला आहे. संदर्भ क्र.०४ चा पडताळणी अहवालनुसार एकुण **चार (०४)** निविदा प्राप्त झाल्याचे व त्यापैकी **चारही (०४)** मक्तेदाराकडुन पात्रता निकष पुर्ण केल्याचे त्यांचा पडताळणी तक्तावरुन दिसुन येत नाही. त्यावर निर्णयासाठी निविदा समितीची **दिनांक ०१/११/२०२५** रोजी बैठक पार पडली, त्यानुसार कागदपत्रांचा पुर्ततेसाठी शॉर्टफॉल देऊन पुर्तता करुन घेणेबाबत निर्णय घेणेत आला. सदर निर्णयानुसार **दिनांक ११/११/२०२५** रोजी पावेतो ऑनलाईन कागदपत्रे सादर करणेकामी निविदा कक्षाकडुन शॉर्टफॉल देण्यात आला.

संदर्भ क्र.०६ अन्वये निविदा कक्षाकडुन पुर्नपडताळणी अहवाल प्राप्त झाला आहे. त्यावर **चार (०४)** निविदा धारकांपैकी **चारही** (०४) निविदा धारकांनी शॉर्टफॉल संबंधीचे दस्त सादर केले आहेत.

वरील प्रमाणे सार्वजनिक बांधकाम विभागाकडील कामासाठी प्राप्त निविदांबाबत निर्णय घेणेसाठी दिनांक १२/११/२०२५ रोजी सकाळी ११.०० वाजता मा.अतिरिक्त आयुक्त (२) सो,यांचे दालनात निविदा समितीची बैठक संपन्न झाली सदर बैठकिस खालील सदस्य उपस्थित होते.

अ.क्र.	पदनाम	पद
१.	अतिरिक्त आयुक्त -२	अध्यक्ष
२.	शहर अभियंता	सदस्य सचिव
३.	मुख्य लेखा व वित्त अधिकारी	सदस्य
४.	मुख्य लेखापरिक्षक	सदस्य
५.	कार्यकारी अभियंता (बांधकाम)	सदस्य

सदर कामांसाठी प्राप्त निविदांच्या तांत्रिक कागदपत्रांची पडताळणी करुन विभागाने शिफारशीसह तांत्रिक कागदपत्रे तपासणी अहवालाचा तक्ता निविदा समिती समोर सादर केलेला आहे. त्याबाबतची पात्र/अपात्रतेबाबतची वस्तुस्थिती /निष्कर्ष खालीलप्रमाणे आहे.

निविदा सुचना क्रमांक ०३ अ.क्र.०१

अ.नं	कामाचे नाव	प्राकलन र.रु.	एकुण प्राप्त निविदा
०३/०१	गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/त्र्यंबकरोड जोडरस्ता) विकसीत करणे.	५६,८५,७८,४९७/-	०४

खालील नमुद केलेली कागदपत्रे तांत्रिक लिफाफयात सादर केलेली नसल्याचे निदर्शनास आलेले आहे.

अ.क्र.	मक्तेदाराचे नांव	मक्तेदार यांना शॉर्टफॉल दिलेले कागदपत्रे	शेरा
1.	Aakar Construction.	1.1 Eligibility criteria b)Satisfactorily executed following minimum --- 1)WBM+GSB+WMM Required- 7718.99cu.m. Submitted- Single year executed quantities not submitted and share of bidder is not clear. 2) BM 30% Qty. of Schedule 'B' Required- 1362.37cu.m. Submitted- 977.62cu.mand share of bidder is not clear.	निविदाधारक यांनी शॉर्टफॉल अंती सर्व कागदपत्रे सादर केलेले आहे **पात्र**

(33)

2.	B R Goyal Infrastructure	1.1 Eligibility criteria 1.1.3.Experience of having successfully completed similar works --- Amount- 47.08 Cr Submitted- Similar work not completed not making PQ criteria b)Satisfactorily executed minimum quantities --- 1) WBM+GSB+WMM Required – 7718.99 cu.m. Submitted- Single year executed quantities not submitted 2) BM 30% Qty. of Schedule 'B' Required- 1362.37 Submitted- Not submitted C) 1) Batch Mix Plant – Required- 01 owned Submitted – 01 owned but Bills are not readableand Without SCADA 2)Hydraulic Paver Finisher- Required- 01 owned Submitted – 01 ownedbut Without SCADA 3) Mechanical truck- mounted or towed type bituminous pressure sprayer- Required- 01 owned Submitted – 01 ownedWithout SCADA 4) Vibratory road roller --- Required- 02 owned with SCADA Documents not readable 5)Static roller ---Not submitted 6) Truck / Tipper --- Required- 06 ownedWith SCADA Submitted-11 owned Without SCADA 7) Motor grader--- Required- 01 owned Submitted-03 owned but documents not readable	निविदाधारक यांनी शॉर्टफॉल अंती कागदपत्रे सादर केलेले आहेत. परंतु निविदा अटीशर्तीनुसार विहीत नमुन्यात Quantities Certificate सादर केलेले नाही. **अपात्र**

3.	Gyan Construction	1.1 Eligibility criteria 1.1.3.Experience of having successfully completed similar works --- For 2 works Required- Amount- 2942.89 lakh per work Submitted- Not fulfilling criteria because the amount of work done shall be after 2020-21. C) 1) Batch Mix Plant – -- only sale agreement without SCADA enclosed. 2)Hydraulic Paver Finisher-only sale agreement without SCADA enclosed. 3) Mechanical truck- mounted or towed type bituminous pressure sprayer --- only sale agreement without SCADA enclosed. 4) Vibratory road roller ---only sale agreement without SCADA enclosed. 5)Static roller ---only sale agreement enclosed. 6) Truck / Tripper --- Required- 06ownedWith SCADA Submitted-01 owned not fulfilling criteria. 7) Motor grader--- only sale agreement enclosed.	निविदाधारक यांनी शॉर्टफॉल अंती कागदपत्रे सादर केलेले आहेत. परंतु निविदा अटीशर्तीनुसार बॅच मिक्स प्लांन्ट व इतर मशिनरी बाबत स्वमालकिचे कागदपत्र सादर केलेले नाही. **अपात्र**
4.	M/s. B D Sorathia and Co.	1.1 Eligibility criteria 1.1.3.Experience of having successfully completed similar works --- For 3 works Required- Amount- 2354.31 lakh per work Submitted- Not fulfilling criteria because the amount of work done shall be after 2020-21. C) 1) Batch Mix Plant – -- Owned but SCADA not enclosed. 2)Hydraulic Paver Finisher- only Lease agreement enclosed. 3) Mechanical truck- mounted or towed type bituminous pressure sprayer --- Documents not submitted 4) Vibratory road roller --- Documents not clear 5)Static roller ---Documents not clear 6) Truck / Tripper --- Required- 06 owned With SCADA Submitted-06 owned SCADA not mentioned	निविदाधारक यांनी शॉर्टफॉल अंती सर्व कागदपत्रे सादर केलेले आहे **पात्र**

		7) Motor grader--- Not submitted. 1.3 Financial Turnover And Bid Capacity B) Bid Capacity Not submitted 3.1.1 Technical bid - v) Professional Tax Clearance certificate is not Submitted	

उपरोक्त नुसार तांत्रिक तपासणी अहवालाचे अवलोकन केले असता, एकुण चार (०४) निविदा प्राप्त असुन त्यापैकी दोन (०२) निविदाधारकांचे दस्तऐवज पुर्ण असल्याचे निदर्शनास येत आहे.

कार्यकारी अभियंता, मध्यवर्ती निविदा कक्ष यांनी केलेल्या तांत्रिक कागदपत्रांचा छाननी अहवाल व शिफारशीची पडताळणी केली असुन सविस्तर चर्चेअंती तांत्रिक कागदपत्रांच्या छाननी अहवाला नुसार वरिल कामांसाठी तांत्रिकदृष्टया पात्र ठरलेल्या निविदांसंदर्भात नियमानुसार पुढील कार्यवाही करणेस निविदा समिती शिफारस करित आहे.

उपरोक्त प्रमाणे बैठकित निर्णय होऊन बैठक संपल्याचे मा.अतिरिक्त आयुक्त (२) यांनी जाहीर केले.

मा.कार्यकारी अभियंता

मा.कार्यकारी अभियंता

मा.शहर अभियंता

मा.मुख्यलेखा व वित्तअधिकारी

मा.मुख्य लेखापरिक्षक

मा.अतिरिक्तआयुक्त -२

मा.आयुक्त तथा प्रशासक सो,

दि. २३/०१ /२०२६

विषय-गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/त्र्यंबकरोड जोडरस्ता) कामाबाबत.

संदर्भ-१) कुंभमेळा प्राधिकरण यांचेकडील प्रशासकीय मान्यता दि.१४/९/२०२५, २२/९/२०२५ .
२) निविदा सुचना क्र.०३/०१/२०२५.
३) सार्व.बांधकाम विभाग, मनपाचे निविदा स्विकृती व अतिरिक्त सुरक्षा अनामत भरणे पत्र दि.१३/११/२०२५.
४) कामाचा कार्यारंभ आदेश जा.क्र.साबांवि/डेस्क-८/१६ दि.१२/१२/२०२५.

नाशिक -त्र्यंबकेश्वर येथे सन २०२७ मध्ये होणारा सिंहस्थ कुंभमेळा कालावधीतील वाहतुक नियोजन, वाहतुक व्यवस्था सुधारणे आदी दृष्टीकोनातून संदर्भ क्र.१ अन्वये विषयाधीन रस्त्याच्या कामाच्या प्रस्तावास कुंभमेळा प्राधिकरणामार्फत प्रशासकीय मान्यता मिळाली आहे. त्यास अनुसरून र.रु.५६,८५,७८,४९७/- रक्कमेच्या कामाची ई-निविदा सुचना क्र.०३/०१ (२०२५-२६) दिनांक २१/९/२०२५ अन्वये प्रसिध्द करण्यात आली. सदर कामाच्या निविदेमध्ये पात्रता निकषामध्ये मक्तेदाराच्या मालकीच्या प्लांट संबंधाने खालीलप्रमाणे अट नमुद करण्यात आली होती.

Considering the upcoming Kumbhmela in Nashik, the balance period for completion of work and considering the importance and emergency nature of work -

At the time of bidding the tenderer/bidder must have his owned, Asphalt Batch mix Stationary /mobile Plant having minimum Capacity of 80TPH with SCADA, operational anywhere in India, is eligible for bidding.

After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA. The tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for.

After issuance of LOA it is also compulsory for the tenderer/Bidder to submit, scanned original copy of Plant Verification certificate meeting the required capacity and standards valid for one year certified by Assistant Chief Engineer (Mechanical) P.W.D. Region Nashik for Batch Mix Plant, within 45 days after issue of LOA.

In the event of failure to produce either the Distance Certificate or the Plant Verification Certificate within the stipulated time, the Earnest Money Deposit (EMD) shall be forfeited and appropriate action shall be taken by the Competent Authority. The work shall thereafter be offered to the subsequent eligible bidders (L2, L3, L4, etc.) in order of their ranking, subject to their willingness to execute the work at the rates quoted by the L1 bidder. In the event that none of the subsequent bidders agree to match the L1 bidder's rates, the tender shall be recalled.

सदर कामाच्या निविदा सुचनेत नमुद केल्यानुसार ऑनलाईन निविदा पुर्व बैठक आयोजित करण्यात आली होती. त्यावेळी सहभागी विविध मक्तेदारांनी केलेल्या मागणीनुसार मक्तेदाराच्या मालकीच्या प्लांटच्या अटी संबंधाने खालील प्रमाणे बदल करण्यात आला आहे.

Asphalt Batch Mix Plant- After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 50 days from the date of LOA. The tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal by Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for.

निविदा सादर करावयाच्या विहीत कालावधीत प्राप्त निविदांमधून मे.बी.डी.सोराथीया यांची सर्वात कमी दराची निविदा असल्यामुळे त्यास अनुसरून मक्तेदार यांना निविदा स्विकृत पत्र दि.१३/११/२०२५ रोजी देण्यात आली आहे. मा.स्थायी समिती ठराव क्र.४५४ दि.१२/१२/२०२५ अन्वये झालेल्या मंजुरीस अनुसरून सदर कामासाठी मक्तेदार यांना क्र.१६ दि.१२/१२/२०२५ अन्वये कार्यारंभ आदेश देण्यात आला आहे.

विषयाधीन कामाच्या संद्यस्थिती संबंधीचा अहवाल खालील प्रमाणे आहे.-

१) तांत्रिक मनुष्यबळ नियुक्तीचा अहवाल अद्याप प्राप्त नाही.
२) कामाचा बार चार्ट , प्लॅनिंग संबंधीची माहिती अद्याप प्राप्त नाही.
३) साईट ऑफिस अद्याप तयार झालेले नाही.
४) Field Laboratory Laboratory instrument अद्याप झालेले नाही.
५) Material Source approval, Mix Design , Job mix आदींचा अहवाल अद्याप प्राप्त नाही.

याशिवाय सर्वात महत्वाचे म्हणजे निविदेतील अट व शुध्दीपत्रकात नमुद नुसार ५० दिवसांचे आत मक्तेदाराचा Plant सुरु होऊन Distance Certificate प्राप्त झालेले नाही. यास अनुसरून दिनांक २२/१/२०२५ रोजी मक्तेदास लेखी नोटीस बजावण्यात आली होती. त्यावर दिनांक २३/१/२०२५ रोजी लेखी पत्र देऊन मक्तेदार यांनी Plant च्या Distance Certificate ची मुदत LoA पासून ५० दिवस ऐवजी कार्यारंभ आदेश दिनांकापासून ५० दिवस अशी ठेवण्याची विनंती केली आहे, आदेशार्थ सादर.

आयुक्त कार्यालय म.न.पा. नाशिक
20
दि. 26/1/26
26/1/26

कार्यकारी अभियंता

मा. शहर अभियंता यांचे सूचनेनुसार

निविदा अटी शर्तीचे उल्लंघन झाले आहे. निविदेतील तरतुदीनुसार L2 यांना काम देण्याबाबत कार्यवाही अपेक्षित आहे. तसेच उपरोक्त नमूद अनावश्यक विलंब टाळण्यासाठी निर्णय व्हावा. सादर.

मा. शहर अभियंता यांचे.

आयुक्त कार्यालय नाशिक महानगरपालिका, नाशिक
दिनांक :- 29/01/2026

C:c2/SGS/ सोराटिया रिपोर्ट सिद्धस्थ काम.२३-१-२०२६

मान्य करावे असमान्य नाही.

EE

मा. आयुक्त

विभाजक

नाशिक महानगरपालिका

नाशिक महानगरपालिका, नाशिक

अनुक्रमणिका

अ.क्र.	विषय	पान क्रमांक

Nashik Municipal Corporation, Nashik
Satpur Division
Public Works Department

Fund Head –

Estimate Prepared By :- Shri. D.S. Kolhe, Shri.S.A.Gavit

Deputy Engineer :- Shri. V.M. Gangurde

Executive Engineer :- Shri. Sandesh Sinde

Name of Work :- Development of road from Gangapur Road,Bardan Phata to Sula Chowk(linking outer parking to internal parking/Trimbak road link road)
Part 'A' Civil Work
Estimate Rs. 50,94,13,162/-

Note- The Estimate is Prepared on the basis of approved rates for year 2022-23
Cement Basic Rate – / MT

Sect. Engineer	Deputy Engineer	Executive Engineer
Nashik Municipal Corporation	Nashik Municipal Corporation	Nashik Municipal Corporation

Technical Sanction

DE/ ~~Ass/Sect./Jr.~~Engineer
HO PWD

Deputy Engineer
HO PWD

Technically Sanction For Rs.- 50,94,13,162/-
In Words – fifty Crore Ninety four lakh thirteen thousand one hundred sixty two only.

Vide No. NMC/PWD/ TS/ 10 /2025 Date 16/09/2025

APPROVED

City Engineer
Nashik Municipal Corporation

Index Divisio

Nashik Municipal Corporation, Nashik.

Public Works Department

Facesheet

Name of Work:- Development of road from ,Bardan phata to Sula Chowk (linking outer parking to internal parking/ Trimbak Road link road)

Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
1		Total Civil Cost		126084.27	509,413,162.25	4,040.26	Sq.m
2		Road Electrical Work			59,165,335.00		
		Total cost of Project		**126084.27**	**568,578,497.25**	**4,509.51**	**Sq.m**
		Total cost of Project in Cr.			**56.86**		

CIVIL TECH INDIA PVT LTD

Nashik Municipal Corporation, Nashik.

Public Works Department

Facesheet

Name of Work:- Development of road from ,Bardan phata to Sula Chowk (linking outer parking to internal parking/ Trimbak Road link road)

Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
1	A	Dismantling			611,945.77		
2	B	Strom Water / Service line / Utility Duct			33,988,343.86		
3	C	Road Work (Construction of Bituminious or Concrete Road Items)			323,668,716.71		
4	D	Miscellaneous Items for Reparing Work			3,346,133.52		
5	E	Road Furniture			10,056,731.41		
6	F	Providing Public Utilities			552,085.80		
7	G	Water Supply			2,152,825.02		
8	H	Structure- (Ajjuda Dhaba=21975834 + Carbon Naka=1624027 + Mahindra Company=2302890 + Sadhana Misal=25483819)			51,386,570.00		
		Civil Work Total Cost		**126084.27**	**425,763,352.08**	**3,376.82**	**Sq.m**
		GST 18%	18%		76,637,403.38		
		Total Cost with GST		**126084.27**	**502,400,755.46**	**3,984.64**	**Sq.m**
		Royalty for Roads			1,315,058.24		
		Royalty for Structures (Ajjuda Dhaba=90360 + Carbon Naka=8755 + Mahindra Company=11349 + Sadhana Misal=90471)			200,935.00		
		Structure- Design checking & Scrutiny Fe	1.5%		770,798.55		
		Quality Control Testing Charges for Road Works			4,258,965.00		
		Quality Control Testing Charges for Structures(171310+60585+63600+71155)			466,650.00		
		Total Civil Cost		**126084.27**	**509,413,162.25**	**4,040.26**	**Sq.m**
		Total cost of Project in Cr.			**50.94**		

DPR Consultant

Authorized Signitory
CivilTech India Pvt, Ltd.

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik

NASHIK MUNICIPAL
CORPORATION



ABSTRACT
SHEET

CIVIL TECH INDIA PVT. LTD.

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD.

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

No	SSR No.	Description	Qty	Rate	Per	Amount
A	Dismantling					
1	1.15	Detailed survey of road in plain country including chaining and levelling with cross sections at every two chains inclusive of closing of survey each day.	5.66	6830.30	Km	38668.38
2	3.1	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately. By Mechanical Means etc. complete.	1000.00	451.50	Cum	451500.00
3	3.11	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately etc. complete.	50.00	1454.30	Cum	72715.00
4	7.25	Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 metres and stacking the serviceable and unserviceable material separately	5.00	389.60	No	1948.00
5	46.09	Dismantling brick masonry in lime or cement mortar and stacking the materils as directed with all leads, lifts etc.	2.07	351.80	Cum	728.23
6	46.11	Dismantling stone masonry in lime or cement mortar including stacking the materils as directed with all leads, lifts etc.	3.29	399.00	Cum	1310.72
7	46.12	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc, complete	10.50	585.90	Cum	6151.95
8	46.13	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete	15.00	976.50	Cum	14647.50
9	46.19	Removing cement tiles, or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts etc. complete	10.00	47.30	Sqm	473.00
10	46.25	Removing wire fencing with iron/ C.C. fencing post and stacking the materials as directed with all leads, lifts etc. complete.	10.00	70.30	Rmt	703.00
11	51.134	Milling of existing bituminous surface to specified depth of bituminous layer including disposal of removed material with all lift and lead upto 1000 m etc complete. Using machine like Writgen (W100) or equivalent	500.00	46.20	Sqm	23100.00
		A Dismantling		**Total Rs**		**611945.77**
B	**Strom Water / Service line / Utility Duct**					

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
12	MJP-1 a	Carrying out detailed/final location survey for drainage schemes with chain and compass, levels, theodolite and other essential instruments including staking of final center line, locating curves, establishing B.M. and taking L section, cross section, fly leveling etc. complete in plain area. Spec. No. : As directed by Engineer in charge	5661.30	2.00	Rmt	11322.60
13	MJP-8	Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres and lifts as below, stacking and spreading as directed, manual dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. (MJP,DSR 2023-24, Section-E-1,4,)				
	a)	Lift upto 0.0 to 1.50 m depth	2505.27	181.50	Cum	454707.05
	b)	Lift upto 1.50 to 3.0 m depth	796.05	198.00	Cum	157617.90
14	MJP-10	Excavation for foundation / pipe trenches in hard murum and boulders, W.B.M. road including removing the excavated material upto a distance of 50 M beyond the area and lifts as below, stacking and spreading as directed by Engineer-in-charge, normal dewatreing, preparing the bed for foundation and excluding backfilling, etc. complete. (MJP,DSR 2023-24, Section-E-3,4,)				
	a)	Lift upto 0.0 to 1.50 m depth	1970.80	232.10	Cum	457421.75
	b)	Lift upto 1.50 to 3.0 m depth	544.43	248.60	Cum	135344.06
15	MJP-11	Excavation for foundation / pipe trenches in soft rock and old cement and lime masonry foundation asphalt road including removing the excavated material upto a distance of 50 M beyond area and lifts as below, stacking as directed by Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. (MJP,DSR 2023-24, Section-E-5,9,)				
	a	Lift upto 0.0 to 1.50 m depth	1215.27	691.90	Cum	840847.39
	b	Lift upto 1.50 to 3.0 m depth	544.43	722.70	Cum	393455.95
	c	Lift up to 3.0 to 4.5 m depth	0.00	753.50	Cum	0.00
16	MJP-12	Excavation for foundation / pipe trenches in hard rock and concrete road by chiselling, wedging, line drilling, by mechanical means or by all means other than blasting including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the area and lifts as below, stacking as directed by Engineer-in-charge, normal dewatering, excluding backfilling, etc. complete by all means. (MJP,DSR 2023-24, Section-E-7,9)				
	a	Lift upto 0.0 to 1.50 m depth	711.59	1230.90	Cum	875897.36
	b	Lift upto 1.50 to 3.0 m depth	388.88	1261.70	Cum	490643.59
	c	Lift up to 3.0 to 4.5 m depth	210.45	1292.50	Cum	272006.63
17	MJP-14a	Filling in plinth and floors murum bedding in trenches with approved murum from excavated materials from foundation 15cm to 20cm layers including watering and compaction complete.(MJP.DSR 2023-24. Section-E-16)	619.17	96.60	Cum	59812.13

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD.

No	SSR No.	Description	Qty	Rate	Per	Amount
18	MJP-19 B&C	Providing, Lowering & Laying ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for either collar/ spigot & socket joints or rubber ring joints, including all cost of rubber ring joints, excluding GST levied by GOI & GOM in all respect including inspection charges, transport to departmental stores, unloading and stacking etc. complete as per IS-458/1988, lowering & Laying and giving satisfactory Hydraulic testing of the laid pipe line and jointing in proper grade and alignment R.C.C. pipes with collar joints in C.M.1:1 proportion or socketed R.C.C. pipes with rubber joints (excluding cost of rubber ring or R.C.C. collar,) including cost of conveyance from stores to site of work, cost of jointing material, labour, etc. complete as directed by Engineerin- charge (For all class of pipes.) as per IS- 783- 1985. as specified and directed by Engineer in charge etc. complete. (MJP, DSR 2023-24, Sec.-I(VI)RCC Pipes,1d,e,f,2)Page No. 94,95,96				
	b	R.C.C.NP-III Class (MJP, SSR 2023-24,Sec-I-(VI)-1-e,)				
		i) for 150 mm dia	100.00	509.80	Rmt	50980.00
		ii)for 200 mm dia	50.00	581.10	Rmt	29055.00
		iii) for 250 mm dia	50.00	788.60	Rmt	39430.00
		iv)for 300 mm dia	3882.82	1078.00	Rmt	4185679.96
		vii) for 450 mm dia	6038.00	2005.60	Rmt	12109812.80
		ix) for 600 mm dia	1140.00	2886.20	Rmt	3290268.00
	c	R.C.C.NP-IV Class (MJP, SSR 2023-24,Sec-I-(VI)-1-e,)				
		xii) for 900 mm dia	10.00	5323.00	Rmt	53230.00
		xiii) for 1000 mm dia	10.00	5875.30	Rmt	58753.00
		xiv)for 1200 mm dia	10.00	11138.30	Rmt	111383.00
19	MJP-21 A1	Providing and constructing on sewer,Fly Ash Brick masonry circular manhole concentric cone 0.9 M dia. at bottom and 0.5 M dia. at top and upto a depth of 1.00 M, with 15cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 1.0 M with 0.23m. thk. BM in CM 1:6 proportion with 12 mm thick inside & 20 mm thick on outer- side plaster with fine cement smooth finish in CM 1:4, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered), 15cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.As per Rate Analysis.(For both side plaster Use natural sand & For other work VSI(Vertical Shaft Impact) sand finely washed etc.)	55.00	17055.30	No	938041.50
20	MJP-21 B1	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 1.2 M dia. at bottom and 0.5 M dia. at top and upto a depth of 2.00 M with 25 cm thick CC 1:2:4 bed concrete. Fly Ash Brick masonry in Conical shape for 2.00 M with 0.23 M thick in CM 1:4 proportion excluding excavation with 12 mm thick on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:3. providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered)..15cm thk C.C.1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in- charge.(MJP. SSR 2023-24. SEC-I(XX)-6.) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	28.00	30138.60	No	843880.80

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
21	MJP-21 C1	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 1.5 M dia. at bottom and 0.5 M dia. at top and upto a depth of 5.0 M with 25 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 2.0M with 0.23m thk & 3.0 M depth of Vertical Cylinder with 0.35 M thick Fly Ash Brick masonry in CM 1:4 proportion with 20 mm thick on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:2, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered),,15cm thk 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.(MJP, SSR 2023-24, SEC-I(XX)-7,)(Use VSI(Vertical Shaft Impact) sand finely washed etc.)	6.00	82847.30	No	497083.80
22	MJP-21 F1	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole with concentric cone 1.80 M dia. at bottom and 0.5 M dia. at top and upto a depth of 9.0 M with 25 cm thick CC 1:2:4 bed concrete,& Fly Ash Brick masonry with 23 cm brick work in conical shape upto depth of 2.50 M from top and balance in cylindrical shape 35 cm thick brick work for depth of 2.35 M depth upto 5.0 M, with M:20 Concrete for RCC Beam size of 350x150mm thk.with reinfocement steel 3nos. Tor 10 @ Bottom & 3Nos. Tor 8 @ top, stirrups Tor 8@150c/c, rest on the top of 350mm thk. brick work, and 45 cm thick brick work 3.85m.for remaining depth upto 9.00 M with M:20 Concrete for RCC Beam size of 450x150mm thk.with reinfocement steel 3nos. Tor 10 @ Bottom & 3Nos. Tor 8 @ top, stirrups Tor 8@150c/c, rest on the top of 450mm thk. brick work, in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:3 proportion excluding excavation, including foundation concrete 250 mm thick and haunches and channels in c.c.1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical. (Staggered), 15cm thk 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.As per Rate Analysis.(Use VSI(Vertical Shaft Impact) sand finely washed etc.)	8.00	273164.60	No	2185316.80
23	MJP-21 S1	Providing and constructing on sewer, Fly Ash Brick masonry manhole Rectangle of size 600 x 450 mm and upto a depth of 900 mm with 15 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry & with 23 cm brick work in CM 1:6proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, 15 cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 600 x 450 mm etc. complete as directed by Engineer-in-charge. (MJP, SSR 2023-24.Sec-I(XX)-3-A.) (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	14.00	10326.40	No	144569.60
24	MJP-21 T1	Providing and constructing on sewer, Fly Ash Brick masonry manhole Rectangle of size 600 x 900 mm and upto a depth of 900 mm with 15 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry & with 23 cm brick work in CM 1:6.proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3. 15 cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 600 x 900 mm etc. complete as directed by Engineer-in-charge.As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	152.00	16803.50	No	2554132.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD.

No	SSR No.	Description	Qty	Rate	Per	Amount
25	MJP-22 a1	Constructing additional depth/ Rebate for Manhole of 900mm Dia. & above/below 1000 mm. depth to cover variations with 230mm.thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered) As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	5.00	12238.90	Rmt	61194.50
26	MJP-22 b 1	Constructing additional depth or Manhole of 1200mm Dia. & above / Rebate 2000 mm. depth with 230mm.thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered), (MJP, SSR 2023-24, Sec-I(XX)-6-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	2.50	7549.90	Rmt	18874.75
27	MJP-22 c 1	Constructing additional / Rebate depth for Manhole of 1500mm Dia. & below 5000 mm. depth with 350mm.thick Fly Ash Brick masonry work in CM 1:6,proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered), (MJP, SSR 2023-24, Sec- I(XX)-7-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	2.50	16411.90	Rmt	41029.75
28	MJP-22 f 1	Constructing additional / Rebate depth for Manhole of 1800mm Dia. & below 9000 mm. depth with 450mm.thick Fly Ash Brick masonry work up to 2.50m in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered),As per Rate Analysis. (For both side plaster Use natural sand & For other work VSI sand finely washed etc.)	2.00	35216.60	Rmt	70433.20
29	MJP-22 s 1	Constructing additional depth or Manhole of 450x600x900 above 900 mm. depth with 230mm. Fly Ash Brick masonry work.in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3. (MJP, SSR 2023-24, Sec-I(XX)-3-A-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	4.00	5208.70	Rmt	20834.80
30	MJP-22 t 1	Constructing additional depth or Manhole of 900x600x900 above 900 mm. depth with 230mm. Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	56.25	13415.60	Rmt	754627.50
31	MJP-37	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation. surcharging. etc. complete. (MJP. SSR 2023-24. Sec-E-15)	6665.37	96.60	Cum	643874.60
32	MJP-32	Providing and fixing in position steel fiber reinforced concrete (S.F.R.C.) frame and covers of approved make including loading. unloading. transportation. all taxes. etc. complete as directed by Engineer-in-charge (20 tones capacity)				
		(MJP. SSR 2023-24. Sec-I(XX)-17.)				
		i) 540 Dia.	10.00	3665.60	No	36656.00
		ii) 560 Dia.	170.00	4797.50	No	815575.00
		iii) 90x45 cm	5.00	3665.60	No	18328.00
		iv) 90x60 cm	12.00	3973.20	No	47678.40
		v) 60 x 60 cm	5.00	3628.80	No	18144.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
-		vi) 60 x 45 cm	5.00	3144.80	No	15724.00
33	MJP-34	Cleaning or Desilting B.B.M. of various dia chamber on sewer including removing matarial upto a distance of 50.0M for all lifts as directed by Engineer-in-charge.etc. complete	13.50	234.20	Cum	3161.70
34	MJP-35	Cleaning the R.C.C. choked up pipes of diameter from 200 mm to 450 mm including removing matarial upto adistance of 50.0M for all lifts as directed by Engineer-in-charge.	200.00	54.50	Rmt	10900.00
35	MJP-36	Cleaning the R.C.C. choked up pipes by using bucket machine and rodding machine including removing matarial upto adistance of 50.0M for all lifts in different places during cleaning operation all labour and safety precaution should be taken by maintainance contractor himself (i.e. suitable gas masks, gas detection driving prompt etc.) during cleaning operation in any damages done by the contractor shall be repaired by the contractor with his own cost. To clean the existing drain line bucket and rodding machine will not be given by department & if machinary provided by department charges will recovered from bill. Diversion of sewerage water any necessary excavation if necessary should be done by the contractor at his cost during the work necessary action for cleaning line traffic permission and proper precautions should be taken by contractorafter completion of a cleaning operation by contractor has to test the line in precence of enginreer- in- charge. (As per Rate Analysis)				
	a)	For 200mm to 600mm dia RCC drain line	500.00	158.70	Rmt	79350.00
	b)	For above 600mm to 1000mm dia RCC drain line	250.00	238.10	Rmt	59525.00
	c)	For above 1000mm dia RCC drain line	100.00	317.40	Rmt	31740.00
	B	**Strom Water / Service line**		**Total Rs**		**33988343.86**
C	**Road Work (Construction of Bituminious or Concrete Road Items)**					
36	2.11	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.	52101.24	125.00	Cum	6512654.81
37	2.13	Excavation for roadway in hard murum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m.and spreading for embankment or stacking as directed	11658.21	145.90	Cum	1700933.28
38	2.14	Excavation for roadway in soft rock, including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. And spreading or stacking as directed.	1042.02	185.80	Cum	193608.20
39	2.16	Excavation for roadway in hard rock by wedging and chiselling or line drilling including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.	521.01	1490.00	Cum	776308.45
40	2.18	Excavation for catch / side water gutter in all sorts of soils to the specified section including stacking the excavated stuff in a regular bund and disposing of unsuitable or excess stuff as directed all sorts of soils.	5.00	125.00	Cum	625.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
41	C-483	Conveying materials obtained from road cutting upto lead of 5 .00 km including all lifts, laying in layers, breaking clods, dressing to the required lines, curves, grades and section from the site of excava-tion to the site of deposition as directed .	61825.02	264.80	Cum	16371266.56
42	2.27	Providing Earth work in embankment with approved material ob-tained from Govt. land with 50 m lead, by using laying in lay-ers, breaking clods, dressing to required lines curves grade, and section watering and compaction complete. (a) 95% proctor densi-ty. Spec.No. : M.O.S.T. 1995 Cl.No.305	20.00	236.30	Cum	4726.00
43	2.28	Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete (Material obtained from Other sources)	100.00	1263.20	Cum	126320.00
44	2.29a	Supplying hard murum/ kankar at the road site, including conveying and stacking complete. Sp. No. Rd. 23 P.No. 202	5829.11	925.10	Cum	5392506.42
45	2.3	Spreading hard murum for side width etc. complete	5829.11	83.00	Cum	483815.84
46	2.31	Compacting the hard murum side widths including laying in layers on each side with power roller including artificial watering etc. complete.	58291.07	22.10	Sqm	1288232.54
47	3.01	Construction of granular subbase by providing close graded Material,mixing in a mechanical mixplant at OMC,carriage of mixed Material to work site, spreading in uniform layers with motor grader/Paver on prepared surface and compacting with vibratory roller to achieve the desired density,complete as per clause 401 -- Plant Mix Method and Grading - I Material	11658.21	2740.50	Cum	31949332.73
48	3.18	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Intelligent Compactor with compaction analyzer and V-Sat attachment. to the required density. Grading I (Using Screening Type A (13.2) mm Aggregate)	3006.00	3059.60	Cum	9197157.60
49	3.2	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Intelligent Compactor with compaction analyzer and V-Sat attachment. to the required density. Grading II (Using Screening Type B (11.2 mm) Aggregate)	1503.00	3005.60	Cum	4517416.80
50	3.23	Wet Mix Macadam -- Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Laying By Grader/Paver.	9562.77	2765.50	Cum	26445830.06

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD.

No	SSR No.	Description	Qty	Rate	Per	Amount
51	14.58	Providing and layingin PCC M15 grade leveling course below approach slab complete With fully automatic microprocessor PLC with SCADA enabled reversible drum type mixer/concrete batch mix plant (panmixer) asper drawingsand Technical specifications etc. complete with fine agreegates of required specifications (VSI sand finely washed etc)	5.00	6924.80	Cum	34624.00
52	5.13	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, , cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant/ Weigh batch mixer, transported to site with all leads and lifts, laid with a paver with electronic sensor /by suitable means as approved by Engineer-in-charge , compacting with vibratory roller, finishing, curing and including preparation of sub-grade surface if required etc. complete. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	15.00	4492.00	Cum	67380.00
53	25.5	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneissmetal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/ pumping, compaction and roughening the surface if special finish is to be provided and curing etc.complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc. complete.Withfine aggregate (Crushed sand VSI Grade)	5.00	13505.60	Cum	67528.00
54	26.33	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	0.10	94188.10	MT	9418.81
55	5.19	Providing and laying 125 micron Low Density Polyethylene (LDPE) sheet confirming to IS 3395 : 1997 below concrete pavement including all materials and labour complete.	100.00	31.50	Sqm	3150.00
56	5.06	Providing and laying in-situ M40 Grade un-reinforced plain cement concrete pavement over a prepared sub base with 43 grade cement , coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre. admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	30.00	8974.80	Cum	269244.00
57	5.14	Providing and fixing in position TMT FE 500, 32 mm dia dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm. C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint as directed etc. complete	10.00	564.90	No	5649.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
58	5.15	Providing and fixing in position TMT FE 500, 25 mm dia dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm. C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint as directed etc. complete	10.00	413.70	No	4137.00
59	5.17	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm. .in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. as directed by Engineer incharge.	20.00	79.80	Rmt	1596.00
60	5.18	Providing to contraction joints polysuphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (appraox. 25% larger than the initial 3 mOne Metric Tonneo 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer. (A) Contraction and longitudinal joints (15 mm. deep x 8 mm.wide)	20.00	326.60	Rmt	6532.00
61	14.33	Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete.	10.00	1140.30	Sqm	11403.00
62	7.03	Providing and casting insitu or precast tapering R.C.C.M-20 Mountable type Kerb without gutter (asper IRC861983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff anywhere incity and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	5.00	516.60	Rmt	2583.00
63	R.A.	P/L and fixing precast Cement concrete M-20 grade kerb stone of following sizes grade concrete including manufacturing, supplying to the site, fixing in position, with prepared bed of,packing by surrounding pcc upto 100 mm ht with M-10 PCC 80mm thick, filling joints with cement, coloring with one coat primer & flat oil paint in two coats as per directed by engineer in charge etc complete (As per R.A.)				
	a	Size- Length 300 mm, Height 750mm, Top Width 125 mm, Bottom width 200 mm, Chamfer Height 300 mm	5010.00	1618.50	Rmt	8108685.00
	b	Size- Length 400 mm, Height 450mm. Width 125mm, Chamfer Height 450 mm	100.00	788.00	Rmt	78800.00
64	33.51	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 60 mm thickness of having a strength of 300 Kilogram/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete	20.00	978.60	Sqm	19572.00
65	33.52	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 mm thickness of having a strength of 300 Kilogram/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete	50.00	1238.00	Sqm	61900.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD.

No	SSR No.	Description	Qty	Rate	Per	Amount
66	3.35	Providing and laying 75mm thick compacted Modified Pentration Macadam with VG-30 bitumen over existing WBM surface including picking the road metalled surface, thoroughly cleaning the WBM surface by using mechanical broom or approved equipment, spreading 40mm size metal (30% Crushed metal +70% Hand broken) by brining blasted rubble on site of work) at the rate of 0.09Cum/Sqm Compacting metal with roller and bitumen is them spread at rate of 2kg/ sqm. Spreading 12mm metal at rate of 0.018 Cum,/Sqm The surface shall be lightly rolled so that metal pieces ge embeded in the bitumen layer and rolling shall continre until entire surface is throughly compacted etc. complete. (With Vibratory Roller including diversion road) Spec. No. As directed bty Engineer- in - charge.	100.00	362.60	Sqm	36260.00
67	3.36	Providing and laying 75mm thick compacted Modified Pentration Macadam with VG-30 bitumen over existing BT surface including picking the road metalled surface, thoroughly cleaning the BT surface by using mechanical broom or approved equipment, spreading 40mm size metal (30% Crushed metal +70% Hand broken) by brining blasted rubble on site of work) at the rate of 0.09Cum/Sqm Compacting metal with roller and bitumen is them spread at rate of 2kg/ sqm. Spreading 12mm metal at rate of 0.018 Cum,/Sqm The surface shall be lightly rolled so that metal pieces ge embeded in the bitumen layer and rolling shall continre until entire surface is throughly compacted etc. complete. (With Vibratory Roller including diversion road) Spec. No. As directed bty Engineer- in - charge.	100.00	361.20	Sqm	36120.00
68		Providing and applying tack coat on the prepared surface heating by fames in Boiler and spraying bitumen set footed in bitumen boller on B.T. surface 5 kg/10 sqm. (VG 30 bulk bitumen rates are considered to arrive at rates) Spec.Rd.47.3.3 Page No. 224	378252.81	33.60	Sqm	12709294.42
69	3.29	Prime coat - Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including cleaning of road surface and spraying, primer at the rate of 10.0 kg/sqm using mechanical means.	38251.07	60.80	Sqm	2325664.75
70	3.4	BITUMINOUS MACADAM 3.00 % : Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 3.00 % using specified grade of Bitumen. -- USING batch Mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG30 bulk bitumen rates are considered to arrive at rates)	22.00	8496.20	Cum	186916.40
71	3.41	BITUMINOUS MACADAM 3.50 %: Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 3.50 % VG-30 Bitumen. - USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V- Sat attachment.	4519.22	9095.60	Cum	41105033.01

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
72	3.44	DENSE BITUMINOUS MACADAM 4.50%: Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 4.50 % VG-30 Bitumen. - USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V- Sat attachment.	7565.06	11105.50	Cum	84013731.63
73	3.49	BITUMINOUS CONCRETE 6.25 %:- Providing and laying bituminous concrete using crushed aggregates of grading 2, premixed with bituminous binder @ 6.25 per cent by weight of total mix and filler, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for30/40 mm compacted thickness with VG-30 Bitumen,Excluding prime / tack coat. For Bitumen VG-30 bulk -- USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V-Sat attachment with Stone Dust filler Spec No.: MOST 1995 Cl.No.511	5043.37	13468.80	Cum	67928152.63
74	51.178 (SSR)	White topping or concrete overlay for urban roads: Construction of Thin White Topping plain cement concrete pavement of M-40 grade over a prepared sub base with 43 grade cement, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25mm, replacing cement by fly ash to the extent of 15percent and sand by 10 percent, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread,compacted and finished in a continuous operation including provision of contraction, construction and longitudinal joints with panel size of 1mX1m, joint filler, sealant primer, joint sealant, debonding strip, dowel bar, tierod, admixtures, polypropylene fiber as approved, curing compound, finishing to lines and grades as per drawing	0.00	~~8418.35~~	cum	0.00
75	50.47(SSR)	Supplying and adding Organosilane Nanotechnology Additive (such as Zycotherm or approved equivalent) to the bitumen binder at the Hot Mix Asphalt (HMA) plant at a dosage of 0.1% by weight of bitumen to achieve enhanced chemical bonding, complete aggregate coating, improved moisture resistance, and consistent compaction in various bituminous mixes such as Bituminous Macadam (BM), Dense Bituminous Macadam (DBM), Bituminous Concrete (BC) etc., including supply, transportation, storage, uniform blending with bitumen, testing, and all incidental operations complete in all respects as per manufacturer's specifications, relevant IRC and MORTH guidelines, and as directed and with prior approval by the Engineer-in-Charge.	1098.37	1470.00	kg	1614607.77
	C	**Road Work**		**Total Rs**		**323668716.71**
D	**Miscellaneous Items for Reparing Work**					
76		Providing and fixing on walls/ ceiling/ floor mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.				
	42.55	15 mm	450.00	279.30	Rmt	125685.00
	42.57	25 mm	250.00	393.80	Rmt	98450.00
	42.58	32 mm	100.00	452.60	Rmt	45260.00
	42.59	40 mm	50.00	566.00	Rmt	28300.00
	42.60	50mm	50.00	778.00	Rmt	38900.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
77	42.72	Providing and making ISI Mark ferrule connection of 15 mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete.	30.00	1310.40	No	39312.00
78	42.77	Providing and making ISI Mark ferrule connection of 50mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete	10.00	9391.20	No	93912.00
79		Providing , laying and fixing ,jointing Eco- drain mm SN 8 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete.				
	43.30	110mm	90.00	343.40	Rmt	30906.00
	43.31	160mm	50.00	533.40	Rmt	26670.00
80	27.12	Providing fly ash brick masonry with conventional / I.S. type fly ash bricks in C.M. 1:6 in foundation and plinth including bailing out water manually striking joints, racking out joints watering and scaffolding etc. Complete	45.00	7917.10	Cum	356269.50
81	28.09	Providing coursed rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually , striking joints inside and raking out joints from outside and watering etc.complete	35.00	13152.80	Cum	460348.00
82	28.01	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.	40.00	6140.90	Cum	245636.00
83	26.23	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/ pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	10.00	8172.60	Cum	81726.00
84	32.07	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish. to concrete. brick surface. in all positions including scaffolding and curing etc.complete.	100.00	438.30	Sqm	43830.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
85	32.11	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	50.00	722.00	Sqm	36100.00
86	35.21	Providing and applying priming coat on concrete/ masonary/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.	31.37	37.80	Sqm	1185.84
87	35.26	Providing and applying two coats of exterior weather shield paint of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary and watering the surface for two days etc complete. NOTE: For Item One Number 15 to 18 prior approval of Superintending Engineer will be necessary	200.00	309.80	Sqm	61960.00
88	35.09	Providing and applying two coats of flat oil paint of approved colour to the old structural steel work and iron work previously painted in building including scaffolding, if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	250.00	89.30	Sqm	22325.00
89	35.11	Providing and applying two coats (exterior quality) of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat	31.37	92.40	Sqm	2898.73
90	33.24	Providing and laying matt finish ceramic tiles of having size 30 cm x 30 cm confirming to .S.15622/2006 (group D II-A) and 7 to 8 mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour cement slurry cleaning curing etc. complete.	25.00	1251.90	Sqm	31297.50
91	40.05	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentiDeleted ire 0.75 mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6 mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.	50.00	962.90	Rmt	48145.00
92	7.09	Providing and fixing Guard Railing of 1000mm height as per Type D Drg. No. 15 dt. 20-4-79. and fixed in 40 x 40 x 6mm iron. angle embedded in 1:2:4 cement concrete bedding patti as per detailed drawing. with 3 coats of approved of yellow and black paint.	10.00	2936.80	Rmt	29368.00
93	14.49	Providing railing of cast in situ R.C.C posts with (M-20) cement concrete trap / granite / quartzite / gneiss metal size 150 mm x 150 mm x 1.240 mm and horizantal 3 nos. at distance 370 mm C/C and bottom bar 150 mm above kerb as per the detailed drawings (including cost of reinforcement) scaffolding.steel centering. plywood/steel formwork etc. complete. The C.M. 1:3 plaster is considered for renderinguneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag. plastic. tarpaulin etc. (Wooden centering/formwork will not be allowed).	30.00	2623.90	Rmt	78717.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD.

No	SSR No.	Description	Qty	Rate	Per	Amount
94	11.25	Providing and laying in situ / ready mix M20 cement concrete of trap /granite /quartzite /gneiss metal for approach slab including compacting, finishing, curing etc. complete. (excluding reinforcement) (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with Natural / VSI standard Artificial Sand, cement6.40 bags/cumt)	25.00	8236.30	Cum	205907.50
95	23.01	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.	2.25	106936.20	MT	240606.45
96	21.38	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	10.00	2049.00	Cum	20490.00
97	5.01	Providing and laying in-situ M30 Grade unreinforced plain cement concrete pavement over a prepared subbas with 43 grade cement ,coarse and fine aggregate (natural sand/VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation asper Table 600-3 of MORTH Specification 2013, mixed in a batching and mixing plant/non tilting mixer and Weigh batcher as per approved mix design,admixtures, transporting to suring 80mm at bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge. with fully automaticmicro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	50.00	8584.20	Cum	429210.00
98	33.68	Providing and laying telephone black / Amba White / Cadburybrown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete	50.00	4616.10	Sqm	230805.00
99	46.39	Providing and erectingc hain link fencing1.6M. height with G.I.chain link of size 50 x50mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S.Angles of 40x40x6 mm size, includind excavating pits for foundation and embedded in C.C.block of 1:4:8 mix of size 450x450x670 mm. at 1.75M. c/c with iron bar 16mmdia as hold fast including welding link with angle frame at 30cmc/c withnuts and bolts and horizontal M.S. Angles at top and bottom of 25x25x5 mm size and vertical M.S. flat 35x5mm and 25x5 mm horizontal including cross support of 40x40x6mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450x450x670 mm including 3 coats of oil painting etc. complete.	50.00	2728.00	Rmt	136400.00
100	44.1	Providing and fixing mild steel grill gate with angle iron frame 65mmx65mmx10mm with iron bars at 150mm C/C and diagonal flats as per the detailed drawing including hinges. pivot block, locking arrangement. welding riveting and oil painting of three coats of approved shade Weight of gate 35 Kilogram/ Smt.	10.00	3349.50	Sqm	33495.00
101	40.01	Providing and fixing mild steel grill work for windows. ventilators etc. 20 Kilogram/ One SquareMetre as per drawing including fixtures. necessary weldingand painting with onecoats of anticorrosivepaint and twocoatsof oil painting complete.	10.00	2201.80	Sqm	22018.00
	D	**Miscellaneous Items for Reparing Work**		**Total Rs**		**3346133.52**

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
E	Road Furniture					
102	6.12a	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.complete.	4937.91	699.30	Sqm	3453080.46
103	6.09	Supplying and Fixing of Molded Shank Raised Pavement Markers / Cat's Eye made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 +/- 2 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer.	11723.00	384.30	No	4505148.90
104	6.17 (From 2020-2021)	Supplying of Solar Raised Pavement Markers made of polycarbonate molded body with circular shape, solar powered, LED self illumination in active mode, 360 degree illumination and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The marker shall support a load of 20000 kg tested in accordance to ASTM D 4280. The marker should be resistant to dust and water ingress according to IP 65 standards and should withstand temperatures in the range of 0 C to 70 C. Color of lighting could be provided in red or yellow (amber) as per requirement and typical frequency of blinking is 1 Hz. There should be current losses of less than 20 micro-amperes at 2.4 V in sleep-charging mode to enhance the life of the marker and a full charge should provide for a minimum autonomy of 50 hours. The height, width and length of the marker shall not be less than 10 mm x 100 mm x 100 mm. Also, the surface diameter of the marker shall not be less than 100 mm respectively. The weight of the marker shall not exceed 0.5 Kilograms. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive and complete as directed by the engineer.The contractor shall submit a two year warranty for satisfactory field performance including stipulated retroreflectance of the reflecting panel, to the Engineer.	40.00	4189.50	No	167580.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
105	6.10	Providing and Fixing of Median Marker that are made of tough, high impact resistant, injection-molded, thermoplastic body with an isosceles trapezoidal structure of length, width and height not less than 15cm, 10cm and 10cm respectively and thickness not less than 1.8mm, the body structure shall be rounded at its acute angle, all the corners and edges. The plastic used for molding the Median Marker shall have a minimum Notched Izod Impact strength value of 600 J/m at room temperature, when tested in accordance with ASTM D256 and shall retain at least 70% of this value when subjected to accelerated weathering for 1000hrs as per ASTM G155 or UL746C. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The Median Marker shall have rectangular-shaped, fluorescent yellow color retro- reflective sheeting of size not less than 8.5cm*8.5cm and with fully reflective micro prismatic cube corners as its retro-reflective elements as per IRC 67 2010 and ASTM D4956 type XI specifications reflectivity values. The retro-reflective sheeting shall be one or both sides of the Median Marker and shall be edge protected with no exposed edges which will prevent edge lifting, vandalism, sheeting damage, etc. The Median Marker shall be fixed by a combination of epoxy adhesive and grouting.	25.00	480.90	No	12022.50
106	6.15	Road Delineators: Supplying and installation of delineators (Roadway Indicators, Hazard markers, Object markers) 80 to 100 cm high above ground level, painted black and white in 15 cm wide strips, fitted with 80x100mm rectangular or 75mm dia. Circular reflectorised panels at the top, buried or pressed into the ground and confirming to I.R.C. 79 and the drawings	50.00	863.10	No	43155.00
107	6.16	Providing and fixing steel pipe delineators of 10 cm. in diameter and total height of 130 cm, provided with 2 strips of white retroreflective sheeting of size 5 cm. x 32.5 cm. each fixed horizontally and 2 strips of red retroreflective sheeting each having size 5 cm. x 32.5 cm. fixed horizontally at top, with M.S. round cap having diameter 11 cm. and wire mesh at top (10 guage thick) and height of wire mesh 15 cm, M.S. hold fast 6 mm thick with 35 cm. in length, fixing the delineators in C.C. 1:4:8 concrete block of size 25 cm. x 25 cm. x 45 cm. with necessary excavation etc. complete.	50.00	1056.30	No	52815.00
108	6.28	Providing and fixing Mandatory/Regulatory sign boards in circular shape of____ mm dia made out of ____aluminum sheet bonded with white retro reflective sheeting of Class C (Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retoreflective specified back ground. border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67- 2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc: fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc: complete. Class C (Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.				
	b	600 mm dia made out of 3mm aluminum composite material	20.00	5665.80	No	113316.00
	d	material	20.00	7519.10	No	150382.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
109	6.30	Providing and fixing Cautionary/Warning sign boards in Equilateral Triangle size of ___mm made out of____ mm aluminum sheet bonded with white retro reflective sheeting of Class C (Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67- 2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. ClassC (Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier				
	b	600 mm made out of 3mm aluminum composite material	15.00	4524.40	No	67866.00
	d	750 mm made out of 4mm aluminum composite material	25.00	5205.90	No	130147.50
	f	900 mm made out of 4mm aluminum composite material	25.00	6647.60	No	166190.00
110	6.33	Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area less than 0.9 One Square Meterr made out of ____mm aluminum sheet bonded with white retro reflective sheeting of Class __ (Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on one no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity microprismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the				
	d	4mm aluminum composite material Class C	24.30	13891.50	Sqm	337563.45

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
111	6.34	Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area greater than 0.9 square meter made out of__aluminum sheet bonded with white retro reflective sheeting of Class ____ (Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on two no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity microprismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued				
	d	4mm aluminum composite material Class C	24.30	16722.30	Sqm	406351.89
112	6.35	Providing and erecting Overhead signs made out of __aluminum sheet bonded with white retro reflective sheeting of Class ___(Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67-2012, with designed back support frame of mild steel angle with vertical and lateral clearance given in clause 801 and 802, duly painted on back side with two coats of grey stove enamel paint and installed as per clause 802.6 over a designed support system of structural steel work trestles and trusses of sections and type as per structural design requirements and approved plans including painting with one coat of epoxy primer and two coats of epoxy finish paint.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity micro-prismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in				
	d	4mm aluminum composite material Class C	8.10	10839.10	Sqm	87796.71
113	7.30	Metal Beam Crash Barrier- -Type A.W: Metal Beam Crash Barrier (Providing and erecting a W metal beam crash barrier comprising of 3mm thick corrugated sheet metal beam rail. 70 cm above road/ ground level. fixed on ISMC serieschannel vertical post.150x75x5mm spaced 2m centre to centre. 1.8m high. 1.1m below ground/ road level. all steel part sand fitments to be galvanised by hot dipprocess. all fittings to conform to IS:1367 and IS:1364. metal beam rail to be fixed on the vertical post with a spacer of channel section150x75x5 mm. 330 mm long complete as per clause 810)""	50.00	5157.60	Rmt	257880.00

NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET

CIVIL TECH INDIA PVT. LTD

No	SSR No.	Description	Qty	Rate	Per	Amount
114	7.21	Providing and Constructing gabion structure 1Meter hight or required section made up of soft mechanically woven hexagonal shapedG.I. wire confirming to IS 16014:2012 having zinc plus PVC coating of overall diameterof 3.7mm and tying lacing wire of 3.2 mm with edge wire confirming to overall diameter 4.4 mm edges being mechanically selvedge including placing in position, fitting neatly with trap stone rubble (15 to 23 cm) all loose ends to be securely tied (Excluding transportation) etc. complete .(In Dry condition and for under water installation extra cost to be considered)	20.00	5271.80	cum	105436.00
	E	**Road Furniture**		**Total Rs**		**10056731.41**
F	**Providing Public Utilities**					
115	**51.44**	Public Seating Chair. - 3 Seater Providing and Fixing 3 seater Public seating chair made of complete metal with Legs in Crome finish and seates in silver powder coating finish.	6.00	**18958.80**	No	113752.80
116	49.28	Providing and fixing stainless steel bollard of steel pipe 1.00 metre long of 250 mm inner diameter and circular top plate of 350 mm diameter with 5 mm thickness on deck of jetty in cement concrete including necessary fixtures and fastening etc. complete. (Stainless steel of grade S-304)	20.00	21916.65	No	438333.00
	F	**Providing Public Utilities**		**Total Rs**		**552085.80**
	G	**Water Supply**				**2152825.02**
	H	**Structures**				**51386570.00**
		Total Rs	**A+B+C+D+E+F+G**			**425,763,352.08**
			Add GST	18%	Rs	76637403.38
		Total Rs With GST Road work				**502,400,755.46**
117		Royalty charges for murum dubber should be paid by the contractor regularly to the government and contractor should produce delivery challon, payment receipt, pakka bill etc. complete alongwith every R.A. bill \ final bill as applicable.(It is entirely responsibility of contractor to pay Royalty charges to the				
	A	for murum / Rubble /	6078.61	216.18	Cum	1314073.15
	B	for sand	4.15	237.37	Cum	985.09
				Total Rs		**1315058.24**
		Total Rs. With GST and Royalty			**Rs**	**503715813.70**
				Say Rs		**503,715,814.00**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik

Name of Road.

Road No.	Sr. No.	Name of colony / Area road	Chainage		Treated side shoulder rea murum, GR-I, GR-II			Strom water line	Divider	
			From	Vidth r one side	Nos.	Area for both side	Lenght	Width	Length	
1	1	Bardan Phata to Motiwala College	0	92.00	2.00	3600	288.00	1.2	900.00	
	2	Motiwala College to Baban Lawns	900	12.00	2.00	2280	182.40	1.2	570.00	
	3	Baban lawns to Gajre Hospital	1470	22.00	2.00	2640	211.20	1.2	660.00	
	4	Gajre Hospital to Carbon Naka	2130	22.00	2.00	2280	182.40	1.2	570.00	
	5	Carbon Naka to Shramik Nagar Stop	2700	32.00	2.00	2760	207.00	1.2	690.00	
	6	Shramik Nagar to Ashok Nagar Police Station	3390	42.00	2.00	3360	252.00	1.2	840.00	
	7	Ashok Nagar Police Station to Amrut Garden	4230	52.00	2.00	3120	234.00	1.2	780.00	
		Total			-	-	**20040.00**	**1557.00**	-	**5010.00**
		for 13% Fanning Area & Approaches		1				202.41		
		Total			-	-	**20040.00**	**1759.41**	-	**5010.00**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik

NASHIK MUNICIPAL
CORPORATION

MEASUREMENT
SHEET

CIVIL TECH INDIA PVT. LTD.

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
A	**Dismantling**							
1	Detailed survey of road in plain country including chaining and levelling with cross sections at every two chains inclusive of closing of survey each day.							
			1	5661.300			5.661	Km
					Total Qty		**5.661**	**Km**
2	Dismantling of flexible pavements and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately. By Mechanical Means etc. complete.							
			1				1000.00	
							1000.00	**Cum**
3	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 metres, stacking serviceable and unserviceable materials separately etc. complete.							
			1	200.00	sqm	0.250	50.00	
							50.00	**Cum**
4	Removal of telephone / Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1000 metres and stacking the serviceable and unserviceable material separately							
			1.00	5			5.00	
					Total Qty		**5.00**	**No**
5	Dismantling brick masonry in lime or cement mortar and stacking the materils as directed with all leads, lifts etc.							
		1	1	10.00	0.23	0.450	1.04	
		1	1	5.00	0.23	0.900	1.04	
					Total Qty		**2.07**	**Cum**
6	Dismantling stone masonry in lime or cement mortar including stacking the materils as directed with all leads, lifts etc.							
		1	1	10.00	0.45	0.500	2.25	
		1	1	5.00	0.23	0.900	1.04	
					Total Qty		**3.29**	**Cum**
7	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc. complete							
			1	70	1.50	0.100	10.50	
	PR item				**Total Qty**		**10.50**	**Cum**
8	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc. complete							
			1	15	10.00	0.100	15.00	
					Total Qty		**15.00**	**Cum**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT. LTD.

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
9	Removing cement tiles, or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts etc. complete							
							10.00	
	PR item				**Total Qty**		**10.00**	**Sqm**
10	Removing wire fencing with iron/ C.C. fencing post and stacking the materials as directed with all leads, lifts etc. complete.							
							10.00	
	PR item				**Total Qty**		**10.00**	**Rmt**
11	Milling of existing bituminous surface to specified depth of bituminous layer including disposal of removed material with all lift and lead upto 1000 m etc complete. Using machine like Writgen (W100) or equivalent							
				500.00			500.00	
					Total Qty		**500.00**	**Sqm**
B	**Strom Water / Service line / Utility Duct**							
12	Carrying out detailed/final location survey for drainage schemes with chain and compass, levels, theodolite and other essential instruments including staking of final center line, locating curves, establishing B.M. and taking L section, cross section, fly leveling etc. complete in plain area. Spec. No. : As directed by Engineer in charge							
	Provisional Quantity	1	1	5661.30			5661.30	
							5661.30	**Rmt**
13	Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum, including removing the excavated material upto a distance of 50 metres and lifts as below, stacking and spreading as directed, manual dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. (MJP,DSR 2023-24, Section-E-1,4,)							
a	Lift upto 0.0 to 1.50 m depth				**avg w**			
	for service line	1	1	1759.41	1.00	0.300	527.82	
	for chowks	1	2	160.00	1.00	0.300	96.00	
	for Catpits	1	1	3980.00	1.00	0.300	1194.00	
	for strom water line							
	for 450 mm dia	1	1	660.00	1.15	0.300	227.70	
	for 600 mm dia	1	1	1140.00	1.30	0.300	444.60	
	for 900 mm dia	1	1	10.00	1.60	0.300	4.80	
	for 1000 mm dia	1	1	10.00	1.70	0.300	5.10	
	for 1200 mm dia	1	1	10.00	1.75	0.300	5.25	
	Provisional Quantity	**Total length**		**1830.00**			**2505.27**	**Cum**
b	Lift upto 1.50 to 3.0 m depth							
		1	1	1830.00	1.45	0.300	796.05	
	Provisional Quantity						**796.05**	**Cum**
14	Excavation for foundation / pipe trenches in hard murum and boulders, W.B.M. road including removing the excavated material upto a distance of 50 M beyond the area and lifts as below, stacking and spreading as directed by Engineer-in-charge. normal dewatreing. preparing the bed for foundation and excluding backfilling. etc. complete. (MJP.DSR 2023-24. Section-E-3.4.)							
	Lift upto 0.0 to 1.50 m depth							
	for service line	1	1	1759.41	1	0.6	1055.65	
	for strom water line 450 mm dia							
	for 450 mm dia	1	1	660	1.15	0.6	455.40	

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
	for 600 mm dia	1	1	1140	1.3	0.6	444.6	
	for 900 mm dia	1	1	10	1.6	0.6	4.8	
	for 1000 mm dia	1	1	10	1.7	0.6	5.1	
	for 1200 mm dia	1	1	10	1.75	0.6	5.25	
	Provisional Quantity	**Total length**		**3589.41**			**1970.80**	**Cum**
	Lift upto 1.50 to 3.0 m depth							
		1	0.5	1830.00	1.70	0.350	544.43	
	Provisional Quantity						**544.43**	**Cum**
15	Excavation for foundation / pipe trenches in soft rock and old cement and lime masonry foundation asphalt road including removing the excavated material upto a distance of 50 M beyond area and lifts as below, stacking as directed by Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. (MJP,DSR 2023-24, Section-E-5,9,)							
	Lift upto 0.0 to 1.50 m depth							
	for service line	1	1	1759.41	1	0.3	527.82	
	for strom water line 450 mm dia							
	for 450 mm dia	1	1	660	1.15	0.3	227.70	
	for 600 mm dia	1	1	1140	1.3	0.3	444.6	
	for 900 mm dia	1	1	10	1.6	0.3	4.8	
	for 1000 mm dia	1	1	10	1.7	0.3	5.1	
	for 1200 mm dia	1	1	10	1.75	0.3	5.25	
	Provisional Quantity	**Total length**		**3589.41**			**1215.27**	**Cum**
	Lift upto 1.50 to 3.0 m depth							
		1	0.5	1830.00	1.70	0.350	544.43	
	0						**544.43**	**Cum**
16	Excavation for foundation / pipe trenches in hard rock and concrete road by chiselling, wedging, line drilling, by mechanical means or by all means other than blasting including trimming and levelling the bed, removing the excavated material upto a distance of 50 metres beyond the area and lifts as below, stacking as directed by Engineer-in-charge, normal dewatering, excluding backfilling, etc. complete by all means. (MJP,DSR 2023-24, Section-E-7,9)							
	vii) for 450 mm dia							
	for service line	1	1	1759.41	1	0.1	175.94	
	for strom water line 450 mm dia							
	for 450 mm dia	1	1	660	1.15	0.1	75.90	
	for 600 mm dia	1	1	1140	1.3	0.1	444.6	
	for 900 mm dia	1	1	10	1.6	0.1	4.8	
	for 1000 mm dia	1	1	10	1.7	0.1	5.1	
	for 1200 mm dia	1	1	10	1.75	0.1	5.25	
	Provisional Quantity	**Total length**		**3589.41**			**711.59**	**Cum**
	Lift upto 1.50 to 3.0 m depth							
	for provisinal Qty	1	0.5	1830.00	1.70	0.250	388.88	
							388.88	**Cum**
	Lift up to 3.0 to 4.5 m depth							
	for provisinal Qty	1	0.5	1830.00	2.30	0.100	210.45	
							210.45	**Cum**
17	Filling in plinth and floors murum bedding in trenches with approved murum from excavated materials from foundation 15cm to 20cm layers including watering and compaction complete.(MJP,DSR 2023-24, Section-E-16)							

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
	Qty As Per Item No 13	1	1	3589.41	1.15	0.150	619.17	
							619.17	**Cum**
18	Providing, Lowering & Laying ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for either collar/ spigot & socket joints or rubber ring joints, including all cost of rubber ring joints, excluding GST levied by GOI & GOM in all respect including inspection charges, transport to departmental stores, unloading and stacking etc. complete as per IS-458/1988, lowering & Laying and giving satisfactory Hydraulic testing of the laid pipe line and jointing in proper grade and alignment R.C.C. pipes with collar joints in C.M.1:1 proportion or socketed R.C.C. pipes with rubber joints (excluding cost of rubber ring or R.C.C. collar,) including cost of conveyance from stores to site of work, cost of jointing material, labour, etc. complete as directed by Engineerin- charge (For all class of pipes.) as per IS- 783- 1985. as specified and directed by Engineer in charge etc. complete. (MJP, DSR 2023-24, Sec.-I(VI)RCC Pipes,1d,e,f,2)Page No. 94,95,96							
	i) for 150 mm dia							
		1	2	50.00			100.00	
							100.00	**Rmt**
	ii)for 200 mm dia							
		1	1	50.00			50.00	
							50.00	**Rmt**
	iii) for 250 mm dia							
		1	1	50.00			50.00	
							50.00	**Rmt**
	iv)for 300 mm dia							
	service line	1	2	1759.41			3518.82	
	for drainage provisional Qty	1	0.2	150.00			30.00	
	catch pit	1	2	167.00			334.00	
							3882.82	**Rmt**
	vii) for 450 mm dia							
	storm line	1	1	1830.00			1830.00	
	for drainage provisional Qty	1	10	20.00			200.00	
	catch pit	2	167.00	12.00			4008.00	
							6038.00	**Rmt**
	ix) for 600 mm dia							
	crossing	1	1	1140.00			1140.00	
							1140.00	**Rmt**
	xii) for 900 mm dia							
		1	1	10.00			10.00	
							10.00	**Rmt**
	xiii) for 1000 mm dia							
		1	1	10.00			10.00	
							10.00	**Rmt**
	xiv)for 1200 mm dia							
		1	1	10.00			10.00	
							10.00	**Rmt**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
19	Providing and constructing on sewer,Fly Ash Brick masonry circular manhole concentric cone 0.9 M dia. at bottom and 0.5 M dia. at top and upto a depth of 1.00 M, with 15cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 1.0 M with 0.23m. thk. BM in CM 1:6 proportion with 12 mm thick inside & 20 mm thick on outer- side plaster with fine cement smooth finish in CM 1:4, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered), 15cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.As per Rate Analysis.(For both side plaster Use natural sand & For other work VSI(Vertical Shaft Impact) sand finely washed etc.)							
	900mm dia	1	55				55.00	
							55.00	**No**
20	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 1.2 M dia. at bottom and 0.5 M dia. at top and upto a depth of 2.00 M with 25 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 2.00 M with 0.23 M thick in CM 1:4 proportion excluding excavation with 12 mm thick on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:3, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered),,15cm thk C.C.1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in- charge.(MJP, SSR 2023-24, SEC-I(XX)-6,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)							
	1200mm dia		28				28.00	
							28.00	**No**
21	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 1.5 M dia. at bottom and 0.5 M dia. at top and upto a depth of 5.0 M with 25 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 2.0M with 0.23m thk & 3.0 M depth of Vertical Cylinder with 0.35 M thick Fly Ash Brick masonry in CM 1:4 proportion with 20 mm thick on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:2, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered),,15cm thk 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.(MJP, SSR 2023-24, SEC-I(XX)-7,)(Use VSI(Vertical Shaft Impact) sand finely washed etc.)							
		1	6				6.00	
							6.00	**No**
22	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole with concentric cone 1.80 M dia. at bottom and 0.5 M dia. at top and upto a depth of 9.0 M with 25 cm thick CC 1:2:4 bed concrete,& Fly Ash Brick masonry with 23 cm brick work in conical shape upto depth of 2.50 M from top and balance in cylindrical shape 35 cm thick brick work for depth of 2.35 M depth upto 5.0 M, with M:20 Concrete for RCC Beam size of 350x150mm thk.with reinfocement steel 3nos. Tor 10 @ Bottom & 3Nos. Tor 8 @ top, stirrups Tor 8@150c/c, rest on the top of 350mm thk. brick work, and 45 cm thick brick work 3.85m.for remaining depth upto 9.00 M with M:20 Concrete for RCC Beam size of 450x150mm thk.with reinfocement steel 3nos. Tor 10 @ Bottom & 3Nos. Tor 8 @ top, stirrups Tor 8@150c/c, rest on the top of 450mm thk. brick work, in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:3 proportion excluding excavation. including foundation concrete 250 mm thick and haunches and channels in c.c.1:2:4 proportion. finishing channels in smooth rendering. providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical. (Staggered). 15cm thk 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.As per Rate Analysis.(Use VSI(Vertical Shaft Impact) sand finely washed etc.)							
							8.00	

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
							8.00	**No**
23	Providing and constructing on sewer, Fly Ash Brick masonry manhole Rectangle of size 600 x 450 mm and upto a depth of 900 mm with 15 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry & with 23 cm brick work in CM 1:6proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, 15 cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 600 x 450 mm etc. complete as directed by Engineer-in-charge. (MJP, SSR 2023-24,Sec-I(XX)-3-A,) (Use VSI(Vertical Shaft Impact) sand finely washed etc.)							
		2	7				14.00	
							14.00	**No**
24	Providing and constructing on sewer, Fly Ash Brick masonry manhole Rectangle of size 600 x 900 mm and upto a depth of 900 mm with 15 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry & with 23 cm brick work in CM 1:6,proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, 15 cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 600 x 900 mm etc. complete as directed by Engineer-in-charge.As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)							
	catch pit	4	38				152.00	
							152.00	**No**
25	Constructing additional depth/ Rebate for Manhole of 900mm Dia. & above/below 1000 mm. depth to cover variations with 230mm.thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered) As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)							
		1	20.00	0.25			5.00	
							5.00	**Rmt**
26	Constructing additional depth or Manhole of 1200mm Dia. & above / Rebate 2000 mm. depth with 230mm.thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered), (MJP, SSR 2023-24, Sec-I(XX)-6-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)							
		1	10.00	0.25			2.50	
							2.50	**Rmt**
27	Constructing additional / Rebate depth for Manhole of 1500mm Dia. & below 5000 mm. depth with 350mm.thick Fly Ash Brick masonry work in CM 1:6,proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered). (MJP, SSR 2023-24. Sec- I(XX)-7-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)							
	1500 mm dia	1	10.00	0.25			2.50	
							2.50	**Rmt**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT. LTD.

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
28	Constructing additional / Rebate depth for Manhole of 1800mm Dia. & below 9000 mm. depth with 450mm.thick Fly Ash Brick masonry work up to 2.50m in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered),As per Rate Analysis. (For both side plaster Use natural sand & For other work VSI sand finely washed etc.)							
	1800 mm dia	1	8.00	0.25			2.00	
							2.00	**Rmt**
29	Constructing additional depth or Manhole of 450x600x900 above 900 mm. depth with 230mm. Fly Ash Brick masonry work.in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3. (MJP, SSR 2023-24, Sec-I(XX)-3-A-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)							
	450x600 mm	1	16.00	0.25			4.00	
							4.00	**Rmt**
30	Constructing additional depth or Manhole of 900x600x900 above 900 mm. depth with 230mm. Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)							
		1	225.00	0.25			56.25	
	600x900 mm						**56.25**	**Rmt**
31	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc. complete. (MJP, SSR 2023-24, Sec-E-15)							
	Qty.As Per excavation item						8887.16	
	deduction foe pipe and chember volume		25%				-2221.79	
							6665.37	**Cum**
32	Providing and fixing in position steel fiber reinforced concrete (S.F.R.C.) frame and covers of approved make including loading, unloading, transportation, all taxes, etc. complete as directed by Engineer-in-charge (20 tones capacity)							
	(MJP, SSR 2023-24, Sec-I(XX)-17,)							
	i) 540 Dia.	1	10				**10.00**	**No**
	ii) 560 Dia.	1	170				**170.00**	**No**
	iii) 90x45 cm	1	5				**5.00**	**No**
	iv) 90x60 cm	1	12				**12.00**	**No**
	v) 60 x 60 cm	1	5				**5.00**	**No**
	vi) 60 x 45 cm	1	5				**5.00**	**No**
33	Cleaning or Desilting B.B.M. of various dia chamber on sewer including removing matarial upto a distance of 50.0M for all lifts as directed by Engineer-in-charge.etc. complete							
		2	50	0.50	0.30	0.900	13.50	
							13.50	**Cum**
34	Cleaning the R.C.C. choked up pipes of diameter from 200 mm to 450 mm including removing matarial upto adistance of 50.0M for all lifts as directed by Engineer-in-charge.							
		1	1	200.00			200.00	
							200.00	**Rmt**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
35	Cleaning the R.C.C. choked up pipes by using bucket machine and rodding machine including removing matarial upto adistance of 50.0M for all lifts in different places during cleaning operation all labour and safety precaution should be taken by maintainance contractor himself (i.e. suitable gas masks, gas detection driving prompt etc.) during cleaning operation in any damages done by the contractor shall be repaired by the contractor with his own cost. To clean the existing drain line bucket and rodding machine will not be given by department & if machinary provided by department charges will recovered from bill. Diversion of sewerage water any necessary excavation if necessary should be done by the contractor at his cost during the work necessary action for cleaning line traffic permission and proper precautions should be taken by contractorafter completion of a cleaning operation by contractor has to test the line in precence of enginreer- in- charge. (As per Rate Analysis)							
a)	For 200mm to 600mm dia RCC drain line							
		1	1	500.00			500.00	
							500.00	**Rmt**
b)	For above 600mm to 1000mm dia RCC drain line							
		1	1	250.00			250.00	
							250.00	**Rmt**
c)	For above 1000mm dia RCC drain line							
		1	1	100.00			100.00	
							100.00	**Rmt**
C	**Road Work (Construction of Bituminious or Concrete Road Items)**							
36	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.							
	for Road Widening	1	1	38251.07		0.900	34425.96	
	For Side Shoulder	1	1	20040.00		0.900	18036.00	
	For Footpath	1	1	0.00		0.900	0.00	
	Ded Pipe Excavation Qty Item	1	1	-400.80		0.900	-360.72	
							52101.24	**Cum**
37	Excavation for roadway in hard murum and boulder including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m.and spreading for embankment or stacking as directed							
	for Road Widening	1	1	38251.07		0.200	7650.21	
	For Side Shoulder	1	1	20040.00		0.200	4008.00	
	For Footpath	1	1	0.00			0.00	
						Total Qty	**11658.21**	**Cum**
38	Excavation for roadway in soft rock, including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. And spreading or stacking as directed.							
	On Item 37 @ 2%						1042.02	
						Total Qty	**1042.02**	**Cum**
39	Excavation for roadway in hard rock by wedging and chiselling or line drilling including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.							
	On Item 36@ 1%						521.01	
						Total Qty	**521.01**	**Cum**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
40	Excavation for catch / side water gutter in all sorts of soils to the specified section including stacking the excavated stuff in a regular bund and disposing of unsuitable or excess stuff as directed all sorts of soils.							
	for Provisinal Qty						5.00	
							5.00	**Cum**
41	Conveying materials obtained from road cutting upto lead of 5 .00 km including all lifts, laying in layers, breaking clods, dressing to the required lines, curves, grades and section from the site of excava-tion to the site of deposition as directed .							
	Quatity from Item No.36		1	52101.24	Cum		52101.24	
	Quatity from Item No.37		1	8160.75	Cum		8160.75	
	Quatity from Item No.38		1	1042.02	Cum		1042.02	
	Quatity from Item No.39		1	521.01	Cum		521.01	
							61825.02	**Cum**
42	Providing Earth work in embankment with approved material ob-tained from Govt. land with 50 m lead, by using laying in lay-ers, breaking clods, dressing to required lines curves grade, and section watering and compaction complete. (a) 95% proctor densi-ty. Spec.No. : M.O.S.T. 1995 Cl.No.305							
		1	1	5.00			20.00	
							20.00	**Cum**
43	Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete (Material obtained from Other sources)							
							100.00	
					Total Qty		**100.00**	**Cum**
44	Supplying hard murum/ kankar at the road site, including conveying and stacking complete. Sp. No. Rd. 23 P.No. 202							
						avg		
	for Road Widening	1	1	38251.07		0.300	11475.32	
	For Side Shoulder	1	1	20040.00	sqm	0.300	6012.00	
	For Footpath	1	1	0.00		0.300	0.00	
	Deduction of Qty from Item No.37						-11658.21	
							5829.11	**Cum**
45	Spreading hard murum for side width etc. complete							
				Qty as per Item No. 43			**5829.11**	**Cum**
46	Compacting the hard murum side widths including laying in layers on each side with power roller including artificial watering etc. complete.							
	for Road Widening	1	1	38251.07			38251.07	
	For Side Shoulder	1	1	20040.00			20040.00	
	For Footpath	1	1	0.00			0.00	
							58291.07	**Sqm**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
47	Construction of granular subbase by providing close graded Material,mixing in a mechanical mixplant at OMC,carriage of mixed Material to work site, spreading in uniform layers with motor grader/Paver on prepared surface and compacting with vibratory roller to achieve the desired density,complete as per clause 401 -- Plant Mix Method and Grading - I Material							
						avg		
	for Road Widening	1	1	38251.07		0.200	7650.21	
	For Side Shoulder	1	1	20040.00		0.200	4008.00	
	For Footpath	1	1	0.00		0.200	0.00	
							11658.21	**Cum**
48	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Intelligent Compactor with compaction analyzer and V-Sat attachment. to the required density. Grading I (Using Screening Type A (13.2) mm Aggregate)							
				Grade (I)				
	For Side Shoulder	1	1	20040.00		0.150	3006.00	
	For Footpath	1	1	0.00		0.150	0.00	
							3006.00	**Cum**
49	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Intelligent Compactor with compaction analyzer and V-Sat attachment. to the required density. Grading II (Using Screening Type B (11.2 mm) Aggregate)							
				Grade (II)				
	For Side Shoulder	1	1	20040.00		0.075	1503.00	
	For Footpath	1	1	0.00		0.075	0.00	
							1503.00	**Cum**
50	Wet Mix Macadam -- Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Laying By Grader/Paver.							
	for Road Widening	1	1	38251	sqm	0.25	9563	
							9563	**Cum**
51	Providing and layingin PCC M15 grade leveling course below approach slab complete With fully automatic microprocessor PLC with SCADA enabled reversible drum type mixer/concrete batch mix plant (panmixer) asper drawingsand Technical specifications etc. complete with fine agreegates of required specifications (VSI sand finely washed etc)							
	For Footpath						5.00	
							5.00	**Cum**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
52	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, , cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant/ Weigh batch mixer, transported to site with all leads and lifts, laid with a paver with electronic sensor /by suitable means as approved by Engineer-in-charge , compacting with vibratory roller, finishing, curing and including preparation of sub-grade surface if required etc. complete. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.							
							15.00	
							15.00	**Cum**
53	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneissmetal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, cover blocks, laying/ pumping, compaction and roughening the surface if special finish is to be provided and curing etc.complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc. complete.Withfine aggregate (Crushed sand VSI Grade)							
	Edge beam						5.00	
							5.00	**Cum**
54	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.							
	Edge beam						100.00	Kg
							0.10	**MT**
55	Providing and laying 125 micron Low Density Polyethylene (LDPE) sheet confirming to IS 3395 : 1997 below concrete pavement including all materials and labour complete.							
		1	1	10	10		100.00	
					Total Qty		**100.00**	**Sqm**
56	Providing and laying in-situ M40 Grade un-reinforced plain cement concrete pavement over a prepared sub base with 43 grade cement , coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.							
		1	1	10.00	10.00	0.300	30.00	
					Total Qty		**30.00**	**Cum**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
57	Providing and fixing in position TMT FE 500, 32 mm dia dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm. C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint as directed etc. complete							
							10.00	
					Total Qty		**10.00**	**No**
58	Providing and fixing in position TMT FE 500, 25 mm dia dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm. C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint as directed etc. complete							
		1					10.00	
					Total Qty		**10.00**	**No**
59	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm. .in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. as directed by Engineer incharge.							
	Longitudinal Joints	1					10.00	
	Transeverse Joints	1					10.00	
					Total Qty		**20.00**	**Rmt**
60	Providing to contraction joints polysuphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (appraox. 25% larger than the initial 3 mOne Metric Tonneo 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer. (A) Contraction and longitudinal joints (15 mm. deep x 8 mm.wide)							
	Same as Item No. 58						20.00	
					Total Qty		**20.00**	**Rmt**
61	Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete.							
							10.00	
					Total Qty		**10.00**	**Sqm**
62	Providing and casting insitu or precast tapering R.C.C.M-20 Mountable type Kerb without gutter (asper IRC861983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff anywhere incity and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant							
		1	1	5.00			5.00	
							5.00	**Rmt**
63	P/L and fixing precast Cement concrete M-20 grade kerb stone of following sizes grade concrete including manufacturing, supplying to the site, fixing in position, with prepared bed of,packing by surrounding pcc upto 100 mm ht with M-10 PCC 80mm thick, filling joints with cement, coloring with one coat primer & flat oil paint in two coats as per directed by engineer in charge etc complete (As per R.A.)							

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
a	Size- Length 300 mm, Height 750mm, Top Width 125 mm, Bottom width 200 mm, Chamfer Height							
		2		2505.00			5010.00	
		1		0.00			0.00	
					Total Qty		**5010.00**	**Rmt**
b	Size- Length 400 mm, Height 450mm, Width 125mm, Chamfer Height 450 mm							
	For Side Shoulder	1	2	50.00			100.00	
					Total Qty		**100.00**	**Rmt**
64	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 60 mm thickness of having a strength of 300 Kilogram/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete							
	for footpath	1	1	20.00	sqm		20.00	
							20.00	**Sqm**
65	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 mm thickness of having a strength of 300 Kilogram/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete							
		1	1	50.00	sqm		50.00	
					Total Qty		**50.00**	**Sqm**
66	Providing and laying 75mm thick compacted Modified Pentration Macadam with VG-30 bitumen over existing WBM surface including picking the road metalled surface, thoroughly cleaning the WBM surface by using mechanical broom or approved equipment, spreading 40mm size metal (30% Crushed metal +70% Hand broken) by brining blasted rubble on site of work) at the rate of 0.09Cum/Sqm Compacting metal with roller and bitumen is them spread at rate of 2kg/ sqm. Spreading 12mm metal at rate of 0.018 Cum,/Sqm The surface shall be lightly rolled so that metal pieces ge embeded in the bitumen layer and rolling shall continre until entire surface is throughly compacted etc. complete. (With Vibratory Roller including diversion road) Spec. No. As directed bty Engineer- in - charge.							
		1	1	10.00	10.00		100.00	
							100.00	**Sqm**
67	Providing and laying 75mm thick compacted Modified Pentration Macadam with VG-30 bitumen over existing BT surface including picking the road metalled surface, thoroughly cleaning the BT surface by using mechanical broom or approved equipment, spreading 40mm size metal (30% Crushed metal +70% Hand broken) by brining blasted rubble on site of work) at the rate of 0.09Cum/Sqm Compacting metal with roller and bitumen is them spread at rate of 2kg/ sqm. Spreading 12mm metal at rate of 0.018 Cum,/Sqm The surface shall be lightly rolled so that metal pieces ge embeded in the bitumen layer and rolling shall continre until entire surface is throughly compacted etc. complete. (With Vibratory Roller including diversion road) Spec. No. As directed bty Engineer- in - charge.							
		1	1	10.00	10.00		**100.00**	**Sqm**
68	Providing and applying tack coat on the prepared surface heating by fames in Boiler and spraying bitumen set footed in bitumen boller on B.T. surface 5 kg/10 sqm. (VG 30 bulk bitumen rates are considered to arrive at rates) Spec.Rd.47.3.3 Page No. 224							
	for Roads	1	3	126084.27	sqm		378252.81	
							378252.81	**Sqm**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT. LTD.

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
69	Prime coat - Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including cleaning of road surface and spraying, primer at the rate of 10.0 kg/sqm using mechanical means.							
		1	1	38251.07			38251.07	
							38251.07	**Sqm**
70	BITUMINOUS MACADAM 3.00 % : Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 3.00 % using specified grade of Bitumen. -- USING batch Mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG30 bulk bitumen rates are considered to arrive at rates)							
		1	1	100	4	0.0550	22.00	
							22.00	**Cum**
71	BITUMINOUS MACADAM 3.50 %: Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 3.50 % VG-30 Bitumen. - USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V- Sat attachment.							
						avg		
	For Profile Correction 50%		1	43916.60	sqm	0.0550	2415.41	
	for Road Widening		1	38251.07		0.0550	2103.81	
							4519.22	**Cum**
72	DENSE BITUMINOUS MACADAM 4.50%: Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 4.50 % VG-30 Bitumen. - USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V- Sat attachment.							
						avg		
		1	1	126084.27	sqm	0.0600	7565.06	
							7565.06	**Cum**
73	BITUMINOUS CONCRETE 6.25 %:- Providing and laying bituminous concrete using crushed aggregates of grading 2, premixed with bituminous binder @ 6.25 per cent by weight of total mix and filler, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for30/40 mm compacted thickness with VG-30 Bitumen,Excluding prime / tack coat. For Bitumen VG-30 bulk -- USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V-Sat attachment with Stone Dust filler Spec No.: MOST 1995 Cl.No.511							
						avg		
		1	1	126084	sqm	0.0400	5043.37	
							5043.37	**Cum**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
74	White topping or concrete overlay for urban roads: Construction of Thin White Topping plain cement concrete pavement of M-40 grade over a prepared sub base with 43 grade cement, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25mm, replacing cement by fly ash to the extent of 15percent and sand by 10 percent, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread,compacted and finished in a continuous operation including provision of contraction, construction and longitudinal joints with panel size of 1mX1m, joint filler, sealant primer, joint sealant, debonding strip, dowel bar, tierod, admixtures, polypropylene fiber as approved, curing compound, finishing to lines and grades as per drawing							
	provisional quantity			0.00			0.00	
							0.00	**Cum**
75	Supplying and adding Organosilane Nanotechnology Additive (such as Zycotherm or approved equivalent) to the bitumen binder at the Hot Mix Asphalt (HMA) plant at a dosage of 0.1% by weight of bitumen to achieve enhanced chemical bonding, complete aggregate coating, improved moisture resistance, and consistent compaction in various bituminous mixes such as Bituminous Macadam (BM), Dense Bituminous Macadam (DBM), Bituminous Concrete (BC) etc., including supply, transportation, storage, uniform blending with bitumen, testing, and all incidental operations complete in all respects as per manufacturer's specifications, relevant IRC and MORTH guidelines, and as directed and with prior approval by the Engineer-in-Charge							
	QTY Against			Constant	Qty			
	BM - 3.0%			0.0660	22.00		1.45	
	BM - 3.5%			0.0770	4519.22		347.98	
	DBM - 4.5%			0.0990	7565.06		748.94	
	BC - 6.25%			0.1440	0.00		0.00	
							1098.37	**kg**
D	**Miscellaneous Items for Reparing Work**							
76	Providing and fixing on walls/ ceiling/ floor mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.							
A	15 mm Dia		45		10.00		**450.00**	**Rmt**
B	25 mm Dia		25		10.00		**250.00**	**Rmt**
C	32 mm Dia		10		10.00		**100.00**	**Rmt**
D	40 mm Dia		10		5.00		**50.00**	**Rmt**
E	50 mm Dia		5		10.00		**50.00**	**Rmt**
77	Providing and making ISI Mark ferrule connection of 15 mm dia. to water main including ferrule coupling cast iron bell mouth cover. built in non return valve and fixing including excavation and reinstatement complete.							
			1	1		30.00	30.00	
						Total Qty	**30.00**	**No**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
78	Providing and making ISI Mark ferrule connection of 50mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete							
		1	1		10.00		10.00	
					Total Qty		**10.00**	**No**
79	Providing , laying and fixing ,jointing Eco- drain mm SN 8 Nu- Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete.							
A	110 mm Dia	1	30		3.00		**90.00**	**Rmt**
B	160 mm Dia	1	20		2.50		**50.00**	**Rmt**
80	Providing fly ash brick masonry with conventional / I.S. type fly ash bricks in C.M. 1:6 in foundation and plinth including bailing out water manually striking joints, racking out joints watering and scaffolding etc. Complete							
							45.00	
					Total Qty		**45.00**	**Cum**
81	Providing coursed rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually , striking joints inside and raking out joints from outside and watering etc.complete							
							35.00	
					Total Qty		**35.00**	**Cum**
82	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.							
							40.00	
					Total Qty		**40.00**	**Cum**
83	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/ pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)							
							10.00	
					Total Qty		**10.00**	**Cum**
84	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish. to concrete, brick surface, in all positions including scaffolding and curing etc.complete.							
							100.00	
					Total Qty		**100.00**	**Cum**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
85	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.							
							50.00	
					Total Qty		**50.00**	**Sqm**
86	Providing and applying priming coat on concrete/ masonary/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.							
	for Road Divder			283.07		0.50	141.53	
	Ded chauk / puncture	-2	6	50.00		0.50	-300.00	
	for footpath	1	2	283.07		0.30	169.84	
	Ded chauk / puncture	-2	6	50.00		0.30	-180.00	
	for compund wall						200.00	
					Total Qty		**31.37**	**Sqm**
87	Providing and applying two coats of exterior weather shield paint of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary and watering the surface for two days etc complete. NOTE: For Item One Number 15 to 18 prior approval of Superintending Engineer will be necessary							
							200.00	
					Total Qty		**200.00**	**Sqm**
88	Providing and applying two coats of flat oil paint of approved colour to the old structural steel work and iron work previously painted in building including scaffolding, if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.							
							250.00	
					Total Qty		**250.00**	**Sqm**
89	Providing and applying two coats (exterior quality) of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat							
	Same as Item No. 86						31.37	
					Total Qty		**31.37**	**Sqm**
90	Providing and laying matt finish ceramic tiles of having size 30 cm x 30 cm confirming to .S.15622/2006 (group D II-A) and 7 to 8 mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour cement slurry cleaning curing etc. complete.							
							25.00	
					Total Qty		**25.00**	**Sqm**
91	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentiDeleted ire 0.75 mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6 mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.							
							50.00	

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
					Total Qty		**50.00**	**Rmt**
92	Providing and fixing Guard Railing of 1000mm height as per Type D Drg. No. 15 dt. 20-4-79, and fixed in 40 x 40 x 6mm iron, angle embedded in 1:2:4 cement concrete bedding patti as per detailed drawing, with 3 coats of approved of yellow and black paint.							
							10.00	
					Total Qty		**10.00**	**Rmt**
93	Providing railing of cast in situ R.C.C posts with (M-20) cement concrete trap / granite / quartzite / gneiss metal size 150 mm x 150 mm x 1.240 mm and horizantal 3 nos. at distance 370 mm C/C and bottom bar 150 mm above kerb as per the detailed drawings (including cost of reinforcement) scaffolding,steel centering, plywood/steel formwork etc. complete. The C.M. 1:3 plaster is considered for renderinguneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering/formwork will not be allowed).							
							30.00	
					Total Qty		**30.00**	**Rmt**
94	Providing and laying in situ / ready mix M20 cement concrete of trap /granite /quartzite /gneiss metal for approach slab including compacting, finishing, curing etc. complete. (excluding reinforcement) (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with Natural / VSI standard Artificial Sand, cement6.40 bags/cumt)							
							25.00	
							25.00	**Cum**
95	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.							
		2	1	10.00	0.75	150.000	2250.00	kg
							2.25	**MT**
96	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.							
							10.00	
							10.00	**Cum**
97	Providing and laying in-situ M30 Grade unreinforced plain cement concrete pavement over a prepared subbas with 43 grade cement ,coarse and fine aggregate (natural sand/VSI grade finely washed crushed sand) conforming to IS383. using fine and coarse aggregates combined gradation asper Table 600-3 of MORTH Specification 2013, mixed in a batching and mixing plant/non tilting mixer and Weigh batcher as per approved mix design,admixtures, transporting to suring 80mm at bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge. with fully automaticmicro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.							
							50.00	
							50.00	**Cum**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT. LTD.

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
98	Providing and laying telephone black / Amba White / Cadburybrown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete							
							50.00	
							50.00	**Sqm**
99	Providing and erectingc hain link fencing1.6M. height with G.I.chain link of size 50 x50mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S.Angles of 40x40x6 mm size, includind excavating pits for foundation and embedded in C.C.block of 1:4:8 mix of size 450x450x670 mm. at 1.75M. c/c with iron bar 16mmdia as hold fast including welding link with angle frame at 30cmc/c withnuts and bolts and horizontal M.S. Angles at top and bottom of 25x25x5 mm size and vertical M.S. flat 35x5mm and 25x5 mm horizontal including cross support of 40x40x6mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450x450x670 mm including 3 coats of oil painting etc. complete							
							50.00	
							50.00	**Rmt**
100	Providing and fixing mild steel grill gate with angle iron frame 65mmx65mmx10mm with iron bars at 150mm C/C and diagonal flats as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade Weight of gate 35 Kilogram/ Smt							
							10.00	
							10.00	**Sqm**
101	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/ One SquareMetre as per drawing including fixtures, necessary weldingand painting with onecoats of anticorrosivepaint and twocoatsof oil painting complete.							
							10.00	
							10.00	**Sqm**
E	**Road Furniture**							
102	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.complete.							
	Divider Line	1	2	5661	0.15		1698.39	
	footpath line	1	2	5661	0.15		1698.39	
	center line 1 m c/c	1	2	2831	0.10		566.13	
	Zebra	5	5	50	0.30		375.00	
	Stop line	8	5	50	0.30		600.00	
							4937.91	**Sqm**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT. LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
103	Supplying and Fixing of Molded Shank Raised Pavement Markers / Cat's Eye made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 +/- 2 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer.								
	1 m c/c	1	2	5661.30			11323.00	
	at zebra stop line	8	1	50.00			400.00	
							11723.00	**No**
104	Supplying of Solar Raised Pavement Markers made of polycarbonate molded body with circular shape, solar powered, LED self illumination in active mode, 360 degree illumination and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The marker shall support a load of 20000 kg tested in accordance to ASTM D 4280. The marker should be resistant to dust and water ingress according to IP 65 standards and should withstand temperatures in the range of 0 C to 70 C. Color of lighting could be provided in red or yellow (amber) as per requirement and typical frequency of blinking is 1 Hz. There should be current losses of less than 20 micro-amperes at 2.4 V in sleep-charging mode to enhance the life of the marker and a full charge should provide for a minimum autonomy of 50 hours. The height, width and length of the marker shall not be less than 10 mm x 100 mm x 100 mm. Also, the surface diameter of the marker shall not be less than 100 mm respectively. The weight of the marker shall not exceed 0.5 Kilograms. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive and complete as directed by the engineer.The contractor shall submit a two year warranty for satisfactory field performance including stipulated retroreflectance of the reflecting panel, to the Engineer.								
							40	
						Total Qty	**40.00**	**No**
105	Providing and Fixing of Median Marker that are made of tough, high impact resistant, injection-molded, thermoplastic body with an isosceles trapezoidal structure of length, width and height not less than 15cm, 10cm and 10cm respectively and thickness not less than 1.8mm, the body structure shall be rounded at its acute angle, all the corners and edges. The plastic used for molding the Median Marker shall have a minimum Notched Izod Impact strength value of 600 J/m at room temperature, when tested in accordance with ASTM D256 and shall retain at least 70% of this value when subjected to accelerated weathering for 1000hrs as per ASTM G155 or UL746C. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The Median Marker shall have rectangular-shaped, fluorescent yellow color retro- reflective sheeting of size not less than 8.5cm*8.5cm and with fully reflective micro prismatic cube corners as its retro-reflective elements as per IRC 67 2010 and ASTM D4956 type XI specifications reflectivity values. The retro-reflective sheeting shall be one or both sides of the Median Marker and shall be edge protected with no exposed edges which will prevent edge lifting, vandalism, sheeting damage, etc. The Median Marker shall be fixed by a combination of epoxy adhesive and grouting								
							25.00	
						Total Qty	**25.00**	**No**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
106	Road Delineators: Supplying and installation of delineators (Roadway Indicators, Hazard markers, Object markers) 80 to 100 cm high above ground level, painted black and white in 15 cm wide strips, fitted with 80x100mm rectangular or 75mm dia. Circular reflectorised panels at the top, buried or pressed into the ground and confirming to I.R.C. 79 and the drawings							
		2	25				50.00	
					Total Qty		**50.00**	**No.**
107	Providing and fixing steel pipe delineators of 10 cm. in diameter and total height of 130 cm, provided with 2 strips of white retroreflective sheeting of size 5 cm. x 32.5 cm. each fixed horizontally and 2 strips of red retroreflective sheeting each having size 5 cm. x 32.5 cm. fixed horizontally at top, with M.S. round cap having diameter 11 cm. and wire mesh at top (10 guage thick) and height of wire mesh 15 cm, M.S. hold fast 6 mm thick with 35 cm. in length, fixing the delineators in C.C. 1:4:8 concrete block of size 25 cm. x 25 cm. x 45 cm. with necessary excavation etc. complete.							
		1	2		25.00		50.00	
					Total Qty		**50.00**	**No.**
108	Providing and fixing Mandatory/Regulatory sign boards in circular shape of___ mm dia made out of ____aluminum sheet bonded with white retro reflective sheeting of Class C (Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67- 2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Class C (Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.							
b	600 mm dia made out of 3mm aluminum composite material						20.00	**No.**
d	750 mm dia made out of 4mm aluminum composite material						20.00	**No.**
109	Providing and fixing Cautionary/Warning sign boards in Equilateral Triangle size of ___mm made out of____ mm aluminum sheet bonded with white retro reflective sheeting of Class C (Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67- 2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. ClassC (Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier							

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
b	600 mm made out of 3mm aluminum composite material	2	2		5.00		15.00	**No.**
d	750 mm made out of 4mm aluminum composite material	2	2		5.00		25.00	**No.**
f	900 mm made out of 4mm aluminum composite material	2	2		5.00		25.00	**No.**
110	Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area less than 0.9 One Square Meterr made out of ____mm aluminum sheet bonded with white retro reflective sheeting of Class __ (Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on one no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity microprismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the							
d	4mm aluminum composite material Class C							
		1	15	1.20	0.90		16.20	
		1	15	0.90	0.60		8.10	
					Total Qty		**24.30**	**Sqm**
111	Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area greater than 0.9 square meter made out of__aluminum sheet bonded with white retro reflective sheeting of Class ____ (Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on two no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity microprismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued							
d	4mm aluminum composite material Class C							
		1	15	1.20	0.90		16.20	
		1	15	0.90	0.60		8.10	
					Total Qty		**24.30**	**Sqm**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
112	Providing and erecting Overhead signs made out of __aluminum sheet bonded with white retro reflective sheeting of Class ___(Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67-2012, with designed back support frame of mild steel angle with vertical and lateral clearance given in clause 801 and 802, duly painted on back side with two coats of grey stove enamel paint and installed as per clause 802.6 over a designed support system of structural steel work trestles and trusses of sections and type as per structural design requirements and approved plans including painting with one coat of epoxy primer and two coats of epoxy finish paint.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity micro-prismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in							
d	4mm aluminum composite material Class C							
		1	5	1.20	0.90		5.40	
		1	5	0.90	0.60		2.70	
					Total Qty		**8.10**	**Sqm**
113	Metal Beam Crash Barrier- -Type A,W: Metal Beam Crash Barrier (Providing and erecting a W metal beam crash barrier comprising of 3mm thick corrugated sheet metal beam rail, 70 cm above road/ ground level, fixed on ISMC serieschannel vertical post,150x75x5mm spaced 2m centre to centre, 1.8m high, 1.1m below ground/ road level, all steel part sand fitments to be galvanised by hot dipprocess, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section150x75x5 mm, 330 mm long complete as per clause 810)""							
							50.00	
					Total Qty		**50.00**	**Rmt**
114	Providing and Constructing gabion structure 1Meter hight or required section made up of soft mechanically woven hexagonal shapedG.I. wire confirming to IS 16014:2012 having zinc plus PVC coating of overall diameterof 3.7mm and tying lacing wire of 3.2 mm with edge wire confirming to overall diameter 4.4 mm edges being mechanically selvedge including placing in position, fitting neatly with trap stone rubble (15 to 23 cm) all loose ends to be securely tied (Excluding transportation) etc. complete .(In Dry condition and for under water installation extra cost to be considered)							
							20.00	
					Total Qty		**20.00**	**Cum**
F	**Providing Public Utilities**							
115	Public Seating Chair. - 3 Seater Providing and Fixing 3 seater Public seating chair made of complete metal with Legs in Crome finish and seates in silver powder coating finish.							
	For Roads	2	3				6.00	
							6.00	**No**
116	Providing and fixing stainless steel bollard of steel pipe 1.00 metre long of 250 mm inner diameter and circular top plate of 350 mm diameter with 5 mm thickness on deck of jetty in cement concrete including necessary fixtures and fastening etc. complete. (Stainless steel of grade S-304)							
	Four Chowks	2	10				20.00	
							20.00	**No**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

CIVIL TECH INDIA PVT LTD

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
117	Royalty charges for murum dubber should be paid by the contractor regularly to the government and contractor should produce delivery challon, payment receipt, pakka bill etc. complete alongwith every R.A. bill \ final bill as applicable.(It is entirely responsibility of contractor to pay Royalty charges to the Government)							
I no	**item**			**Qty**		**constant**	**Total Qty**	
a	for murum / Rubble /	Sr. No.81 & 82		75.00		1.160	87.00	
b	Earth work Embankment	Sr. No.42		100.00		1.250	125.00	
c	Supplying hard murum/ kankar at the road site, including conveying and stacking complete. Sp. No. Rd. 23 P.No. 202	Sr. No.43		5829.11		1.000	5829.11	
d	for Rubble Soling	Sr. No.96 & 114		30.00		1.250	37.50	
							6078.61	**Cum**
e	for Sand	Sr. No.84		100.00		0.025	2.50	
	for Sand	Sr. No.85		50.00		0.033	1.65	
							4.15	**Cum**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC
Nashik.

Deputy Engineer
PWD Satpur, NMC
Nashik.

Executive Engineer
PWD Satpur, NMC
Nashik

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
1	2	3	4	5	6	7	8	9	11	12	13
1	Providing earthwork Departmental Land.	20.00	Cubic Metre	Earth	1.00000	20.00	31	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
					0.0000	0.00	33	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
2	Providing earthwork from Other sources.	100.00	Cubic Metre	Earth	1.00000	100.00	31	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
					0.0000	0.00	33	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
3	Supplying Hard Murum	5829.11	Cubic Metre		0.0000	0.00	29	SOIL / MURUM Sieve Analysis test.	60	725.00	43500.00
				Murum	1.0000	5795.26	30	SOIL / MURUM Liquid limit & plastic Limit test.	60	1230.00	73800.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	60	7250.00	435000.00
4	G.S.B. with Gr.I close graded Material by Plant Mix Method.	11658.21	Cubic Metre		0.0000	0.00	8	G.S.B. Mix Design test.	1	17065.00	17065.00
				Cr.Metal	1.2800	14835.86	3	BASIC TEST OF AGGREGATE. Sieve Analysis	51	725.00	36975.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	52	1230.00	63960.00
							31	SOIL / MURUM Compaction Test (Proctor Density).	80	1955.00	156400.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	63	7250.00	456750.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
							33	SOIL / MURUM C.B.R. test (Field determination test)	165	2730.00	450450.00
5	W.B.M. with Grading-I.Using Screening Type-A	3006.00	Cubic Metre	Murum	0.08000	240.48	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	18	2730.00	49140.00
				Cr.Metal	0.2700	811.62	3	BASIC TEST OF AGGREGATE. Sieve Analysis	18	725.00	13050.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	18	895.00	16110.00
				Metal	1.2100	3637.26	29	SOIL / MURUM Sieve Analysis test.	1	725.00	725.00
							30	SOIL / MURUM Liquid limit & plastic Limit test.	5	1230.00	6150.00
6	W.B.M.with Grading-II.Using Screening Type-B.	1503.00	Cubic Metre	Murum	0.08000	120.24	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test	3	2730.00	8190.00
				Cr.Metal	0.2400	360.72	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	9	725.00	6525.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	5	895.00	4475.00
				Metal	1.2100	1818.63	29	SOIL / MURUM Sieve Analysis test.	1	725.00	725.00
							30	SOIL / MURUM Liquid limit & plastic Limit test.	3	1230.00	3690.00
7	Wet Mix Macadam	9562.77	Cubic Metre		0.0000	0.00	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	15	2730.00	40950.00
				Cr.Metal	1.2100	11468.55	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	65	725.00	47125.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
					0.0000		5	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	23	895.00	20585.00
					0.0000		9	Wet Mix Macadam Mix Design test.	1	17065.00	17065.00
							30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							33	SOIL / MURUM C.B.R. test (Field determination test)	64	2730.00	174720.00
8	Providing and laying Cast in situ/ Ready Mix cement concrete in Mix-15of trap/ granite/ quartzite/ gneiss metal for steps including steel centering, plywood/steel formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will	0.00	Cubic Metre	Cement	0.30000	0.00	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	0	725.00	0.00
							10	FINE AGGREGATES, Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
9	Dry Lean Cement Concrete	15.00	Cubic Metre	Cement	0.22000	3.30	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4700	7.05	3	BASIC TEST OF AGGREGATE, Sieve Analysis test	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	1	895.00	895.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
10	M-20 for R.C.C. beams and lintels with natural/ V.S.I. sand	5.00	Cubic Metre	Cement	0.35000	1.75	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	0	725.00	0.00
				Sand	0.4250	2.13	3	BASIC TEST OF AGGREGATE. Sieve Analysis	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
11	TMT FE-500 bar reinforcement for R.C.C.	0.10	Metric Tonne	Steel	1.00000	0.10	72	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1	1340.00	1340.00
					0.0000	0.00	73	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	1	1675.00	1675.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
12	Providing and laying in-situ M-40 Grade unreinforced plain cement concrete pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate (Natural Sand/ VSI grade finely washed Crushed Sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, admixtures, spreading, laying, compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound/ by providing cement vata in cement Mortar 1:8 of 0.6 metre x 0.6 metre centre to centre, admeasuring 80 milimetre at bottom and 40 milimetre at top with depth of 75 milimetre and maintaining the same throughout curing period/ by any other method approved by Engineer-in-charge.	30.00	Cubic Metre	Cement	0.42500	12.75	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	3	725.00	2175.00
				Sand	0.4000	12.00	3	BASIC TEST OF AGGREGATE. Sieve Analysis	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
							21	CONCRETE Flexural strength of Beam test.	2	780.00	1560.00
13	Coloured Paving Blocks 60 mm thick.	20.00	Square Metre		0.0000	0.00	26	CONCRETE PAVING BLOCKS Compressive Strength,Water Absorption test (Set of 8 Blocks).	1	2620.00	2620.00
14	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 milimetre thickness of having a strength of 300 kilogram per square centimetre of approved quality and shape on a bed of crushed sand of 25 to 30 milimetre thick including skirting joints and cleaning etc. complete	50.00	Square Metre		0.0000	0.00	26	CONCRETE PAVING BLOCKS Compressive Strength,Water Absorption test (Set of 8 Blocks).	1	2620.00	2620.00
15	75 mm M.P.M. on W.B.M. with 70% Hand Broken Metal.	100.00	Square Metre	Bitumen	0.00200	0.20	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	1	2730.00	2730.00
				Cr.Metal	0.0450	4.50	3	BASIC TEST OF AGGREGATE. Sieve Analysis test	2	725.00	1450.00
				Metal	0.0630	6.30	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							6	BASIC TEST OF AGGREGATE. Stripping Value	1	780.00	780.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							41	BITUMEN Viscosity test.	1	2005.00	2005.00
16	75 mm M.P.M. on B.T. with 70% Hand Broken Metal.	100.00	Square Metre	Bitumen	0.00230	0.23	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	1	2730.00	2730.00
				Cr.Metal	0.0450	4.50	3	BASIC TEST OF AGGREGATE. Sieve Analysis	2	725.00	1450.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
				Metal	0.0630	6.30	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							6	BASIC TEST OF AGGREGATE. Stripping Value	1	780.00	780.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							41	BITUMEN Viscosity test.	1	2005.00	2005.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	10	3290.00	32900.00
							41	BITUMEN Viscosity test.	10	2005.00	20050.00
17	B.M. Gr-I with Batch Mix SCADA with 3% Bitumen VG-30.	22.00	Cubic Metre	Bitumen	0.07260	1.60	47	B.M. Mix Design with all Tests on aggregate and bitumen.	1	11155.00	11155.00
				Cr.Metal	1.4100	31.02	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
					0.0000		6	BASIC TEST OF AGGREGATE. Stripping Value	1	780.00	780.00
				Bituminous Mix	1.4100	31.02	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	1	2730.00	2730.00
							51	Density test of Bituminous Core.	1	665.00	665.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							41	BITUMEN Viscosity test.	1	2005.00	2005.00
							43	BITUMEN Extraction Test.	10	1675.00	16750.00
							3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
							44	Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	4125.00	8250.00
18	B.M. Gr-I 3.5% PLC Batch Mix SCADA, VTS, Sensor Paver with VG 30.	4519.22	Cubic Metre	Bitumen	0.07260	325.19	47	B.M. Mix Design with all Tests on aggregate and bitumen.	1	11155.00	11155.00
				Cr.Metal	1.4100	6315.71	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	19	895.00	17005.00
					0.0000		6	BASIC TEST OF AGGREGATE. Stripping Value	1	780.00	780.00
				Bituminous Mix	1.4100	6315.71	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	32	2730.00	87360.00
							51	Density test of Bituminous Core.	135	665.00	89775.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	33	3290.00	108570.00
							41	BITUMEN Viscosity test.	33	2005.00	66165.00
							43	BITUMEN Extraction Test.	20	1675.00	33500.00
							3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	20	725.00	14500.00
							44	Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	10	4125.00	41250.00
19	D.B.M. 4.5% SCADA Batch Mix with VG-30 and Stone Dust Filler.	7565.06	Cubic Metre	Bitumen	0.10350	776.05	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	33	2730.00	90090.00
				Cr.Metal	1.5280	11457.11	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	33	895.00	29535.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
					0.0000		44	Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	4125.00	8250.00
							51	Density test of Bituminous Core.	220	665.00	146300.00
							46	Job Mix Design with all Basic Tests on aggregate bitumen for DBM/SDBC/AC.	1	20355.00	20355.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	78	3290.00	256620.00
							41	BITUMEN Viscosity test.	78	2005.00	156390.00
							43	BITUMEN Extraction Test.	42	1675.00	70350.00
							45	Marshall Stability & Flow measurement test. (Set of 3 moulds).	42	1170.00	49140.00
20	B.C. Gr-I Batch Mix SCADA, VTS, Sensor Paverwith 6.25% VG 30.	5043.37	Cubic Metre	Bitumen	0.12960	647.84	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	23	2730.00	62790.00
				Cr.Metal	1.5720	7858.02	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	23	895.00	20585.00
					0.0000		44	Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	4125.00	8250.00
							51	Density test of Bituminous Core.	150	665.00	99750.00
							46	Job Mix Design with all Basic Tests on aggregate bitumen for DBM/SDBC/AC.	1	20355.00	20355.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	65	3290.00	213850.00
							41	BITUMEN Viscosity test.	65	2005.00	130325.00
							43	BITUMEN Extraction Test.	28	1675.00	46900.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

QUALITY CONTROL

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
							45	Marshall Stability & Flow measurement test. (Set of 3 moulds).	28	1170.00	32760.00
21	Road Marking with Hot Applied Thermoplastic Compound.	4937.91	Square Metre		0.0000	0.00	75	PAINT / THERMO-PLASTIC PAINT Glass bead contents & grading analysis Test.	1	4070.00	4070.00
					0.0000	0.00	76	PAINT / THERMO-PLASTIC PAINT Reflectance & yellowness index Test.	1	1170.00	1170.00
					0.0000		77	PAINT / THERMO-PLASTIC PAINT Flowability (Percentage residue) Test.	1	1170.00	1170.00
					0.0000		78	PAINT / THERMO-PLASTIC PAINT Softening Point (Ring & ball method) Test.	1	1060.00	1060.00
							79	PAINT / THERMO-PLASTIC PAINT Drying Time Test.	1	835.00	835.00
								Total Quality Control Testing Charges			**Rs.42,58,965.00**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC
Nashik.

Deputy Engineer
PWD Satpur, NMC
Nashik.

Executive Engineer
PWD Satpur, NMC
Nashik

NASHIK MUNICIPAL CORPORATION

ABSTRACT SHEET

Name of Work:- Development of road from ,Bardan phata to Sula Chowk (linking outer parking to internal parking/ Trimbak Road link road)

No	SSR No.	Description	Qty	Rate	Per	Amount
B	Water Supply Lines					
1	R.A.	Providing Dl Pipes (push on joints pressure pipes of Dl of following class & Dia meters confirming to the lndian Standard Specification inclusive cost of jointing materials (Rubber Gasket of EPDM Quality) including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, Third Party lnspection charges of TPI agency approved by the MJP including transit insurance, Railway freight, unloading from railway wagon, loading in to the truck, transportation to departmental store / site of work, unloading, stacking etc. completed as directed by Engineer-in-Charge (lS:1536:2001 for pipes & IS:158:1969 & 15:12820:1989 or latest edition / revision with amendments for rubber gaskets). (lS:8329:2000 latest version) MJP DSR Page no 53 Sr No 3				
		SECTION-I(I) C.I./D.I. PIPES (69)				
		D.I. K – 7				
		i) 100 mm Dia.	10.00	1209.00	Rmt	12090.00
		ii) 150 mm Dia.	10.00	1686.00	Rmt	16860.00
		iii) 200 mm Dia.	10.00	2236.00	Rmt	22360.00
		iv) 250 mm Dia.	10.00	2906.00	Rmt	29060.00
		v) 300 mm Dia.	10.00	3571.00	Rmt	35710.00
		vi) 350 mm Dia.	10.00	4465.00	Rmt	44650.00
		vii) 400 mm Dia.	10.00	5328.00	Rmt	53280.00
		viii) 450 mm Dia.	10.00	6346.00	Rmt	63460.00
2	R.A.	Providing and supplying ISI standard CI flanged / S& S specials including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, railway freight, insurance, unloading from railway wagon, loading into truck transport to departmental store /site, unloading stacking etc. complete. MJP DSR Page no 72 Sr No 6 (a)				
		SECTION-I(I) C.I./D.I. PIPES (70)				
		D/F specials up to 300 mm	473.47	88.00	kg	41664.92
		Above 350 mm upto 600 mm dia.	200.00	94.00	kg	18800.00
3	R.A.	Supply of C. I. Mechanical Compression Flanged / Socket Tail piece(Popularly known as I TM Flanged / Socket Tailpiece) suitable for making flanged connection with the plain barrel of C. I. Spun Pipes (as per - IS - 1536 /2001) and D. I. Pipes (as per IS: 8329 / 2000).The Tailpiec to be supplied complete with sealing rubber gasket of S.B.R,.C.I.. Follower Glands and M.S. Nut Bolts.The whole assembly should be mechanically and hydraulically tested to the provisions as laid down in IS:1538 /1993. The rates are inclusive of cost of material. forwarding charges.including all statutary duties and taxes such as GST levied by Gol and GoM in all respect. loading. transportation and unloading at departemental store etc. complete as directed. Consignee but exclusive of octroi. MJP DSR Page No. 143 Sr.No. 1				
		SECTION-I(XIII) MECHANICLA JOINTS/				
		80 mm Dia.	10.00	1311.00	No	13110.00
		100 mm Dia.	10.00	1430.00	No	14300.00
		125 mm Dia.	10.00	1800.00	No	18000.00
		150 mm Dia.	10.00	2574.00	No	25740.00
		200 mm Dia.	10.00	3335.00	No	33350.00
		250 mm Dia.	10.00	5031.00	No	50310.00
		300 mm Dia.	10.00	5632.00	No	56320.00
		350 mm Dia.	10.00	7427.00	No	74270.00

NASHIK MUNICIPAL CORPORATION

ABSTRACT SHEET

No	SSR No.	Description	Qty	Rate	Per	Amount
		400mm Dia.	10.00	9694.00	No	96940.00
		450mm Dia.	10.00	11380.00	No	113800.00
4	R.A.	Supply of C.I. mechanical compression collar coupling suitable for C.I. spun pipes (as per IS-1536/2001) and complete with sealing rubber gasket of SBR, C.I., follower glands and M.S. nut bolts. The whole assembly should be mechanically and hydraulically tested to the provisions as laid down in IS:1538/1993) including all statutary duties and taxes such as GST levied by GoI and GoM in all respect,MJP DSR Page No. 143 Sr.No. 2				
		SECTION-I(XIII) MECHANICLA JOINTS / FITTING (161)				
		80 mm Dia.	5.00	826.00	No	4130.00
		100 mm Dia.	5.00	886.00	No	4430.00
		125 mm Dia.	5.00	1181.00	No	5905.00
		150 mm Dia.	5.00	1593.00	No	7965.00
		200 mm Dia.	5.00	1818.00	No	9090.00
		250 mm Dia.	5.00	2914.00	No	14570.00
		300 mm Dia.	5.00	3729.00	No	18645.00
		350 mm Dia.	5.00	4597.00	No	22985.00
		400 mm Dia.	5.00	7154.00	No	35770.00
		450 mm Dia.	5.00	8033.00	No	40165.00
5	R.A.	Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in-charge (including cost of machinery, labour, fuel), etc. complete. MJP DSR Page No. 34 Sr.No. 1				
		SECTION-EXCAVATION (40)				
			50.00	93.45	Bhp/hr	4672.50
6	R.A.	Providing and supplying ISI standard MS specials of required thickness with 3 coats of approved make epoxy paint (Shalimar, Ciba or Mahindra & Mahindra make) from inside and outsideincluding all statutory duties & taxes such as GST levied by GOI & GOM in all respect, inspection charges, transportation to stores / site, and stacking, etc. complete. MJP DSR Page no 72 Sr No 7 (d)				
		SECTION-I(I) C.I./D.I. PIPES (70)				
		D/F of all diametors	30.00	95.00	kg	2850.00
7	R.A.	Providing and making flanged joints to flanged C.I./M.S. pipes of all classes/specials etc. including cost of all jointing materials (rubber packing, nut bolts, etc.), labour, hydraulic testing etc. complete. MJP DSR Page No. 56 Sr.No. 8				
		SECTION-I(I)C.I./D.I.PIPES (71)				
		80 mm Dia.	10.00	331.80	Joint	3318.00
		100 mm Dia.	10.00	571.20	Joint	5712.00
		150 mm Dia.	10.00	1146.60	Joint	11466.00
		200 mm Dia.	10.00	1188.60	Joint	11886.00
		250 mm Dia.	10.00	1703.10	Joint	17031.00
		300 mm Dia.	10.00	1769.25	Joint	17692.50
		450 mm Dia.	10.00	3508.05	Joint	35080.50
		600 mm Dia.	10.00	3898.65	Joint	38986.50
8	R.A.	Providing and making Mechanical joints to flanged C.I./M.S. pipes of all classes/specials etc. including cost of , labour, hydraulic testing etc. complete. MJP DSR Page No. Sr.No.				

NASHIK MUNICIPAL CORPORATION

ABSTRACT SHEET

No	SSR No.	Description	Qty	Rate	Per	Amount
		SECTION-I(I)C.I./D.I.PIPES (71)				
		80 mm Dia.	10.00	265.44	Joint	2654.40
		100 mm Dia.	10.00	456.96	Joint	4569.60
		150 mm Dia.	10.00	917.28	Joint	9172.80
		200 mm Dia.	10.00	950.88	Joint	9508.80
		300 mm Dia.	10.00	1415.40	Joint	14154.00
		450 mm Dia.	10.00	2806.44	Joint	28064.40
		600 mm Dia.	10.00	3118.92	Joint	31189.20
9	R.A.	Cutting and champhering of pipes of following diameters including cost of all materials and labour involved, etc. complete as directed by Engineer-in-charge (for all class of pipes). MJP DSR Page No. 137 Sr.No. 20				
		SECTION-I(XII) PIPES APPURTENANCES (156)				
		80 mm Dia.	10.00	52.50	No.	525.00
		100 mm Dia.	10.00	60.90	No.	609.00
		150 mm Dia.	10.00	94.50	No.	945.00
		200 mm Dia.	10.00	118.65	No.	1186.50
		300 mm Dia.	10.00	202.65	No.	2026.50
		450 mm Dia.	10.00	306.60	No.	3066.00
		600 mm Dia.	10.00	447.30	No.	4473.00
10	R.A.	Lowering laying and jointing with SBR ruber gaskets C.I. S/S pipes of various classes with CI / MS specials of following diameter in proper position, grade and alignment as directed by Engineer-in-charge including conveyance of material from stores to site of work, including cost of jointing materials and rubber rings labour, etc. complete. MJP DSR Page No. 54 Sr.No. 2				
		SECTION-I(I)C.I./D.I.PIPES (68)				
		80mm	10.00	61.95	Rmt	619.50
		100mm	10.00	75.60	Rmt	756.00
		150mm	10.00	100.80	Rmt	1008.00
		200mm	10.00	133.35	Rmt	1333.50
		300mm	10.00	189.02	Rmt	1890.20
		450mm	10.00	283.50	Rmt	2835.00
		600mm	10.00	429.45	Rmt	4294.50
11	R.A.	Providing ISI mark GI. pipe of following class and dia. including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, inspection charges, transportation to stores, etc. complete as per IS-1239/2004. G.I.PIPE - medium grade MJP DSR Page no 82 Sr No 1B	SECTION-(III):G.I PIPES (93)			
		b) Medium				
		15mm Dia.	10.00	105.00	Rmt	1050.00
		20mm Dia.	10.00	135.00	Rmt	1350.00
		25 mm Dia.	10.00	206.00	Rmt	2060.00
		40 mm Dia.	10.00	299.00	Rmt	2990.00
		50 mm Dia.	10.00	413.00	Rmt	4130.00
12	R.A.	Welding in all positions with required number of runs. for M. S. pipes internally and / or externally including gauging wherever necessary. fixing appurtenances and other accessories in connection with pipe laying work as per specification. MJP DSR Page No. 194 Sr.No. 7				
		Butt joints - 10 mm thick	SECTION-I(XVI) M. S. PIPE LAYING (186)			
			30.00	1484.70	Rmt	44541.00

NASHIK MUNICIPAL CORPORATION

ABSTRACT SHEET

No	SSR No.	Description	Qty	Rate	Per	Amount
13	R.A.	Gas cutting (either square cut or V cut) pipes, plates, etc. of thickness MJP DSR Page No. 196 Sr.No. 13	SECTION-I(XVI) M. S. PIPE LAYING (187)			
		5 to 10 mm thickness	10.00	156.45	Rmt	1564.50
		10 to 14mm thickness	10.00	200.55	Rmt	2005.50
14	R.A.	Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in C.M. 1:5 ProportionValve Chamber with Precast steel fibre reinforced concrete (S.F.R.C.) frame & covers. MJP DSR Page No. 235 Sr.No. 3				
		90x60x120 cm	7.00	16139.55	No	112976.85
		increase in depth of 30Cm	7.00	2048.55	30cm depth	14339.85
		90x90x120 cm	10.00	20466.60	No	204666.00
		increase in depth of 30Cm	10.00	2397.15	30cm depth	23971.50
		120x120x120 cm	10.00	25321.80	No	253218.00
15	R.A.	Providing and fixing in position steel fibre reinforced concrete (S.F.R.C.) frame and covers of approved make including loading, unloading, transportation, all taxes, etc. complete as directed by Engineer-in-charge (20 tonnes capacity) MJP DSR Page No. 137 Sr.No. 17				
		90x45 cm	10.00	3665.55	No	36655.50
		90x60 cm	10.00	3973.20	No	39732.00
16	R.A.	Lowering, laying and jointing G. I. pipes and specials of following class and diameter including conveyance from stores to site of works, all labour etc. complete either underground or in vertical position, as directed by Engineer-in-charge. MJP DSR Page No. 73 Sr.No. 2B	SECTION-I(III):G.I PIPES (94)			
		15mm Dia.	10.00	36.75	Rmt	367.50
		20mm Dia.	10.00	39.90	Rmt	399.00
		25 mm Dia.	10.00	48.30	Rmt	483.00
		40 mm Dia.	10.00	72.45	Rmt	724.50
		50 mm Dia.	10.00	85.05	Rmt	850.50
17	R.A.	Providing and making ISI Mark ferrule connection of 15 mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete. PWD DSR Page No. 551 Sr.No. 42.72 to 42.77				
		15mm Dia.	10.00	1310.40	No.	13104.00
		25 mm Dia.	10.00	2642.80	No.	26428.00
		50 mm Dia.	10.00	9391.20	No.	93912.00
	B	**Water Supply Lines**		**Total Rs**		**2152825.02**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC
Nashik.

Deputy Engineer
PWD Satpur, NMC
Nashik.

Executive Engineer
PWD Satpur, NMC
Nashik

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

Name of Work:- Development of road from ,Bardan phata to Sula Chowk (linking outer parking to internal parking/ Trimbak Road link road)

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
1	Providing Dl Pipes (push on joints pressure pipes of Dl of following class & Dia meters confirming to the Indian Standard Specification inclusive cost of jointing materials (Rubber Gasket of EPDM Quality) including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, Third Party Inspection charges of TPI agency approved by the MJP including transit insurance, Railway freight, unloading from railway wagon, loading in to the truck, transportation to departmental store / site of work, unloading, stacking etc. completed as directed by Engineer-in-Charge (IS:1536:2001 for pipes & IS:158:1969 & 15:12820:1989 or latest edition / revision with amendments for rubber gaskets). (IS:8329:2000 latest version) MJP DSR Page no 53 Sr No 3							
	D.I. K – 7							
	i) 100 mm Dia.		1	10			**10.00**	**Rmt**
	ii) 150 mm Dia.		1	10			**10.00**	**Rmt**
	iii) 200 mm Dia.		1	10			**10.00**	**Rmt**
	iv) 250 mm Dia.		1	10			**10.00**	**Rmt**
	v) 300 mm Dia.		1	10			**10.00**	**Rmt**
	vi) 350 mm Dia.		1	10			**10.00**	**Rmt**
	vii) 400 mm Dia.		1	10			**10.00**	**Rmt**
	viii) 450 mm Dia.		1	10			**10.00**	**Rmt**
2	Providing and supplying ISI standard CI flanged / S& S specials including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, railway freight, insurance, unloading from railway wagon, loading into truck transport to departmental store /site, unloading stacking etc. complete. MJP DSR Page no 72 Sr No 6 (a)							
	SECTION-I(I) C.I./D.I. PIPES (70)							
	D/F specials up to 300 mm		1	473			473	**kg**
	Above 350 mm upto 600 mm dia.		1	200			200	**kg**
							673.47	kg
3	Supply of C. I. Mechanical Compression Flanged / Socket Tail piece(Popularly known as I TM Flanged / Socket Tailpiece) suitable for making flanged connection with the plain barrel of C. I. Spun Pipes (as per - IS - 1536 /2001) and D. I. Pipes (as per IS: 8329 / 2000).The Tailpiec to be supplied complete with sealing rubber gasket of S.B.R,.C.I.. Follower Glands and M.S. Nut Bolts.The whole assembly should be mechanically and hydraulically tested to the provisions as laid down in IS:1538 /1993. The rates are inclusive of cost of material, forwarding charges,including all statutary duties and taxes such as GST levied by Gol and GoM in all respect, loading, transportation and unloading at departemental store etc. complete as directed. Consignee but exclusive of octroi. MJP DSR Page No. 143 Sr.No. 1							
	SECTION-I(XIII) MECHANICLA JOINTS/ FITTING							
	80 mm Dia.		10				10	**No**
	100 mm Dia.		10				10	**No**
	125 mm Dia.		10				10	**No**
	150 mm Dia.		10				10	**No**
	200 mm Dia.		10				10	**No**
	250 mm Dia.		10				10	**No**
	300 mm Dia.		10				10	**No**
	350 mm Dia.		10				10	**No**
	400mm Dia.		10				10	**No**
	450mm Dia.		10				10	**No**

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
4	Supply of C.I. mechanical compression collar coupling suitable for C.I. spun pipes (as per IS-1536/2001) and complete with sealing rubber gasket of SBR, C.I., follower glands and M.S. nut bolts. The whole assembly should be mechanically and hydraulically tested to the provisions as laid down in IS:1538/1993) including all statutary duties and taxes such as GST levied by GoI and GoM in all respect,MJP DSR Page No. 143 Sr.No. 2							
	SECTION-I(XIII) MECHANICLA JOINTS / FITTING (161)							
	80 mm Dia.		5				**5.00**	**No**
	100 mm Dia.		5				**5.00**	**No**
	125 mm Dia.		5				**5.00**	**No**
	150 mm Dia.		5				**5.00**	**No**
	200 mm Dia.		5				**5.00**	**No**
	250 mm Dia.		5				**5.00**	**No**
	300 mm Dia.		5				**5.00**	**No**
	350 mm Dia.		5				**5.00**	**No**
	400 mm Dia.		5				**5.00**	**No**
	450 mm Dia.		5				**5.00**	**No**
5	Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in-charge (including cost of machinery, labour, fuel), etc. complete. MJP DSR Page No. 34 Sr.No. 1							
	SECTION-EXCAVATION (40)							
			1	5	10		**50.00**	**Bhp/hr**
6	Providing and supplying ISI standard MS specials of required thickness with 3 coats of approved make epoxy paint (Shalimar, Ciba or Mahindra & Mahindra make) from inside and outsideincluding all statutory duties & taxes such as GST levied by GOI & GOM in all respect, inspection charges, transportation to stores / site, and stacking, etc. complete. MJP DSR Page no 72 Sr No 7 (d)							
	SECTION-I(I) C.I./D.I. PIPES (70)							
	D/F of all diametors		1	30			**30.00**	**kg**
7	Providing and making flanged joints to flanged C.I./M.S. pipes of all classes/specials etc. including cost of all jointing materials (rubber packing, nut bolts, etc.), labour, hydraulic testing etc. complete. MJP DSR Page No. 56 Sr.No. 8							
	SECTION-I(I)C.I./D.I.PIPES (71)							
	80 mm Dia.		10				**10.00**	**Joint**
	100 mm Dia.		10				**10.00**	**Joint**
	150 mm Dia.		10				**10.00**	**Joint**
	200 mm Dia.		10				**10.00**	**Joint**
	250 mm Dia.		10				**10.00**	**Joint**
	300 mm Dia.		10				**10.00**	**Joint**
	450 mm Dia.		10				**10.00**	**Joint**
	600 mm Dia.		10				**10.00**	**Joint**
8	Providing and making Mechanical joints to flanged C.I./M.S. pipes of all classes/specials etc. including cost of , labour, hydraulic testing etc. complete. MJP DSR Page No. Sr.No.							
	SECTION-I(I)C.I./D.I.PIPES (71)							

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
	80 mm Dia.		10				**10.00**	**Joint**
	100 mm Dia.		10				**10.00**	**Joint**
	150 mm Dia.		10				**10.00**	**Joint**
	200 mm Dia.		10				**10.00**	**Joint**
	300 mm Dia.		10				**10.00**	**Joint**
	450 mm Dia.		10				**10.00**	**Joint**
	600 mm Dia.		10				**10.00**	**Joint**
9	Cutting and champhering of pipes of following diameters including cost of all materials and labour involved, etc. complete as directed by Engineer-in-charge (for all class of pipes). MJP DSR Page No. 137 Sr.No. 20							
	SECTION-I(XII) PIPES APPURTENANCES (156)							
	80 mm Dia.		10				**10.00**	**No.**
	100 mm Dia.		10				**10.00**	**No.**
	150 mm Dia.		10				**10.00**	**No.**
	200 mm Dia.		10				**10.00**	**No.**
	300 mm Dia.		10				**10.00**	**No.**
	450 mm Dia.		10				**10.00**	**No.**
	600 mm Dia.		10				**10.00**	**No.**
10	Lowering laying and jointing with SBR ruber gaskets C.I. S/S pipes of various classes with CI / MS specials of following diameter in proper position, grade and alignment as directed by Engineer-in-charge including conveyance of material from stores to site of work, including cost of jointing materials and rubber rings labour, etc. complete. MJP DSR Page No. 54 Sr.No. 2							
	SECTION-I(I)C.I./D.I.PIPES (68)							
	80mm		10				**10.00**	**Rmt**
	100mm		10				**10.00**	**Rmt**
	150mm		10				**10.00**	**Rmt**
	200mm		10				**10.00**	**Rmt**
	300mm		10				**10.00**	**Rmt**
	450mm		10				**10.00**	**Rmt**
	600mm		10				**10.00**	**Rmt**
11	Providing ISI mark GI. pipe of following class and dia. including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, inspection charges, transportation to stores, etc. complete as per IS-1239/2004. G.I.PIPE - medium grade MJP DSR Page no 82 Sr No 1B							
	SECTION-(III):G.I PIPES (93)							
	b) Medium							
	15mm Dia.		10				**10.00**	**Rmt**
	20mm Dia.		10				**10.00**	**Rmt**
	25 mm Dia.		10				**10.00**	**Rmt**
	40 mm Dia.		10				**10.00**	**Rmt**
	50 mm Dia.		10				**10.00**	**Rmt**
12	Welding in all positions with required number of runs. for M. S. pipes internally and / or externally including gauging wherever necessary, fixing appurtenances and other accessories in connection with pipe laying work as per specification. MJP DSR Page No. 194 Sr.No. 7							
	SECTION-I(XVI) M. S. PIPE LAYING (186)							

NASHIK MUNICIPAL CORPORATION

MESURMENT SHEET

Sr. No.	Item		No.	Length	Breadth	Depth	Quantity	Total
			30				**30.00**	**Rmt**
13	Gas cutting (either square cut or V cut) pipes, plates, etc. of thickness MJP DSR Page No. 196 Sr.No. 13							
	SECTION-I(XVI) M. S. PIPE LAYING (187)							
	5 to 10 mm thickness		10				**10.00**	**Rmt**
	10 to 14mm thickness		10				**10.00**	**Rmt**
14	Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in C.M. 1:5 ProportionValve Chamber with Precast steel fibre reinforced concrete (S.F.R.C.) frame & covers. MJP DSR Page No. 235 Sr.No. 3							
	90x60x120 cm		7				**7.00**	**No**
	increase in depth of 30Cm		7				**7.00**	**30cm depth**
	90x90x120 cm		10				**10.00**	**No**
	increase in depth of 30Cm		10				**10.00**	**30cm depth**
	120x120x120 cm		10				**10.00**	**No**
15	Providing and fixing in position steel fibre reinforced concrete (S.F.R.C.) frame and covers of approved make including loading, unloading, transportation, all taxes, etc. complete as directed by Engineer-in-charge (20 tonnes capacity) MJP DSR Page No. 137 Sr.No. 17							
	90x45 cm		10				**10.00**	**No**
	90x60 cm		10				**10.00**	**No**
16	Lowering, laying and jointing G. I. pipes and specials of following class and diameter including conveyance from stores to site of works, all labour etc. complete either underground or in vertical position, as directed by Engineer-in-charge. MJP DSR Page No. 73 Sr.No. 2B							
	15mm Dia.		10				**10.00**	**Rmt**
	20mm Dia.		10				**10.00**	**Rmt**
	25 mm Dia.		10				**10.00**	**Rmt**
	40 mm Dia.		10				**10.00**	**Rmt**
	50 mm Dia.		10				**10.00**	**Rmt**
17	Providing and making ISI Mark ferrule connection of 15 mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete. PWD DSR Page No. 551 Sr.No. 42.72 to 42.77							
	15mm Dia.		10				**10.00**	**No.**
	25 mm Dia.		10				**10.00**	**No.**
	50 mm Dia.		10				**10.00**	**No.**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC
Nashik.

Deputy Engineer
PWD Satpur, NMC
Nashik.

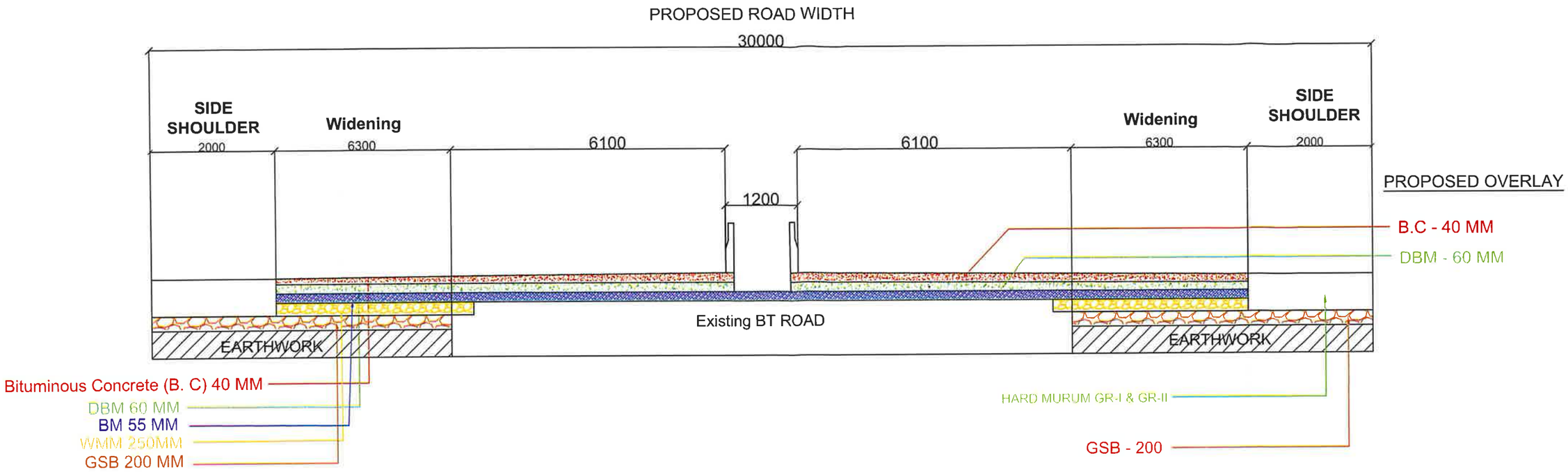
Executive Engineer
PWD Satpur, NMC
Nashik

NASHIK MUNICIPAL
CORPORATION

TYPICAL CROSS SECTION

(TCS)

CIVIL TECH INDIA PVT. LTD



WIDENING PORTION

1) BC - 40 mm
2) DBM - 60 mm
3) BM - 55 mm
4) WMM - 250 mm
5) GSB - 200 mm

EXISTING PORTION

1) 40mm Bituminous Concrete (B. C)
2) 60mm DBM Layer
3) 55 BM Layer

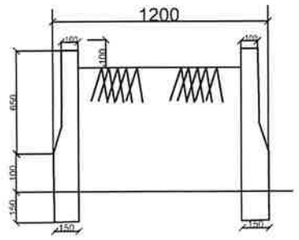
NOTE :- ALL DIMENSIONS ARE IN MM

TCS 2 - FOR KM 0/900 TO 1/470

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik



ROAD MEDIAN CROSS SECTION

REMARK	NO	DATE	REMARK

CLIENT:

NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

DPR CONSULTANT:

CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAUKIK A. JADHAV

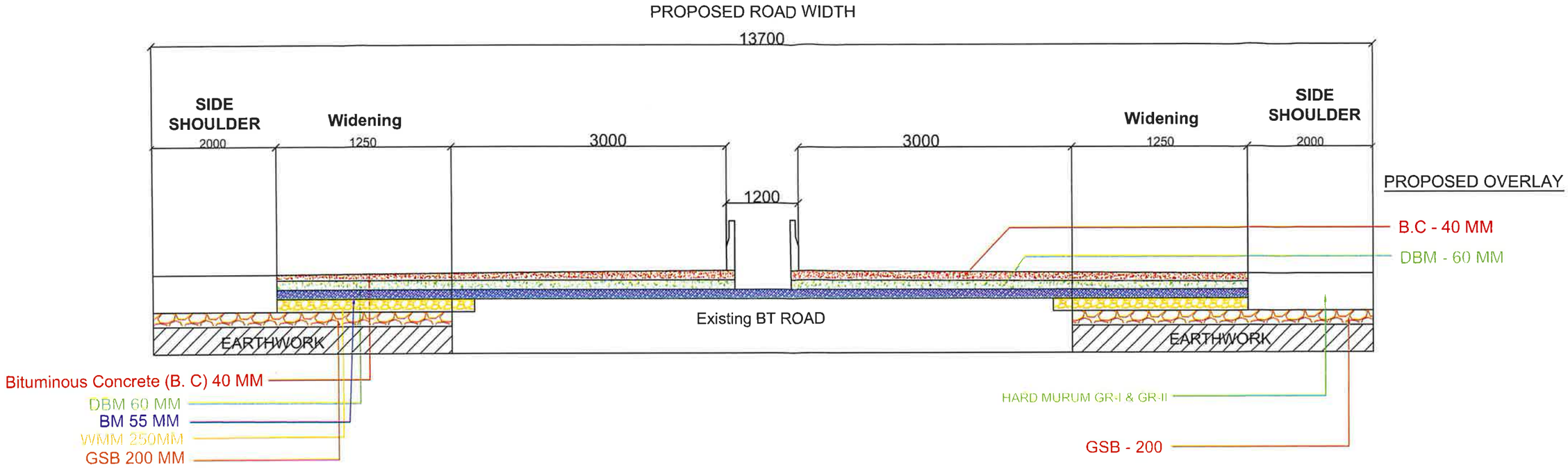
CHECKED BY: MADHUMATI HERAKAL

APPROVED BY:

PROJECT NAME: Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

TITLE: Motiwala College to Baban Lawns
TYPICAL CROSS SECTION

REVISION
R0



WIDENING PORTION

1) BC - 40 mm
2) DBM - 60 mm
3) BM - 55 mm
4) WMM - 250 mm
5) GSB - 200 mm

EXISTING PORTION

1) 40mm Bituminous Concrete (B. C)
2) 60mm DBM Layer
3) 55 BM Layer

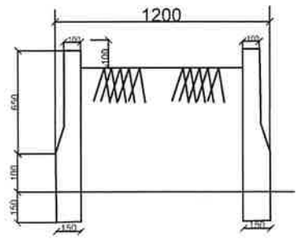
NOTE :- ALL DIMENSIONS ARE IN MM

TCS 3 - FOR KM 1/470 TO 2/130

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik



ROAD MEDIAN CROSS SECTION

REMARK	NO	DATE	REMARK

CLIENT:
NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

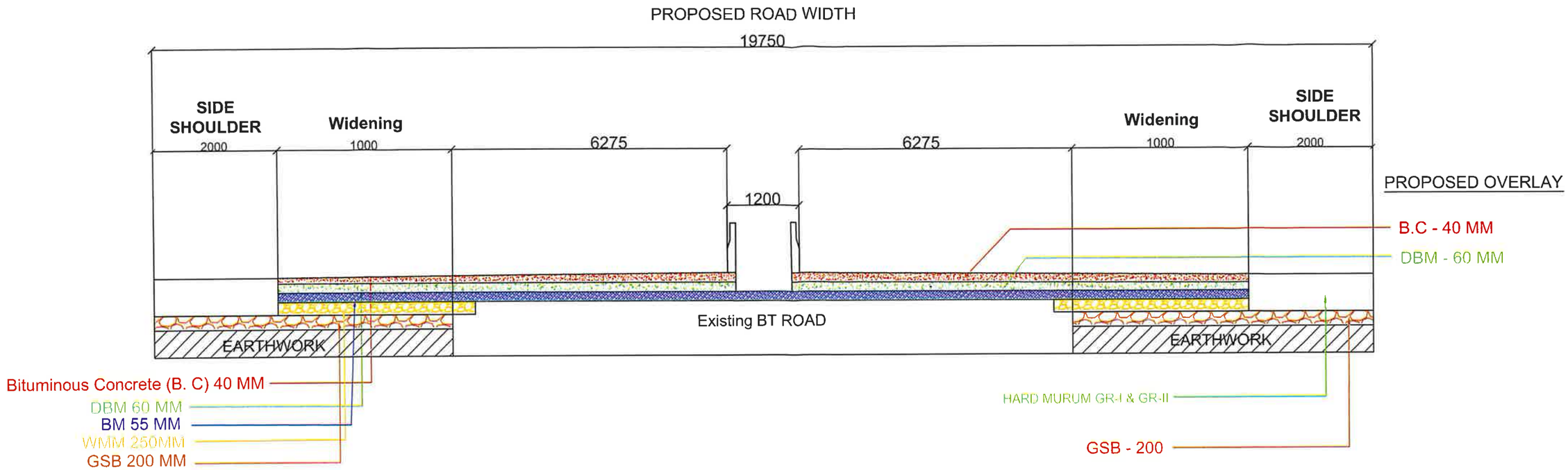
DPR CONSULTANT:
CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC. Satpur
NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAUKIK A. JADHAV
CHECKED BY: MADHUMATI HERAKAL
APPROVED BY:

PROJECT NAME: Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

TITLE: Baban lawns to Gajre Hospital
TYPICAL CROSS SECTION

REVISION
R0



WIDENING PORTION

1) BC - 40 mm
2) DBM - 60 mm
3) BM - 55 mm
4) WMM - 250 mm
5) GSB - 200 mm

EXISTING PORTION

1) 40mm Bituminous Concrete (B. C)
2) 60mm DBM Layer
3) 55 BM Layer

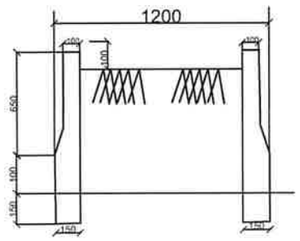
NOTE :- ALL DIMENSIONS ARE IN MM

TCS 4 - FOR KM 2/100 TO 2/700

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik



ROAD MEDIAN CROSS SECTION

REMARK	NO	DATE	REMARK

CLIENT:

NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

DPR CONSULTANT:

CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur
NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAUKIK A. JADHAV

CHECKED BY: MADHUMATI HERAKAL

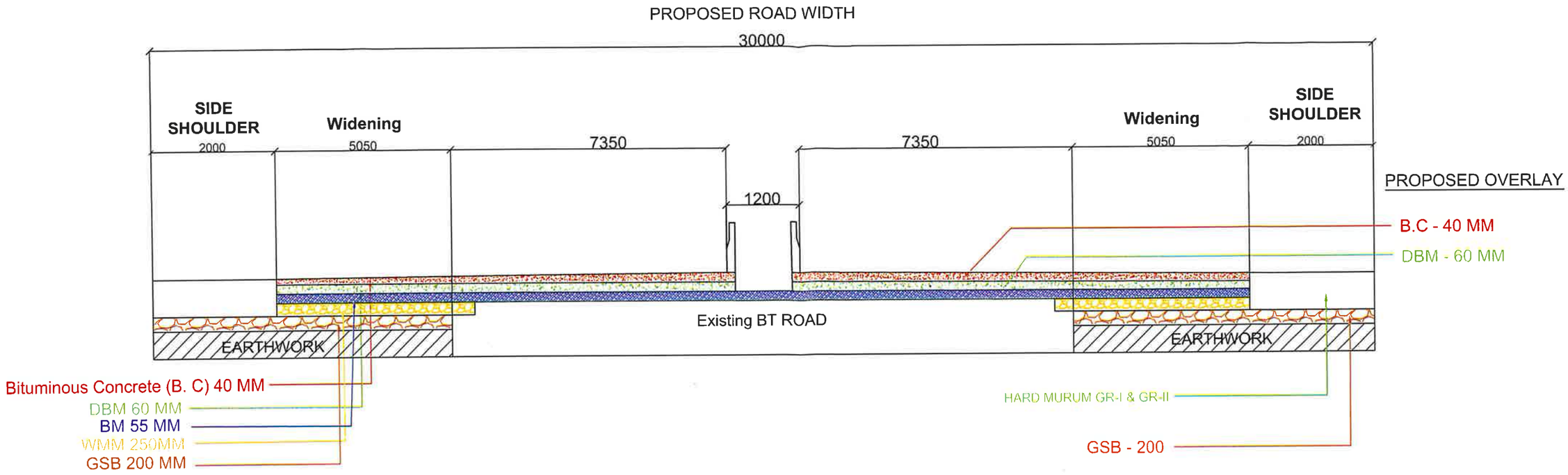
APPROVED BY:

PROJECT NAME: Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

TITLE: Gajre Hospital to Carbon Naka

TYPICAL CROSS SECTION

REVISION: R0



WIDENING PORTION

1) BC - 40 mm
2) DBM - 60 mm
3) BM - 55 mm
4) WMM - 250 mm
5) GSB - 200 mm

EXISTING PORTION

1) 40mm Bituminous Concrete (B. C)
2) 60mm DBM Layer
3) 55 BM Layer

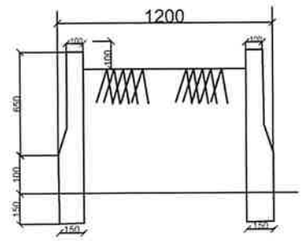
NOTE :- ALL DIMENSIONS ARE IN MM

TCS 5 - FOR KM 2/700 TO 3/390

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik



ROAD MEDIAN CROSS SECTION

REMARK	NO	DATE	REMARK

CLIENT:
NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

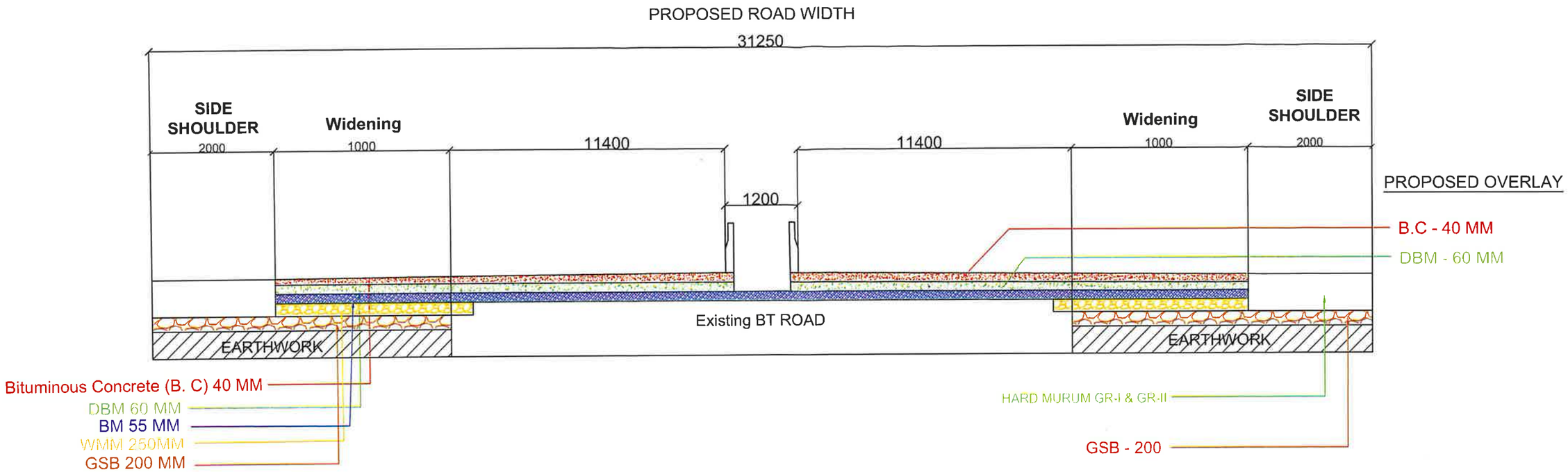
DPR CONSULTANT:
CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAUKIK A. JADHAV
CHECKED BY: MADHUMATI HERAKAL
APPROVED BY:

PROJECT NAME: Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

TITLE: Carbon Naka to Shramik Nagar Stop
TYPICAL CROSS SECTION

REVISION: R0



WIDENING PORTION

1) BC - 40 mm
2) DBM - 60 mm
3) BM - 55 mm
4) WMM - 250 mm
5) GSB - 200 mm

EXISTING PORTION

1) 40mm Bituminous Concrete (B. C)
2) 60mm DBM Layer
3) 55 BM Layer

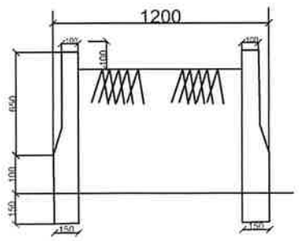
NOTE :- ALL DIMENSIONS ARE IN MM

TCS 7 - FOR KM 4/230 TO 5/010

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik



ROAD MEDIAN CROSS SECTION

REMARK	NO	DATE	REMARK

CLIENT:
NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation
Rajiv Gandhi Bhavan, 3rd Floor, Nashik,
Sharanpur Road, Nashik 422005,Maharashtra

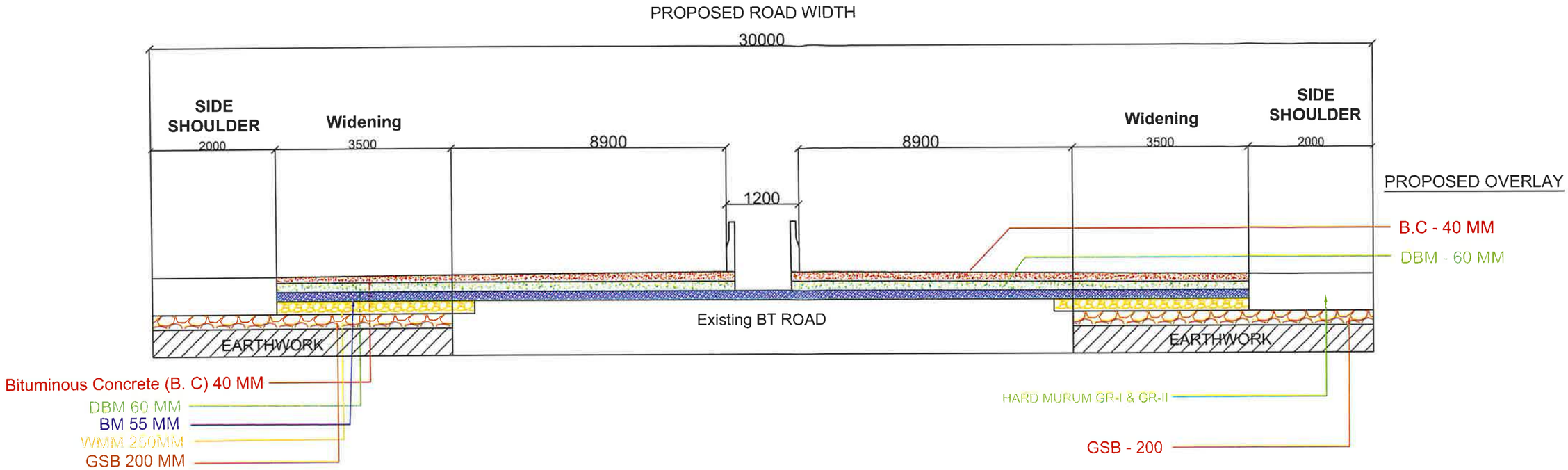
DPR CONSULTANT:
CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur
NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAUKIK A. JADHAV
CHECKED BY: MADHUMATI HERAKAL
APPROVED BY:

PROJECT NAME: Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

TITLE: Ashok Nagar Police Station to Amrut Garden
TYPICAL CROSS SECTION

REVISION: R0



WIDENING PORTION

1) BC - 40 mm
2) DBM - 60 mm
3) BM - 55 mm
4) WMM - 250 mm
5) GSB - 200 mm

EXISTING PORTION

1) 40mm Bituminous Concrete (B. C)
2) 60mm DBM Layer
3) 55 BM Layer

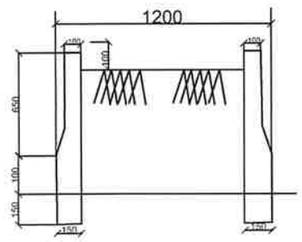
NOTE :- ALL DIMENSIONS ARE IN MM

TCS 6 - FOR KM 3/390 TO 4/230

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik



ROAD MEDIAN CROSS SECTION

REMARK	NO	DATE	REMARK

CLIENT:
NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

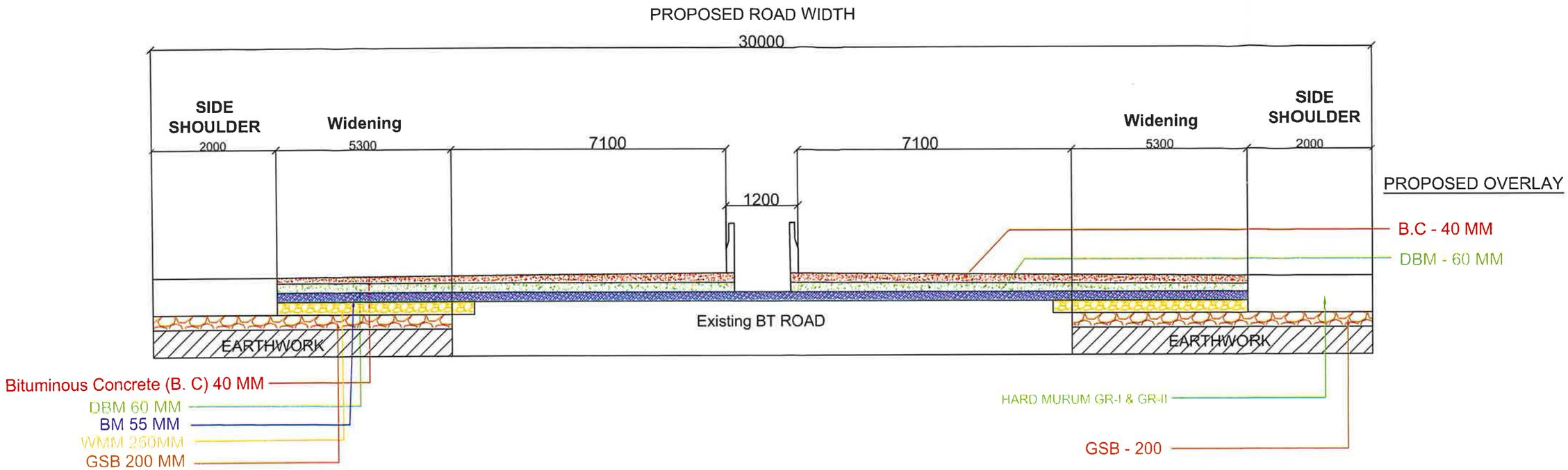
DPR CONSULTANT:
CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAUKIK A. JADHAV
CHECKED BY: MADHUMATI HERAKAL
APPROVED BY:

PROJECT NAME: Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

TITLE: Shramik Nagar to Ashok Nagar Police Station
TYPICAL CROSS SECTION

REVISION
R0



WIDENING PORTION

1) BC - 40 mm
2) DBM - 60 mm
3) BM - 55 mm
4) WMM - 250 mm
5) GSB - 200 mm

EXISTING PORTION

1) 40mm Bituminous Concrete (B. C)
2) 60mm DBM Layer
3) 55 BM Layer

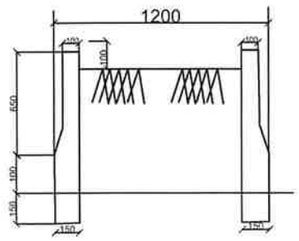
NOTE :- ALL DIMENSIONS ARE IN MM

TCS 1 - FOR KM 0/000 TO 0/900

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik



ROAD MEDIAN CROSS SECTION

REMARK	NO	DATE	REMARK

CLIENT:

NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation
Rajiv Gandhi Bhavan, 3rd Floor, Nashik,
Sharanpur Road, Nashik 422005,Maharashtra

DPR CONSULTANT:

CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur
NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAUKIK A. JADHAV

CHECKED BY: MADHUMATI HERAKAL

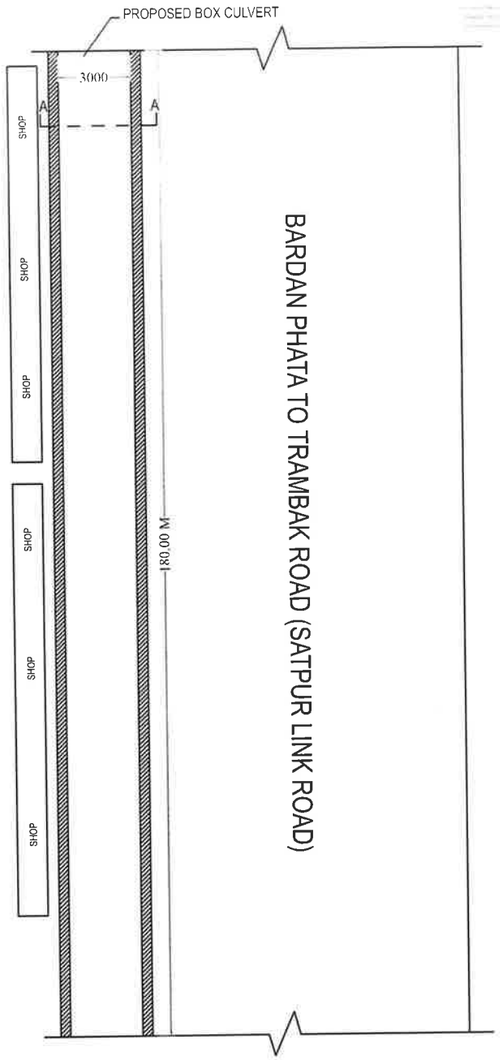
APPROVED BY:

PROJECT NAME: Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

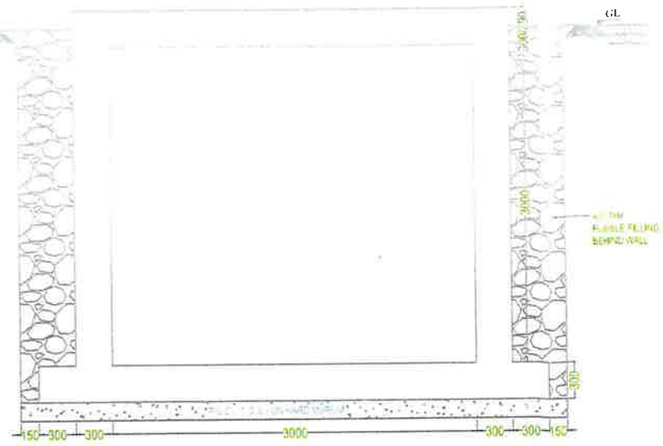
TITLE: Bardan Phata to Motiwala College

TYPICAL CROSS SECTION

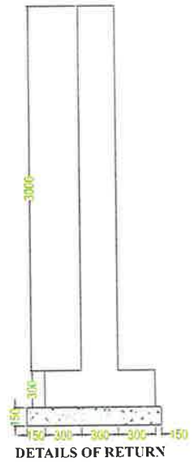
REVISION: R0



TENTATIVE SITE LAYOUT



SECTION A-A



DETAILS OF RETURN

GENERAL NOTES:-

1. READ THIS DRAWING ALONG WITH ARCHITECT'S AND SERVICE DRAWING.
2. DRAWING SHALL NOT BE SCALED.
3. Ø DENOTES MILD STEEL Fe : 250 N/Sqmm CONFIRMING TO : IS 432.
4. T DENOTES TOR STEEL Fc : 500 N/Sqmm CONFIRMING TO : IS 1766.
5. LAP LENGTH & ANCHOR LENGTH(DEVELOPEMENT LENGTH) SHALL BE (56 X DIAMETER OF BAR).
6. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE PILE CAP : 60 mm, COL. : 50 mm, BEAM : 35 mm, SLAB & HIDDEN BEAM : 20 mm.
7. STRUCTURAL CONCRETE TO BE M-30 (IS : 456 - 2000).
8. MINIMUM CURING TO ALL R. C. C. ITEMS TO BE 28 DAYS.
9. W.C. RATIO SHALL BE STRICTLY FOLLOWED AS PER INSTRUCTIONS
10. ANY DISCREPANCY OR OMISSIONS MUST BE IMMEDIATELY NOTICE PRIOR TO EXECUTION.
11. EXCAVATION SHOULD BE CARRIED OUT UP TO HARD STRATA.
12. WE SHALL NOT RENAIN RESPONSIBLE FOR CONCRETE MIX, QUALITY, SHUTTERING, CURING, CONSTRUCTION MATERIAL, WORKMANSHIP, FAULTY CONSTRUCTION PROCEDURE AND SAFETY OF ADJOINING STRUCTURE & THE SAFETY OF LABOUR OR ANY ACCIDENT
13. MINIMUM CLEAR COVER PILE AND PILE CAP SHALL BE : 60mm, FOR RAFT SLAB : 25MM
14. THE SAFE BEARING CAPACITY OF THE PILE ASSUMED TO BE, FOR 600MM Ø = 64 TONS . AS PER PILE TESTING REPORT AND FOUNDATION SYSTEM DESIGNED ACCORDINGLY.

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

ALL DIMENSIONS ARE IN MM

REMARK	NO	DATE	REMARK

CLIENT:

NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

DPR CONSULTANT:

CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAXMI L. SURYAWANSHI

CHECKED BY: MADHUMATI HERAKAL

APPROVED BY:

PROJECT NAME: IMPROVEMENT OF OUTER RING ROAD FROM BARDAN PHATA - GANGAPUR ROAD TO SULA CHOWK TRIMBAK ROAD

TITLE: **PROPOSED BOX CULVERT WORK AT AJJU DA DHABA TRAMBAK CHOWK TO BARDAN PHATA ROAD.**

REVISION: RO

CIVIL TECH INDIA PVT LTD

Nashik Municipal Corporation, Nashik.

Public Works Department

Facesheet

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Proposed Construction of Box Culvert near Ajuda dhaba on Trambak chowk to Bardan phata 36m wide road, Nashik

Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
1		Civil Cost			2,19,75,834.00		
2		Royalty-Structures			90,360.00		
3		Quality Control Tests for Structures			1,71,310.00		
		Total Civil Cost			**2,22,37,504.00**		**Sq.m**
		Total cost of Project in Cr.			**2.22**		

DPR Consultant

Authorized Signitory
CivilTech India Pvt, Ltd.

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik

Proposed Construction of Box Culvert near Ajuda dhaba on Trambak chowk to Bardan phata 36m wide road, Nashik

Abstract Sheet

Item No.	Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in **earth, soils of all types, sand, gravel, soft murum** including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. **Sp.No.BR3/102** **Lift upto 3.0 m.** **SSR I No. 12.03**	557.00	Cum.	94.50	52636.50
2	Excavation for foundation in **hard murum** and boulders including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. **SP.No. BR3/102** **I Lift upto 3.0 m** **SSR I No. 12.04**	464.00	Cum.	253.10	117438.40
3	Excavation for foundation in **soft rock** including shoring and strutting as necessary and disposing off excavated stuff as SSR I No. 12.08	279.00	Cum.	584.90	163187.10
4	Excavation for foundation in **Hard rock** including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. **Sp. No**. 12.11 SSR I No. 12.11	257.00	Cum.	2028.60	521350.20
5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/ quartzite/ gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surfaceand curingetc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) **SSR I No. 24.04**	120.00	Cum	7327.00	879240.00

Item No.	Item	Quantity	Unit	Rate	Amount
6	Providing and laying Cast in situ/Ready Mix cement concrete M30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand Sp. No.: ,MORTH (5tH **SSR I No. 17.30**	308.00	Cum.	9005.30	2773632.40
7	Providing and laying insitu / ready mix M-30 plaincement concrete of trap/granite/quartzite/gneiss metal for cast incitu piers,abutment, returns,wingsetc. includingprovisionof "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel formwork centering (excluding dewatering by means of pump) and including bailling out water and curing finishing in CM1:3 etc.complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in followinh manners (a) Height upto 5 M. (With Concrete Mixer)With fine agreegatesof requiredspecifications(VSIsandfinelywashed etc) i)Heightupto5m,normal rate. ii)Height5to7.50m,add5percentextraoverbasicrate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv)Over10mHeight,add10percentextra forevery2.50m **SSR I No. 17.41**	504.50	Cum.	9343.40	4713745.30
8	Providing and laying in situ / ready mix M-30 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in solid/ deck slab etc. including ramming, vibrating, curing, form work, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine agreegates of required specifications (VSI sand finely washed etc) **SSR I No. 14.17**	186.00	Cum.	12301.20	2288023.20
9	Providing, cutting, bending, hooking, tying and laying in position TMT FE 500 steel bars for reinforcement for all RCC works as per detailed drawings etc. complete. **SP. NO. (SSR. I. No.14.01**	107.80	M.T.	92758.10	9999323.18

Item No.	Item	Quantity	Unit	Rate	Amount
10	Dewatering including **diversion of stream,** providing coffer dam, bunds etc. as may be necessary for foundation and other parts of work and **bailing out and pumping out water** during and after excavation as required. **D.S.R.I.NO. 12.22**	240.00	Hrs	187.90	45096.00
11	Providing **Earth work in embankment** by manually with approved material obtained from Government land with 50m lead, by using laying in layars, breaking clods, dressing to required lines curves grade, and section watering and compaction complete.**(a) 95% proctor Density.** Sp.no.Rd.12Page No. 189/M.O.S.T.1995 CI.No.305 (SSR. I. No. 2.28	334.20	Cum	1263.20	422161.44
				Total	**21975833.72**
				Say	**21975834.00**
	Royalty fot Earth work Embankment	418.00	Cum	216.18	90363.24
					90363.24
					90360.00

JE/AE-I/Sect. Engineer
PWD Satpur, NMC
Nashik.

Deputy Engineer
PWD Satpur, NMC
Nashik.

Executive Engineer
PWD Satpur, NMC
Nashik

Proposed Construction of Box Culvert near Ajuda dhaba on Trambak chowk to Bardan phata 36m wide road, Nashik

Measurement Sheet

ITE No.	PARTICULARS	No.	LENGTH	BREADT	HEIGHT DEPTH	QUANTIT	UNIT
1	**Excavation in soft soil** (lift 3.00 1.50M)						
	For New Culvert	1	185.00	4.80	0.60	532.80	Cum.
	For Returns	4	5.50	1.80	0.60	23.76	Cum.
					Total	556.56	Cum.
					Say	**557.00**	**Cum.**
2	**Excavation in Hard Murum** (Lift upto 3.00M)						
	For New Culvert	1	185.00	4.80	0.50	444.00	Cum.
	For Returns	4	5.50	1.80	0.50	19.80	Cum.
					Total	463.80	Cum.
					Say	**464.00**	**Cum.**
3	**Excavation in Soft Rock**(Lift upto 3.00M)						
	For New Culvert	1	185.00	4.80	0.30	266.40	Cum.
	For Returns	4	5.50	1.80	0.30	11.88	Cum.
					Total	278.28	Cum.
					Say	**279.00**	**Cum.**
4	**Excavation in Hard Rock**(Lift upto						
	For New Culvert	1	185.00	4.50	0.30	249.75	Cum.
	For Returns	4	5.50	1.50	0.20	6.60	Cum.
					Total	256.35	Cum.
					Say	**257.00**	**Cum.**
5	**P.C.C. (1:2:4)**						
	For New Culvert	1	183.00	4.20	0.15	115.29	Cum.
	For Returns	4	5.50	1.20	0.15	3.96	Cum.
					Total	119.25	Cum.
					Say	**120.00**	**Cum.**
6	**R.M.C. M-30 For Raft**						
	For New Culvert	1	182.00	3.90	0.40	283.92	Cum
	For Returns	4	5.00	0.90	0.40	7.20	Cum
	Chamfer						
	For New Culvert	2	182.00	0.30	0.15	16.38	Cum
					Total	307.50	Cum.
					Say	**308.00**	**Cum.**

5- Bardanphata to Amrut Garden.. Final

ITE No.	PARTICULARS	No.	LENGTH	BREADT	HEIGHT DEPTH	QUANTIT	UNIT
7	**R.M.C. M-30 For Retaining Wall**						
	For New Culvert	2	182.00	0.40	3.30	480.48	Cum.
	For Returns	4	5.00	0.40	3.00	24.00	Cum.
					Total	504.48	**Cum**
					Say	**504.50**	**Cum**
8	**R.C.C. M:30 for Solid Deck Slab**						
	For New Culvert	1	182.00	3.00	0.33	177.45	Cum
	Chamfer						
	For New Culvert	1	182.00	0.30	0.15	8.19	Cum
					Total	185.64	Cum.
					Say	**186.00**	**Cum.**
9	**TMT Steel from Integrated Plant**						
	Raft	308.00	x	95.00	kg/cum	29260.00	Kgs.
	For Slab	186.00	x	110.00	kg/cum	20460.00	Kgs.
	For Retaining Wall	504.50	x	115.00	kg/cum	58017.50	Kgs.
					Total	107.74	M.T.
					Say	**107.80**	**M.T.**
10	**Dewatering**						
	4 hrs daily for 2 months					240.00	Hrs
					Total	**240.00**	Hrs
					Say	**240.00**	**Hrs**
11	**Earthwork in Embankment**						
	60% of Item No.3					334.20	Cum
					Total	**334.20**	**Cum**
					Say	**334.20**	**Cum**
	Royalty fot Earth work Embankment		334.20	1.25		417.75	**Cum**
					Total	**417.75**	**Cum**
					Say	**418.00**	**Cum**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC
Nashik.

Deputy Engineer
PWD Satpur, NMC
Nashik.

Executive Engineer
PWD Satpur, NMC
Nashik

Proposed Construction of Box Culvert near Ajuda dhaba on Trambak chowk to Bardan phata 36m wide road, Nashik

Quality control

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
1	Providing and laying in situ / ready mix cement concrete of Mix-15 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine agreegates of required	120.00	Cubic Metre	Cement	0.22000	26.40	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	5	725.00	3625.00
				Sand	0.4700	56.40	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00
							1	BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1	3960.00	3960.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
2	M-30 for RCC Foundation with VSI Sand.	308.00	Cubic Metre	Cement	0.40000	123.20	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	9	725.00	6525.00
	BR New			Cr.Metal	0.8500	261.80	20	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00
				Sand	0.4250	130.90	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	2	895.00	1790.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
3	M-30 for Head Wall With Natural / VSI Sand.	504.50	Cubic Metre	Cement	0.35000	176.58	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	13	725.00	9425.00
	C.D.Works			Cr.Metal	0.8900	449.01	20	Concrete Mix Design (With all Tests on basic materials).	2	14445.00	28890.00
				Sand	0.4450	224.50	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	3	725.00	2175.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	3	895.00	2685.00

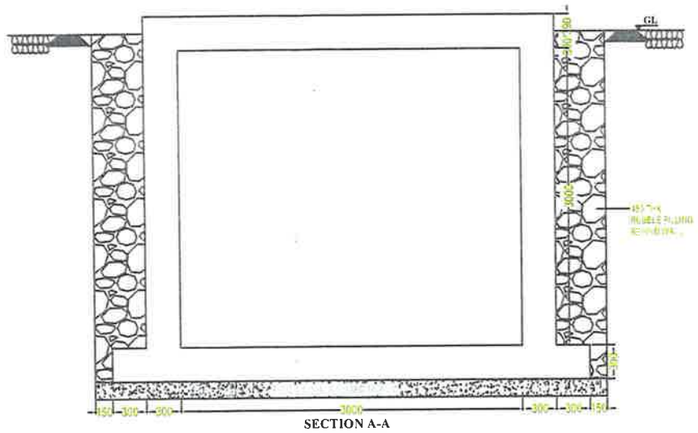
Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
4	M-30 for solid/ deck slab for height up to 4 m with V.S.I. Sand.	186.00	Cubic Metre	Cement	0.38000	70.68	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	7	725.00	5075.00
				Sand	0.4500	83.70	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
5	TMT FE-500 steel bars for R.C.C. Bridge works.	107.80	Metric Tonne	Steel	1.00000	107.80	72	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	22	1340.00	29480.00
	BR Super Structure				0.0000	0.00	73	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	22	1675.00	36850.00
6	Providing earthwork from Other sources.	334.20	Cubic Metre	Earth	1.00000	334.20	31	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
	Road Subgrade				0.0000	0.00	33	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
								Total Quality Control Testing Charges			**Rs.1,71,310.00**

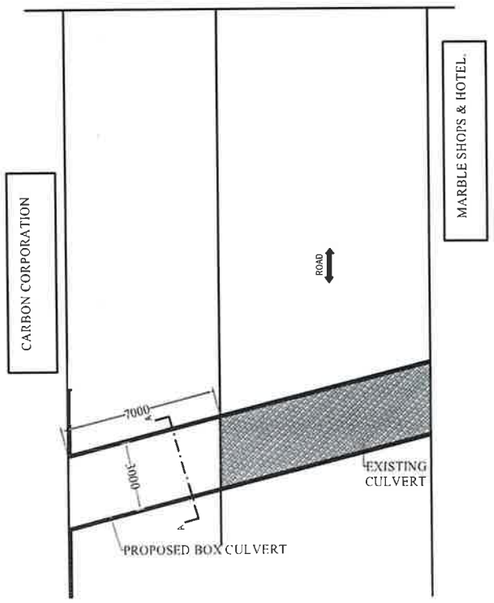
JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik.



SECTION A-A



TENTATIVE SITE LAYOUT

GENERAL NOTES:-

1. READ THIS DRAWING ALONG WITH ARCHITECT'S AND SERVICE DRAWING.
2. DRAWING SHALL NOT BE SCALED.
3. Ø DENOTES MILD STEEL Fe : 250 N/Sqmm CONFIRMING TO : IS 432.
4. T DENOTES TOR STEEL Fe : 500 N/Sqmm CONFIRMING TO : IS 1766.
5. LAP LENGTH & ANCHOR LENGTH(DEVELOPEMENT LENGTH) SHALL BE (56 X DIAMETER OF BAR).
6. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE PILE CAP : 60 mm, COL. : 50 mm, BEAM : 35 mm, SLAB & HIDDEN BEAM : 20 mm.
7. STRUCTURAL CONCRETE TO BE M-30 (IS : 456 - 2000).
8. MINIMUM CURING TO ALL R. C. C. ITEMS TO BE 28 DAYS.
9. W.C. RATIO SHALL BE STRICTLY FOLLOWED AS PER INSTRUCTIONS
10. ANY DISCREPANCY OR OMISSIONS MUST BE IMMEDIATELY NOTICE PRIOR TO EXECUTION.
11. EXCAVATION SHOULD BE CARRIED OUT UP TO HARD STRATA.
12. WE SHALL NOT RENAIN RESPONSIBLE FOR CONCRETE MIX, QUALITY, SHUTTERING, CURING, CONSTRUCTION MATERIAL, WORKMANSHIP, FAULTY CONSTRUCTION PROCEDURE AND SAFETY OF ADJOINING STRUCTURE & THE SAFETY OF LABOUR OR ANY ACCIDENT
13. MINIMUM CLEAR COVER PILE AND PILE CAP SHALL BE : 60mm, FOR RAFT SLAB : 25MM
14. THE SAFE BEARING CAPACITY OF THE PILE ASSUMED TO BE, FOR 600MM Ø = 64 TONS . AS PER PILE TESTING REPORT AND FOUNDATION SYSTEM DESIGNED ACCORDINGLY.

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

ALL DIMENSIONS ARE IN MM

REMARK	NO	DATE	REMARK

CLIENT:

NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

DPR CONSULTANT:

CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur
NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAXMI L. SURYAWANSHI

CHECKED BY: MADHUMATI HERAKAL

APPROVED BY:

PROJECT NAME: IMPROVEMENT OF OUTER RING ROAD FROM BARDAN PHATA - GANGAPUR ROAD TO SULA CHOWK TRIMBAK ROAD

TITLE: PROPOSED BOX CULVERT WORK AT CARBON CORPORATION, NASHIK

REVISION: R0

CIVIL TECH INDIA PVT. LTD.

Nashik Municipal Corporation, Nashik.

Public Works Department

Facesheet

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Proposed Box Culvert at CARBON NAKA, Nashik

Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
1		Civil Cost			16,24,027.00		
2		Royalty-Structures			8,755.00		
3		Quality Control Tests for Structures			60,585.00		
		Total Civil Cost			**16,93,367.00**		**Sq.m**
		Total cost of Project in Cr.			**0.17**		

DPR Consultant

Authorized Signitory
CivilTech India Pvt, Ltd.

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik

Proposed Box Culvert at CARBON NAKA, Nashik

Abstract Sheet

Item No.	Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in **earth, soils of all types, sand, gravel, soft murum** including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. **Sp.No.BR3/102** **Lift upto 3.0 m.** **SSR I No. 12.03**	54.00	Cum.	94.50	5103.00
2	Excavation for foundation in **hard murum** and boulders including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. **SP.No. BR3/102** **I Lift upto 3.0 m** **SSR I No. 12.04**	45.00	Cum.	253.10	11389.50
3	Excavation for foundation in **soft rock** including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. **Sp. No**. 12.08 **SSR I No. 12.08**	27.00	Cum.	584.90	15792.30
4	Excavation for foundation in **Hard rock** including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. **Sp. No**. 12.11 **SSR I No. 12.11**	21.00	Cum.	2028.60	42600.60
5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/ quartzite/ gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surfaceand curingetc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) **SSR I No. 24.04**	10.00	Cum	7327.00	73270.00

Item No.	Item	Quantity	Unit	Rate	Amount
6	Providing and laying Cast in situ/Ready Mix cement concrete M30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand. Sp. No : MORTH (5thI REV)1700 **SSR I No. 17.30**	20.00	Cum.	9005.30	180106.00
7	Providing and laying insitu / ready mix M-30 plaincement concrete of trap/granite/quartzite/gneiss metal for cast incitu piers,abutment, returns,wingsetc. includingprovisionof "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel formwork centering (excluding dewatering by means of pump) and including bailling out water and curing finishing in CM1:3 etc.complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in followinh manners (a) Height upto 5 M. (With Concrete Mixer)With fine agreegatesof requiredspecifications(VSIsandfinelywashed etc) i)Heightupto5m,normal rate. ii)Height5to7.50m,add5percentextraoverbasicrate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv)Over10mHeight,add10percentextra forevery2.50m rise. **SSR I No. 17.41**	42.50	Cum.	9343.40	397094.50
8	Providing and laying in situ / ready mix M-30 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in solid/ deck slab etc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine agreegates of required specifications (VSI sand finely washed etc) i) Height up to 5 m, normal rate. Sp.No. BR38(a)/135, AND **SSR I No. 14.17**	8.00	Cum.	12301.20	98409.60
9	Providing, cutting, bending, hooking, tying and laying in position TMT FE 500 steel bars for reinforcement for all RCC works as per detailed drawings etc. complete. **SP. NO. BR35/134 (SSR. I. No.14.01**	7.70	M.T.	92758.10	714237.37

Item No.	Item	Quantity	Unit	Rate	Amount
10	Dewatering including **diversion of stream,** providing coffer dam, bunds etc. as may be necessary for foundation and other parts of work and **bailing out and pumping out water** during and after excavation as required. **D.S.R.I.NO. 12.22**	240.00	Hrs	187.90	45096.00
11	Providing **Earth work in embankment** by manually with approved material obtained from Government land with 50m lead, by using laying in layars, breaking clods, dressing to required lines curves grade, and section watering and compaction complete.**(a) 95% proctor Density.** Sp.no.Rd.12Page No. 189/M.O.S.T.1995 CI.No.305 (SSR. I. No. 2.28	32.40	Cum	1263.20	40927.68
				Total	**1624026.55**
				Say	**1624027.00**
	Royalty fot Earth work Embankment	40.50	Cum	216.18	8755.29
				Total	**8755.29**
				Say	**8755.00**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik.

Proposed Box Culvert at CARBON NAKA, Nashik

Measurement Sheet

ITE No.	PARTICULARS	No.	LENGTH	BREADT	HEIGHT DEPTH	QUANTIT	UNIT
1	**Excavation in soft soil** (lift 3.00 1.50M)						
	For New Culvert	1	10.00	4.80	0.60	28.80	Cum.
	For Returns	4	5.50	1.90	0.60	25.08	Cum.
					Total	53.88	Cum.
					Say	**54.00**	**Cum.**
2	**Excavation in Hard Murum** (Lift upto 3.00M)						
	For New Culvert	1	10.00	4.80	0.50	24.00	Cum.
	For Returns	4	5.50	1.90	0.50	20.90	Cum.
					Total	44.90	Cum.
					Say	**45.00**	**Cum.**
3	**Excavation in Soft Rock**(Lift upto						
	For New Culvert	1	10.00	4.80	0.30	14.40	Cum.
	For Returns	4	5.50	1.90	0.30	12.54	Cum.
					Total	26.94	Cum.
					Say	**27.00**	**Cum.**
4	**Excavation in Hard Rock**(Lift upto						
	For New Culvert	1	10.00	4.50	0.30	13.50	Cum.
	For Returns	4	5.50	1.60	0.20	7.04	Cum.
					Total	20.54	Cum.
					Say	**21.00**	**Cum.**
5	**P.C.C. (1:2:4)**						
	For New Culvert	1	8.00	4.20	0.15	5.04	Cum.
	For Returns	4	5.50	1.30	0.15	4.29	Cum.
					Total	9.33	Cum.
					Say	**10.00**	**Cum.**
6	**R.M.C. M-30 For Raft**						
	For New Culvert	1	7.00	3.90	0.40	10.92	Cum
	For Returns	4	5.00	1.00	0.40	8.00	Cum
	Chamfer						
	For New Culvert	2	7.00	0.30	0.15	0.63	Cum
					Total	19.55	Cum.
					Say	**20.00**	**Cum.**

ITE No.	PARTICULARS	No.	LENGTH	BREADT	HEIGHT DEPTH	QUANTIT	UNIT
7	**R.M.C. M-30 For Retaining Wall**						
	For New Culvert	2	7.00	0.40	3.30	18.48	Cum.
	For Returns	4	5.00	0.40	3.00	24.00	Cum.
					Total	42.48	**Cum**
					Say	**42.50**	**Cum**
8	**R.C.C. M:30 for Solid Deck Slab**						
	For New Culvert	1	7.00	3.00	0.33	6.83	Cum
	Chamfer						
	For New Culvert	1	7.00	0.30	0.15	0.32	Cum
					Total	7.14	Cum.
					Say	**8.00**	**Cum.**
9	**TMT Steel from Integrated Plant**						
	Raft	20.00	x	95.00	kg/cum	1900.00	Kgs.
	For Slab	8.00	x	110.00	kg/cum	880.00	Kgs.
	For Retaining Wall	42.50	x	115.00	kg/cum	4887.50	Kgs.
					Total	7.67	M.T.
					Say	**7.70**	**M.T.**
10	**Dewatering**						
	4 hrs daily for 2 months					240.00	Hrs
					Total	**240.00**	Hrs
					Say	**240.00**	**Hrs**
11	**Earthwork in Embankment**						
	60% of Item No.3					32.40	Cum
					Total	**32.40**	**Cum**
					Say	**32.40**	**Cum**
	Royalty fot Earth work Embankment		32.40	1.25		40.50	**Cum**
					Total	**40.50**	**Cum**
					Say	**40.50**	**Cum**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik.

Proposed Box Culvert at CARBON NAKA, Nashik

Quality Control

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

Item No.	Item in brief	Estimated		Material	Standard Consump	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
1	Providing and laying in situ / ready mix cement concrete of Mix-15 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine agreegates of required specifications (VSI sand finely washed etc.)	10.00	Cubic Metre	Cement	0.22000	2.20	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4700	4.70	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00
							1	BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1	3960.00	3960.00

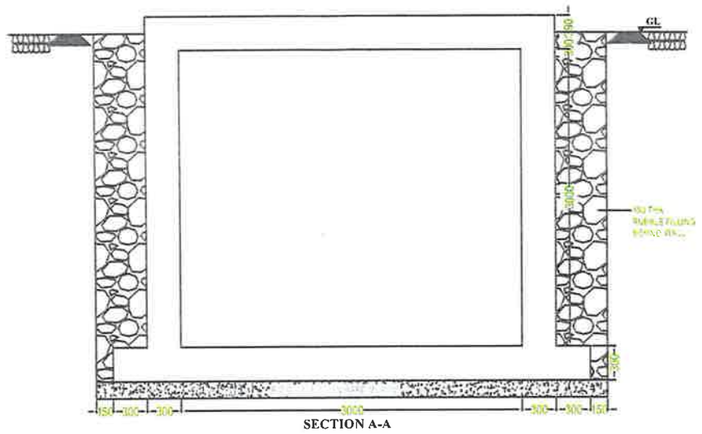
Item No.	Item in brief	Estimated		Material	Standard Consump	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
2	M-30 for RCC Foundation with VSI Sand.	20.00	Cubic Metre	Cement	0.40000	8.00	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	3	725.00	2175.00
				Sand	0.4250	8.50	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
3	M-30 for Head Wall With Natural / VSI Sand.	42.50	Cubic Metre	Cement	0.35000	14.88	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	4	725.00	2900.00
	C.D.Works			Cr.Metal	0.8900	37.83	20	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00
				Sand	0.4450	18.91	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
4	M-30 for solid/ deck slab for height up to 4 m with V.S.I. Sand.	8.00	Cubic Metre	Cement	0.38000	3.04	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4500	3.60	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00

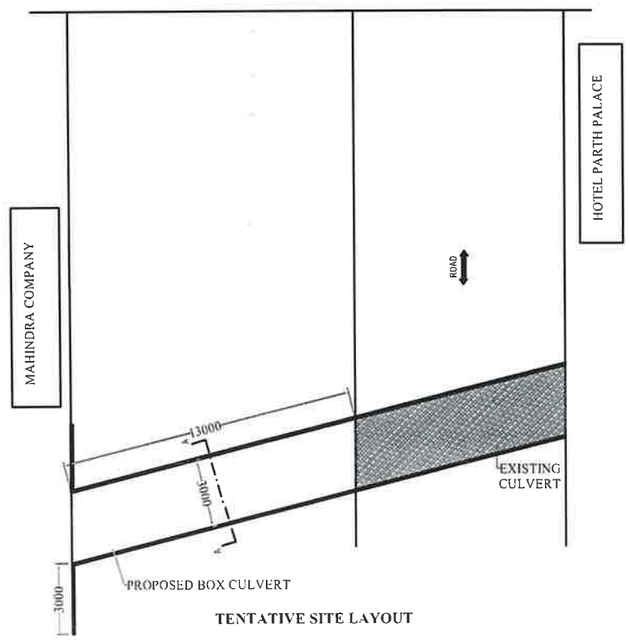
Item No.	Item in brief	Estimated		Material	Standard Consump	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
5	TMT FE-500 steel bars for R.C.C. Bridge works.	7.70	Metric Tonne	Steel	1.00000	7.70	72	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	2	1340.00	2680.00
	BR Super Structure				0.0000	0.00	73	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	2	1675.00	3350.00
6	Providing earthwork from Other sources.	32.40	Cubic Metre	Earth	1.00000	32.40	31	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
	Road Subgrade				0.0000	0.00	33	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
								Total Quality Control Testing Charges			**Rs.60,585.00**

JE/AE-I Sect. Engineer
PWD Satpur. NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik.





TENTATIVE SITE LAYOUT

GENERAL NOTES:-

1. READ THIS DRAWING ALONG WITH ARCHITECT'S AND SERVICE DRAWING.
2. DRAWING SHALL NOT BE SCALED.
3. Ø DENOTES MILD STEEL Fe : 250 N/Sqmm CONFIRMING TO : IS 432.
4. T DENOTES TOR STEEL Fe : 500 N/Sqmm CONFIRMING TO : IS 1766.
5. LAP LENGTH & ANCHOR LENGTH(DEVELOPEMENT LENGTH) SHALL BE (56 X DIAMETER OF BAR).
6. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE PILE CAP : 60 mm, COL. : 50 mm, BEAM : 35 mm, SLAB & HIDDEN BEAM : 20 mm.
7. STRUCTURAL CONCRETE TO BE M-30 (IS : 456 - 2000).
8. MINIMUM CURING TO ALL R. C. C. ITEMS TO BE 28 DAYS.
9. W.C. RATIO SHALL BE STRICTLY FOLLOWED AS PER INSTRUCTIONS
10. ANY DISCREPANCY OR OMISSIONS MUST BE IMMEDIATELY NOTICE PRIOR TO EXECUTION.
11. EXCAVATION SHOULD BE CARRIED OUT UP TO HARD STRATA.
12. WE SHALL NOT RENAIN RESPONSIBLE FOR CONCRETE MIX, QUALITY, SHUTTERING, CURING, CONSTRUCTION MATERIAL, WORKMANSHIP, FAULTY CONSTRUCTION PROCEDURE AND SAFETY OF ADJOINING STRUCTURE & THE SAFETY OF LABOUR OR ANY ACCIDENT
13. MINIMUM CLEAR COVER PILE AND PILE CAP SHALL BE : 60mm, FOR RAFT SLAB : 25MM
14. THE SAFE BEARING CAPACITY OF THE PILE ASSUMED TO BE, FOR 600MM Ø = 64 TONS . AS PER PILE TESTING REPORT AND FOUNDATION SYSTEM DESIGNED ACCORDINGLY.

JE/AE-I/Sect. Engineer,
Public Work Division Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division Satpur
Nashik Muncipal Corporation,Nashik

ALL DIMENSIONS ARE IN MM

REMARK	NO	DATE	REMARK

CLIENT:

NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

DPR CONSULTANT:

CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC, Satpur
NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAXMI L. SURYAWANSHI

CHECKED BY: MADHUMATI HERAKAL

APPROVED BY:

PROJECT NAME: IMPROVEMENT OF OUTER RING ROAD FROM BARDAN PHATA - GANGAPUR ROAD TO SULA CHOWK TRIMBAK ROAD

TITLE: PROPOSED BOX CULVERT WORK AT MAHINDRA COMPANY, NASHIK

REVISION: R0

CIVIL TECH INDIA PVT. LTD

Nashik Municipal Corporation, Nashik.

Public Works Department

Facesheet

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Proposed Box Culvert at MAHINDRA COMPANY INFRONT OF PARTH HOTEL, Nashik

Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
1		Civil Cost			23,02,890.00		
2		Royalty-Structures			11,349.00		
3		Quality Control Tests for Structures			63,600.00		
		Total Civil Cost			**23,77,839.00**		**Sq.m**
		Total cost of Project in Cr.			**0.24**		

DPR Consultant

Authorized Signitory
CivilTech India Pvt, Ltd.

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik

Proposed Box Culvert at MAHINDRA COMPANY INFRONT OF PARTH HOTEL, Nashik

Abstract Sheet

Item No.	Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in **earth, soils of all types, sand, gravel, soft murum** including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. **Lift upto 3.0 m.** **SSR I No. 12.03**	70.00	Cum.	94.50	6615.00
2	Excavation for foundation in **hard murum** and boulders including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. **SP.No. BR3/102** **I Lift upto 3.0 m** **SSR I No. 12.04**	59.00	Cum.	253.10	14932.90
3	Excavation for foundation in **soft rock** including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. **Sp. No**. 12.08 SSR I No. 12.08	35.00	Cum.	584.90	20471.50
4	Excavation for foundation in **Hard rock** including shoring and strutting as necessary and disposing off excavated stuff as SSR I No. 12.11	29.00	Cum.	2028.60	58829.40
5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/ quartzite/ gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surfaceand curingetc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix **SSR I No. 24.04**	13.00	Cum.	7327.00	95251.00

Item No.	Item	Quantity	Unit	Rate	Amount
6	Providing and laying Cast in situ/Ready Mix cement concrete M30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With **SSR I No. 17.30**	29.00	Cum.	9005.30	261153.70
7	Providing and laying insitu /ready mix M-30 plain cement concrete of trap/ granite/ quartzite/ gneiss metal forcast incitu piers, abutment, returns, wingsetc. including provision of "V"shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel formwork centering (excluding dewatering by means of pump) and including bailling out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in following manners (a) Height upto 5 M. (With Concrete Mixer) With fine agreegates of required specifications (VSI sand finely washed etc) i)Height upto 5m, normal rate. ii)Height 5 to 7.50 m, add 5percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. **SSR I No. 17.41**	58.40	Cum.	9343.40	545654.56
8	Providing and laying in situ/ ready mix M-30 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work insolid/ deckslabetc. including ramming, vibrating, curing, formwork, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine agreegates of required specifications (VSI sand finely washed etc) i)Height upto 5 m, normal rate. ii) Height 5 to 7.50 m, add 5 percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. **SSR I No. 14.17**	14.00	Cum.	12301.20	172216.80
9	Providing, cutting, bending, hooking, tying and laying in position TMT FE 500 steel bars for reinforcement for all RCC works as per detailed drawings etc. complete. **SP. NO. BR35/134** **(SSR. I. No.14.01**	11.10	M.T.	92758.10	1029614.91

5- Bardanphata to Amrut Garden.. Final

Item No.	Item	Quantity	Unit	Rate	Amount
10	Dewatering including **diversion of stream,** providing coffer dam, bunds etc. as may be necessary for foundation and other parts of work and **bailing out and pumping out water** during and after excavation as required. **D.S.R.I.NO. 12.12**	240.00	Hrs	187.90	45096.00
11	Providing **Earth work in embankment** by manually with approved material obtained from Government land with 50m lead, by using laying in layars, breaking clods, dressing to required lines curves grade, and section watering and compaction complete.**(a) 95% proctor Density.** Sp.no.Rd.12Page No. 189/M.O.S.T.1995 CI.No.305 (SSR. I. No. 2.28	42.00	Cum	1263.20	53054.40
				Total	**2302890.17**
				Say	**2302890.00**
	Royalty fot Earth work Embankment	52.50	Cum	216.18	11349.45
				Total	**11349.45**
				Say	**11349.00**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik.

Proposed Box Culvert at MAHINDRA COMPANY INFRONT OF PARTH HOTEL, Nashik

Measurement Sheet

ITE No.	PARTICULARS	No.	LENGT	BREADTH	HEIGHT DEPTH	QUANTITY	UNIT
1	**Excavation in soft soil** (lift 3.00 1.50M)						
	For New Culvert	1	16.00	4.80	0.60	46.08	Cum.
	For Returns	4	5.50	1.80	0.60	23.76	Cum.
					Total	69.84	Cum.
					Say	**70.00**	**Cum.**
2	**Excavation in Hard Murum** (Lift upto 3.00M)						
	For New Culvert	1	16.00	4.80	0.50	38.40	Cum.
	For Returns	4	5.50	1.80	0.50	19.80	Cum.
					Total	58.20	Cum.
					Say	**59.00**	**Cum.**
3	**Excavation in Soft Rock**(Lift upto						
	For New Culvert	1	16.00	4.80	0.30	23.04	Cum.
	For Returns	4	5.50	1.80	0.30	11.88	Cum.
					Total	34.92	Cum.
					Say	**35.00**	**Cum.**
4	**Excavation in Hard Rock**(Lift upto						
	For New Culvert	1	16.00	4.50	0.30	21.60	Cum.
	For Returns	4	5.50	1.50	0.20	6.60	Cum.
					Total	28.20	Cum.
					Say	**29.00**	**Cum.**
5	**P.C.C. (1:2:4)**						
	For New Culvert	1	14.00	4.20	0.15	8.82	Cum.
	For Returns	4	5.50	1.20	0.15	3.96	Cum.
					Total	12.78	Cum.
					Say	**13.00**	**Cum.**
6	**R.M.C. M-30 For Raft**						
	For New Culvert	1	13.00	3.90	0.40	20.28	Cum
	For Returns	4	5.00	0.90	0.40	7.20	Cum
	Chamfer						
	For New Culvert	2	13.00	0.30	0.15	1.17	Cum
					Total	28.65	Cum.
					Say	29.00	Cum.

MAHINDRA(MEA)

ITE No.	PARTICULARS	No.	LENGT	BREADTH	HEIGHT DEPTH	QUANTITY	UNIT
7	**R.M.C. M-30 For Retaining Wall**						
	For New Culvert	2	13.00	0.40	3.30	34.32	Cum.
	For Returns	4	5.00	0.40	3.00	24.00	Cum.
					Total	58.32	**Cum**
					Say	**58.40**	**Cum**
8	**R.C.C. M:30 for Solid Deck Slab**						
	For New Culvert	1	13.00	3.00	0.33	12.68	Cum
	Chamfer						
	For New Culvert	1	13.00	0.30	0.15	0.59	Cum
					Total	13.26	Cum.
					Say	**14.00**	**Cum.**
9	**TMT Steel from Integrated Plant**						
	Raft	29.00	x	95.00	kg/cum	2755.00	Kgs.
	For Slab	14.00	x	110.00	kg/cum	1540.00	Kgs.
	For Retaining Wall	58.40	x	115.00	kg/cum	6716.00	Kgs.
					Total	11.01	M.T.
					Say	**11.10**	**M.T.**
10	**Dewatering**						
	4 hrs daily for 2 months					240.00	Hrs
					Total	**240.00**	Hrs
					Say	**240.00**	**Hrs**
11	**Earthwork in Embankment**						
	60% of Item No.3					42.00	Cum
					Total	**42.00**	**Cum**
					Say	**42.00**	**Cum**
	Royalty fot Earth work Embankment		42.00	1.25		**52.50**	**Cum**
					Total	**52.50**	**Cum**
					Say	**52.50**	**Cum**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik

Deputy Engineer
PWD Satpur, NMC Nashik

Executive Engineer
PWD Satpur, NMC Nashik.

Proposed Box Culvert at MAHINDRA COMPANY INFRONT OF PARTH HOTEL, Nashik

Quality Control

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
1	Providing and laying in situ / ready mix cement concrete of Mix-15 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine agreegates of required specifications (VSI sand finely washed etc.)	13.00	Cubic Metre	Cement	0.22000	2.86	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4700	6.11	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
							1	BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1	3960.00	3960.00
2	M-30 for RCC Foundation with VSI Sand.	29.00	Cubic Metre	Cement	0.40000	11.60	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	3	725.00	2175.00
				Sand	0.4250	12.33	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
3	M-30 for Head Wall With Natural / VSI Sand.	58.40	Cubic Metre	Cement	0.35000	20.44	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	4	725.00	2900.00
	C.D.Works			Cr.Metal	0.8900	51.98	20	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00

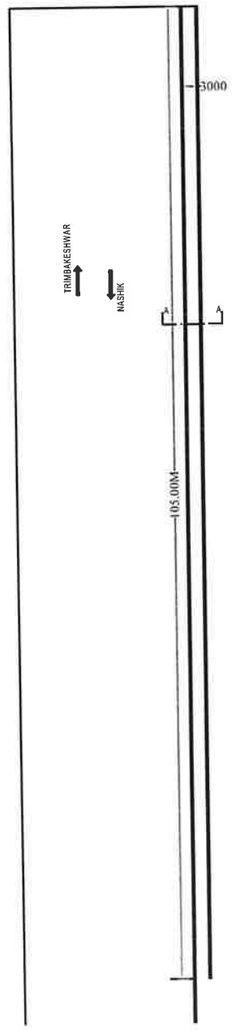
Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
				Sand	0.4450	25.99	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
4	M-30 for solid/ deck slab for height up to 4 m with V.S.I. Sand.	14.00	Cubic Metre	Cement	0.38000	5.32	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4500	6.30	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
5	TMT FE-500 steel bars for R.C.C. Bridge works.	11.10	Metric Tonne	Steel	1.00000	11.10	72	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	3	1340.00	4020.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
	BR Super Structure				0.0000	0.00	73	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	3	1675.00	5025.00
6	Providing earthwork from Other sources.	42.00	Cubic Metre	Earth	1.00000	42.00	31	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
	Road Subgrade				0.0000	0.00	33	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
								Total Quality Control Testing Charges			**Rs.63,600.00**

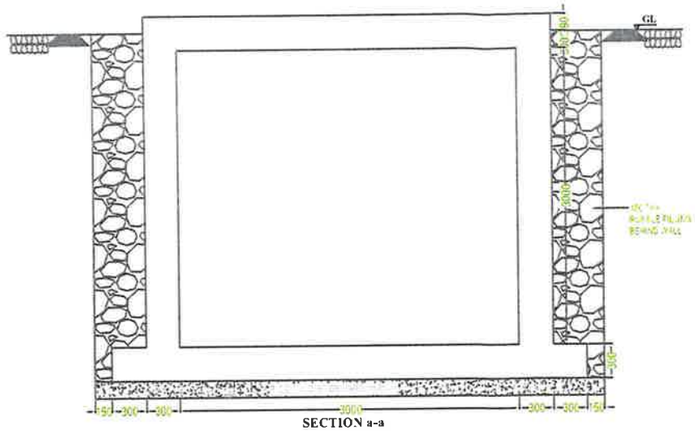
JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

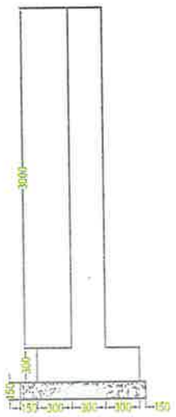
Executive Engineer
PWD Satpur, NMC Nashik.



TENTATIVE SITE LAYOUT



SECTION a-a



DETAILS OF RETURN

GENERAL NOTES :-

1. READ THIS DRAWING ALONG WITH ARCHITECT'S AND SERVICE DRAWING.
2. DRAWING SHALL NOT BE SCALED.
3. Ø DENOTES MILD STEEL Fe : 250 N/Sqmm CONFIRMING TO : IS 432.
4. T DENOTES TOR STEEL Fe : 500 N/Sqmm CONFIRMING TO : IS 1766.
5. LAP LENGTH & ANCHOR LENGTH(DEVELOPEMENT LENGTH) SHALL BE (56 X DIAMETER OF BAR).
6. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE PILE CAP : 60 mm, COL. : 50 mm, BEAM : 35 mm, SLAB & HIDDEN BEAM : 20 mm.
7. STRUCTURAL CONCRETE TO BE M-30 (IS : 456 - 2000).
8. MINIMUM CURING TO ALL R. C. C. ITEMS TO BE 28 DAYS.
9. W.C. RATIO SHALL BE STRICTLY FOLLOWED AS PER INSTRUCTIONS
10. ANY DISCREPANCY OR OMISSIONS MUST BE IMMEDIATELY NOTICE PRIOR TO EXECUTION.
11. EXCAVATION SHOULD BE CARRIED OUT UP TO HARD STRATA.
12. WE SHALL NOT RENAIN RESPONSIBLE FOR CONCRETE MIX, QUALITY, SHUTTERING, CURING, CONSTRUCTION MATERIAL, WORKMANSHIP, FAULTY CONSTRUCTION PROCEDURE AND SAFETY OF ADJOINING STRUCTURE & THE SAFETY OF LABOUR OR ANY ACCIDENT
13. MINIMUM CLEAR COVER PILE AND PILE CAP SHALL BE : 60mm, FOR RAFT SLAB : 25MM
14. THE SAFE BEARING CAPACITY OF THE PILE ASSUMED TO BE, FOR 600MM Ø = 64 TONS . AS PER PILE TESTING REPORT AND FOUNDATION SYSTEM DESIGNED ACCORDINGLY.

JE/AE-I/Sect. Engineer,
Public Work Division , Satpur
Nashik Muncipal Corpoation,Nashik

Divisional Engineer,
Public Work Division, Satpur
Nashik Muncipal Corporation,Nashik

Executive Engineer,
Public Work Division, Satpur
Nashik Muncipal Corporation,Nashik

ALL DIMENSIONS ARE IN MM

REMARK	NO	DATE	REMARK

CLIENT:

NASHIK MUNICIPAL CORPORATION
Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra

DPR CONSULTANT:

CIVILTECH INDIA PVT.LTD.
Plot No. B-45 , NICE Industrial Area, MIDC. Satpur NASHIK - 422007
CALL - (0253)3508900,(0253)2575282
MOB - 8600134999

PREPARED BY: LAXMI L. SURYAWANSHI

CHECKED BY: MADHUMATI HERAKAL

APPROVED BY:

PROJECT NAME: IMPROVEMENT OF OUTER RING ROAD FROM BARDAN PHATA - GANGAPUR ROAD TO SULA CHOWK TRIMBAK ROAD

TITLE: PROPOSED BOX CULVERT AT SADHANA MISAL TO BARDAN PHATA, NASHIK

REVISION: R0

CIVIL TECH INDIA PVT LTD

Nashik Municipal Corporation, Nashik.

Public Works Department

Facesheet

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Proposed Box Culvert at Sadhana Misal To Bardan Phata, for Nashik Municipal Corporation, Nashik

Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
1		Civil Cost			25,483,819.00		
2		Royalty-Structures			90,471.00		
3		Quality Control Tests for Structures			171,155.00		
		Total Civil Cost			**25,745,445.00**		**Sq.m**
		Total cost of Project in Cr.			**2.57**		

DPR Consultant

Authorized Signitory
CivilTech India Pvt, Ltd.

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik

5- Bardanphata to Amrut Garden.. Final

Proposed Box Culvert at Sadhana Misal To Bardan Phata, for Nashik Municipal Corporation, Nashik

Abstract Sheet

Item No.	Item	Quantity	Unit	Rate	Amount
1	Excavation for foundation in **earth, soils of all types, sand, gravel, soft murum** including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. **Sp.No.BR3/102** **Lift upto 3.0 m.** **SSR I No. 12.03**	558.00	Cum.	94.50	52731.00
2	Excavation for foundation in **hard murum** and boulders including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. **SP.No. BR3/102** **I Lift upto 3.0 m** **SSR I No. 12.04**	465.00	Cum.	253.10	117691.50
3	Excavation for foundation in **soft rock** including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. **Sp. No**. 12.08 SSR I No. 12.08	279.00	Cum.	584.90	163187.10
4	Excavation for foundation in **Hard rock** including shoring and strutting as necessary and disposing off excavated stuff as SSR I No. 12.11	257.00	Cum.	2028.60	521350.20
5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/ quartzite/ gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering, formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surfaceand curingetc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade) **SSR I No. 24.04**	128.00	Cum	7327.00	937856.00

5- Bardanphata to Amrut Garden.. Final 20-9-25.....

Item No.	Item	Quantity	Unit	Rate	Amount
6	Providing and laying Cast in situ/Ready Mix cement concrete M30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand Sp. No.: ,MORTH (5tH **SSR I No. 17.30**	327.00	Cum	9005.30	2944733.10
7	Providing and laying insitu /ready mix M-30 plain cement concrete of trap/ granite/ quartzite/ gneiss metal forcast incitu piers, abutment, returns, wingsetc. including provision of "V"shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel formwork centering (excluding dewatering by means of pump) and including bailling out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in following manners (a) Height upto 5 M. (With Concrete Mixer) With fine agreegates of required specifications (VSI sand finely washed etc) i)Height upto 5m, normal rate. ii)Height 5 to 7.50 m, add 5percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv)Over 10m Height, add 10 percent extra for every 2.50m **SSR I No. 17.41**	499.20	Cum	9343.40	4664225.28
8	Providing and laying insitu /ready mix M-30 plain cement concrete of trap/ granite/ quartzite/ gneiss metal forcast incitu piers, abutment, returns, wingsetc. including provision of "V"shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel formwork centering (excluding dewatering by means of pump) and including bailling out water and curing finishing in CM 1:3 etc. complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in following manners (a) Height upto 5 M. (With Concrete Mixer) With fine agreegates of required specifications (VSI sand finely washed etc) i)Height upto 5m, normal rate. ii)Height 5 to 7.50 m, add 5percent extra over basic rate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv)Over 10m Height, add 10 percent extra for every 2.50m **SSR I No. 14.17**	329.00	Cum	12301.20	4047094.80

Item No.	Item	Quantity	Unit	Rate	Amount
9	Providing, cutting, bending, hooking, tying and laying in position TMT FE 500 steel bars for reinforcement for all RCC works as per detailed drawings etc. complete. SP. NO. [illegible] **(SSR. I. No.14.01**	124.70	M.T.	92758.10	11566935.07
10	Dewatering including **diversion of stream,** providing coffer dam, bunds etc. as may be necessary for foundation and other parts of work and **bailing out and pumping out water** during and after excavation as required. **D.S.R.I.NO. 12.22**	240.00	Hrs	187.90	45096.00
11	Providing **Earth work in embankment** by manually with approved material obtained from Government land with 50m lead, by using laying in layars, breaking clods, dressing to required lines curves grade, and section watering and compaction complete.**(a) 95% proctor Density.** Sp.no.Rd.12Page No. 189/M.O.S.T.1995 CI.No.305 (SSR. I. No. 2.28	334.80	Cum	1263.20	422919.36
				Total	**25483819.41**
				Say	**25483819.00**
	Royalty fot Earth work Embankment	418.50	Cum	216.18	90471.33
				Total	**90471.33**
				Say	**90471.00**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik.

5- Bardanphata to Amrut Garden.. Final

Proposed Box Culvert at Sadhana Misal To Bardan Phata, for Nashik Municipal Corporation, Nashik

Measurement Sheet

ITE No.	PARTICULARS	No.	LENGTH	BREADT	HEIGHT DEPTH	QUANTI	UNIT
1	**Excavation in soft soil** (lift 3.00 1.50M)						
		1	185.00	4.80	0.60	532.80	Cum.
	For Returns	4	5.50	1.90	0.60	25.08	Cum.
					Total	557.88	Cum.
					Say	**558.00**	**Cum.**
2	**Excavation in Hard Murum** (Lift upto 3.00M)						
	For New Culvert	1	185.00	4.80	0.50	444.00	Cum.
	For Returns	4	5.50	1.90	0.50	20.90	Cum.
					Total	464.90	Cum.
					Say	**465.00**	**Cum.**
3	**Excavation in Soft Rock**(Lift upto 3.00M)						
	For New Culvert	1	185.00	4.80	0.30	266.40	Cum.
	For Returns	4	5.50	1.90	0.30	12.54	Cum.
					Total	278.94	Cum.
					Say	**279.00**	**Cum.**
4	**Excavation in Hard Rock**(Lift upto						
	For New Culvert	1	185.00	4.50	0.30	249.75	Cum.
	For Returns	4	5.50	1.60	0.20	7.04	Cum.
					Total	256.79	Cum.
					Say	**257.00**	**Cum.**
5	**P.C.C. (1:2:4)**						
	For New Culvert	1	182.00	4.50	0.15	122.85	Cum.
	For Returns	4	5.50	1.30	0.15	4.29	Cum.
					Total	127.14	Cum.
					Say	**128.00**	**Cum.**
6	**R.M.C. M-30 For Raft**						
	For New Culvert	1	180.00	4.20	0.40	302.40	Cum
	For Returns	4	5.00	1.00	0.40	8.00	Cum
	Chamfer						
	For New Culvert	2	180.00	0.30	0.15	16.20	Cum
					Total	326.60	Cum.
					Say	**327.00**	**Cum.**

5- Bardanphata to Amrut Garden.. Final

ITE No.	PARTICULARS	No.	LENGTH	BREADT	HEIGHT DEPTH	QUANTI	UNIT
7	**R.M.C. M-30 For Retaining Wall**						
	For New Culvert	2	180.00	0.40	3.30	475.20	Cum.
	For Returns	4	5.00	0.40	3.00	24.00	Cum.
					Total	499.20	**Cum**
					Say	**499.20**	**Cum**
8	**R.C.C. M:30 for Solid Deck Slab**						
	For New Culvert	1	180.00	4.00	0.45	320.40	Cum
	Chamfer						
	For New Culvert	1	180.00	0.30	0.15	8.10	Cum
					Total	328.50	Cum.
					Say	**329.00**	**Cum.**
9	**TMT Steel from Integrated Plant**						
	Raft	327.00	x	95.00	kg/cum	31065.00	Kgs.
	For Slab	329.00	x	110.00	kg/cum	36190.00	Kgs.
	For Retaining Wall	499.20	x	115.00	kg/cum	57408.00	Kgs.
					Total	124.66	M.T.
					Say	**124.70**	**M.T.**
10	**Dewatering**						
	4 hrs daily for 2 months					240.00	Hrs
					Total	**240.00**	Hrs
					Say	**240.00**	**Hrs**
11	**Earthwork in Embankment**						
	60% of Item No.3					334.80	Cum
					Total	**334.80**	**Cum**
					Say	**334.80**	**Cum**
	Royalty fot Earth work Embankment		334.80	1.25		**418.50**	**Cum**
					Total	**418.50**	**Cum**
					Say	**418.50**	**Cum**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik.

Proposed Box Culvert at Sadhana Misal To Bardan Phata, for Nashik Municipal Corporation, Nashik

Quality Control

Frequency of Quality Control Tests As specified in S.S.R. and MORT&H: 2013, Section 900

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
1	Providing and laying in situ / ready mix cement concrete of Mix-15 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine agreegates of required specifications (VSI sand finely washed etc.)	128.00	Cubic Metre	Cement	0.22000	28.16	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	6	725.00	4350.00
				Sand	0.4700	60.16	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00
							1	BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1	3960.00	3960.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
2	M-30 for RCC Foundation with VSI Sand.	327.00	Cubic Metre	Cement	0.40000	130.80	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	10	725.00	7250.00
	BR New			Cr.Metal	0.8500	277.95	20	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00
				Sand	0.4250	138.98	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	2	895.00	1790.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
3	M-30 for Head Wall With Natural / VSI Sand.	499.20	Cubic Metre	Cement	0.35000	174.72	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	13	725.00	9425.00
	C.D.Works			Cr.Metal	0.8900	444.29	20	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00
				Sand	0.4450	222.14	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	3	725.00	2175.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	3	895.00	2685.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
4	M-30 for solid/ deck slab for height up to 4 m with V.S.I. Sand.	329.00	Cubic Metre	Cement	0.38000	125.02	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	10	725.00	7250.00
				Sand	0.4500	148.05	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	2	895.00	1790.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
5	TMT FE-500 steel bars for R.C.C. Bridge works.	124.70	Metric Tonne	Steel	1.00000	124.70	72	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	25	1340.00	33500.00
	BR Super Structure				0.0000	0.00	73	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	25	1675.00	41875.00
6	Providing earthwork from Other sources.	334.80	Cubic Metre	Earth	1.00000	334.80	31	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	11	12	13
	Road Subgrade				0.0000	0.00	33	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
								Total Quality Control Testing Charges			**Rs.1,71,155.00**

JE/AE-I/Sect. Engineer
PWD Satpur, NMC Nashik.

Deputy Engineer
PWD Satpur, NMC Nashik.

Executive Engineer
PWD Satpur, NMC Nashik.

DPR FOR SATPUR DIVISION

CLIENT:

Executive Engineer Satpur Division NMC Nashik.

TABLE OF CONTENT

1. **PAVEMENT DESIGN** 1

2. **FWD** 42

2.1 INTRODUCTION 42

2.1.1 About Civil Tech 42
2.1.2 Civil Tech Team 43
2.1.3 Vision 43
2.1.4 Service Offering 43

2.2 PROJET DISCRIPTION 44

2.2.1 General 44
2.2.2 Scope of Work 44

2.3 FWD DATA COLLECTION, ANALYSIS AND RESULTS 46

2.3.1 FWD Data Collection 46
2.3.2 FWD Calculations and Interpretation 47
2.3.3 Range of Moduli 48
2.3.4 KGP Back Application 49
2.3.5 Correction for Temperature 52
2.3.6 Back calculated Moduli 52
2.3.7 Calculation of Remaining Life And Overlay Design 53

2.4 RESULT 56

2.4.1 Maximum And Normalized Deflection 56
2.4.2 Modulus Values 56
2.4.3 Discussion and Conclusion of Result Values 92

3. **CRUST THICKNESS REPORT** 94

4. **SOIL REPORT** 99

LIST OF FIGURES

Figure 2.2.1	On site Photo	45
Figure 2.3.1	Process Flow to Determine pavement Modulus Values	47
Figure 2.3.2	KGPback Data Input	50
Figure 2.3.3	KGPback Data Output	51
Figure 2.3.4	Opening Page – IITPAVE	54
Figure 2.3.5	Data Input File IITPAVE	55
Figure 2.3.6	Data Output File IITPAVE	55
Figure 4.1	Soil Collection On Site Photo	109

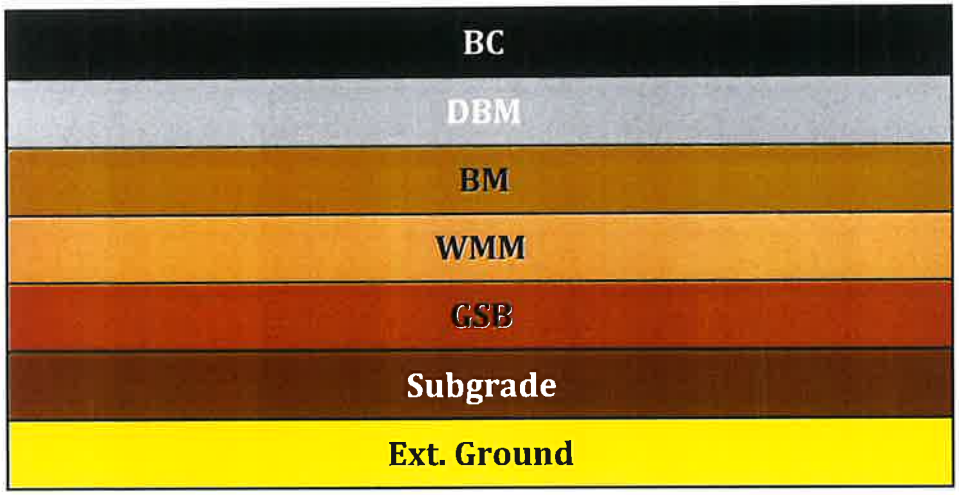
LIST OF TABLES

Table 2.2.1	Project Description	44
Table 2.3.1	Range of Moduli	48

DESIGN OF FLEXIBLE PAVEMENT AS PER IRC 37-2018-FOR WIDENING SECTION

1) Road 2.1 - Jehan Circle To Guruji hospital . Ch. 3+210 To 3+960
2) Road 2.2 - Guruji hospital to Pipeline road signal Ch. 3+960 To 4+230
3) Road 2.3 - Pipeline road signal to Vrundavan lawns Ch. 4+230 To 4+950
4) Road 2.4 - Vrundavan lawns to Hotel bobby's (Bendkule Nagar) Ch. 4+950 To 5+190
5) Road 2.5 - Hotel bobby's(Bendkule Nagar) to Treeland approach Ch. 5+190 To 5+910
6) Road 2.6 - Treeland approach to Someshwar mandir turn Ch. 5+910 To 6+720
7) Road 2.7 - Someshwar mandir turn to Bardan phata Ch. 6+720 To 7+110
8) Road 2.8 - Bardan phata to Gangapur gao upto nmc limit Ch. 7+110 To 8+190

DESIGN LIFE 20 YRS. & 40 MSA



Design of Subgrade Layer (As Per IRC:37-2018)

Input Data Considered For the determination of subgrade CBR (As Per IRC:37-2018 ANNEXURE-II.1)

1	Thickness of embankment soil (Assume) (mm)	=	300 mm	(lower layer)
2	Thickness of borrow material (Assume) (mm)	=	500 mm	(upper layer)
3	CBR of embankment soil (%)	=	9.1	
4	CBR of borrow material (%)	=	7.8	
5	Elastic modulus of embankment soil	=	72.33 Mpa	(lower layer)
6	Elastic modulus of borrow material	=	65.53 Mpa	(upper layer)
7	Consider a two-layer elastic system consisting of 500 mm of select borrow soil of modulus 65.53 MPa and the semi-infinite embankment soil of modulus 72.33 MPa			
	Consider			
8	Poisson's ratio for both the layers	=	0.35	
9	Single wheel load	=	40000 N	
10	Contact pressure (p)	=	0.56 Mpa	
11	Radius of circular contact area for this load and contact pressure (α)	=	150.8 mm	
12	Surface deflection at the centre of the load (δ)	=	2.22 .....Using IIT PAVE	
13	For an equivalent single layer system, the modulus value of the single layer which will produce the same surface deflection of 2.22 mm for the same load and for a Poisson's ratio of 0.35 = $[2(1-\mu^2)p\alpha]/\delta$	=	66.79 Mpa	
14	Effective CBR	=	8.04 %	
15	As per these design guidelines, the effective modulus value will be limited to 100 MPa for design purpose. The corresponding CBR (using equation 6.2 From IRC 37) is 8.04 % for 66.79 MPa.			

Design of Granullar & BT Layer (As Per IRC:37-2018)

●	Design Input			
	For an air void content, V_a (%)	=	3.5	....As per clause 12.3 of IRC 37:2018
	Effective bitumen content, V_{be} (%)	=	11.5	....As per clause 12.3 of IRC 37:2018
●	Cumulative Number of standard axles to be catered for in the design, N (msa)	=	40	....As Per Plate 4 Fig no. 12.4 of IRC 37:2018
●	Effective CBR of subgrade (%)	=	8.00	
●	Grade of Bitumen	=	VG40	
Calculation				
●	**Effective resilient modulus of subgrade (Mpa), 17.6*(CBR)^0.64**	=	**66.60**	.....Refer Eq. 6.1 and 6.2 As per IRC 37:2018
●	Select trial section			
	BC (mm)	=	40	
	DBM (mm)	=	60	
	BM (mm)	=	55	....Taken from Plate 4 Fig no. 12.4 of IRC 37:2018
	WMM (mm)	=	250	
	GSB (mm)	=	200	
	Total granular thk. (mm)	=	450	
●	**Resilient modulus of the granular layer (Mpa), $0.2(h)^{0.45}*M_{RSUPPORT}$**	=	**208.19**	.....Refer Eq. 7.1 As per IRC 37:2018
●	Use 90% reliability performance models for subgrade rutting and bituminous layer cracking (design traffic>20 msa)			
		=	0.000390	.....Refer Eq. 3.2 As per IRC 37:2018
●	**Allowable vertical compressive strain** on subgrade for a design traffic of 40 msa and for 90% reliability (using equation 3.2), $N_R=1.4100*10^{-08}[1/\varepsilon_V]^{4.5337}$			

- **Allowable horizontal tensile strain** at the bottom of bituminous layer for a design traffic of 40 msa, 90% reliability, air void content of 3.5% and effective binder volume of 11.5% (Using equation 3.4), $N_f=0.5161*C*10^{-04}[1/\varepsilon_t]^{3.89}*[1/M_{Rm}]^{0.854}$

m= 0.37
c= 2.35

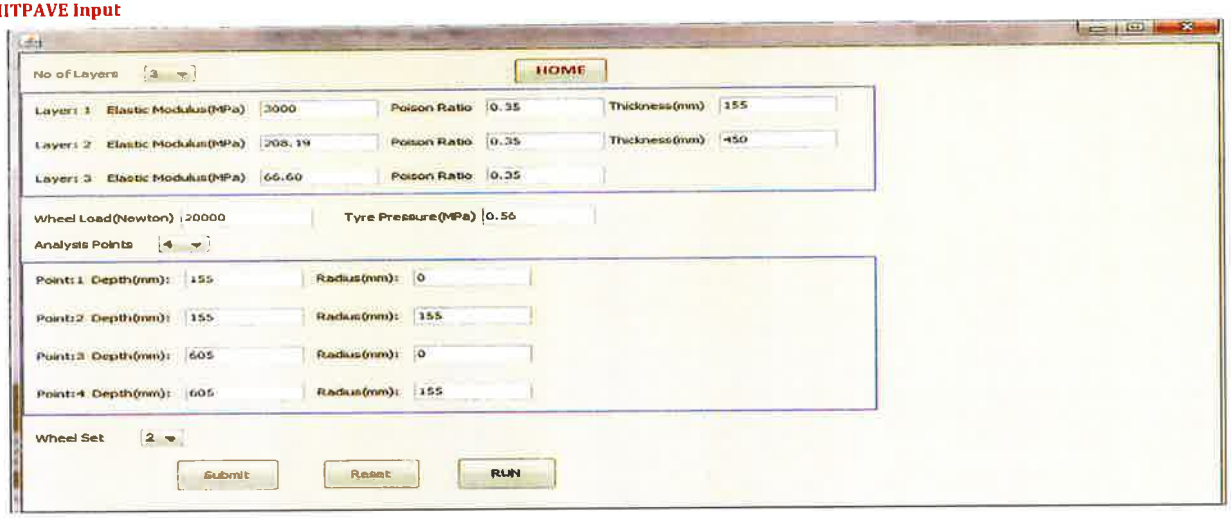
εt = 0.000189 .....Refer Eq. 3.4 As per IRC 37:2018

- Analyse the pavement using IITPAVE with the following inputs

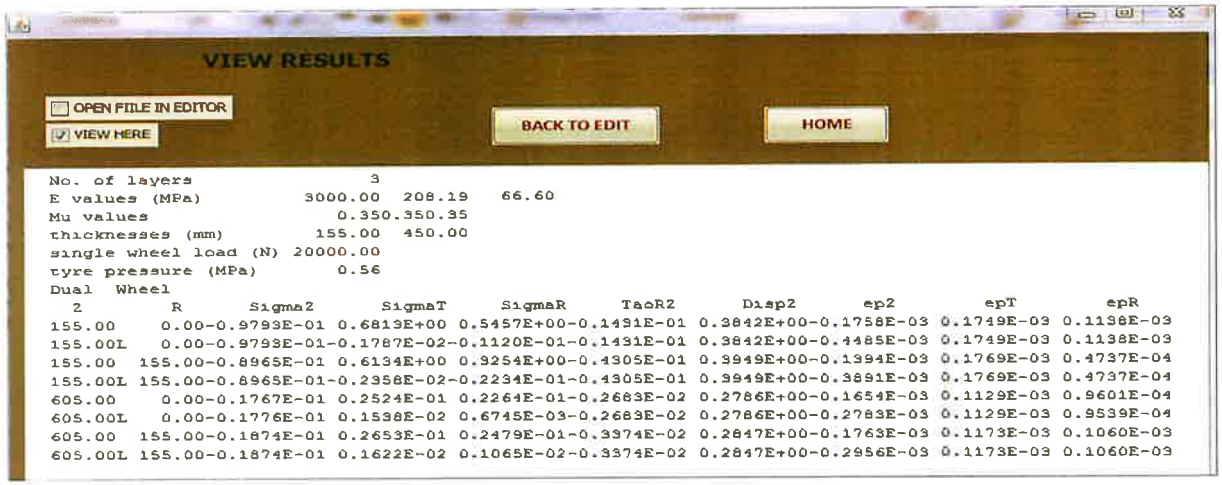
elastic moduli for
BT = 3000
Granular = 208.19
Subgrade = 66.60
Poissons ratio value for all three layers = 0.35
Layer Thicknesses
Crust = 155
Granular = 450

Computed starian values by IITPAVE				Allowable strain value	
Horizontal tensile strain (epT & εt)	=	0.000177	<	0.000189	ok
Vertical compressive strain (epZ & εV)	=	0.000296	<	0.000390	ok

IITPAVE Input



IITPAVE output




```
No. of layers                    3
E values (MPa)           3000.00  208.19   66.60
Mu values                   0.350.350.35
thicknesses (mm)          155.00  450.00
single wheel load (N) 20000.00
tyre pressure (MPa)         0.56
Dual  Wheel
  Z         R       SigmaZ       SigmaT      SigmaR      TaoRZ       DispZ       epZ         epT         epR
155.00     0.00-0.9793E-01 0.6813E+00 0.5457E+00-0.1491E-01 0.3842E+00-0.1758E-03 0.1749E-03 0.1138E-03
155.00L    0.00-0.9793E-01-0.1787E-02-0.1120E-01-0.1491E-01 0.3842E+00-0.4485E-03 0.1749E-03 0.1138E-03
155.00   155.00-0.8965E-01 0.6134E+00 0.9254E+00-0.4305E-01 0.3949E+00-0.1394E-03 0.1769E-03 0.4737E-04
155.00L  155.00-0.8965E-01-0.2358E-02-0.2234E-01-0.4305E-01 0.3949E+00-0.3891E-03 0.1769E-03 0.4737E-04
605.00     0.00-0.1767E-01 0.2524E-01 0.2264E-01-0.2683E-02 0.2786E+00-0.1654E-03 0.1129E-03 0.9601E-04
605.00L    0.00-0.1776E-01 0.1538E-02 0.6745E-03-0.2683E-02 0.2786E+00-0.2783E-03 0.1129E-03 0.9539E-04
605.00   155.00-0.1874E-01 0.2653E-01 0.2479E-01-0.3374E-02 0.2847E+00-0.1763E-03 0.1173E-03 0.1060E-03
605.00L  155.00-0.1874E-01 0.1622E-02 0.1065E-02-0.3374E-02 0.2847E+00-0.2956E-03 0.1173E-03 0.1060E-03
```

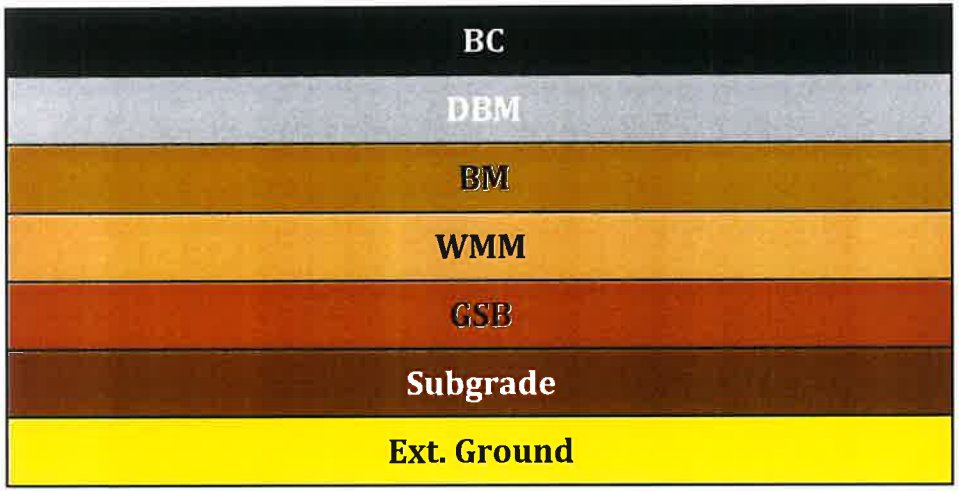
Pavement Composition as per Design

Thickness of BC	40	mm
Thickness of DBM	60	mm
Thickness of BM	55	mm
Thickness of WMM	250	mm
Thickness of GSB	200	mm
Thickness of Subgrade (CBR-7.3%)	500	mm
Ext. Ground		

DESIGN OF FLEXIBLE PAVEMENT AS PER IRC 37-2018-FOR WIDENING SECTION

1) Road 4.5 - Papaya nursery Signal to Hotel Amrut Ch. 6+270 To 7+050
2) Road 4.6 - Amrut garden chowk to NMC limit Pimpalgao Bahula Ch. 7+050 To 8+070

DESIGN LIFE 20 YRS. & 40 MSA



CIVIL TECH INDIA PVT LTD

Design of Subgrade Layer (As Per IRC:37-2018)

Input Data Considered For the determination of subgrade CBR (As Per IRC:37-2018 ANNEXURE-II.1)

1	Thickness of embankment soil (Assume) (mm)	=	300 mm	(lower layer)
2	Thickness of borrow material (Assume) (mm)	=	500 mm	(upper layer)
3	CBR of embankment soil (%)	=	8.8	
4	CBR of borrow material (%)	=	7.9	
5	Elastic modulus of embankment soil	=	70.79 Mpa	(lower layer)
6	Elastic modulus of borrow material	=	66.07 Mpa	(upper layer)
7	Consider a two-layer elastic system consisting of 500 mm of select borrow soil of modulus 66.07 MPa and the semi-infinite embankment soil of modulus 70.79 MPa			
	Consider			
8	Poisson's ratio for both the layers	=	0.35	
9	Single wheel load	=	40000 N	
10	Contact pressure (p)	=	0.56 Mpa	
11	Radius of circular contact area for this load and contact pressure (α)	=	150.8 mm	
12	Surface deflection at the centre of the load (δ)	=	2.21 .....Using IIT PAVE	
13	For an equivalent single layer system, the modulus value of the single layer which will produce the same surface deflection of 2.21 mm for the same load and for a Poisson's ratio of 0.35 = $[2(1-\mu^2)p\alpha]/\delta$	=	66.97 Mpa	
14	Effective CBR	=	8.07 %	
15	As per these design guidelines, the effective modulus value will be limited to 100 MPa for design purpose. The corresponding CBR (using equation 6.2 From IRC 37) is 8.07 % for 66.97 MPa.			

Design of Granullar & BT Layer (As Per IRC:37-2018)

●	Design Input			
	For an air void content, V_a (%)	=	3.5	....As per clause 12.3 of IRC 37:2018
	Effective bitumen content, V_{be} (%)	=	11.5	....As per clause 12.3 of IRC 37:2018
●	Cumulative Number of standard axles to be catered for in the design, N (msa)	=	40	....As Per Plate 4 Fig no. 12.4 of IRC 37:2018
●	Effective CBR of subgrade (%)	=	8.00	
●	Grade of Bitumen	=	VG40	
Calculation				
●	**Effective resilient modulus of subgrade (Mpa), 17.6*(CBR)^0.64**	=	**66.60**	.....Refer Eq. 6.1 and 6.2 As per IRC 37:2018
●	Select trial section			
	BC (mm)	=	40	
	DBM (mm)	=	60	
	BM (mm)	=	55	....Taken from Plate 4 Fig no. 12.4 of IRC 37:2018
	WMM (mm)	=	250	
	GSB (mm)	=	200	
	Total granular thk. (mm)	=	450	
●	**Resilient modulus of the granular layer (Mpa), $0.2(h)^{0.45}*M_{RSUPPORT}$**	=	**208.19**	.....Refer Eq. 7.1 As per IRC 37:2018
●	Use 90% reliability performance models for subgrade rutting and bituminous layer cracking (design traffic>20 msa)			
		=	0.000390	.....Refer Eq. 3.2 As per IRC 37:2018
●	**Allowable vertical compressive strain** on subgrade for a design traffic of 40 msa and for 90% reliability (using equation 3.2), $N_R=1.4100*10^{-08}[1/\varepsilon_V]^{4.5337}$			

wable horizontal tensile strain at the bottom of
minous layer for a design traffic of 40 msa, 90%
bility, air void content of 3.5% and effective binder
me of 11.5% (Using equation 3.4), $N_f=0.5161*C*10^{-}$
$/\varepsilon_t]^{3.89}*[1/M_{Rm}]^{0.854}$

m= 0.37
c= 2.35

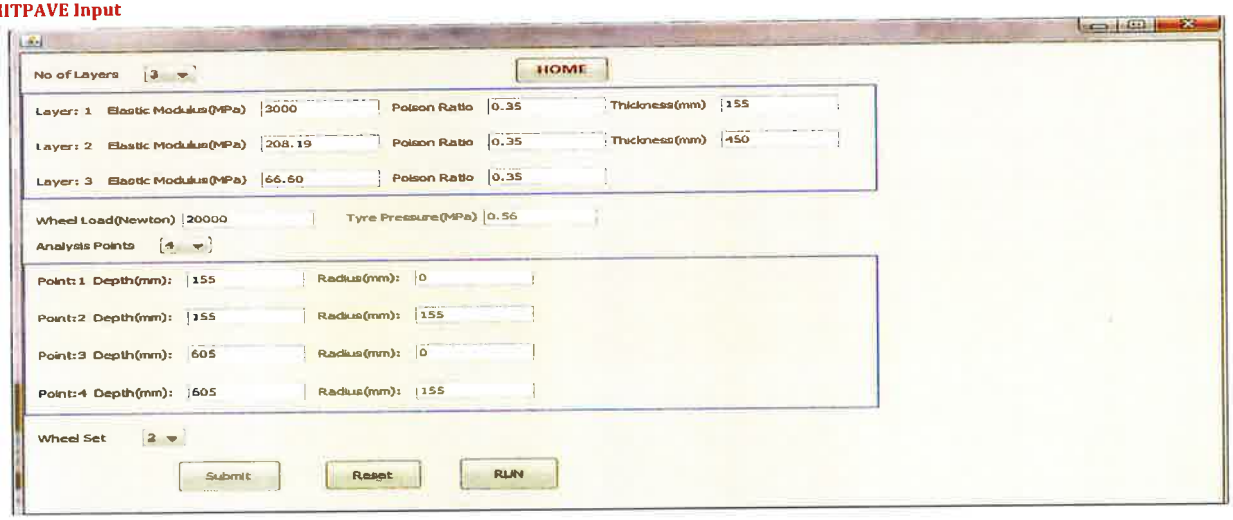
εt = 0.000189 .....Refer Eq. 3.4 As per IRC 37:2018

lyse the pavement using IITPAVE with the following inputs

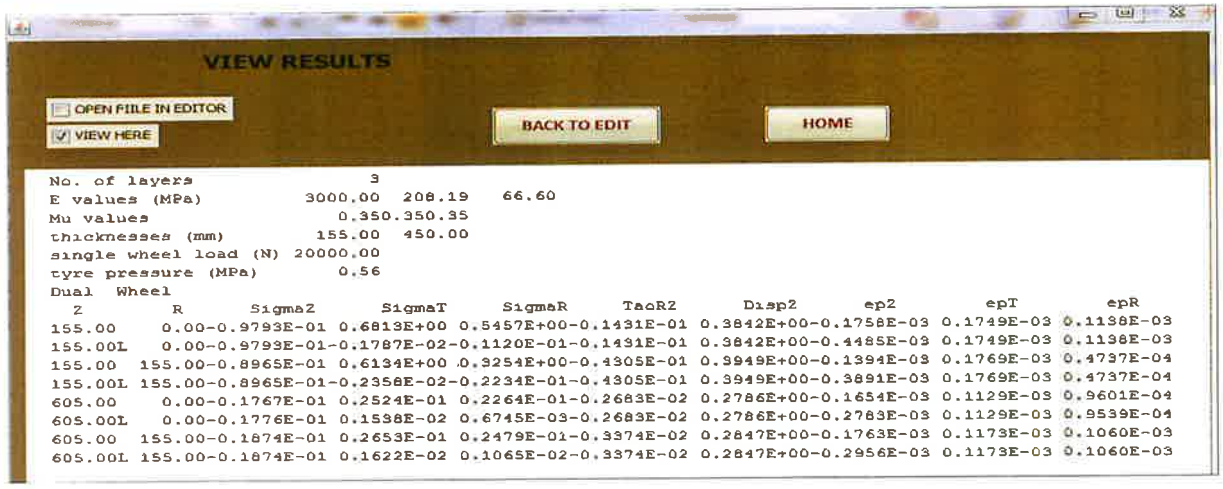
tic moduli for
= 3000
nular = 208.19
grade = 66.60
ssons ratio value for all three layers = 0.35
er Thicknesses
st = 155
nular = 450

Computed starian values by IITPAVE				Allowable strain value	
izontal tensile strain (epT & Et)	=	0.000177	<	0.000189	ok
tical compressive strain (epZ & EV)	=	0.000296	<	0.000390	ok

IITPAVE Input



IITPAVE output



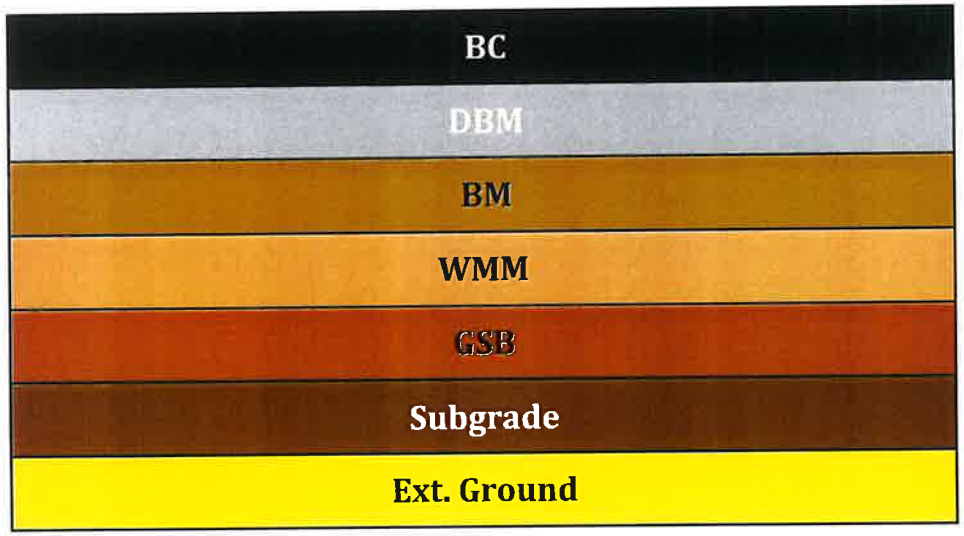
Pavement Composition as per Design

Thickness of BC	40	mm
Thickness of DBM	60	mm
Thickness of BM	55	mm
Thickness of WMM	250	mm
Thickness of GSB	200	mm
Thickness of Subgrade (CBR-7.9%)	500	mm
Ext. Ground		

DESIGN OF FLEXIBLE PAVEMENT AS PER IRC 37-2018-FOR WIDENING SECTION

1) Road 5.1 - Bardan Phata to Motiwala College. Ch. 0+000 To 0+900
2) Road 5.2 - Motiwala College to Baban Lawns Ch. 0+900 To 1+470
3) Road 5.3 - Baban lawns to Gajre Hospital Ch. 1+470 To 2+130
4) Road 5.4 - Gajre Hospital to Carbon Naka Ch. 2+130 To 2+700
5) Road 5.5 - Carbon Naka to Shramik Nagar Stop Ch. 2+700 To 3+390
6) Road 5.6 - Shramik Nagar to Ashok Nagar Police Station Ch. 3+390 To 4+230
7) Road 5.7 - Ashok Nagar Police Station to Amrut Garden Ch. 4+230 To 5+010

DESIGN LIFE 20 YRS. & 40 MSA



Design of Subgrade Layer (As Per IRC:37-2018)

Input Data Considered For the determination of subgrade CBR (As Per IRC:37-2018 ANNEXURE-II.1)

1	Thickness of embankment soil (Assume) (mm)	=	300	mm	(lower layer)
2	Thickness of borrow material (Assume) (mm)	=	500	mm	(upper layer)
3	CBR of embankment soil (%)	=	7.2		
4	CBR of borrow material (%)	=	8.2		
5	Elastic modulus of embankment soil	=	62.26	Mpa	(lower layer)
6	Elastic modulus of borrow material	=	67.66	Mpa	(upper layer)
7	Consider a two-layer elastic system consisting of 500 mm of select borrow soil of modulus 67.66 MPa and the semi-infinite embankment soil of modulus 62.26 MPa				
	Consider				
8	Poisson's ratio for both the layers	=	0.35		
9	Single wheel load	=	40000	N	
10	Contact pressure (p)	=	0.56	Mpa	
11	Radius of circular contact area for this load and contact pressure (α)	=	150.8	mm	
12	Surface deflection at the centre of the load (δ)	=	2.22	.....Using IIT PAVE	
13	For an equivalent single layer system, the modulus value of the single layer which will produce the same surface deflection of 2.22 mm for the same load and for a Poisson's ratio of 0.35 = $[2(1-\mu^2)p\alpha]/\delta$	=	66.64	Mpa	
14	Effective CBR	=	8.01	%	
15	As per these design guidelines, the effective modulus value will be limited to 100 MPa for design purpose. The corresponding CBR (using equation 6.2 From IRC 37) is 8.01 % for 66.64 MPa.				

Design of Granullar & BT Layer (As Per IRC:37-2018)

- Design Input

For an air void content, V_a (%)	=	3.5	....As per clause 12.3 of IRC 37:2018
Effective bitumen content, V_{be} (%)	=	11.5	....As per clause 12.3 of IRC 37:2018

- Cumulative Number of standard axles to be catered for in the design, N (msa) = 40 ....As Per Plate 4 Fig no. 12.4 of IRC 37:2018
- Effective CBR of subgrade (%) = 8.00
- Grade of Bitumen = VG40

Calculation

- **Effective resilient modulus of subgrade (Mpa), 17.6*(CBR)^0.64** = **66.60** .....Refer Eq. 6.1 and 6.2 As per IRC 37:2018
- Select trial section

BC (mm)	=	40	....Taken from Plate 4 Fig no. 12.4 of IRC 37:2018
DBM (mm)	=	60	
BM (mm)	=	55	
WMM (mm)	=	250	
GSB (mm)	=	200	
Total granular thk. (mm)	=	450	

- **Resilient modulus of the granular layer (Mpa), $0.2(h)^{0.45}*M_{RSUPPORT}$** = **208.19** .....Refer Eq. 7.1 As per IRC 37:2018
- Use 90% reliability performance models for subgrade rutting and bituminous layer cracking (design traffic>20 msa)

= 0.000390 .....Refer Eq. 3.2 As per IRC 37:2018

- **Allowable vertical compressive strain** on subgrade for a design traffic of 40 msa and for 90% reliability (using equation 3.2), $N_R=1.4100*10^{-08}[1/\varepsilon_V)^{4.5337}$

- **Allowable horizontal tensile strain** at the bottom of bituminous layer for a design traffic of 40 msa, 90% reliability, air void content of 3.5% and effective binder volume of 11.5% (Using equation 3.4), $N_f=0.5161*C*10^{-04}[1/\varepsilon_t]^{3.89}*[1/M_{Rm}]^{0.854}$

m= 0.37
c= 2.35

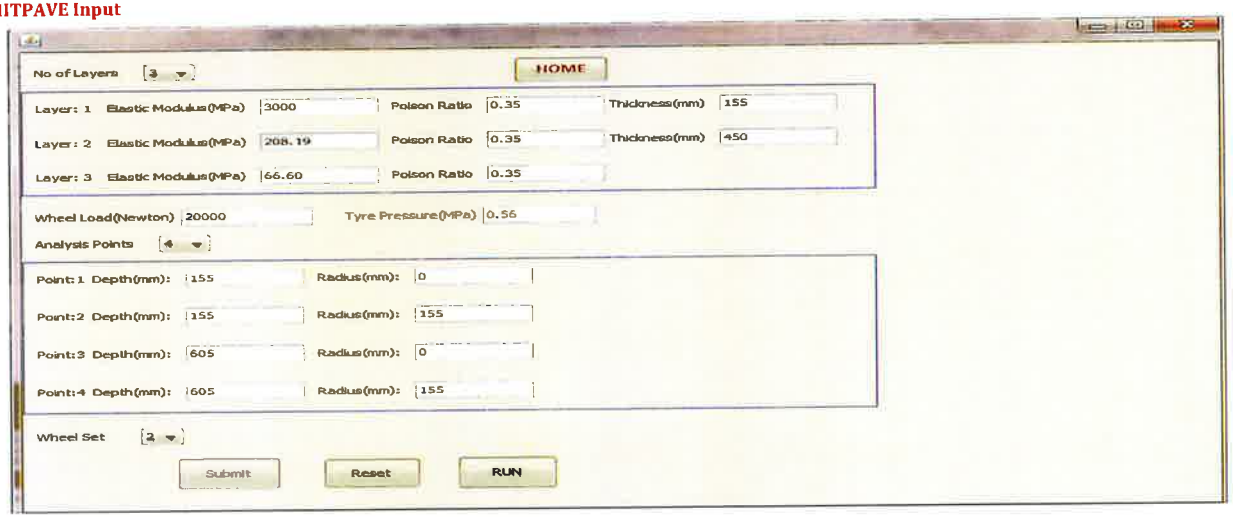
εt = 0.000189 .....Refer Eq. 3.4 As per IRC 37:2018

- Analyse the pavement using IITPAVE with the following inputs

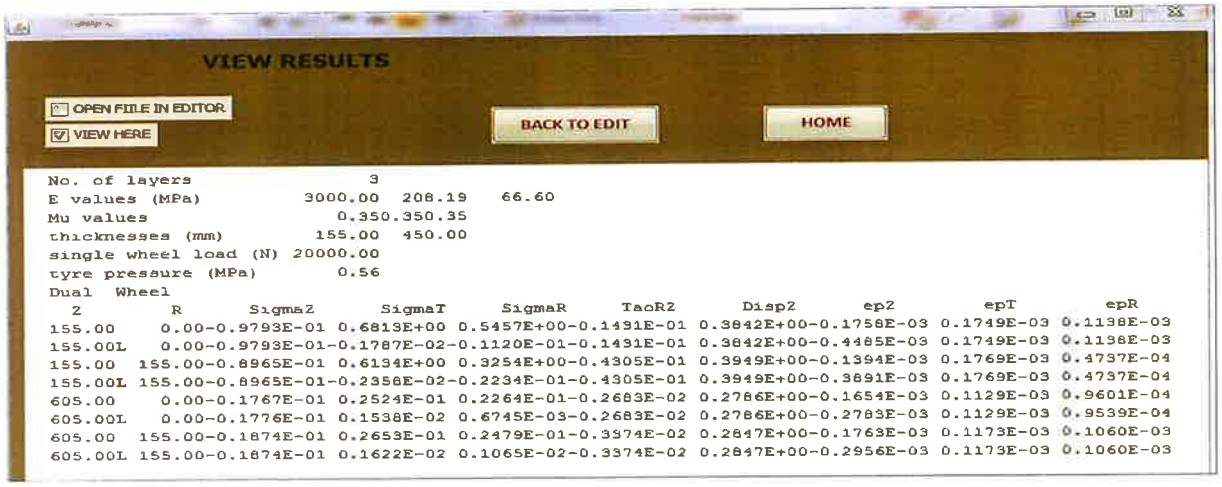
elastic moduli for
BT = 3000
Granular = 208.19
Subgrade = 66.60
Poissons ratio value for all three layers = 0.35
Layer Thicknesses
Crust = 155
Granular = 450

Computed starian values by IITPAVE				Allowable strain value	
Horizontal tensile strain (epT & Et)	=	0.000177	<	0.000189	ok
Vertical compressive strain (epZ & EV)	=	0.000296	<	0.000390	ok

IITPAVE Input



IITPAVE output




```
No. of layers                3
E values (MPa)          3000.00  208.19   66.60
Mu values                 0.350.350.35
thicknesses (mm)         155.00  450.00
single wheel load (N) 20000.00
tyre pressure (MPa)         0.56
Dual  Wheel
  Z         R       SigmaZ       SigmaT      SigmaR      TaoRZ       Disp2       ep2         epT         epR
155.00     0.00-0.9793E-01 0.6813E+00 0.5457E+00-0.1491E-01 0.3842E+00-0.1758E-03 0.1749E-03 0.1138E-03
155.00L    0.00-0.9793E-01-0.1787E-02-0.1120E-01-0.1491E-01 0.3842E+00-0.4485E-03 0.1749E-03 0.1138E-03
155.00   155.00-0.8965E-01 0.6134E+00 0.3254E+00-0.4305E-01 0.3949E+00-0.1394E-03 0.1769E-03 0.4737E-04
155.00L  155.00-0.8965E-01-0.2358E-02-0.2234E-01-0.4305E-01 0.3949E+00-0.3891E-03 0.1769E-03 0.4737E-04
605.00     0.00-0.1767E-01 0.2524E-01 0.2264E-01-0.2683E-02 0.2786E+00-0.1654E-03 0.1129E-03 0.9601E-04
605.00L    0.00-0.1776E-01 0.1538E-02 0.6745E-03-0.2683E-02 0.2786E+00-0.2783E-03 0.1129E-03 0.9539E-04
605.00   155.00-0.1874E-01 0.2653E-01 0.2479E-01-0.3374E-02 0.2847E+00-0.1763E-03 0.1173E-03 0.1060E-03
605.00L  155.00-0.1874E-01 0.1622E-02 0.1065E-02-0.3374E-02 0.2847E+00-0.2956E-03 0.1173E-03 0.1060E-03
```



Pavement Composition as per Design

Thickness of BC	40	mm
Thickness of DBM	60	mm
Thickness of BM	55	mm
Thickness of WMM	250	mm
Thickness of GSB	200	mm
Thickness of Subgrade (CBR-8.2%)	500	mm
Ext. Ground		

DESIGN OF RIGID PAVEMENT AS PER IRC 58-2015

Road 6 - Improvement of Outer Ring Road from Papaya Nursury chowk - Trimbak Road to Xlo Junction.



Indian Roads Congress Guidelines IRC:58-2015
for Design of Jointed Plain Concrete Pavements

Example of Design of Slab Thickness for Pavement

(Beta value will be 0.66 for dowelled transverse joint and 0.90 for without dowels)

Type of pavement considered	
Carriageway	4 - LANE DIVIDED
Shoulders :- Tied concrete shoulders ? (yes/no)	yes
Transverse joint spacing (m)	4.5
Lane width (m)	3.5
Transverse Joints have dowel bars? (yes/no)	yes
Design Traffic Estimation	
Design Period (years)	30
Total Two-way Commercial Traffic (cvpd) in the year of completion of construction	770
Av. Annual rate of growth of commercial traffic (expressed as decimal)	0.05
Cumulative No of Commercial vehicles during design period (two-way), A	18672638
Average No of axles per commercial vehicle, B (each tandem axle set is counted as one axle unit. Similarly, each tridem axle set is counted as one axle)	2.35
Cumulative No of Commercial Axles(steering,single, tandem,Tridem) during design period (two-way), C = A*B	43880700
Proportion of traffic in predominant direction , D	0.50
Design traffic factor (0.25 for 2-lane 2-way. For multilane highways the value is 0.25 X D), E	0.125
Traffic factor for BUC analysis (for six-hour period during day), F	0.2
Traffic factor for TDC analysis (for six-hour period during night), G	0.3
Design axle repetitions for BUC analysis (for 6 hour day time traffic), H = C*E*F	1097017
Proportion of vehicles with spacing between front and the first rear axle less than the spacing of transverse joints, I	0.55
Design axle repetitions for TDC analysis (for 6-hour night time traffic), J = C*E*G*I	905039
Proportion of Front single (steering) Axles, K1	0.480
Proportion of Rear single Axles,K2	0.428
Proportion of tandem Axles, K3	0.066
Proportion of Tridem Axles, K4 = (1-K1-K2-K3)	0.026

Pavement Structural Details	
Modulus of subgrade reaction of subgrade, MPa/m, For CBR-5.3	42.9
Thickness of Granular Subbase, mm	300
Thickness of Dry Lean Concrete subbase, mm	150
Effective modulus of subgrade reaction of foundation, MPa/m	218.35
Unit weight of Concrete, kN/m3	24
28-day Flexural strength of cement concrete, MPa	4.5
Max. day-time Temperature Differential in slab, 0C (for bottom-up cracking)	21
Night-time Temperature Differential in slab, 0C (for top-down cracking) = day-time diff/2 + 5	15.5
Trial Thickness of Concrete Slab, m	0.3
Load Transfer Efficiency Factor for TDC analysis, Beta = 0.66 for dowel joints, 0.90 for joints without dowels	0.66
Elastic Modulus of Concrete, Ec (MPa)	30000
Poisson's Ratio of Concrete, Mu	0.15
Radius of relative stiffness, m	0.74991
Design Axle Load Repetitions for Fatigue Analysis	
For Bottom-up Cracking Analysis	
Front single (steering) Axles = H * K1	526568
Rear single Axles = H * K2	469523
Tandem Axles = H * K3	72403
Tridem Axles = H * K4	28522
For Top-Down Cracking Analysis	
Front single (steering) Axles = J * K1	434419
Rear single Axles = J * K2	387357
Tandem Axles = J * K3	59733
Tridem Axles = J * K4	23531

Fatigue Analysis

Axle Load Spectrum Data

Rear Single Axle			Rear Tandem Axle			Rear Tridem Axle		
Load Group (kN)	Mid-Point of Load Group (kN)	Frequency (%)	Load Group (kN)	Mid-Point of Load Group (kN)	Frequency (%)	Load Group (kN)	Mid-Point of Load Group (kN)	Frequency (%)
185-195	190	0	380 - 400	390	0	530-560	545	0
175-185	180	0	360 - 380	370	0	500-530	515	0
165-175	170	0	340 - 360	350	0	470-500	485	0
155-165	160	0	320 - 340	330	0	440-470	455	0
145-155	150	0	300 - 320	310	0	410-440	425	19.2
135-145	140	0	280 - 300	290	0	380-410	395	10.1
125-135	130	0	260 - 280	270	6.66	350-380	365	25.3
115-125	120	6.68	240 - 260	250	15.98	320-350	335	18.2
105-115	110	4.68	220 - 240	230	26.42	290-320	305	18.2
95-105	100	4.53	200 - 220	210	15.98	260-290	275	0
85-95	90	3.78	180 - 200	190	4.77	230-260	245	0
< 85	80	80.33	< 180	170	30.19	< 230	215	9
		100			100			100

Fatigue Analysis

Bottom-up Cracking Fatigue Analysis for Day-time (6 hour) traffic and Positive Temperature Differential

Rear Single Axles					Rear Tandem Axles				
Expected Repetitions (ni)	Flex Stress MPa	Stress Ratio (SR)	Allowable Repetitions (Ni)	Fatigue Damage (ni/Ni)	Expected Repetitions (ni)	Flex Stress MPa	Stress Ratio (SR)	Allowable Repetitions (Ni)	Fatigue Damage (ni/Ni)
0	2.533	0.512	452533	0.000	0	2.158	0.436	infinite	0.000
0	2.462	0.497	864170	0.000	0	2.094	0.423	infinite	0.000
0	2.392	0.483	1937497	0.000	0	2.031	0.410	infinite	0.000
0	2.422	0.469	5675133	0.000	0	1.967	0.397	infinite	0.000
0	2.251	0.455	28449000	0.000	0	1.904	0.385	infinite	0.000
0	2.181	0.441	infinite	0.000	0	1.841	0.372	infinite	0.000
0	2.110	0.426	infinite	0.000	4822	1.777	0.359	infinite	0.000
31364	2.040	0.412	infinite	0.000	11570	1.714	0.346	infinite	0.000
21974	1.970	0.398	infinite	0.000	19129	1.65	0.333	infinite	0.000
21269	1.899	0.384	infinite	0.000	11570	1.587	0.321	infinite	0.000
17748	1.829	0.369	infinite	0.000	3454	1.523	0.308	infinite	0.000
377168	1.759	0.355	infinite	0.000	21859	1.46	0.295	infinite	0.000
469523	Fat Dam from Sing. Axles =			0.000	72403	Fat Dam from Tand Axles =			0.000
Total Bottom-up Fatigue Damage due to single and tandem axle loads =					0.000	+	0.000	=	0.000
DESIGN IS SAFE									

Top-Down Cracking Fatigue Analysis for Night-time (6 hour) traffic and Negative Temperature Differential

Rear Single Axles					Rear Tandem Axles (Stess computed for 50% of axle load)					Rear Tridem Axles (Stress computed for 33% of axle load)				
Expected Repetitions (ni)	Flex Stress MPa	Stress Ratio (SR)	Allowable Repetitions (Ni)	Fatigue Damage (ni/Ni)	Expected Repetitions (ni)	Flex Stress MPa	Stress Ratio (SR)	Allowable Repetitions (Ni)	Fatigue Damage (ni/Ni)	Expected Repetitions (ni)	Flex Stress MPa	Stress Ratio (SR)	Allowable Repetitions (Ni)	Fatigue Damage (ni/Ni)
0	2.511	0.507	545646	0.000	0	2.5351	0.512	443725	0.000	0	2.4707	0.499	795210	0.000
0	2.463	0.497	862157	0.000	0	2.4868	0.502	680417	0.000	0	2.4223	0.489	1334903	0.000
0	2.414	0.488	1467818	0.000	0	2.4384	0.493	1112837	0.000	0	2.374	0.480	2471265	0.000
0	2.366	0.478	2772316	0.000	0	2.3901	0.483	1986327	0.000	0	2.3256	0.470	5281778	0.000
0	2.318	0.468	6110275	0.000	0	2.3418	0.473	4018852	0.000	4518	2.2773	0.460	14232668	0.000
0	2.269	0.458	17365437	0.000	0	2.2934	0.463	9881584	0.000	2377	2.229	0.450	59461472	0.000
0	2.221	0.449	infinite	0.000	3978	2.2451	0.454	34338558	0.000	5953	2.1806	0.441	infinite	0.000
25875	2.173	0.439	infinite	0.000	9545	2.1967	0.444	infinite	0.000	4283	2.1323	0.431	infinite	0.000
18128	2.124	0.429	infinite	0.000	15781	2.1484	0.434	infinite	0.000	4283	2.0839	0.421	infinite	0.000
17547	2.076	0.419	infinite	0.000	9545	2.1	0.424	infinite	0.000	0	2.0356	0.411	infinite	0.000
14642	2.028	0.410	infinite	0.000	2849	2.0517	0.414	infinite	0.000	0	1.9872	0.401	infinite	0.000
311164	1.979	0.400	infinite	0.000	18033	2.0034	0.405	infinite	0.000	2118	1.9389	0.392	infinite	0.000
387357	Fat Dam from Sing. Axles =			0.000	59733	Fat Dam from Tand Axles =			0.000	23531	Fat Dam from Tridem Axles =			0.000
Total Top-Down Fatigue Damage =					0.000	+	0.000	+	0.000	=	0.000			
DESIGN IS SAFE														

Dowel Bar Design

Input Data Considered For Dowel Bar Design

1)	Slab Thickness, h (mm)	= 300
2)	Joint Width,z (mm)	= 20 mm (expansion joint), 5 mm (for contraction joint)
3)	Modulus of Subgrade reaction, k (Mpa/m)	= 42.9
4)	Radius of relative stiffness, l (mm)	= 749.91
5)	E for dowel bar (Mpa)	= 200000
6)	Modulus of dowel support, k_{mds} (Mpa/m)	= 415000
7)	Maximum Single axle load (kN)	= 120
8)	Maximum single wheel load (kN)	= 60 considering dual wheel as single wheel for a safe design)
9)	Assume a load transfer of 30% at terminal stage to the tied concrete shoulder. If no concrete shoulders are provided, no load transfer to shoulder may be assumed	
10)	Wheel load for dowel bar design (kN)	= 42
11)	Safety of the dowel bar is examined for a wheel load of 42 kN	
12)	Assume the percentage of load transfer through dowel bar as 50% for 100% joint efficiency. The load to be transferred (kN)	= 21
13)	Permissible bearing stress in concrete is calculated (using equation 15) as	
	$F_b = (101.6-b_d)F_{ck}/95.25$	
	Where,	
	Fck = characteristic compressive	= 40 Mpa for M40 grade
	b_d = diameter of the dowel bar (mm)	= 32 (assumed)
	$F_b = (101.6-bd)Fck/95.25$	= 29.23
14)	Spacing between the dowel bars (assumed)mm	= 300
15)	First dowel bar is placed at a distance of 150mm from the pavement edge	
16)	Assumed length of the dowel bar (mm)	= 600

17)	Dowel bars up to a distance of 1.0 x radius of relative stiffness (l), from the point of load application are effective in load transfer	
18)	Number of dowel bars participating in load transfer when the wheel load is just over the dowel bar close to the edge of the slab = 1 + l/spacing	= 3 dowels
19)	Assuming that the load transferred by the first dowel is Pt and that the load on dowel bar at a distance of l from the first dowel is zero, the total load transferred by dowel bar system = (1+ (l -1st dowel distance) /l + (l – 2nd dowel distance)/l + (l – 3rd dowel distance)/l)P_t	= 1.60 *p_t
20)	Load carried by the outer dowel bar, P_t (kN)	= 13.13
21)	Check for Bearing Stress	
22)	Moment of Inertia of Dowlel = $\prod(b_d)^4 64$ (mm^4)	= 51445.8
23)	Relative stiffness of dowel bar embedded in concrete, (mm^{-1}) $\beta = \sqrt[4]{\frac{k_{mds} b_d}{4EI}}$	= 0.024
24)	Bearing stress in dowel bar $F_{bmax} = (P_t X k_{mds}) X (2+\beta_z)/(4\beta^3 EI)$ (Mpa)	= 24.22 which is less than 29.23 MPa

Hence, the dowel bar spacing and diameter assumed are safe.

Tie Bar Design

Input Data Considered For Tie Bar Design

1)	Slab Thickness (m)	=	0.3
2)	Lane Width,b (m)	=	3.5
3)	Coefficient of Friction,f	=	1.5
4)	Density of Concrete, kN/m^3	=	24
5)	Allowable tensile stress in plain bars, MPa (As per IRC:15-2011)	=	125
6)	Allowable tensile stress in deformed bars, MPa (As per IRC:15-2011)	=	200
7)	Allowable bond stress for plain bars, Mpa	=	1.75
8)	Allowable bond stress for deformed bars, Mpa	=	2.46

Design For Plain bars

1)	Select diameter of tie bar, d_t (mm)	=	12	
2)	Area of plain steel bar required meter width of joint to resist the frictional force at slab bottom,A_s = bfW/S_{st}, (mm^2/m)	=	302.4	
3)	Cross sectional area of tie bar, A=$12^2X\prod/4$ (mm^2)	=	113.0	
4)	Perimeter of tie bar, $P_{ptb}=\prod d$ (mm)	=	37.7	
5)	Spacing of tie bars, = A/A_s (mm)	=	373.8	
6)	Provide a spacing of 370mm c/c Length of tie bar, $L=2XS_{st}XA/BXP_{ptb}$ (mm)	=	428.6	
7)	Increase length by 100 mm for loss of bond due to painting and another 50 mm for tolerance in placement.			
8)	Therefore, the required length of tie bar (mm)	=	578.6	say 580 mm

Design For Deformed bars

1)	Select diameterof tie bar, d_t (mm)	=	12
2)	Area of plain steel bar required per meter width of joint to resist the frictional force at slab bottom, $A_s = bfW/S_{st}$ (mm^2/m)	=	189
3)	Spacing of tie bars, = A/A_s (mm)	=	598.1
4)	Provide a spacing of 600 mm c/c		
5)	Length of tie bar, $L=2XS_{st}XA/BXP_{ptb}$ (mm)	=	487.8
6)	Increase length by 100 mm for loss of bond due to painting and another 50 mm for tolerance in placement.		
7)	Therefore, the required length of tie bar (mm)	=	637.8 say 640 mm

Tie Bar Design

Input Data Considered For Tie Bar Design

1)	Slab Thickness (m)	=	0.3
2)	Lane Width,b (m)	=	3.5
3)	Coefficient of Friction,f	=	1.5
4)	Density of Concrete, kN/m^3	=	24
5)	Allowable tensile stress in plain bars, MPa (As per IRC:15-2011)	=	125
6)	Allowable tensile stress in deformed bars, MPa (As per IRC:15-2011)	=	200
7)	Allowable bond stress for plain bars, Mpa	=	1.75
8)	Allowable bond stress for deformed bars, Mpa	=	2.46

Design For Plain bars

1)	Select diameter of tie bar, d_t (mm)	=	16
2)	Area of plain steel bar required meter width of joint to resist the frictional force at slab bottom,A_s = bfW/S_{st}, (mm^2/m)	=	302.4
3)	Cross sectional area of tie bar, $A=12^2X\prod/4$ (mm^2)	=	201.0
4)	Perimeter of tie bar, $P_{ptb}=\prod d$ (mm)	=	50.2
5)	Spacing of tie bars, = A/A_s (mm)	=	664.6
6)	Provide a spacing of 660 mm c/c Length of tie bar, $L=2XS_{st}XA/BXP_{ptb}$ (mm)	=	571.4
7)	Increase length by 100 mm for loss of bond due to painting and another 50 mm for tolerance in placement.		
8)	Therefore, the required length of tie bar (mm)	=	721.4 say 720 mm

Design For Deformed bars

1)	Select diameterof tie bar, d_t (mm)	=	12
2)	Area of plain steel bar required per meter width of joint to resist the frictional force at slab bottom, $A_s = bfW/S_{st}$ (mm^2/m)	=	189
3)	Spacing of tie bars, = A/A_s (mm)	=	1063.3
4)	Provide a spacing of 1060 mm c/c		
5)	Length of tie bar, $L=2XS_{st}XA/BXP_{ptb}$ (mm)	=	650.4
6)	Increase length by 100 mm for loss of bond due to painting and another 50 mm for tolerance in placement.		
7)	Therefore, the required length of tie bar (mm)	=	800.4 say 800 mm

Details of Dowel Bar And Tie Bars

Recommended Dimensions of Dowel Bars

Slab Thickness mm	Diameter, mm	Length, mm	Spacing, mm
300	32	600	300

Details of Tie Bars for Longitudinal Joint of Rigid Pavement

Slab Thickness mm	Diameter, mm	max. Spacing, mm		Minimum Length, mm	
		Plain	Deformed	Plain	Deformed
300	12	370	600	580	640
	16	660	1060	720	800

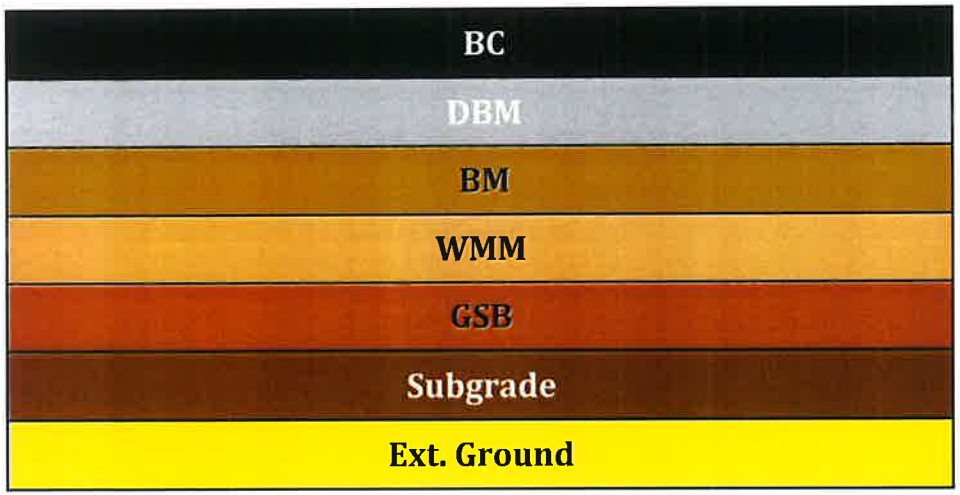
Pavement Composition



DESIGN OF FLEXIBLE PAVEMENT AS PER IRC 37-2018-FOR WIDENING SECTION

1) Road 10.1 - Bapu bridge to Gangajal nursery Ch. 1+260 To 1+830
2) Road 10.4 - Shivanagar to Bendkule mala Ch. 2+340 To 2+790

DESIGN LIFE 20 YRS. & 40 MSA



Design of Subgrade Layer (As Per IRC:37-2018)

Input Data Considered For the determination of subgrade CBR (As Per IRC:37-2018 ANNEXURE-II.1)

1	Thickness of embankment soil (Assume) (mm)	=	300 mm	(lower layer)
2	Thickness of borrow material (Assume) (mm)	=	500 mm	(upper layer)
3	CBR of embankment soil (%)	=	8.4	
4	CBR of borrow material (%)	=	7.9	
5	Elastic modulus of embankment soil	=	68.71 Mpa	(lower layer)
6	Elastic modulus of borrow material	=	66.07 Mpa	(upper layer)
7	Consider a two-layer elastic system consisting of 500 mm of select borrow soil of modulus 66.07 MPa and the semi-infinite embankment soil of modulus 68.71 MPa			
	Consider			
8	Poisson's ratio for both the layers	=	0.35	
9	Single wheel load	=	40000 N	
10	Contact pressure (p)	=	0.56 Mpa	
11	Radius of circular contact area for this load and contact pressure (α)	=	150.8 mm	
12	Surface deflection at the centre of the load (δ)	=	2.23 .....Using IIT PAVE	
13	For an equivalent single layer system, the modulus value of the single layer which will produce the same surface deflection of 2.23 mm for the same load and for a Poisson's ratio of 0.35 = $[2(1-\mu^2)p\alpha]/\delta$	=	66.61 Mpa	
14	Effective CBR	=	8.00 %	
15	As per these design guidelines, the effective modulus value will be limited to 100 MPa for design purpose. The corresponding CBR (using equation 6.2 From IRC 37) is 8.0 % for 66.61 MPa.			

Design of Granullar & BT Layer (As Per IRC:37-2018)

●	Design Input			
	For an air void content, V_a (%)	=	3.5	....As per clause 12.3 of IRC 37:2018
	Effective bitumen content, V_{be} (%)	=	11.5	....As per clause 12.3 of IRC 37:2018
●	Cumulative Number of standard axles to be catered for in the design, N (msa)	=	40	....As Per Plate 4 Fig no. 12.4 of IRC 37:2018
●	Effective CBR of subgrade (%)	=	8.00	
●	Grade of Bitumen	=	VG40	

Calculation

●	**Effective resilient modulus of subgrade (Mpa), 17.6*(CBR)^0.64**	=	**66.60**	.....Refer Eq. 6.1 and 6.2 As per IRC 37:2018
●	Select trial section			
	BC (mm)	=	40	....Taken from Plate 4 Fig no. 12.4 of IRC 37:2018
	DBM (mm)	=	60	
	BM (mm)	=	55	
	WMM (mm)	=	250	
	GSB (mm)	=	200	
	Total granular thk. (mm)	=	450	
●	**Resilient modulus of the granular layer (Mpa), 0.2(h)^0.45*$M_{RSUPPORT}$**	=	**208.19**	.....Refer Eq. 7.1 As per IRC 37:2018
●	Use 90% reliability performance models for subgrade rutting and bituminous layer cracking (design traffic>20 msa)			
		=	0.000390	.....Refer Eq. 3.2 As per IRC 37:2018
●	**Allowable vertical compressive strain** on subgrade for a design traffic of 40 msa and for 90% reliability (using equation 3.2), $N_R=1.4100*10^{-08}[1/\varepsilon_V)^{4.5337}$			

- **Allowable horizontal tensile strain** at the bottom of bituminous layer for a design traffic of 40 msa, 90% reliability, air void content of 3.5% and effective binder volume of 11.5% (Using equation 3.4), $N_f=0.5161*C*10^{-04}[1/\varepsilon_t]^{3.89}*[1/M_{Rm}]^{0.854}$

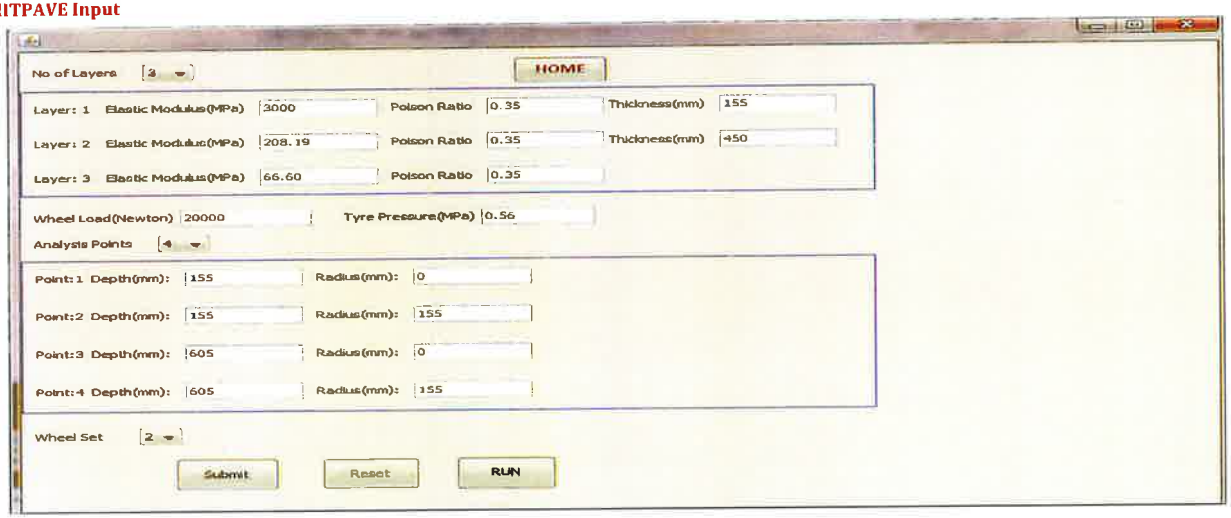
	m=	0.37	
	c=	2.35	
εt	=	0.000189	.....Refer Eq. 3.4 As per IRC 37:2018

- Analyse the pavement using IITPAVE with the following inputs

elastic moduli for		
BT	=	3000
Granular	=	208.19
Subgrade	=	66.60
Poissons ratio value for all three layers	=	0.35
Layer Thicknesses		
Crust	=	155
Granular	=	450

Computed starian values by IITPAVE				Allowable strain value	
Horizontal tensile strain (epT & Et)	=	0.000177	<	0.000189	ok
Vertical compressive strain (epZ & EV)	=	0.000296	<	0.000390	ok

IITPAVE Input



IITPAVE output




```
No. of layers                3
E values (MPa)          3000.00  208.19   66.60
Mu values                 0.350.350.35
thicknesses (mm)         155.00  450.00
single wheel load (N) 20000.00
tyre pressure (MPa)         0.56
Dual  Wheel
  Z         R       Sigma2       SigmaT       SigmaR       TaoR2        Disp2        ep2          epT          epR
155.00     0.00-0.9793E-01 0.6813E+00 0.5457E+00-0.1431E-01 0.3842E+00-0.1758E-03 0.1749E-03 0.1138E-03
155.00L    0.00-0.9793E-01-0.1787E-02-0.1120E-01-0.1431E-01 0.3842E+00-0.4485E-03 0.1749E-03 0.1138E-03
155.00   155.00-0.8965E-01 0.6134E+00 0.3254E+00-0.4305E-01 0.3949E+00-0.1394E-03 0.1769E-03 0.4737E-04
155.00L 155.00-0.8965E-01-0.2358E-02-0.2234E-01-0.4305E-01 0.3949E+00-0.3891E-03 0.1769E-03 0.4737E-04
605.00     0.00-0.1767E-01 0.2524E-01 0.2264E-01-0.2683E-02 0.2786E+00-0.1654E-03 0.1129E-03 0.9601E-04
605.00L    0.00-0.1776E-01 0.1538E-02 0.6745E-03-0.2683E-02 0.2786E+00-0.2783E-03 0.1129E-03 0.9539E-04
605.00   155.00-0.1874E-01 0.2653E-01 0.2479E-01-0.3374E-02 0.2847E+00-0.1763E-03 0.1173E-03 0.1060E-03
605.00L 155.00-0.1874E-01 0.1622E-02 0.1065E-02-0.3374E-02 0.2847E+00-0.2956E-03 0.1173E-03 0.1060E-03
```



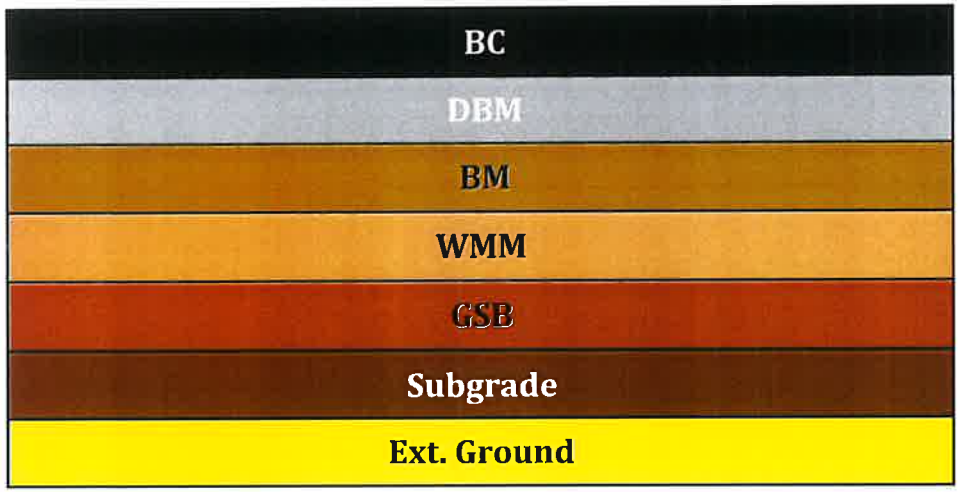
Pavement Composition as per Design

Thickness of BC	40	mm
Thickness of DBM	60	mm
Thickness of BM	55	mm
Thickness of WMM	250	mm
Thickness of GSB	200	mm
Thickness of Subgrade (CBR-7.9%)	500	mm
Ext. Ground		

DESIGN OF FLEXIBLE PAVEMENT AS PER IRC 37-2018-FOR NEW SECTION

1) Road 10.2 - Gangajal nursery to Chandsi road approach Ch. 1+830 To 2+130
2) Road 10.5 - Bendkule mala to Vrundavan lawns Ch. 2+790 To 3+135

DESIGN LIFE 20 YRS. & 40 MSA



Design of Subgrade Layer (As Per IRC:37-2018)

Input Data Considered For the determination of subgrade CBR (As Per IRC:37-2018 ANNEXURE-II.1)

1	Thickness of embankment soil (Assume) (mm)	=	300	mm	(lower layer)
2	Thickness of borrow material (Assume) (mm)	=	500	mm	(upper layer)
3	CBR of embankment soil (%)	=	8.4		
4	CBR of borrow material (%)	=	7.9		
5	Elastic modulus of embankment soil	=	68.71	Mpa	(lower layer)
6	Elastic modulus of borrow material	=	66.07	Mpa	(upper layer)
7	Consider a two-layer elastic system consisting of 500 mm of select borrow soil of modulus 66.07 MPa and the semi-infinite embankment soil of modulus 68.71 MPa				
	Consider				
8	Poisson's ratio for both the layers	=	0.35		
9	Single wheel load	=	40000	N	
10	Contact pressure (p)	=	0.56	Mpa	
11	Radius of circular contact area for this load and contact pressure (α)	=	150.8	mm	
12	Surface deflection at the centre of the load (δ)	=	2.23	.....Using IIT PAVE	
13	For an equivalent single layer system, the modulus value of the single layer which will produce the same surface deflection of 2.23 mm for the same load and for a Poisson's ratio of 0.35 = $[2(1-\mu^2)p\alpha]/\delta$	=	66.61	Mpa	
14	Effective CBR	=	8.00	%	
15	As per these design guidelines, the effective modulus value will be limited to 100 MPa for design purpose. The corresponding CBR (using equation 6.2 From IRC 37) is 8.0 % for 66.61 MPa.				

Design of Granullar & BT Layer (As Per IRC:37-2018)

●	Design Input			
	For an air void content, V_a (%)	=	3.5	....As per clause 12.3 of IRC 37:2018
	Effective bitumen content, V_{be} (%)	=	11.5	....As per clause 12.3 of IRC 37:2018
●	Cumulative Number of standard axles to be catered for in the design, N (msa)	=	40	....As Per Plate 4 Fig no. 12.4 of IRC 37:2018
●	Effective CBR of subgrade (%)	=	8.00	
●	Grade of Bitumen	=	VG40	
Calculation				
●	**Effective resilient modulus of subgrade (Mpa), 17.6*(CBR)^0.64**	=	**66.60**	.....Refer Eq. 6.1 and 6.2 As per IRC 37:2018
●	Select trial section			
	BC (mm)	=	40	
	DBM (mm)	=	60	
	BM (mm)	=	55	....Taken from Plate 4 Fig no. 12.4 of IRC 37:2018
	WMM (mm)	=	250	
	GSB (mm)	=	200	
	Total granular thk. (mm)	=	450	
●	**Resilient modulus of the granular layer (Mpa), $0.2(h)^{0.45}*M_{RSUPPORT}$**	=	**208.19**	.....Refer Eq. 7.1 As per IRC 37:2018
●	Use 90% reliability performance models for subgrade rutting and bituminous layer cracking (design traffic>20 msa)			
		=	0.000390	.....Refer Eq. 3.2 As per IRC 37:2018
●	**Allowable vertical compressive strain** on subgrade for a design traffic of 40 msa and for 90% reliability (using equation 3.2), $N_R=1.4100*10^{-08}[1/\varepsilon_V)^{4.5337}$			

- **Allowable horizontal tensile strain** at the bottom of bituminous layer for a design traffic of 40 msa, 90% reliability, air void content of 3.5% and effective binder volume of 11.5% (Using equation 3.4), $N_f=0.5161*C*10^{-04}[1/\varepsilon_t]^{3.89}*[1/M_{Rm}]^{0.854}$

m= 0.37
c= 2.35

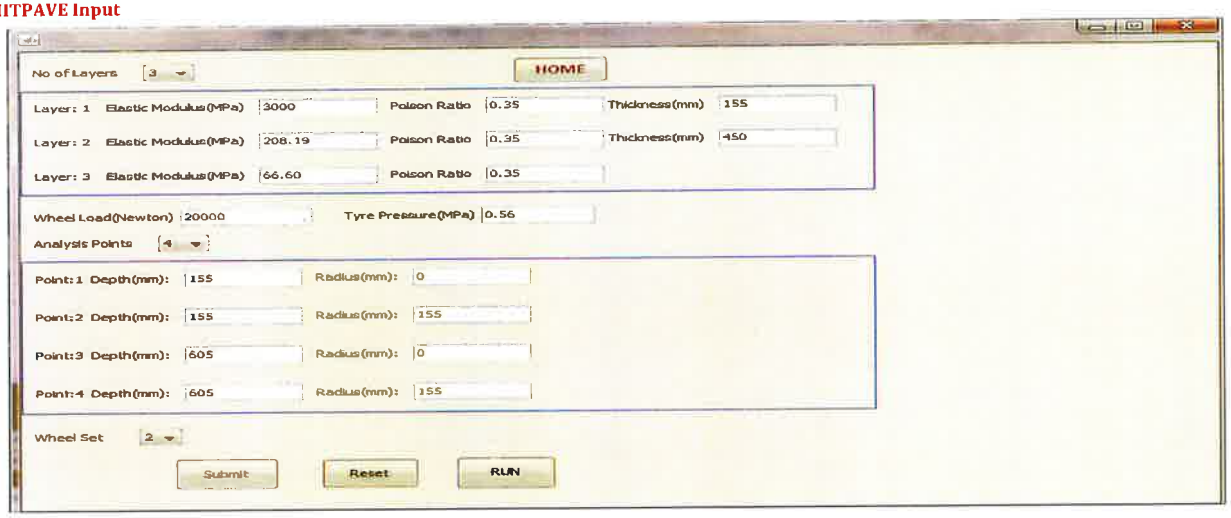
εt = 0.000189 .....Refer Eq. 3.4 As per IRC 37:2018

- Analyse the pavement using IITPAVE with the following inputs

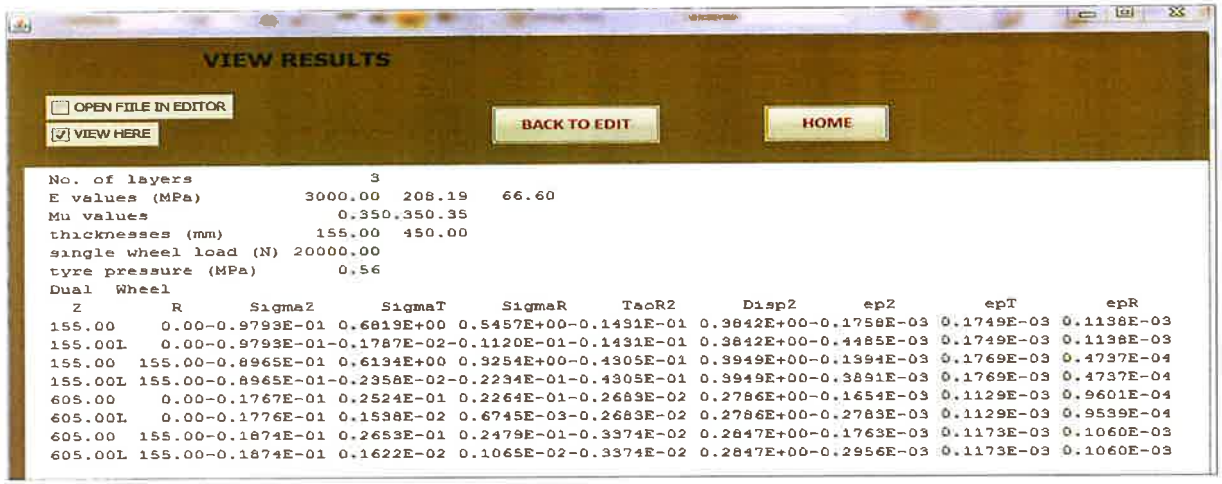
elastic moduli for
BT = 3000
Granular = 208.19
Subgrade = 66.60
Poissons ratio value for all three layers = 0.35
Layer Thicknesses
Crust = 155
Granular = 450

Computed starian values by IITPAVE				Allowable strain value	
Horizontal tensile strain (epT & εt)	=	0.000177	<	0.000189	ok
Vertical compressive strain (epZ & εV)	=	0.000296	<	0.000390	ok

IITPAVE Input



IITPAVE output




```
No. of layers                3
E values (MPa)          3000.00  208.19   66.60
Mu values                 0.350.350.35
thicknesses (mm)         155.00  450.00
single wheel load (N) 20000.00
tyre pressure (MPa)        0.56
Dual  Wheel
  Z        R       SigmaZ       SigmaT       SigmaR       TaoR2        Disp2        epZ          epT          epR
155.00     0.00-0.9793E-01 0.6819E+00 0.5457E+00-0.1491E-01 0.3842E+00-0.1758E-03 0.1749E-03 0.1138E-03
155.00L    0.00-0.9793E-01-0.1787E-02-0.1120E-01-0.1491E-01 0.3842E+00-0.4485E-03 0.1749E-03 0.1138E-03
155.00  155.00-0.8965E-01 0.6134E+00 0.3254E+00-0.4305E-01 0.3949E+00-0.1394E-03 0.1769E-03 0.4737E-04
155.00L 155.00-0.8965E-01-0.2358E-02-0.2294E-01-0.4305E-01 0.3949E+00-0.3891E-03 0.1769E-03 0.4737E-04
605.00     0.00-0.1767E-01 0.2524E-01 0.2264E-01-0.2683E-02 0.2786E+00-0.1654E-03 0.1129E-03 0.9601E-04
605.00L    0.00-0.1776E-01 0.1598E-02 0.6745E-03-0.2683E-02 0.2786E+00-0.2783E-03 0.1129E-03 0.9539E-04
605.00  155.00-0.1874E-01 0.2653E-01 0.2479E-01-0.3374E-02 0.2847E+00-0.1763E-03 0.1173E-03 0.1060E-03
605.00L 155.00-0.1874E-01 0.1622E-02 0.1065E-02-0.3374E-02 0.2847E+00-0.2956E-03 0.1173E-03 0.1060E-03
```

Pavement Composition as per Design

Thickness of BC	40	mm
Thickness of DBM	60	mm
Thickness of BM	55	mm
Thickness of WMM	250	mm
Thickness of GSB	200	mm
Thickness of Subgrade (CBR-7.9%)	500	mm
Ext. Ground		

2.1 INTRODUCTION

2.1.1 About Civil Tech

CIVIL TECH is a future ready company, bringing together all the elements in the field of Civil Engineering, under one roof.



CIVIL TECH provides consultancy services for **Architectural Designs, Structural Designs, Project Management Services, Quality Audits, Valuations** and many more such services. All this is backed by cutting edge technology used in its **NABL accredited Advanced Material Testing Laboratory** and Non-Destructive Testing (NDT) facility.



CIVIL TECH is the only construction material testing laboratory in North Maharashtra to be accredited by NABL with the prestigious ISO 17025 certification. Which provides both in-house experimental studies and field evaluation. The office is equipped with the latest so ware for structural design and analysis.



CIVIL TECH is strategically located at NASHIK- One of the fastest growing cities in Asia. It is also part of the golden triangle of Mumbai -Pune Nashik.

With a team of Experts, who integrate experience and technology with ease, we are ready to cater to the needs of one and all.

"Quality Leads To Assurance, Assurance Leads To Prosperity And Happiness."

This Is The Guiding Principle Of Civil Tech.

2.1.2 Civil Tech Team

With our qualified and experience team we provide services and results on me with the best management skills. We are always ready to serve you with our determination and vision toward quality.

2.1.3 Vision

To be a vibrant organization established to contribute to the infrastructural growth of the nation.

2.1.4 Service Offering

A range of services we offer to the clients across the globe include as follows.

- **NABL Accredited Advanced Material Testing Laboratory (Confirming to ISO: 17025)**
  - ✓ Non-Destructive Testing
  - ✓ Construction Material Testing
  - ✓ Concrete mix design
  - ✓ Plate load test
  - ✓ On Site Testing
  - ✓ Chemical Testing Services
  - ✓ Soil Investigation
  - ✓ Pile Load Testing
  - ✓ Pile Integrity Test
  - ✓ Standard Penetration Test
  - ✓ Water Testing
- **NABL Accredited Highway Testing Services (Confirming to ISO: 17025)**
  - ✓ Network Survey Vehicle (NSV)
  - ✓ Falling Weight Deflectometer (FWD)
  - ✓ MIT Dowel Bar Scanner (MIT)
  - ✓ Benkelman Beam Deflection (BBD)
  - ✓ Roughness Index Test
  - ✓ Skid Resistance Test
  - ✓ Retro Reflectometer
  - ✓ Traffic Volume Count
- **Structural Design & Structural Audit**
  - ✓ Bridge Load Test
  - ✓ Slab Load Test
- **Repair Works**
  - ✓ Concrete Road Repairs
  - ✓ Bridge Repairs
  - ✓ Building Rehabilitation and Repairs
- **Proof Checking & Advisory Services**

2.2. PROJECT DESCRIPTION

2.2.1 General

As part of work "Satpur Division."
In pursuance of the above, **M/s. Civil Tech, Nasik** has been appointed for providing consulting services for testing of the project stretch with Non-Destructive equipment – Falling Weight Deflectometer wide work order.
In line with the work order the work of FWD site testing was scheduled on 11-08-2025 and completed accordingly.

Sr. No.	Field	Details
1.	Project Name	Road 02. Improvement of Gangapur Road from Jehan Circle to Gangapur gaon NMC Limit. Road 04. Improvement of Trimbak Road from ITI Signal to Pimpalgaon Bahula, NMC limit. Road 05. Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road. Road 06. Improvement of Outer Ring Road from Papaya Nursury chowk - Trimbak Road to Xlo Junction. Part-B- Amrut Garden to Datta Mandir Chouk Ambad link Road. Road 10. Development of river side road from Asaram Bapu Ashram to Navashya Ganpati to Vrindavan Lawns.
2.	Project Stretch	Road 02. Ch. 3.210 To 8.190 Road 04. Ch. 3.300 To 8.070 Road 05. Ch. 0.000 To 5.010 Road 06. Ch. 0.000 To 1.050 Road 10. Ch. 1.260 To 3.135
3.	Survey Date	11/08/2025.

Table: 2.2.1 Project Description

2.2.2 Scope Of Work

The study has been initiated with the aim of assessing the strength and life of pavement by measuring deflections as per the Indian Codes (IRC)/Standards. To accomplish this purpose, FWD Test was performed along the project stretch.

The scope involves the following:

- Perform the FWD test for selected stretches.
- Assess the service life of the pavement in terms of million standard axles (MSA).

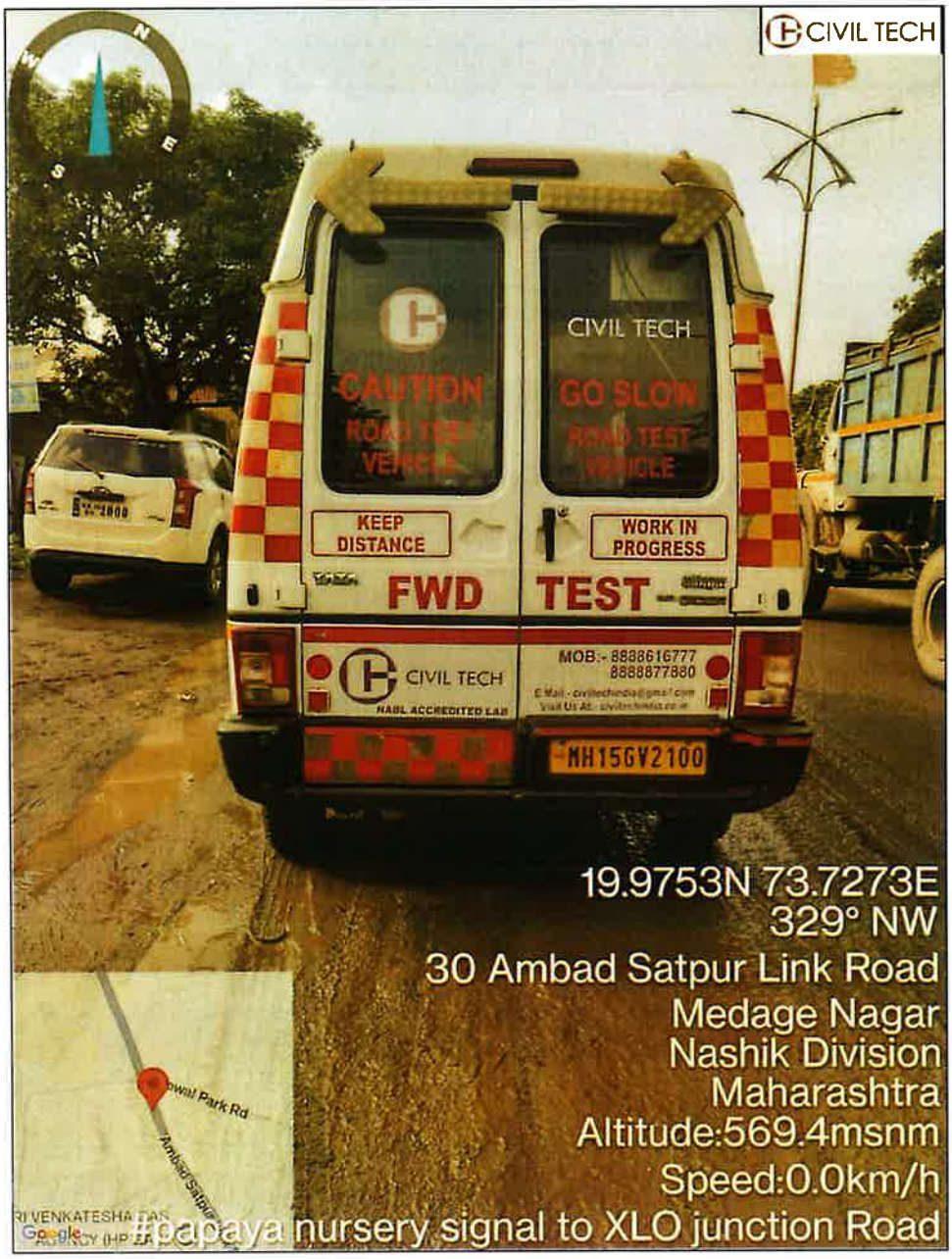


Figure: 2.2.1 On Site Photo

2.3. FWD DATA COLLECTION, ANALYSIS AND RESULTS

Step 1. Data Collection.

Step 2. Flow Chart for FWD Analysis.

Step 3. Selecting The Range Of Moduli.

Step 4. KGPback Application.

Step 5. Correction For Temperature.

Step 6. Back Calculation Of Modulies.

Step 7. Calculation Of Remaining Life And Overlay Requirement.

2.3.1 FWD Data Collection

FWD operated and data of force and deflection is acquired using Deflectometer software using a load cell and geophone respectively.

- Lower the loading plate onto the pavement. The loading plate should be in proper contact with pavement surface.
- Lower the frame holding the displacement transducers (geophones) so that the transducers are in contact with pavement surface
- Raise the mass to a pre-determined height required for producing a target load of 40 KN.
- Drop one seating load. Load and deflection data for seating load drop need not be recorded.
- Raise the mass and drop. Record load and deflection data into the computer through data acquisition system. While peak load and peak deflections at different selected radial positions must be recorded, complete time history of load and deflections can be stored for each load drop if feasible. Repeat this step at least two more times.
- Raise the geophone frame and load plate and move to the next test location.

2.3.2 Flow Chart For FWD Analysis

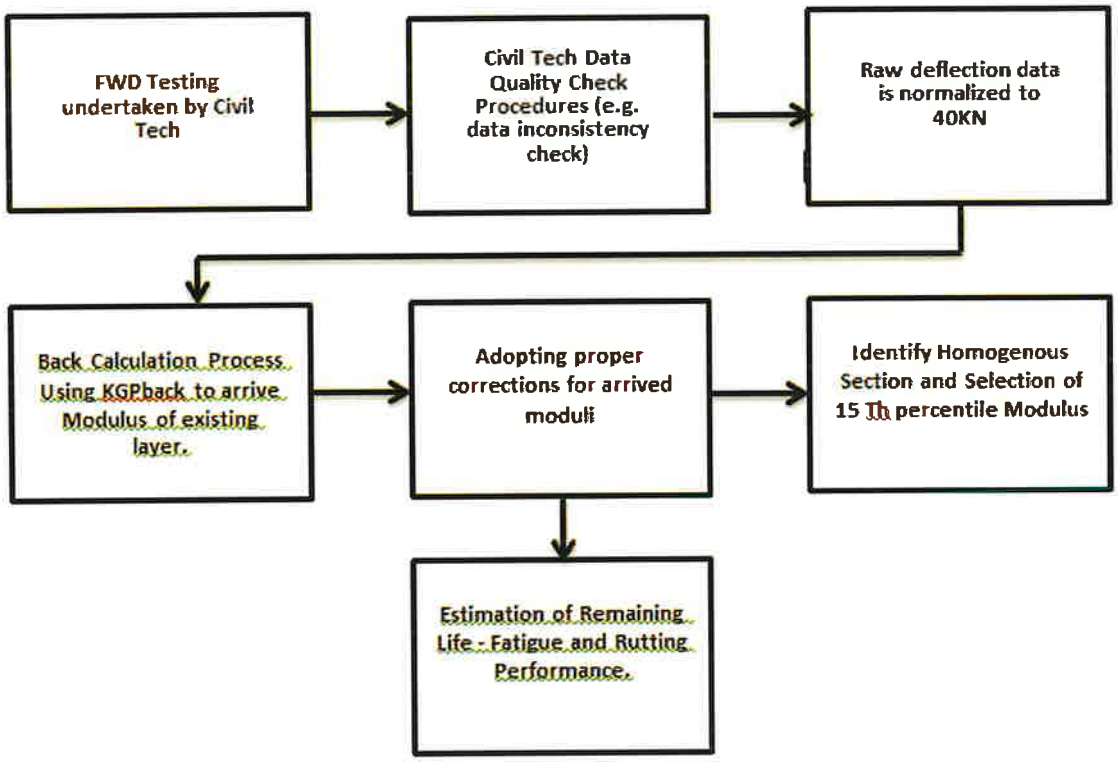


Figure: 2.3.1 Process flow for FWD Analysis

2.3.3 Range of Moduli.

Type of Layer	Lower and Upper Limit (MPa)
Bituminous	**IRC 115-2014, Page No. 30.** Thick Layer With Much Cracking For Distress Condition Fair To Poor. Lower Limit : 400 MPa. Upper Limit : 1500 MPa.
Granular	**IRC 115-2014, Page No. 30.** For Overlay Construction Lower Limit : MRS : 100 MPa. Upper Limit : MR. GRANULAR : 500 MPa.
Subgrade	**IRC 115-2014, Page No. 30.** For Overlay & New/Reconstruction Lower Limit : MR Sub Low : 5*CBR MPa. Upper Limit : MR Sub Max : 20*CBR MPa.

Table 2.3.1 Range of Moduli

2.3.4 KGPback Application

KGPback is a genetic algorithm-based model for back calculation of layer moduli provided along with IRC 115 publication. It uses linear elastic theory for the analysis of pavement in its forward calculation algorithm.

The procedure provided in Appendix III has been adopted to back calculate the Elastic modulus values of each layer listed below.

- Three-layer system (Bituminous, Granular & Subgrade).
- Data required:
  - Deflections at various radial distances-Normalize the raw deflection values to 40KN
  - Existing layer thickness – the existing layer thicknesses of various stretches have been obtained by taking the core cut and trial pit, necessary soil properties have been provided by the consultant.
  - Layer moduli range – the layer moduli adopted for the analysis is shown in 3.3 section.
  - Poisson's ratio:

    - 1)For Overlay Construction BT-0.5, Granular-0.4, Subgrade-0.4

```
!!!!!              PRINT INPUT DATA              !!!!
!!!!!    PL. SEE THE MANUAL SUPPLIED FOR HELP    !!!!

TYPE PEAK FWD LOAD (N), CONTACT PRESSURE (MPa)
Standard Values are 40000  0.56
40000
0.56

HOW MANY DEFLECTIONS WERE MEASURED (4 TO 10)?
7

PRINT RAD.DISTANCES (mm) WHERE DEFLECT. WERE MEASURED
eg: 0, 300, 600, 900, 1200, 1500 is a Typical
    Configuration for six Geophones

0
200
300
450
600
900
1500

PRINT MEASURED DEFLECTIONS IN mm.
0.597,0.431,0.355,0.245,0.174,0.081,0.043
GIVE THE PAVEMENT RELATED INPUTS (3-LAYER SYSTEM)
TYPE EACH LAYER THICKNESS(mm). START FROM TOP
150
220

TYPE POISSON RATIO OF EACH LAYER. START FROM TOP
Suggested values are 0.5 0.4 0.4
0.5
0.4
0.4

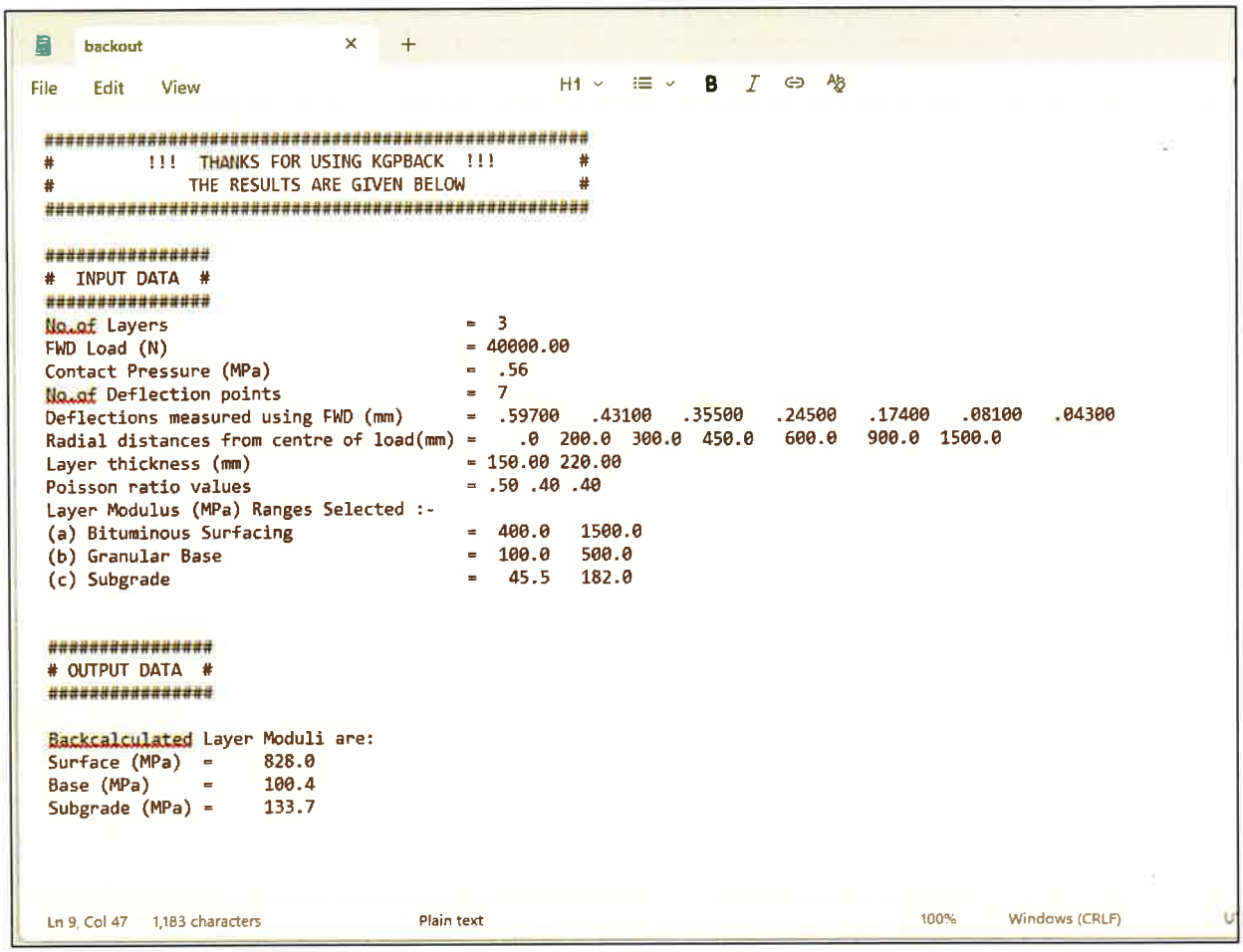
INPUT RANGE (lower and upper) FOR EACH LAYER MODULUS
Please note that Backcalculation Results will depend
on the selection of appropriate Ranges. The slection
of Ranges has to be made judiciously on the basis of
of the Pavement Condition

PRINT LOWER AND UPPER BOUND MODULI (MPa) LAYERS
Pl. See the Manual supplied for guidance

400
1500
100
500
45.5
182

#########################################################
#  YOU CAN FIND THE RESULTS IN backout FILE IN THE    #
#     SAME DIRECTORY. USE Notepad TO SEE RESULTS      #
#        KGPBACK IS RUNNING PLEASE WAIT  !!!          #
#########################################################
```

Figure: 2.3.2 KGPback Data Input



backout

File Edit View H1

```
##################################################
#         !!!  THANKS FOR USING KGPBACK  !!!      #
#             THE RESULTS ARE GIVEN BELOW         #
##################################################

################
#  INPUT DATA  #
################
No.of Layers                          =  3
FWD Load (N)                          = 40000.00
Contact Pressure (MPa)                =  .56
No.of Deflection points               =  7
Deflections measured using FWD (mm)   =  .59700   .43100   .35500   .24500   .17400   .08100   .04300
Radial distances from centre of load(mm) =    .0  200.0  300.0  450.0   600.0   900.0  1500.0
Layer thickness (mm)                  = 150.00 220.00
Poisson ratio values                  = .50 .40 .40
Layer Modulus (MPa) Ranges Selected :-
(a) Bituminous Surfacing              =  400.0   1500.0
(b) Granular Base                     =  100.0   500.0
(c) Subgrade                          =   45.5   182.0


################
# OUTPUT DATA  #
################

Backcalculated Layer Moduli are:
Surface (MPa)  =     828.0
Base (MPa)     =     100.4
Subgrade (MPa) =     133.7
```

Ln 9, Col 47 1,183 characters Plain text 100% Windows (CRLF)

Figure: 2.3.3 KGPback Data Output

2.3.5 Correction for Temperature

The stiffness of bituminous layer is highly susceptible to temperature and hence consequently the surface deflections of a given pavement will vary depending on the temperature of the constituent bituminous layers. If the depth of the BT surface is more than 40mm, then correction factor has to be applied. If the depth is less i.e., if it is a thin bituminous surfacing like premix carpet and surface dressing, then no correction is required. Correction for temperature variation on deflection values measured at temperature other than 35°C should be calculated by the formula provided in IRC 115.

The key points to consider are:

- Pavement temperature range applicable for correction factor – 20°C to 45°C.
- FWD shall not be carried for pavement temperature more than 45°C.
- Temperature correction not required for following cases,
  - Bituminous layers (depth < 40 mm).
  - "Poor" sections.

In accordance with Section 6.4.2 of IRC 115, the calculated modulus values in the Bituminous Layers have been adjusted relative to the standard temperature of 35°C using equation 4 and 5 of IRC 115: 2014.

$E_{T1} = \lambda E_{T2}$ .....Eq 4, IRC115:2014

$\lambda = 1 - 0.238 \ln T1 / 1 - 0.238 \ln T2$.....Eq 5, IRC115:2014

Where,

λ	-	Temperature Correction factor.
ET1	-	Back calculated Modulus (MPa) at Temperature T1.
ET2	-	Back calculated Modulus (MPa) at Temperature T2.

2.3.6 Back calculated Moduli

The back calculated and corrected moduli of the all the three layers are presented in the table. However, for BT back calculated moduli are restricted to maximum of 3000 Mpa.

Using these corrected Moduli Values - Homogenous sections are prepared and 15th percentile Moduli values are selected for Design. Here, we have considered each section as one homogenous section.

2.3.7 Calculation of remaining life and overlay Design

Based on the back calculated module, remaining life has been estimated in accordance with IRC: 115-2014 and IRC: 37-2012. Remaining life is calculated using IIT PAVE software considering the Fatigue and rutting life.

IITPAVE is a multilayer elastic layer linear analysis program provided along with IRC 37: 2012. This IITPAVE has been used for the computation of stresses and strains in flexible pavements.

Following Fatigue & Rutting equations are used for the design analysis.

I. <u>Overlay stretch</u>

a) Fatigue in Bituminous Layer

The allowable tensile strains were calculated using the fatigue criteria as mentioned in Clause 3.6.2 of IRC: 37-2018. The fatigue models corresponding to 90 per cent reliability level have been illustrated in Equation 1.

$$N_f = 0.5161 \times 2.35 \times 10^{-4} \times \left(\frac{1}{\epsilon_t}\right)^{3.89} \times \left(\frac{1}{M_{Rm}}\right)^{0.854} \quad \text{....Equation 1}$$

b) Rutting in Subgrade Layer

The allowable vertical compressive strains were calculated using the rutting criteria as mentioned in Clause 3.6.1 of IRC: 37-2018. The rutting models corresponding to 90 per cent reliability level have been illustrated in Equation 2.

$$N_r = 1.41 \times 10^{-8} \times \left(\frac{1}{\epsilon_v}\right)^{4.5337} \quad \text{....Equation 2}$$

Where,

Nf = Fatigue life in standard axle load repetitions;

εt = Tensile strain at the bottom of bituminous Layer;

M_{Rm} = Resilient modulus of the bituminous Layer (MPa);

Nr = Rutting life in standard axle load repetitions;

εv = Maximum allowable vertical strain at the top of subgrade layer.

An overview of the analysis process using this IITPAVE is presented below.

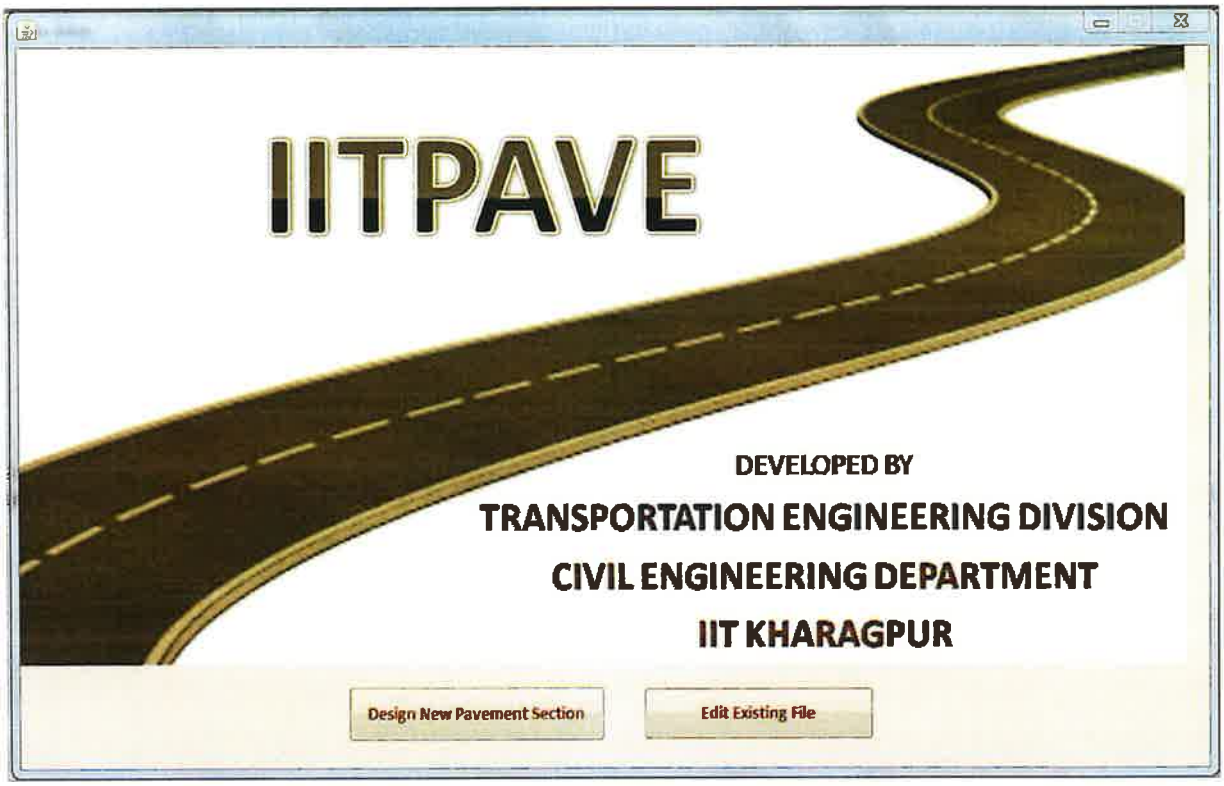


Figure: 2.3.4 Opening Page – IITPAVE

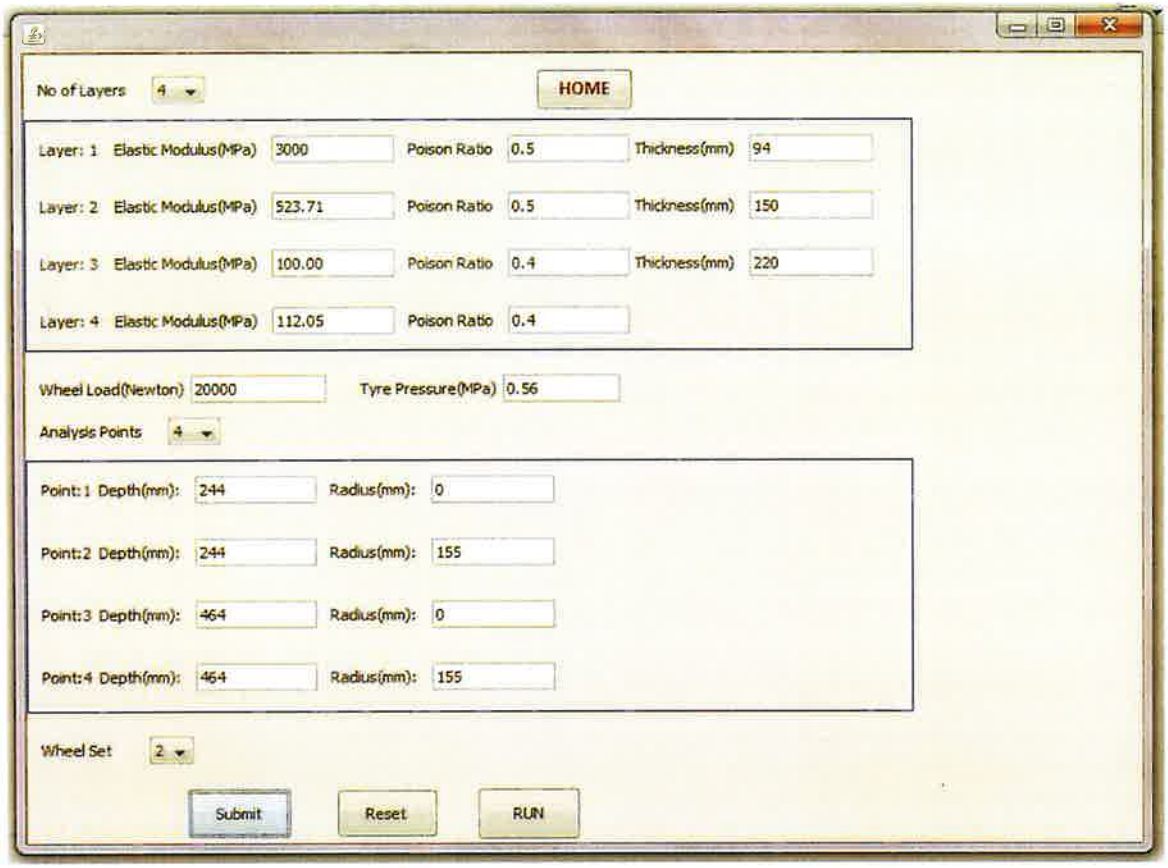


Figure: 2.3.5 IITPAVE Data Input

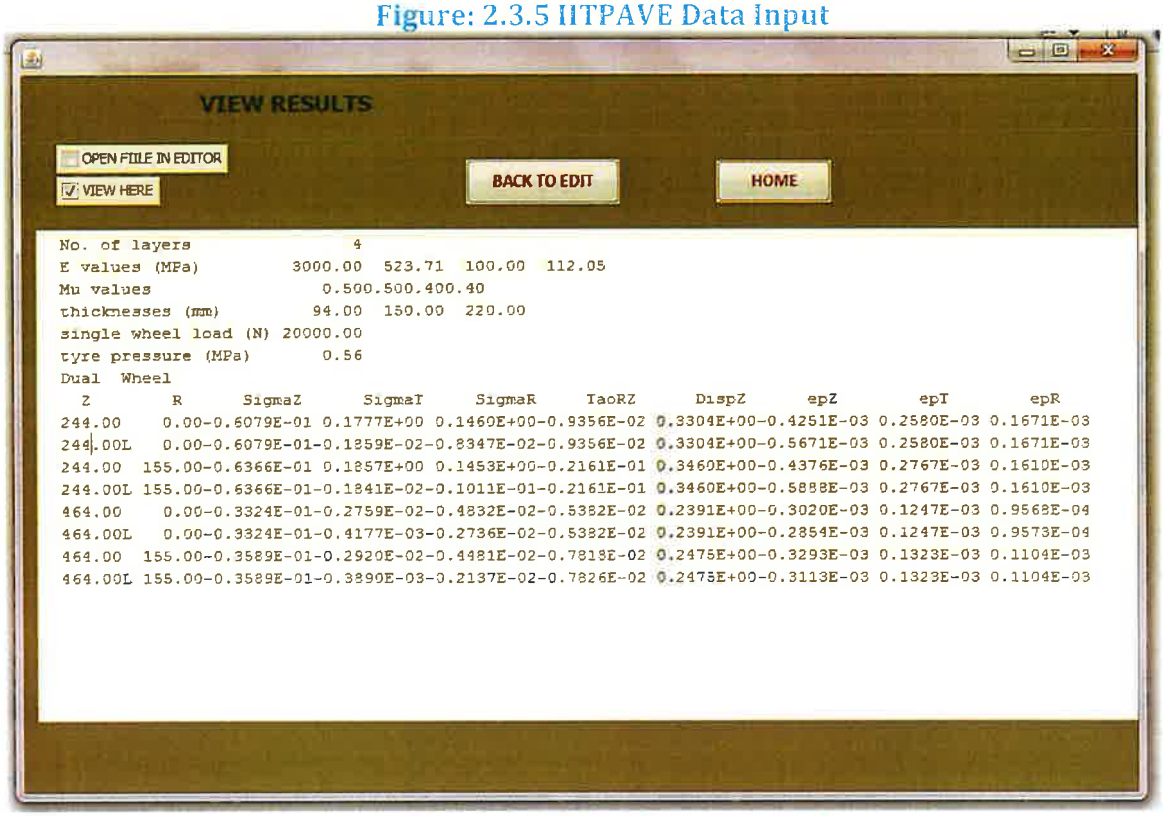


Figure: 2.3.6 IITPAVE Data Output

2.4. RESULTS

2.4.1 Maximum and Normalized Deflection:

CIVIL TECH'S Falling Weight Deflectometer (FWD) was used to collect pavement strength and stiffness information and these values are reported in mm. The results of the site recorded maximum deflection testing are presented in tabulated form.
In accordance with international best practice and with Section 4.4 of IRC 115, the recorded deflection values have been normalized to the equivalent applied pressure of 40KN to be used for back calculation using KGPBACK application.

2.4.2 Modulus values:

Back calculation of modulus of Bitumen and Subgrade is presented in Table below. The values are derived from the process explained in section 6 of the report. As well as normalized deflections, 15 percentile modulies, layer thickness, corrected back calculated modulies, pavement temperature, remaining life/MSA & overlay requirement are also presented in table below.

Section Details	Side	Chainage		Crust Thickness (MM)	Granular Layer Thickness	Design Life		
		From	To			Design Life	Adopted MSA	VG30/VG40
Road No. 2.1 Jehan Circle To Guruji hospital	BHS	3+210	3+960	150	220	20	40	VG 40
Road No. 2.2 Guruji hospital to Pipeline road signal	BHS	3+960	4+230	150	220	20	40	VG 40
Road No. 2.3 Pipeline road signal to Vrundavan lawns	BHS	4+230	4+950	150	220	20	40	VG 40
Road No. 2.4 Vrundavan lawns to Hotel bobby's (Bendkule Nagar)	BHS	4+950	5+190	150	220	20	40	VG 40
Road No. 2.5 Hotel bobby's(Bendkule Nagar) to Treeland approach	BHS	5+190	5+910	150	220	20	40	VG 40
Road No. 2.6 Treeland approach to Someshwar mandir turn	BHS	5+910	6+720	150	220	20	40	VG 40
Road No. 2.7 Someshwar mandir turn to Bardan phata	BHS	6+720	7+110	150	220	20	40	VG 40

Section Details	Side	Chainage		Crust Thickness (MM)	Granular Layer Thickness	Design Life		
		From	To			Design Life	Adopted MSA	VG30/VG40
Road No. 2.8 Bardan phata to Gangapur gao upto nmc limit	BHS	7+110	8+190	150	220	20	40	VG 40

REMAINING LIFE

SR. NO.	Section	CHAINAGE		REMAINING LIFE OF ROAD				OVERLAY DESIGN				REQUIRED THICKNESS	RECOMMEDED THICKNESS
		FROM	TO	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA		
1	Road No. 2.1 to 2.8	3.210	4.000	0.0006190	1.746	0.0005987	5.760	0.0002767	40.020	0.0003113	111.710	94	95
2	Road No. 2.1 to 2.8	4.000	5.000	0.0006311	1.676	0.0005916	6.080	0.0002773	41.066	0.0003067	119.510	95	95
3	Road No. 2.1 to 2.8	5.000	6.000	0.0005726	2.101	0.0005605	7.766	0.0002683	40.102	0.0002963	139.743	91	95
4	Road No. 2.1 to 2.8	6.000	7.000	0.0006214	1.801	0.0006359	4.382	0.0002783	40.970	0.0003327	82.640	94	95
5	Road No. 2.1 to 2.8	7.000	8.190	0.0005407	2.309	0.0007085	2.684	0.0002582	40.936	0.0003586	58.828	93	95
6	Road No. 2.1 to 2.8	8.190	7.000	0.0008118	1.010	0.0008052	1.503	0.0002881	56.798	0.0003894	40.489	107	110
7	Road No. 2.1 to 2.8	7.000	6.000	0.0006132	2.061	0.0007003	2.830	0.0002848	40.709	0.0003797	45.395	91	95
8	Road No. 2.1 to 2.8	6.000	5.000	0.0006377	1.632	0.0006454	4.097	0.0002786	40.891	0.0003306	85.046	96	100
9	Road No. 2.1 to 2.8	5.000	4.000	0.0005361	2.850	0.0007948	1.594	0.0002378	67.311	0.0003886	40.869	104	105
10	Road No. 2.1 to 2.8	4.000	3.210	0.0005350	2.332	0.0007680	1.862	0.0002561	40.958	0.0003825	43.908	94	95

SR.NO	Chianage	KM Wise Section	Lane Position	Road Condition	AVERAGE DEFELCTION AT A RADIAL DISTANCE (MM) OF							CBR	POISSON'S RATIO		
					0	200	300	450	600	900	1500		BT LAYER	GRANNULAR LAYER	SUBGRADE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Road No. 2.1 to 2.8 Jehan Circle To Gangapur gao upto nmc limit															
1	3.210	1	LHS L1	FAIR	0.597	0.431	0.355	0.245	0.174	0.081	0.043	9.1	0.5	0.4	0.4
2	3.460	1	LHS L2	FAIR	0.569	0.506	0.441	0.273	0.186	0.104	0.056	9.1	0.5	0.4	0.4
3	3.710	1	LHS L1	FAIR	0.573	0.429	0.359	0.255	0.186	0.100	0.058	9.1	0.5	0.4	0.4
4	3.960	1	LHS L2	FAIR	0.533	0.465	0.320	0.177	0.103	0.045	0.031	9.1	0.5	0.4	0.4
5	4.210	2	LHS L1	FAIR	0.611	0.422	0.349	0.240	0.169	0.088	0.047	9.1	0.5	0.4	0.4
6	4.460	2	LHS L2	FAIR	0.449	0.354	0.304	0.223	0.174	0.100	0.059	9.1	0.5	0.4	0.4
7	4.710	2	LHS L1	FAIR	0.609	0.393	0.309	0.194	0.129	0.067	0.043	9.1	0.5	0.4	0.4
8	4.960	2	LHS L2	FAIR	0.580	0.431	0.367	0.255	0.188	0.102	0.059	9.1	0.5	0.4	0.4
9	5.210	3	LHS L1	FAIR	0.569	0.359	0.291	0.187	0.131	0.073	0.047	9.1	0.5	0.4	0.4
10	5.460	3	LHS L2	FAIR	0.627	0.459	0.374	0.260	0.190	0.103	0.062	9.1	0.5	0.4	0.4
11	5.710	3	LHS L1	FAIR	0.469	0.325	0.258	0.174	0.130	0.080	0.053	9.1	0.5	0.4	0.4
12	5.960	3	LHS L2	FAIR	0.582	0.424	0.324	0.207	0.149	0.084	0.052	9.1	0.5	0.4	0.4
13	6.210	4	LHS L1	FAIR	0.538	0.397	0.335	0.238	0.180	0.099	0.058	9.1	0.5	0.4	0.4
14	6.460	4	LHS L2	FAIR	0.502	0.375	0.298	0.164	0.142	0.079	0.052	9.1	0.5	0.4	0.4
15	6.710	4	LHS L1	FAIR	0.508	0.354	0.280	0.188	0.137	0.082	0.045	9.1	0.5	0.4	0.4
16	6.960	4	LHS L2	FAIR	0.575	0.427	0.358	0.208	0.160	0.143	0.108	9.1	0.5	0.4	0.4
17	7.210	5	LHS L1	FAIR	0.556	0.424	0.343	0.244	0.179	0.099	0.051	9.1	0.5	0.4	0.4
18	7.460	5	LHS L2	FAIR	0.444	0.356	0.305	0.226	0.150	0.130	0.102	9.1	0.5	0.4	0.4
19	7.710	5	LHS L1	FAIR	0.551	0.373	0.302	0.203	0.146	0.080	0.048	9.1	0.5	0.4	0.4
20	7.960	5	LHS L2	FAIR	0.470	0.371	0.317	0.276	0.236	0.190	0.150	9.1	0.5	0.4	0.4
21	8.190	6	RHS R1	FAIR	0.579	0.430	0.368	0.114	0.071	0.055	0.049	9.1	0.5	0.4	0.4
22	7.940	6	RHS R2	FAIR	0.570	0.533	0.401	0.322	0.258	0.164	0.106	9.1	0.5	0.4	0.4
23	7.690	6	RHS R1	FAIR	0.645	0.472	0.386	0.145	0.120	0.109	0.094	9.1	0.5	0.4	0.4
24	7.440	6	RHS R2	FAIR	0.640	0.473	0.375	0.267	0.196	0.126	0.071	9.1	0.5	0.4	0.4
25	7.190	6	RHS R1	FAIR	0.563	0.404	0.305	0.209	0.149	0.093	0.059	9.1	0.5	0.4	0.4
26	6.940	7	RHS R2	FAIR	0.595	0.428	0.359	0.278	0.221	0.151	0.085	9.1	0.5	0.4	0.4
27	6.690	7	RHS R1	FAIR	0.620	0.434	0.347	0.258	0.185	0.112	0.057	9.1	0.5	0.4	0.4
28	6.440	7	RHS R2	FAIR	0.515	0.310	0.220	0.131	0.083	0.054	0.035	9.1	0.5	0.4	0.4
29	6.190	7	RHS R1	FAIR	0.521	0.376	0.305	0.222	0.169	0.120	0.073	9.1	0.5	0.4	0.4

SR.NO	Chianage	KM Wise Section	Lane Position	LAYER MODULIE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE			CORRECTED MODULIE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULAR THICKNESS	CRUST THICKNESS	BC	SUB GRAN	SUB GRADE	BC	GRANNULAR	SUB GRADE
				Lower	Upper	Lower	Upper	Lower	Upper								
1	2	3	4	17	18	19	20	21	22	23	24	25	26	27	28	29	30
				Road No. 2.1 to 2.8 Jehan Circle To Gangapur gao upto nmc limit													
1	3.210	1	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	828	100.4	133.7	581.10	100.40	133.70
2	3.460	1	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1006.5	100	110.7	716.06	100.00	110.70
3	3.710	1	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1054.8	100	113.7	739.26	100.00	113.70
4	3.960	1	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	684.9	100.8	181.3	476.76	100.80	181.30
5	4.210	2	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	823.7	100	125.4	576.51	100.00	125.40
6	4.460	2	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1497.8	140.7	118.8	1102.59	140.70	118.80
7	4.710	2	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	623.7	100	155.7	443.12	100.00	155.70
8	4.960	2	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1007.5	100	112.2	709.00	100.00	112.20
9	5.210	3	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	845.2	103.1	150.1	589.95	103.10	150.10
10	5.460	3	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	836.6	101.6	107.1	615.01	101.60	107.10
11	5.710	3	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	969.9	163.3	143.7	688.14	163.30	143.70
12	5.960	3	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	839.8	100	129.6	625.02	100.00	129.60
13	6.210	4	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1200	111.3	117	863.09	111.30	117.00
14	6.460	4	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	951.6	117.2	144.8	665.12	117.20	144.80
15	6.710	4	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1233.3	101.6	146.9	849.21	101.60	146.90
16	6.960	4	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	511.8	250.5	94.5	358.21	250.50	94.50
17	7.210	5	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1138.7	100.8	121.8	786.20	100.80	121.80
18	7.460	5	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1065.6	373.3	96.5	746.83	373.30	96.50
19	7.710	5	LHS L1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	944.1	100	140.5	659.88	100.00	140.50
20	7.960	5	LHS L2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1479.6	499.2	67.5	1044.07	499.20	67.50
21	8.190	6	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	414	102	181.7	290.55	102.00	181.70
22	7.940	6	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1454.8	165.7	72.1	1030.77	165.70	72.10
23	7.690	6	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	408.6	116	132.4	287.15	116.00	132.40
24	7.440	6	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	939.8	102.7	97.4	652.42	102.70	97.40
25	7.190	6	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	877.4	111.7	126	608.27	111.70	126.00
26	6.940	7	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	911.8	201.7	83.7	640.78	201.70	83.70
27	6.690	7	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1019.4	100.4	110.2	725.24	100.40	110.20
28	6.440	7	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	494.6	145.4	182	364.59	145.40	182.00
29	6.190	7	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	792.5	227.1	103.4	554.67	227.10	103.40

SR.NO	Chianage	KM Wise Section	Lane Position	Avg. Temperature	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)			Remaining life of Pavement				Design MSA				Overlay Requirement	
								FATIGUE		RUTTING		FATIGUE		RUTTING		Required Thickness	Recommended Thickness
								TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA		
1	2	3	4	31	32	33	34	35	36	37	38	39	40	41	42	43	44
				Road No. 2.1 to 2.8 Jehan Circle To Gangapur gao upto nmc limit													
1	3.210	1	LHS L1	26.6	523.71	100.00	112.05	0.000619	1.75	0.0005987	5.76	0.0002767	40.02	0.0003113	111.71	94	95
2	3.460	1	LHS L2	26.9													
3	3.710	1	LHS L1	26.6													
4	3.960	1	LHS L2	26.4													
5	4.210	2	LHS L1	26.5	503.14	100.00	115.17	0.0006311	1.68	0.0005916	6.08	0.0002773	41.07	0.0003067	119.51	95	95
6	4.460	2	LHS L2	27.8													
7	4.710	2	LHS L1	26.9													
8	4.960	2	LHS L2	26.7													
9	5.210	3	LHS L1	26.5	601.23	100.72	117.23	0.0005726	2.10	0.0005605	7.77	0.0002683	40.10	0.0002963	139.74	91	95
10	5.460	3	LHS L2	27.7													
11	5.710	3	LHS L1	26.9													
12	5.960	3	LHS L2	28.0													
13	6.210	4	LHS L1	27.2	496.32	105.97	104.63	0.0006214	1.80	0.0006359	4.38	0.0002783	40.97	0.0003327	82.64	94	95
14	6.460	4	LHS L2	26.5													
15	6.710	4	LHS L1	26.1													
16	6.960	4	LHS L2	26.5													
17	7.210	5	LHS L1	26.2	699.00	100.36	80.55	0.0005407	2.31	0.0007085	2.68	0.0002582	40.94	0.0003586	58.83	93	95
18	7.460	5	LHS L2	26.6													
19	7.710	5	LHS L1	26.5													
20	7.960	5	LHS L2	26.7													
21	8.190	6	RHS R1	26.6	289.19	102.42	87.28	0.0008118	1.01	0.0008052	1.50	0.0002881	56.80	0.0003894	40.49	107	110
22	7.940	6	RHS R2	26.8													
23	7.690	6	RHS R1	26.6													
24	7.440	6	RHS R2	26.3													
25	7.190	6	RHS R1	26.3													
26	6.940	7	RHS R2	26.6	450.13	120.65	92.57	0.0006132	2.06	0.0007003	2.83	0.0002848	40.71	0.0003797	45.40	91	95
27	6.690	7	RHS R1	26.9													
28	6.440	7	RHS R2	27.8													
29	6.190	7	RHS R1	26.5													

SR.NO	Chianage	KM Wise Section	Lane Position	Road Condition	AVERAGE DEFELCTION AT A RADIAL DISTANCE (MM) OF							CBR	POISSON'S RATIO		
					0	200	300	450	600	900	1500		BT LAYER	GRANNULAR LAYER	SUBGRADE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
30	5.940	8	RHS R2	FAIR	0.526	0.366	0.278	0.175	0.117	0.055	0.032	9.1	0.5	0.4	0.4
31	5.690	8	RHS R1	FAIR	0.579	0.461	0.398	0.333	0.271	0.173	0.101	9.1	0.5	0.4	0.4
32	5.440	8	RHS R2	FAIR	0.459	0.300	0.214	0.142	0.098	0.063	0.044	9.1	0.5	0.4	0.4
33	5.190	8	RHS R1	FAIR	0.587	0.431	0.292	0.198	0.137	0.080	0.045	9.1	0.5	0.4	0.4
34	4.940	9	RHS R2	FAIR	0.534	0.349	0.257	0.152	0.098	0.056	0.028	9.1	0.5	0.4	0.4
35	4.690	9	RHS R1	FAIR	0.512	0.466	0.402	0.322	0.258	0.163	0.104	9.1	0.5	0.4	0.4
36	4.440	9	RHS R2	FAIR	0.481	0.329	0.254	0.180	0.137	0.085	0.051	9.1	0.5	0.4	0.4
37	4.190	9	RHS R1	FAIR	0.536	0.478	0.414	0.333	0.269	0.173	0.114	9.1	0.5	0.4	0.4
38	3.940	10	RHS R2	FAIR	0.576	0.530	0.476	0.393	0.290	0.174	0.077	9.1	0.5	0.4	0.4
39	3.690	10	RHS R1	FAIR	0.554	0.514	0.413	0.382	0.293	0.173	0.104	9.1	0.5	0.4	0.4
40	3.440	10	RHS R2	FAIR	0.578	0.530	0.451	0.282	0.185	0.098	0.056	9.1	0.5	0.4	0.4

SR.NO	Chianage	KM Wise Section	Lane Position	LAYER MODULIE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE			CORRECTED MODULIE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULAR THICKNESS	CRUST THICKNESS	BC	SUB GRAN	SUB GRADE	BC	GRANNULAR	SUB GRADE
				Lower	Upper	Lower	Upper	Lower	Upper								
1	2	3	4	17	18	19	20	21	22	23	24	25	26	27	28	29	30
30	5.940	8	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	860.2	100.8	181.9	605.34	100.80	181.90
31	5.690	8	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1498.9	189.9	71	1114.03	189.90	71.00
32	5.440	8	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	714	167.3	179.1	503.14	167.30	179.10
33	5.190	8	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	696.8	100.4	142.1	488.35	100.40	142.10
34	4.940	9	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	702.2	101.2	181.9	486.81	101.20	181.90
35	4.690	9	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1496.8	214.6	72.3	1039.09	214.60	72.30
36	4.440	9	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	954.8	167.6	139.3	667.35	167.60	139.30
37	4.190	9	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1500	231.4	67.8	1059.90	231.40	67.80
38	3.940	10	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1455.9	100.4	75.8	1028.74	100.40	75.80
39	3.690	10	RHS R1	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	1498.9	164.1	68.2	1040.55	164.10	68.20
40	3.440	10	RHS R2	400.0	1500.0	100.0	500.0	45.5	182.0	220.0	150.0	841.9	100.4	108.7	594.89	100.40	108.70

SR.NO	Chianage	KM Wise Section	Lane Position	Avg. Temperature	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)			Remaining life of Pavement				Design MSA				Overlay Requirement	
								FATIGUE		RUTTING		FATIGUE		RUTTING		Required Thickness	Recommended Thickness
								TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA		
1	2	3	4	31	32	33	34	35	36	37	38	39	40	41	42	43	44
30	5.940	8	RHS R2	26.7	495.01	100.58	103.00	0.0006377	1.63	0.0006454	4.10	0.0002786	40.89	0.0003306	85.05	96	100
31	5.690	8	RHS R1	28.0													
32	5.440	8	RHS R2	26.7													
33	5.190	8	RHS R1	26.6													
34	4.940	9	RHS R2	26.3	568.05	131.08	69.83	0.0005361	2.85	0.0007948	1.59	0.0002378	67.31	0.0003886	40.87	104	105
35	4.690	9	RHS R1	26.3													
36	4.440	9	RHS R2	26.5													
37	4.190	9	RHS R1	26.8													
38	3.940	10	RHS R2	26.8	725.05	100.40	70.48	0.000535	2.33	0.000768	1.86	0.0002561	40.96	0.0003825	43.91	94	95
39	3.690	10	RHS R1	26.3													
40	3.440	10	RHS R2	26.8													

Section Details	Side	Chainage		Crust Thickness (MM)	Granular Layer Thickness (MM)	Design Life		
		From	To			Design Life (Yrs.)	Adopted MSA	VG30/VG40
Road No. 4.1 - ITI signal to Sakal Circle	BHS	3+300	4+170	150	200	20	40	VG 40
Road No. 4.2 - Sakal circle to Hotel Ayodhya	BHS	4+170	5+130	150	200	20	40	VG 40
Road No. 4.3 - Hotel Ayodhya to Shriram Chowk	BHS	5+130	5+580	150	200	20	40	VG 40
Road No. 4.4 - Shriram chowk to Papaya Nursery Signal	BHS	5+580	6+270	150	200	20	40	VG 40
Road No. 4.5 - Papaya nursery Signal to Hotel Amrut	BHS	6+270	7+050	150	200	20	40	VG 40
Road No. 4.6 - Amrut garden chowk to NMC limit Pimpalgao Bahula	BHS	7+050	8+070	150	200	20	40	VG 40

REMAINING LIFE

SR. NO.	Road No.	CHAINAGE		REMAINING LIFE OF ROAD				OVERLAY DESIGN				REQUIRED THICKNESS	RECOMMEDED THICKNESS
		FROM	TO	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA		
1	Road No. 4.1	3.300	4.000	0.0006056	**1.111**	0.0008056	**1.499**	0.0002408	**40.143**	0.0003031	**126.082**	**102**	**105**
2	Road No. 4.1 To 4.2	4.000	5.000	0.0006341	**0.926**	0.0009100	**0.863**	0.0002390	**41.232**	0.0003068	**119.334**	**105**	**105**
3	Road No. 4.2 To 4.4	5.000	6.000	0.0006712	**0.833**	0.0008214	**1.373**	0.0002463	**41.158**	0.0003103	**113.352**	**107**	**110**
4	Road No. 4.4	6.000	6.270	0.0005987	**1.155**	0.0008134	**1.435**	0.0002401	**40.377**	0.0002986	**134.929**	**100**	**100**
5	Road No. 4.4	6.270	6.000	0.0005743	**1.313**	0.0008151	**1.422**	0.0002380	**40.417**	0.0002954	**141.683**	**99**	**100**
6	Road No. 4.2 To 4.4	6.000	5.000	0.0006043	**1.126**	0.0009085	**0.869**	0.0002407	**40.414**	0.0003024	**127.411**	**102**	**105**
7	Road No. 4.1 To 4.2	5.000	4.000	0.0006749	**0.716**	0.0009021	**0.898**	0.0002384	**41.037**	0.0003081	**117.068**	**103**	**105**
8	Road No. 4.1	3.000	3.300	0.0006167	**1.046**	0.0008840	**0.984**	0.0002406	**40.714**	0.0003214	**96.655**	**106**	**110**
9	Road No. 4.5	6.270	7.000	0.0005971	**1.186**	0.0008341	**1.281**	0.0002412	**40.320**	0.0002976	**136.997**	**98**	**100**
10	Road No. 4.5 To 4.6	7.000	8.070	0.0006106	**1.033**	0.0008567	**1.135**	0.0002371	**40.965**	0.0003057	**121.293**	**103**	**105**
11	Road No. 4.5 To 4.6	8.070	7.000	0.0006214	**0.964**	0.0008674	**1.073**	0.0002364	**41.388**	0.0003019	**128.370**	**109**	**110**
12	Road No. 4.5	7.000	6.270	0.0006579	**0.802**	0.0008623	**1.102**	0.0002397	**40.728**	0.0002983	**135.545**	**103**	**105**

SR.NO	Chianage	KM Wise Section	Lane Position	Road Condition	AVERAGE DEFELCTION AT A RADIAL DISTANCE (MM) OF							CBR	POISSON'S RATIO		
					0	200	300	450	600	900	1500		BT LAYER	GRANNULAR LAYER	SUBGRADE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Road 4.1 To 4.4 - ITI signal To Papaya Nursery Signal															
1	3.300	1	LHS L2	Fair	0.526	0.383	0.281	0.168	0.124	0.070	0.026	8.8	0.5	0.4	0.4
2	3.500	1	LHS L1	Fair	0.556	0.488	0.448	0.355	0.188	0.133	0.048	8.8	0.5	0.4	0.4
3	3.500	1	LHS L3	Fair	0.550	0.483	0.346	0.303	0.246	0.162	0.050	8.8	0.5	0.4	0.4
4	3.750	1	LHS L2	Fair	0.576	0.385	0.283	0.156	0.100	0.044	0.025	8.8	0.5	0.4	0.4
5	4.000	2	LHS L1	Fair	0.577	0.390	0.290	0.166	0.113	0.057	0.040	8.8	0.5	0.4	0.4
6	4.000	2	LHS L3	Fair	0.555	0.402	0.363	0.314	0.261	0.154	0.026	8.8	0.5	0.4	0.4
7	4.250	2	LHS L2	Fair	0.494	0.377	0.277	0.152	0.100	0.041	0.021	8.8	0.5	0.4	0.4
8	4.500	2	LHS L1	Fair	0.567	0.449	0.377	0.337	0.232	0.127	0.020	8.8	0.5	0.4	0.4
9	4.500	2	LHS L3	Fair	0.565	0.487	0.376	0.276	0.151	0.040	0.022	8.8	0.5	0.4	0.4
10	4.750	2	LHS L2	Fair	0.596	0.404	0.302	0.174	0.121	0.063	0.045	8.8	0.5	0.4	0.4
11	5.000	3	LHS L1	Fair	0.559	0.437	0.337	0.260	0.229	0.124	0.019	8.8	0.5	0.4	0.4
12	5.000	3	LHS L3	Fair	0.518	0.461	0.420	0.371	0.272	0.146	0.031	8.8	0.5	0.4	0.4
13	5.250	3	LHS L2	Fair	0.412	0.275	0.192	0.117	0.089	0.049	0.028	8.8	0.5	0.4	0.4
14	5.500	3	LHS L1	Fair	0.522	0.399	0.360	0.293	0.242	0.133	0.017	8.8	0.5	0.4	0.4
15	5.500	3	LHS L3	Fair	0.538	0.422	0.295	0.159	0.096	0.041	0.022	8.8	0.5	0.4	0.4
16	5.750	3	LHS L2	Fair	0.456	0.351	0.229	0.133	0.091	0.056	0.038	8.8	0.5	0.4	0.4
17	6.000	4	LHS L1	Fair	0.574	0.450	0.344	0.239	0.181	0.127	0.022	8.8	0.5	0.4	0.4
18	6.000	4	LHS L3	Fair	0.523	0.410	0.343	0.274	0.169	0.080	0.031	8.8	0.5	0.4	0.4
19	6.250	4	LHS L2	Fair	0.598	0.473	0.439	0.381	0.265	0.146	0.020	8.8	0.5	0.4	0.4
20	6.250	5	RHS R2	Fair	0.536	0.488	0.378	0.342	0.256	0.141	0.025	8.8	0.5	0.4	0.4
21	6.000	5	RHS R1	Fair	0.568	0.443	0.413	0.364	0.271	0.139	0.024	8.8	0.5	0.4	0.4
22	6.000	5	RHS R3	Fair	0.588	0.395	0.292	0.165	0.109	0.052	0.034	8.8	0.5	0.4	0.4
23	5.750	6	RHS R2	Fair	0.572	0.384	0.284	0.161	0.106	0.051	0.033	8.8	0.5	0.4	0.4
24	5.500	6	RHS R1	Fair	0.579	0.390	0.289	0.164	0.110	0.054	0.037	8.8	0.5	0.4	0.4
25	5.500	6	RHS R3	Fair	0.456	0.406	0.347	0.299	0.250	0.138	0.021	8.8	0.5	0.4	0.4
26	5.250	6	RHS R2	Fair	0.475	0.350	0.242	0.142	0.095	0.053	0.047	8.8	0.5	0.4	0.4
27	5.000	6	RHS R1	Fair	0.511	0.477	0.437	0.391	0.281	0.149	0.022	8.8	0.5	0.4	0.4
28	5.000	6	RHS R3	Fair	0.587	0.396	0.293	0.168	0.113	0.056	0.039	8.8	0.5	0.4	0.4

SR.NO	Chianage	KM Wise Section	Lane Position	LAYER MODULIE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE			CORRECTED MODULIE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULAR THICKNESS	CRUST THICKNESS	BC	SUB GRAN	SUB GRADE	BC	GRANNULAR	SUB GRADE
				Lower	Upper	Lower	Upper	Lower	Upper								
1	2	3	4	17	18	19	20	21	22	23	24	25	26	27	28	29	30
				Road 4.1 To 4.4 - ITI signal To Papaya Nursery Signal													
1	3.300	1	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1303.9	124.5	95.6	959.85	124.50	95.60
2	3.500	1	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1367.4	126.7	92.4	1010.74	126.70	92.40
3	3.500	1	LHS L3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1389.2	106.7	82.9	1029.67	106.70	82.90
4	3.750	1	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1381.8	123.6	92.9	1032.64	123.60	92.90
5	4.000	2	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1454.5	129.3	83.6	1057.62	129.30	83.60
6	4.000	2	LHS L3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1362.9	131.6	99	993.73	131.60	99.00
7	4.250	2	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1455.4	118.4	85.6	1049.64	118.40	85.60
8	4.500	2	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1301.9	129.1	87	961.01	129.10	87.00
9	4.500	2	LHS L3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1408.4	107.9	87.9	1035.36	107.90	87.90
10	4.750	2	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1378.1	108.7	91.9	1022.84	108.70	91.90
11	5.000	3	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1323.5	115.5	92.7	982.32	115.50	92.70
12	5.000	3	LHS L3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1366.5	106.7	95.8	1001.82	106.70	95.80
13	5.250	3	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1341.2	133	98.7	980.58	133.00	98.70
14	5.500	3	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1206.9	127.4	90	886.02	127.40	90.00
15	5.500	3	LHS L3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1348.6	108.2	81.4	981.96	108.20	81.40
16	5.750	3	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1080.1	125	95.7	786.46	125.00	95.70
17	6.000	4	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1398.4	132	85.9	1046.48	132.00	85.90
18	6.000	4	LHS L3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1368.3	119.9	84.9	1012.79	119.90	84.90
19	6.250	4	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1339	132.6	87.3	978.98	132.60	87.30
20	6.250	5	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1467	122.8	90.3	1096.31	122.80	90.30
21	6.000	5	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1378.1	131.1	84.6	1020.05	131.10	84.60
22	6.000	5	RHS R3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1434.8	133.2	84.8	1047.58	133.20	84.80
23	5.750	6	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1361.3	137.9	91.4	1028.55	137.90	91.40
24	5.500	6	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1456.9	116.8	87.8	1093.25	116.80	87.80
25	5.500	6	RHS R3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1333.3	125.1	82.7	988.24	125.10	82.70
26	5.250	6	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1438.8	126.6	90.6	1075.24	126.60	90.60
27	5.000	6	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1318.7	126.2	97.9	982.79	126.20	97.90
28	5.000	6	RHS R3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1304.8	112.8	88.6	959.20	112.80	88.60

SR.NO	Chianage	KM Wise Section	Lane Position	Avg. Teampe rature	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)			Remaining life of Pavement				Design MSA				Overlay Requirement	
								FATIGUE		RUTTING		FATIGUE		RUTTING		Required Thickness	Recommended Thickness
								TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA		
1	2	3	4	31	32	33	34	35	36	37	38	39	40	41	42	43	44
				Road 4.1 To 4.4 - ITI signal To Papaya Nursery Signal													
1	3.300	1	LHS L2	27.8	982.75	114.31	87.18	0.0006056	1.111	0.0008056	1.499	0.0002408	40.14	0.0003031	126.1	102	105
2	3.500	1	LHS L1	27.9													
3	3.500	1	LHS L3	27.9													
4	3.750	1	LHS L2	28.1													
5	4.000	2	LHS L1	27.5	985.55	108.50	85.10	0.0006341	0.926	0.00091	0.863	0.000239	41.23	0.0003068	119.3	105	105
6	4.000	2	LHS L3	27.5													
7	4.250	2	LHS L2	27.3													
8	4.500	2	LHS L1	27.8													
9	4.500	2	LHS L3	27.7													
10	4.750	2	LHS L2	28.0													
11	5.000	3	LHS L1	28.0	861.13	107.83	87.85	0.0006712	0.833	0.0008214	1.373	0.0002463	41.16	0.0003103	113.4	107	110
12	5.000	3	LHS L3	27.7													
13	5.250	3	LHS L2	27.6													
14	5.500	3	LHS L1	27.7													
15	5.500	3	LHS L3	27.5													
16	5.750	3	LHS L2	27.5													
17	6.000	4	LHS L1	28.2	989.12	123.53	85.20	0.0005987	1.155	0.0008134	1.435	0.0002401	40.38	0.0002986	134.9	100	100
18	6.000	4	LHS L3	27.9													
19	6.250	4	LHS L2	27.6													
20	6.250	5	RHS R2	28.1	1028.31	125.29	84.66	0.0005743	1.313	0.0008151	1.422	0.000238	40.42	0.0002954	141.7	99	100
21	6.000	5	RHS R1	27.9													
22	6.000	5	RHS R3	27.6													
23	5.750	6	RHS R2	28.4	976.89	115.80	86.53	0.0006043	1.126	0.0009085	0.869	0.0002407	40.41	0.0003024	127.4	102	105
24	5.500	6	RHS R1	28.2													
25	5.500	6	RHS R3	27.9													
26	5.250	6	RHS R2	28.1													
27	5.000	6	RHS R1	28.1													
28	5.000	6	RHS R3	27.7													

SR.NO	Chianage	KM Wise Section	Lane Position	Road Condition	AVERAGE DEFELCTION AT A RADIAL DISTANCE (MM) OF							CBR	POISSON'S RATIO		
					0	200	300	450	600	900	1500		BT LAYER	GRANNULAR LAYER	SUBGRADE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
29	4.750	7	RHS R2	Fair	0.577	0.391	0.291	0.167	0.115	0.059	0.042	8.8	0.5	0.4	0.4
30	4.500	7	RHS R1	Fair	0.479	0.351	0.244	0.143	0.098	0.054	0.036	8.8	0.5	0.4	0.4
31	4.500	7	RHS R3	Fair	0.486	0.359	0.254	0.152	0.107	0.064	0.046	8.8	0.5	0.4	0.4
32	4.250	7	RHS R2	Fair	0.592	0.400	0.296	0.168	0.113	0.055	0.038	8.8	0.5	0.4	0.4
33	4.000	7	RHS R1	Fair	0.585	0.397	0.295	0.170	0.115	0.059	0.042	8.8	0.5	0.4	0.4
34	4.000	7	RHS R3	Fair	0.589	0.399	0.296	0.170	0.116	0.060	0.042	8.8	0.5	0.4	0.4
35	3.750	8	RHS R2	Fair	0.572	0.385	0.285	0.162	0.108	0.053	0.036	8.8	0.5	0.4	0.4
36	3.500	8	RHS R1	Fair	0.599	0.404	0.300	0.171	0.114	0.058	0.036	8.8	0.5	0.4	0.4
37	3.500	8	RHS R3	Fair	0.567	0.383	0.285	0.163	0.110	0.055	0.039	8.8	0.5	0.4	0.4
38	3.300	8	RHS R2	Fair	0.608	0.413	0.310	0.180	0.126	0.068	0.050	8.8	0.5	0.4	0.4
Road 4.5 To 4.6 - Papaya nursery Signal To NMC limit Pimpalgao Bahula															
39	6.500	9	LHS L1	Fair	0.545	0.507	0.436	0.348	0.236	0.117	0.010	8.8	0.5	0.4	0.4
40	6.750	9	LHS L2	Fair	0.571	0.492	0.417	0.369	0.298	0.146	0.025	8.8	0.5	0.4	0.4
41	7.000	10	LHS L1	Fair	0.483	0.449	0.416	0.343	0.240	0.128	0.018	8.8	0.5	0.4	0.4
42	7.250	10	LHS L2	Fair	0.482	0.415	0.358	0.303	0.257	0.135	0.017	8.8	0.5	0.4	0.4
43	7.500	10	LHS L1	Fair	0.552	0.405	0.304	0.197	0.130	0.059	0.035	8.8	0.5	0.4	0.4
44	7.750	10	LHS L2	Fair	0.586	0.442	0.385	0.325	0.192	0.122	0.015	8.8	0.5	0.4	0.4
45	8.000	10	LHS L1	Fair	0.552	0.492	0.380	0.336	0.244	0.125	0.016	8.8	0.5	0.4	0.4
46	8.000	11	RHS R1	Fair	0.541	0.516	0.410	0.357	0.245	0.125	0.015	8.8	0.5	0.4	0.4
47	7.750	11	RHS R2	Fair	0.487	0.356	0.286	0.228	0.164	0.066	0.020	8.8	0.5	0.4	0.4
48	7.500	11	RHS R1	Fair	0.567	0.451	0.348	0.335	0.232	0.122	0.014	8.8	0.5	0.4	0.4
49	7.250	11	RHS R2	Fair	0.564	0.447	0.419	0.289	0.258	0.145	0.018	8.8	0.5	0.4	0.4
50	7.000	11	RHS R1	Fair	0.582	0.446	0.398	0.348	0.222	0.171	0.032	8.8	0.5	0.4	0.4
51	6.750	12	RHS R2	Fair	0.529	0.426	0.387	0.348	0.257	0.139	0.017	8.8	0.5	0.4	0.4
52	6.500	12	RHS R1	Fair	0.467	0.416	0.362	0.250	0.215	0.167	0.037	8.8	0.5	0.4	0.4

SR.NO	Chianage	KM Wise Section	Lane Position	LAYER MODULIE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE			CORRECTED MODULIE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULAR THICKNESS	CRUST THICKNESS	BC	SUB GRAN	SUB GRADE	BC	GRANNULAR	SUB GRADE
				Lower	Upper	Lower	Upper	Lower	Upper								
1	2	3	4	17	18	19	20	21	22	23	24	25	26	27	28	29	30
29	4.750	7	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1448.4	134.5	99.7	1058.96	134.50	99.70
30	4.500	7	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1474	118.4	81.5	1061.61	118.40	81.50
31	4.500	7	RHS R3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1442.7	125.8	90.2	1079.63	125.80	90.20
32	4.250	7	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1335.7	128	92.6	1009.20	128.00	92.60
33	4.000	7	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1427.6	101.7	96.4	1059.58	101.70	96.40
34	4.000	7	RHS R3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1307.1	113.3	91.3	982.19	113.30	91.30
35	3.750	8	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1322.2	120.5	88.9	969.34	120.50	88.90
36	3.500	8	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1326.9	106.9	89.5	971.46	106.90	89.50
37	3.500	8	RHS R3	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1354.3	112.7	97.8	1014.87	112.70	97.80
38	3.300	8	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1431.9	107.4	83.2	1062.77	107.40	83.20
				Road 4.5 To 4.6 - Papaya nursery Signal To NMC limit Pimpalgao Bahula													
39	6.500	9	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1311.6	125.9	81.7	945.93	125.90	81.70
40	6.750	9	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1489.6	134.4	90.9	1108.63	134.40	90.90
41	7.000	10	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1423.4	108.7	89.8	1075.47	108.70	89.80
42	7.250	10	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1451.9	125	84.6	1088.01	125.00	84.60
43	7.500	10	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1399	118.6	96.8	1046.93	118.60	96.80
44	7.750	10	LHS L2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1379.2	132	86.7	1004.24	132.00	86.70
45	8.000	10	LHS L1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1403.9	119.4	91	1054.93	119.40	91.00
46	8.000	11	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1443.9	103	96.3	1083.50	103.00	96.30
47	7.750	11	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1344.6	118.9	81.3	1014.54	118.90	81.30
48	7.500	11	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1429.8	123.9	99.1	1042.51	123.90	99.10
49	7.250	11	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1393.6	118.2	85.7	1051.51	118.20	85.70
50	7.000	11	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1486.4	101.6	89.9	1115.39	101.60	89.90
51	6.750	12	RHS R2	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1375.8	119.5	89.1	1000.40	119.50	89.10
52	6.500	12	RHS R1	400.0	1500.0	100.0	500.0	44.0	176.0	200.0	150.0	1360.9	112.7	84.5	984.17	112.70	84.50

SR.NO	Chianage	KM Wise Section	Lane Position	Avg. Teampe rature	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)			Remaining life of Pavement				Design MSA				Overlay Requirement	
								FATIGUE		RUTTING		FATIGUE		RUTTING			
								TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	Required Thickness	Recommended Thickness
1	2	3	4	31	32	33	34	35	36	37	38	39	40	41	42	43	44
29	4.750	7	RHS R2	27.6	1002.45	110.40	88.03	0.0006749	**0.716**	0.0009021	**0.898**	0.0002384	**41.04**	0.0003081	**117.1**	**103**	**105**
30	4.500	7	RHS R1	27.2													
31	4.500	7	RHS R3	28.2													
32	4.250	7	RHS R2	28.4													
33	4.000	7	RHS R1	28.0													
34	4.000	7	RHS R3	28.3													
35	3.750	8	RHS R2	27.7	970.29	107.13	85.77	0.0006167	**1.046**	0.000884	**0.984**	0.0002406	**40.71**	0.0003214	**96.66**	**106**	**110**
36	3.500	8	RHS R1	27.6													
37	3.500	8	RHS R3	28.2													
38	3.300	8	RHS R2	28.0													
				Road 4.5 To 4.6 - Papaya nursery Signal To NMC limit Pimpalgao Bahula													
39	6.500	9	LHS L1	27.3	970.34	127.18	83.08	0.0005971	**1.186**	0.0008341	**1.281**	0.0002412	**40.32**	0.0002976	**137**	**98**	**100**
40	6.750	9	LHS L2	28.0													
41	7.000	10	LHS L1	28.4	1029.85	114.64	85.86	0.0006106	**1.033**	0.0008567	**1.135**	0.0002371	**40.96**	0.0003057	**121.3**	**103**	**105**
42	7.250	10	LHS L2	28.2													
43	7.500	10	LHS L1	28.2													
44	7.750	10	LHS L2	27.5													
45	8.000	10	LHS L1	28.3													
46	8.000	11	RHS R1	28.2	1031.32	102.44	83.94	0.0006214	**0.964**	0.0008674	**1.073**	0.0002364	**41.39**	0.0003019	**128.4**	**109**	**110**
47	7.750	11	RHS R2	28.4													
48	7.500	11	RHS R1	27.5													
49	7.250	11	RHS R2	28.4													
50	7.000	11	RHS R1	28.2													
51	6.750	12	RHS R2	27.5	986.61	113.72	85.19	0.0006579	**0.802**	0.0008623	**1.102**	0.0002397	**40.73**	0.0002983	**135.5**	**103**	**105**
52	6.500	12	RHS R1	27.3													

Section Details	Side	Chainage		Crust Thickness (MM)	Granular Layer Thickness	Design Life		
		From	To			Design Life	Adopted MSA	VG30/VG40
Road No. 5.1 Bardan Phata to Motiwala College	BHS	0+000	0+900	140	220	20	40	VG 40
Road No. 5.2 Motiwala College to Baban Lawns	BHS	0+900	1+470	140	220	20	40	VG 40
Road No. 5.3 Baban lawns to Gajre Hospital	BHS	1+470	2+130	140	220	20	40	VG 40
Road No. 5.4 Gajre Hospital to Carbon Naka	BHS	2130	2700	140	220	20	40	VG 40
Road No. 5.5 Carbon Naka to Shramik Nagar Stop	BHS	2+700	3+390	140	220	20	40	VG 40
Road No. 5.6 Shramik Nagar to Ashok Nagar Police Station	BHS	3+390	4+230	140	220	20	40	VG 40
Road No. 5.7 Ashok Nagar Police Station to Amrut Garden	BHS	4+230	5+010	140	220	20	40	VG 40

REMAINING LIFE

SR. NO.	Section	CHAINAGE		REMAINING LIFE OF ROAD				OVERLAY DESIGN				REQUIRED THICKNESS	RECOMMED ED THICKNESS
		FROM	TO	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA		
1	Road No. 5.1 to 5.5	0.000	1.000	0.0005797	1.842	0.0005559	8.062	0.0002611	40.994	0.0002829	172.366	94	95
2	Road No. 5.1 to 5.5	1.000	2.000	0.0007166	1.137	0.0006567	3.787	0.0002862	40.401	0.0003254	91.384	100	100
3	Road No. 5.1 to 5.5	2.000	3.390	0.0006357	1.488	0.0006139	5.141	0.0002724	40.195	0.0003077	117.759	97	100
4	Road No. 5.1 to 5.5	3.390	2.000	0.0006133	1.596	0.0006318	4.513	0.0002670	40.553	0.0003139	107.576	97	100
5	Road No. 5.1 to 5.5	2.000	1.000	0.0005965	1.704	0.0006318	4.513	0.0002644	40.375	0.0003152	105.579	96	100
6	Road No. 5.1 to 5.5	1.000	0.000	0.0005362	2.168	0.0006196	4.930	0.0002532	40.155	0.0003136	108.044	92	95
7	Road No. 5.6 to 5.7	3.390	4.000	0.0006133	1.596	0.0006318	4.513	0.0002670	40.553	0.0003139	107.576	97	100
8	Road No. 5.6 to 5.7	4.000	5.010	0.0005523	2.052	0.0005503	8.440	0.0002564	40.594	0.0002824	173.754	92	95
9	Road No. 5.6 to 5.7	5.010	4.000	0.0007451	1.063	0.0005461	8.739	0.0002929	40.179	0.0002805	179.154	98	100
10	Road No. 5.6 to 5.7	4.000	3.390	0.0006433	1.469	0.0005176	11.143	0.0002731	41.154	0.0002653	230.633	96	100

SR.NO	Chianage	KM Wise Section	Lane Position	Road Condition	AVERAGE DEFELCTION AT A RADIAL DISTANCE (MM) OF							CBR	POISSON'S RATIO		
					0	200	300	450	600	900	1500		BT LAYER	GRANNULAR LAYER	SUBGRADE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Road No. 5.1 to 5.5 Bardan Phata to Carbon Naka to Shramik Nagar Stop															
1	0.000	1	LHS L1	Fair	0.572	0.501	0.399	0.268	0.197	0.095	0.050	7.2	0.5	0.4	0.4
2	0.250	1	LHS L2	Fair	0.574	0.459	0.387	0.235	0.158	0.070	0.037	7.2	0.5	0.4	0.4
3	0.500	1	LHS L1	Fair	0.536	0.351	0.271	0.155	0.097	0.037	0.012	7.2	0.5	0.4	0.4
4	1.000	2	LHS L2	Fair	0.502	0.381	0.308	0.219	0.166	0.094	0.049	7.2	0.5	0.4	0.4
5	1.000	2	LHS L1	Fair	0.529	0.418	0.347	0.280	0.198	0.095	0.043	7.2	0.5	0.4	0.4
6	1.250	2	LHS L2	Fair	0.554	0.507	0.413	0.288	0.218	0.112	0.051	7.2	0.5	0.4	0.4
7	1.500	2	LHS L1	Fair	0.553	0.378	0.274	0.216	0.136	0.105	0.087	7.2	0.5	0.4	0.4
8	1.750	2	LHS L2	Fair	0.613	0.456	0.303	0.212	0.166	0.102	0.067	7.2	0.5	0.4	0.4
9	2.000	3	LHS L1	Fair	0.540	0.499	0.355	0.230	0.152	0.070	0.035	7.2	0.5	0.4	0.4
10	2.250	3	LHS L2	Fair	0.550	0.441	0.334	0.206	0.147	0.081	0.038	7.2	0.5	0.4	0.4
11	2.500	3	LHS L1	Fair	0.508	0.294	0.230	0.172	0.141	0.112	0.084	7.2	0.5	0.4	0.4
12	2.750	3	LHS L2	Fair	0.518	0.483	0.325	0.181	0.116	0.053	0.035	7.2	0.5	0.4	0.4
13	3.000	3	LHS L1	Fair	0.537	0.420	0.399	0.306	0.284	0.199	0.050	7.2	0.5	0.4	0.4
14	3.250	3	LHS L2	Fair	0.535	0.326	0.275	0.173	0.115	0.054	0.031	7.2	0.5	0.4	0.4
15	3.390	4	RHS R1	Fair	0.579	0.327	0.235	0.147	0.111	0.057	0.028	7.2	0.5	0.4	0.4
16	3.140	4	RHS R2	Fair	0.576	0.414	0.316	0.205	0.151	0.082	0.043	7.2	0.5	0.4	0.4
17	2.890	4	RHS R1	Fair	0.546	0.460	0.367	0.281	0.200	0.099	0.048	7.2	0.5	0.4	0.4
18	2.640	4	RHS R2	Fair	0.536	0.441	0.375	0.258	0.186	0.095	0.041	7.2	0.5	0.4	0.4
19	2.390	4	RHS R1	Fair	0.572	0.478	0.405	0.302	0.248	0.152	0.044	7.2	0.5	0.4	0.4
20	2.140	4	RHS R2	Fair	0.594	0.463	0.401	0.299	0.217	0.109	0.058	7.2	0.5	0.4	0.4
21	1.890	5	RHS R1	Fair	0.558	0.360	0.264	0.167	0.128	0.082	0.050	7.2	0.5	0.4	0.4
22	1.640	5	RHS R2	Fair	0.568	0.434	0.353	0.242	0.201	0.103	0.044	7.2	0.5	0.4	0.4
23	1.390	5	RHS R1	Fair	0.587	0.453	0.365	0.253	0.193	0.104	0.047	7.2	0.5	0.4	0.4
24	1.140	5	RHS R2	Fair	0.585	0.468	0.378	0.325	0.222	0.127	0.064	7.2	0.5	0.4	0.4
25	0.890	6	RHS R1	Fair	0.579	0.487	0.376	0.337	0.236	0.123	0.070	7.2	0.5	0.4	0.4
26	0.640	6	RHS R2	Fair	0.561	0.476	0.367	0.228	0.168	0.081	0.039	7.2	0.5	0.4	0.4
27	0.390	6	RHS R1	Fair	0.518	0.404	0.311	0.273	0.204	0.108	0.056	7.2	0.5	0.4	0.4

SR.NO	Chianage	KM Wise Section	Lane Position	LAYER MODULIE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE			CORRECTED MODULIE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULAR THICKNESS	CRUST THICKNESS	BC	SUB GRAN	SUB GRADE	BC	GRANNULAR	SUB GRADE
				Lower	Upper	Lower	Upper	Lower	Upper								
1	2	3	4	17	18	19	20	21	22	23	24	25	26	27	28	29	30
				Road No. 5.1 to 5.5 Bardan Phata to Carbon Naka to Shramik Nagar Stop													
1	0.000	1	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1190.3	100.0	115.0	818.5	100.0	115.0
2	0.250	1	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	900.0	101.6	143.3	621.4	101.6	143.3
3	0.500	1	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1087.1	101.6	144.0	760.9	101.6	144.0
4	1.000	2	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1494.6	100.4	130.5	1041.8	100.4	130.5
5	1.000	2	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1494.6	100.0	124.6	1061.9	100.0	124.6
6	1.250	2	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1318.3	100.0	107.2	949.5	100.0	107.2
7	1.500	2	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	546.2	227.1	114.5	383.3	227.1	114.5
8	1.750	2	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	665.6	143.4	113.2	484.6	143.4	113.2
9	2.000	3	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1078.5	100.8	143.5	768.3	100.8	143.5
10	2.250	3	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	994.6	100.8	143.7	715.4	100.8	143.7
11	2.500	3	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	404.3	498.8	117.1	286.1	498.8	117.1
12	2.750	3	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	917.2	107.4	144.0	663.3	107.4	144.0
13	3.000	3	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1459.1	104.7	104.2	1036.6	104.7	104.2
14	3.250	3	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	882.8	121.5	144.0	650.8	121.5	144.0
15	3.390	4	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	548.4	157.9	144.0	393.4	157.9	144.0
16	3.140	4	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	939.8	101.6	140.3	677.8	101.6	140.3
17	2.890	4	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1236.6	100.0	116.7	878.6	100.0	116.7
18	2.640	4	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1310.8	100.0	130.3	927.5	100.0	130.3
19	2.390	4	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1317.2	100.0	107.9	947.4	100.0	107.9
20	2.140	4	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1259.1	100.4	104.8	905.6	100.4	104.8
21	1.890	5	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	648.4	148.9	143.8	470.8	148.9	143.8
22	1.640	5	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1186.0	100.8	124.0	841.5	100.8	124.0
23	1.390	5	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1202.2	100.4	118.8	856.5	100.4	118.8
24	1.140	5	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1478.5	102.3	94.6	1063.4	102.3	94.6
25	0.890	6	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1487.1	100.4	92.7	1072.5	100.4	92.7
26	0.640	6	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	949.5	100.8	139.7	667.3	100.8	139.7
27	0.390	6	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1497.8	112.1	112.1	1074.3	112.1	112.1

SR.NO	Chianage	KM Wise Section	Lane Position	Avg. Temperature	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)			Remaining life of Pavement				Design MSA				Overlay Requirement	
								FATIGUE		RUTTING		FATIGUE		RUTTING		Required Thickness	Recommended Thickness
								TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA		
1	2	3	4	31	32	33	34	35	36	37	38	39	40	41	42	43	44
				Road No. 5.1 to 5.5 Bardan Phata to Carbon Naka to Shramik Nagar Stop													
1	0.000	1	LHS L1	26.1	663.24	100.48	123.49	0.0005797	1.84	0.0005559	8.06	0.0002611	40.99	0.0002829	172.37	94	95
2	0.250	1	LHS L2	26.2													
3	0.500	1	LHS L1	26.5													
4	1.000	2	LHS L2	26.4	444.12	100.00	110.80	0.0007166	1.14	0.0006567	3.79	0.0002862	40.40	0.0003254	91.38	100	100
5	1.000	2	LHS L1	26.9													
6	1.250	2	LHS L2	27.2													
7	1.500	2	LHS L1	26.6													
8	1.750	2	LHS L2	27.5													
9	2.000	3	LHS L1	27.0	559.58	100.80	113.88	0.0006357	1.49	0.0006139	5.14	0.0002724	40.19	0.0003077	117.76	97	100
10	2.250	3	LHS L2	27.2													
11	2.500	3	LHS L1	26.8													
12	2.750	3	LHS L2	27.3													
13	3.000	3	LHS L1	26.9													
14	3.250	3	LHS L2	27.8													
15	3.390	4	RHS R1	27.1	606.68	100.00	107.13	0.0006133	1.60	0.0006318	4.51	0.000267	40.55	0.0003139	107.58	97	100
16	3.140	4	RHS R2	27.3													
17	2.890	4	RHS R1	26.9													
18	2.640	4	RHS R2	26.8													
19	2.390	4	RHS R1	27.2													
20	2.140	4	RHS R2	27.2													
21	1.890	5	RHS R1	27.4	637.62	100.58	105.49	0.0005965	1.70	0.0006318	4.51	0.0002644	40.37	0.0003152	105.58	96	100
22	1.640	5	RHS R2	26.9													
23	1.390	5	RHS R1	27.0													
24	1.140	5	RHS R2	27.2													
25	0.890	6	RHS R1	27.3	781.56	100.40	101.43	0.0005362	2.17	0.0006196	4.93	0.0002532	40.16	0.0003136	108.04	92	95
26	0.640	6	RHS R2	26.6													
27	0.390	6	RHS R1	27.1													

SR.NO	Chianage	KM Wise Section	Lane Position	Road Condition	AVERAGE DEFELCTION AT A RADIAL DISTANCE (MM) OF							CBR	POISSON'S RATIO		
					0	200	300	450	600	900	1500		BT LAYER	GRANNULAR LAYER	SUBGRADE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
28	0.140	6	RHS R2	Fair	0.531	0.476	0.377	0.259	0.189	0.107	0.049	7.2	0.5	0.4	0.4
Road No. 5.6 & 5.7 Shramik Nagar to Amrut Garden															
29	3.390	7	LHS L1	Fair	0.558	0.500	0.399	0.278	0.205	0.122	0.062	7.2	0.5	0.4	0.4
30	3.390	7	LHS L3	Fair	0.534	0.477	0.396	0.275	0.210	0.114	0.058	7.2	0.5	0.4	0.4
31	3.640	7	LHS L2	Fair	0.502	0.460	0.329	0.282	0.244	0.116	0.054	7.2	0.5	0.4	0.4
32	3.890	7	LHS L1	Fair	0.586	0.503	0.406	0.262	0.194	0.100	0.055	7.2	0.5	0.4	0.4
33	3.890	7	LHS L3	Fair	0.535	0.404	0.324	0.230	0.177	0.108	0.065	7.2	0.5	0.4	0.4
34	4.140	8	LHS L2	Fair	0.515	0.459	0.379	0.260	0.196	0.099	0.044	7.2	0.5	0.4	0.4
35	4.390	8	LHS L1	Fair	0.586	0.499	0.393	0.246	0.180	0.093	0.050	7.2	0.5	0.4	0.4
36	4.390	8	LHS L3	Fair	0.552	0.390	0.344	0.245	0.180	0.090	0.031	7.2	0.5	0.4	0.4
37	4.640	8	LHS L2	Fair	0.543	0.372	0.276	0.174	0.129	0.064	0.032	7.2	0.5	0.4	0.4
38	4.890	8	LHS L1	Fair	0.564	0.410	0.337	0.225	0.170	0.092	0.044	7.2	0.5	0.4	0.4
39	4.890	8	LHS L3	Fair	0.558	0.434	0.386	0.276	0.195	0.080	0.034	7.2	0.5	0.4	0.4
40	5.010	9	RHS R1	Fair	0.569	0.427	0.347	0.233	0.176	0.090	0.040	7.2	0.5	0.4	0.4
41	5.010	9	RHS R3	Fair	0.573	0.382	0.280	0.153	0.097	0.041	0.022	7.2	0.5	0.4	0.4
42	4.760	9	RHS R2	Fair	0.553	0.343	0.236	0.129	0.084	0.045	0.035	7.2	0.5	0.4	0.4
43	4.510	9	RHS R1	Fair	0.582	0.461	0.342	0.192	0.131	0.063	0.033	7.2	0.5	0.4	0.4
44	4.510	9	RHS R3	Fair	0.523	0.411	0.287	0.155	0.094	0.040	0.021	7.2	0.5	0.4	0.4
45	4.260	9	RHS R2	Fair	0.568	0.419	0.305	0.178	0.125	0.062	0.033	7.2	0.5	0.4	0.4
46	4.010	9	RHS R1	Fair	0.559	0.404	0.318	0.206	0.152	0.074	0.033	7.2	0.5	0.4	0.4
47	4.010	9	RHS R3	Fair	0.592	0.519	0.379	0.219	0.152	0.070	0.034	7.2	0.5	0.4	0.4
48	3.760	10	RHS R2	Fair	0.502	0.382	0.281	0.154	0.101	0.042	0.022	7.2	0.5	0.4	0.4
49	3.510	10	RHS R1	Fair	0.542	0.426	0.309	0.192	0.135	0.067	0.036	7.2	0.5	0.4	0.4
50	3.510	10	RHS R3	Fair	0.550	0.412	0.373	0.247	0.169	0.072	0.029	7.2	0.5	0.4	0.4

SR.NO	Chianage	KM Wise Section	Lane Position	LAYER MODULIE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE			CORRECTED MODULIE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULAR THICKNESS	CRUST THICKNESS	BC	SUB GRAN	SUB GRADE	BC	GRANNULAR	SUB GRADE
				Lower	Upper	Lower	Upper	Lower	Upper								
1	2	3	4	17	18	19	20	21	22	23	24	25	26	27	28	29	30
28	0.140	6	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1345.2	100.4	114.9	921.2	100.4	114.9
				Road No. 5.6 & 5.7 Shramik Nagar to Amrut Garden													
29	3.390	7	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1346.2	100.0	101.5	951.2	100.0	101.5
30	3.390	7	LHS L3	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1463.4	100.0	105.4	1009.0	100.0	105.4
31	3.640	7	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1483.9	100.8	107.9	1048.5	100.8	107.9
32	3.890	7	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1025.8	100.0	110.6	696.8	100.0	110.6
33	3.890	7	LHS L3	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1383.9	128.5	110.5	1010.4	128.5	110.5
34	4.140	8	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1367.7	100.0	122.7	940.5	100.0	122.7
35	4.390	8	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	990.3	100.4	118.2	705.5	100.4	118.2
36	4.390	8	LHS L3	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1408.6	100.0	143.9	1015.9	100.0	143.9
37	4.640	8	LHS L2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1040.9	108.2	144.0	736.5	108.2	144.0
38	4.890	8	LHS L1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1223.7	100.4	130.7	877.7	100.4	130.7
39	4.890	8	LHS L3	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1275.3	100.0	143.5	923.5	100.0	143.5
40	5.010	9	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1184.9	100.4	133.3	872.3	100.4	133.3
41	5.010	9	RHS R3	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	559.1	107.8	144.0	398.8	107.8	144.0
42	4.760	9	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	401.1	161.0	144.0	281.5	161.0	144.0
43	4.510	9	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	751.6	100.0	143.6	539.1	100.0	143.6
44	4.510	9	RHS R3	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	647.3	106.3	144.0	467.5	106.3	144.0
45	4.260	9	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	690.3	105.5	144.0	481.2	105.5	144.0
46	4.010	9	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1132.3	100.8	143.9	837.0	100.8	143.9
47	4.010	9	RHS R3	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	825.8	100.4	143.7	595.6	100.4	143.7
48	3.760	10	RHS R2	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	724.7	105.1	144.0	514.9	105.1	144.0
49	3.510	10	RHS R1	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	850.5	100.0	143.7	592.0	100.0	143.7
50	3.510	10	RHS R3	400.0	1500.0	100.0	500.0	36.0	144.0	220.0	140.0	1115.1	102.0	143.3	809.7	102.0	143.3

SR.NO	Chianage	KM Wise Section	Lane Position	Avg. Temperature	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)			Remaining life of Pavement				Design MSA				Overlay Requirement	
								FATIGUE		RUTTING		FATIGUE		RUTTING		Required Thickness	Recommended Thickness
								TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA		
1	2	3	4	31	32	33	34	35	36	37	38	39	40	41	42	43	44
28	0.140	6	RHS R2	26.0													
				Road No. 5.6 & 5.7 Shramik Nagar to Amrut Garden													
29	3.390	7	LHS L1	26.8	849.45	100.00	103.84	0.0005118	2.42	0.0005962	5.87	0.0002478	40.67	0.000305	122.56	90	90
30	3.390	7	LHS L3	26.2													
31	3.640	7	LHS L2	26.8													
32	3.890	7	LHS L1	25.8													
33	3.890	7	LHS L3	27.6													
34	4.140	8	LHS L2	26.1	728.75	100.00	121.58	0.0005523	2.05	0.0005503	8.44	0.0002564	40.59	0.0002824	173.75	92	95
35	4.390	8	LHS L1	27.0													
36	4.390	8	LHS L3	27.3													
37	4.640	8	LHS L2	26.8													
38	4.890	8	LHS L1	27.1													
39	4.890	8	LHS L3	27.4													
40	5.010	9	RHS R1	27.8	402.28	100.40	143.61	0.0007451	1.06	0.0005461	8.74	0.0002929	40.18	0.0002805	179.15	98	100
41	5.010	9	RHS R3	27.0													
42	4.760	9	RHS R2	26.6													
43	4.510	9	RHS R1	27.1													
44	4.510	9	RHS R3	27.3													
45	4.260	9	RHS R2	26.4													
46	4.010	9	RHS R1	27.9													
47	4.010	9	RHS R3	27.3													
48	3.760	10	RHS R2	26.9	538.02	100.60	143.42	0.0006433	1.47	0.0005176	11.14	0.0002731	41.15	0.0002653	230.63	96	100
49	3.510	10	RHS R1	26.4													
50	3.510	10	RHS R3	27.4													

Section Details	Side	Chainage		Crust Thickness (MM)	Granular Layer Thickness (MM)	Design Life		
		From	To			Design Life (Yrs.)	Adopted MSA	VG30/VG40
Road 6.1 - Papaya nursery to Nandini bridge	BHS	0+000	0+240	150	250	20	40	VG 40
Road 6.2 - Nandini bridge	BHS	0+240	0+330	150	250	20	40	VG 40
Road 6.3 - Nandini bridge to Datta mandir chowk	BHS	0+330	1+080	150	250	20	40	VG 40
Road 6.4 - datta mandir chowk to Maharashtra weigh bridge	BHS	1+080	2+040	150	250	20	40	VG 40
Road 6.5 - Maharashtra weigh bridge to Maheshwari plaza	BHS	2+040	2+490	150	250	20	40	VG 40
Road 6.6 - Maheshwari plaza to Xlo point circle	BHS	2+490	2+790	150	250	20	40	VG 40

REMAINING LIFE

SR. NO.	Road No.	CHAINAGE		REMAINING LIFE OF ROAD				OVERLAY DESIGN				REQUIRED THICKNESS	RECOMMEDED THICKNESS
		FROM	TO	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA		
1	Road No. 6.1 To 6.3	0.000	1.000	0.0006154	1.090	0.0007056	2.735	0.0002423	40.931	0.0002865	162.762	95	95
2	Road No. 6.3 To 6.4	1.000	2.000	0.0006233	1.060	0.0007122	2.622	0.0002441	40.662	0.0002944	143.878	96	100
3	Road No. 6.4 To 6.6	2.000	2.790	0.0006122	1.162	0.0007234	2.443	0.0002461	40.259	0.0002854	165.626	94	95
4	Road No. 6.4 To 6.6	2.790	2.000	0.0006187	0.999	0.0007134	2.602	0.0002385	40.741	0.0002931	146.794	97	100
5	Road No. 6.4 To 6.3	2.000	1.000	0.0006027	1.210	0.0007436	2.156	0.0002437	40.984	0.0002733	201.570	92	95
6	Road No. 6.1 To 6.3	1.000	0.000	0.0006137	1.131	0.0007131	2.607	0.0002442	40.760	0.0002911	151.423	96	100

SR.NO	Chianage	KM Wise Section	Lane Position	Road Condition	AVERAGE DEFELCTION AT A RADIAL DISTANCE (MM) OF							CBR	POISSON'S RATIO		
					0	200	300	450	600	900	1500		BT LAYER	GRANNULAR LAYER	SUBGRADE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Road No. 6.1 To 6.6 - Papaya nursery To Xlo Point Circle															
1	0.000	1	LHS L1	Fair	0.549	0.412	0.372	0.246	0.169	0.072	0.029	5.3	0.5	0.4	0.4
2	0.250	1	LHS L2	Fair	0.523	0.465	0.339	0.190	0.121	0.054	0.036	5.3	0.5	0.4	0.4
3	0.500	1	LHS L1	Fair	0.543	0.486	0.344	0.284	0.150	0.088	0.046	5.3	0.5	0.4	0.4
4	0.750	1	LHS L2	Fair	0.491	0.364	0.321	0.274	0.147	0.097	0.054	5.3	0.5	0.4	0.4
5	1.000	2	LHS L1	Fair	0.574	0.386	0.286	0.163	0.108	0.054	0.036	5.3	0.5	0.4	0.4
6	1.250	2	LHS L2	Fair	0.575	0.390	0.290	0.167	0.115	0.061	0.039	5.3	0.5	0.4	0.4
7	1.500	2	LHS L1	Fair	0.565	0.438	0.405	0.365	0.262	0.135	0.015	5.3	0.5	0.4	0.4
8	1.750	2	LHS L2	Fair	0.520	0.403	0.339	0.270	0.168	0.087	0.028	5.3	0.5	0.4	0.4
9	2.000	3	LHS L1	Fair	0.541	0.474	0.367	0.328	0.253	0.140	0.025	5.3	0.5	0.4	0.4
10	2.250	3	LHS L2	Fair	0.547	0.451	0.410	0.357	0.277	0.152	0.030	5.3	0.5	0.4	0.4
11	2.500	3	LHS L1	Fair	0.545	0.487	0.439	0.378	0.242	0.182	0.036	5.3	0.5	0.4	0.4
12	2.750	3	LHS L2	Fair	0.474	0.432	0.297	0.247	0.221	0.170	0.032	5.3	0.5	0.4	0.4
13	2.750	4	RHS R2	Fair	0.482	0.423	0.380	0.337	0.207	0.157	0.026	5.3	0.5	0.4	0.4
14	2.500	4	RHS R1	Fair	0.564	0.516	0.458	0.304	0.274	0.136	0.020	5.3	0.5	0.4	0.4
15	2.250	4	RHS R2	Fair	0.560	0.446	0.339	0.303	0.231	0.126	0.028	5.3	0.5	0.4	0.4
16	2.000	4	RHS R1	Fair	0.477	0.423	0.364	0.319	0.214	0.152	0.027	5.3	0.5	0.4	0.4
17	1.750	5	RHS R2	Fair	0.550	0.454	0.409	0.282	0.234	0.149	0.032	5.3	0.5	0.4	0.4
18	1.500	5	RHS R1	Fair	0.548	0.485	0.441	0.378	0.238	0.172	0.027	5.3	0.5	0.4	0.4
19	1.250	5	RHS R2	Fair	0.582	0.510	0.406	0.273	0.201	0.096	0.051	5.3	0.5	0.4	0.4
20	1.000	5	RHS R1	Fair	0.504	0.452	0.359	0.305	0.257	0.154	0.027	5.3	0.5	0.4	0.4
21	0.750	6	RHS R2	Fair	0.548	0.505	0.463	0.326	0.209	0.156	0.034	5.3	0.5	0.4	0.4
22	0.500	6	RHS R1	Fair	0.502	0.326	0.247	0.151	0.114	0.064	0.036	5.3	0.5	0.4	0.4
23	0.250	6	RHS R2	Fair	0.509	0.398	0.361	0.313	0.255	0.134	0.022	5.3	0.5	0.4	0.4
24	0.000	6	RHS R1	Fair	0.580	0.391	0.291	0.168	0.113	0.058	0.040	5.3	0.5	0.4	0.4

SR.NO	Chianage	KM Wise Section	Lane Position	LAYER MODULIE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE			CORRECTED MODULIE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULAR THICKNESS	CRUST THICKNESS	BC	SUB GRAN	SUB GRADE	BC	GRANNULAR	SUB GRADE
				Lower	Upper	Lower	Upper	Lower	Upper								
1	2	3	4	17	18	19	20	21	22	23	24	25	26	27	28	29	30
				Road No. 6.1 To 6.6 - Papaya nursery To Xlo Point Circle													
1	0.000	1	LHS L1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1264.8	112.7	102.1	917.18	112.70	102.10
2	0.250	1	LHS L2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1487.2	122.2	99.5	1079.92	122.20	99.50
3	0.500	1	LHS L1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1317.7	118.3	96.4	954.23	118.30	96.40
4	0.750	1	LHS L2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1490.8	103	102.5	1076.64	103.00	102.50
5	1.000	2	LHS L1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1259.8	113.1	96.5	916.05	113.10	96.50
6	1.250	2	LHS L2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1439.2	114	99.5	1039.38	114.00	99.50
7	1.500	2	LHS L1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1252.9	102.3	104.5	904.83	102.30	104.50
8	1.750	2	LHS L2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1283	109.6	96.5	936.75	109.60	96.50
9	2.000	3	LHS L1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1380.4	113.1	105.2	999.64	113.10	105.20
10	2.250	3	LHS L2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1228.5	108.6	98.9	892.07	108.60	98.90
11	2.500	3	LHS L1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1212.4	125.6	100.5	882.79	125.60	100.50
12	2.750	3	LHS L2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1497.5	123.2	97.6	1090.38	123.20	97.60
13	2.750	4	RHS R2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1478.6	114.3	97.5	1073.68	114.30	97.50
14	2.500	4	RHS R1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1389.6	105	104.2	1013.20	105.00	104.20
15	2.250	4	RHS R2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1386.8	127.3	103.5	1005.64	127.30	103.50
16	2.000	4	RHS R1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1491.3	105.8	96.3	1093.31	105.80	96.30
17	1.750	5	RHS R2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1247.7	125	105.2	909.73	125.00	105.20
18	1.500	5	RHS R1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1266.1	124.5	98	924.41	124.50	98.00
19	1.250	5	RHS R2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1387.4	124.9	101.4	1007.46	124.90	101.40
20	1.000	5	RHS R1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1250.9	128.9	102.3	907.10	128.90	102.30
21	0.750	6	RHS R2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1309.6	114.8	104.4	947.07	114.80	104.40
22	0.500	6	RHS R1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1329.2	114.9	98	967.83	114.90	98.00
23	0.250	6	RHS R2	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1203.8	118.2	101.7	871.75	118.20	101.70
24	0.000	6	RHS R1	400.0	1500.0	100.0	500.0	26.5	106.0	250.0	150.0	1307.8	101.4	100.7	949.65	101.40	100.70

SR.NO	Chianage	KM Wise Section	Lane Position	Avg. Team perature	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)			Remaining life of Pavement				Design MSA				Overlay Requirement	
								FATIGUE		RUTTING		FATIGUE		RUTTING		Required Thickness	Recommended Thickness
								TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA		
1	2	3	4	31	32	33	34	35	36	37	38	39	40	41	42	43	44
				Road No. 6.1 To 6.6 - Papaya nursery To Xlo Point Circle													
1	0.000	1	LHS L1	27.4	933.85	107.37	97.80	0.0006154	1.09	0.0007056	2.735	0.0002423	40.93	0.0002865	162.8	95	95
2	0.250	1	LHS L2	27.4													
3	0.500	1	LHS L1	27.4													
4	0.750	1	LHS L2	27.3													
5	1.000	2	LHS L1	27.5	909.88	105.59	96.50	0.0006233	1.06	0.0007122	2.622	0.0002441	40.66	0.0002944	143.9	96	100
6	1.250	2	LHS L2	27.3													
7	1.500	2	LHS L1	27.3													
8	1.750	2	LHS L2	27.6													
9	2.000	3	LHS L1	27.4	886.97	110.63	98.19	0.0006122	1.162	0.0007234	2.443	0.0002461	40.26	0.0002854	165.6	94	95
10	2.250	3	LHS L2	27.4													
11	2.500	3	LHS L1	27.5													
12	2.750	3	LHS L2	27.5													
13	2.750	4	RHS R2	27.4	1009.04	105.36	96.84	0.0006187	0.999	0.0007134	2.602	0.0002385	40.74	0.0002931	146.8	97	100
14	2.500	4	RHS R1	27.5													
15	2.250	4	RHS R2	27.4													
16	2.000	4	RHS R1	27.7													
17	1.750	5	RHS R2	27.5	908.28	124.68	99.53	0.0006027	1.21	0.0007436	2.156	0.0002437	40.98	0.0002733	201.6	92	95
18	1.500	5	RHS R1	27.6													
19	1.250	5	RHS R2	27.4													
20	1.000	5	RHS R1	27.4													
21	0.750	6	RHS R2	27.3	905.65	107.43	99.22	0.0006137	1.131	0.0007131	2.607	0.0002442	40.76	0.0002911	151.4	96	100
22	0.500	6	RHS R1	27.5													
23	0.250	6	RHS R2	27.4													
24	0.000	6	RHS R1	27.4													

Section Details	Side	Chainage		Crust Thickness (MM)	Granular Layer Thickness	Design Life		
		From	To			Design Life	Adopted MSA	VG30/VG40
Road No. 10.1 Bapu bridge to Gangajal nursery	BHS	1+260	1+830	100	230	20	40	VG 40
Road No 10.4 Shivanagar to Bendkule mala	BHS	2+340	2+790	100	230	20	40	VG 40

REMAINING LIFE

SR. NO.	Section	CHAINAGE		REMAINING LIFE OF ROAD				OVERLAY DESIGN				REQUIRED THICKNESS	RECOMMEDED THICKNESS
		FROM	TO	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA		
1	Road No. 10.1	1.260	1.830	0.0006286	**1.124**	0.0006842	**2.428**	0.0002438	**40.416**	0.0002975	**126.430**	**106**	**110**
2	Road No. 10.1	1.830	1.260	0.0006485	**0.838**	0.0006149	**4.314**	0.0002459	**40.083**	0.0002547	**243.132**	**109**	**110**
3	Road No 10.4	2.340	2.790	0.0006852	**0.878**	0.0006517	**4.044**	0.0002481	**40.254**	0.0002741	**153.290**	**108**	**110**

SR.NO	Chianage	KM Wise Section	Lane Position	Road Condition	AVERAGE DEFELCTION AT A RADIAL DISTANCE (MM) OF							CBR	POISSON'S RATIO		
					0	200	300	450	600	900	1500		BT LAYER	GRANNULAR LAYER	SUBGRADE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Road No. 10.1 Bapu bridge to Gangajal nursery															
1	1.260	1	LHS	FAIR	0.594	0.528	0.467	0.406	0.300	0.154	0.095	8.4	0.5	0.4	0.4
2	1.760	1	LHS	FAIR	0.558	0.517	0.371	0.253	0.178	0.109	0.084	8.4	0.5	0.4	0.4
3	1.830	2	RHS	FAIR	0.582	0.502	0.466	0.349	0.289	0.188	0.143	8.4	0.5	0.4	0.4
4	1.330	2	RHS	FAIR	0.583	0.509	0.445	0.364	0.295	0.188	0.140	8.4	0.5	0.4	0.4
Road No 10.4 Shivanagar to Bendkule mala															
5	2.340	3	LHS	FAIR	0.570	0.428	0.353	0.268	0.186	0.099	0.073	8.4	0.5	0.4	0.4
6	2.590	3	RHS	FAIR	0.577	0.518	0.404	0.283	0.220	0.134	0.100	8.4	0.5	0.4	0.4

SR.NO	Chianage	KM Wise Section	Lane Position	LAYER MODULIE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE			CORRECTED MODULIE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULAR THICKNESS	CRUST THICKNESS	BC	SUB GRAN	SUB GRADE	BC	GRANNULAR	SUB GRADE
				Lower	Upper	Lower	Upper	Lower	Upper								
1	2	3	4	17	18	19	20	21	22	23	24	25	26	1	28	29	30
				Road No. 10.1 Bapu bridge to Gangajal nursery													
1	1.260	1	LHS	400.0	1500.0	100.0	500.0	42.0	168.0	230.0	100.0	1306.7	100.0	235.5	925.84	100.00	235.50
2	1.760	1	LHS	400.0	1500.0	100.0	500.0	42.0	168.0	230.0	100.0	1235.5	100.0	199.7	892.27	100.00	199.70
3	1.830	2	RHS	400.0	1500.0	100.0	500.0	42.0	168.0	230.0	100.0	1303.2	102.3	236.0	918.34	102.30	236.00
4	1.330	2	RHS	400.0	1500.0	100.0	500.0	42.0	168.0	230.0	100.0	1267.9	100.0	147.1	887.37	100.00	147.10
				Road No 10.4 Shivanagar to Bendkule mala													
5	2.340	3	LHS	400.0	1500.0	100.0	500.0	42.0	168.0	230.0	100.0	1025.7	101.2	185.3	732.71	101.20	185.30
6	2.590	3	RHS	400.0	1500.0	100.0	500.0	42.0	168.0	230.0	100.0	1466.7	100.0	233.1	1033.55	100.00	233.10

SR.NO	Chianage	KM Wise Section	Lane Position	Avg. Temperature	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)			Remaining life of Pavement				Design MSA				Overlay Requirement	
								FATIGUE		RUTTING		FATIGUE		RUTTING		Required Thickness	Recommended Thickness
								TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA	TENSILE STRAIN FROM IIT PAVE SOFTWARE	MSA	VERTICAL STRAIN FROM IIT PAVE SOFTWARE	MSA		
1	2	3	4	31	32	33	34	35	36	37	38	39	40	41	42	43	44
				Road No. 10.1 Bapu bridge to Gangajal nursery													
1	1.260	1	LHS	26.8	897.30	100.00	205.07	0.0006286	1.12	0.0006842	2.43	0.0002438	40.42	0.0002975	126.43	106	110
2	1.760	1	LHS	27.3													
3	1.830	2	RHS	26.7	892.01	100.35	160.44	0.0006485	0.84	0.0006149	4.31	0.0002459	40.08	0.0002547	243.13	109	110
4	1.330	2	RHS	26.5													
				Road No 10.4 Shivanagar to Bendkule mala														
5	2.340	3	LHS	27.0	777.84	100.18	192.47	0.0006852	0.88	0.0006517	4.04	0.0002481	40.25	0.0002741	153.29	108	110
6	2.590	3	RHS	26.7													

2.4.3 Discussion and Conclusion of Result Values:

For the project Satpur Division.

Civil Tech's Eray-FWD20MT Falling Weight Deflectometer was engaged for data collection and the survey was carried on 11/08/2025. The testing was undertaken in all sections that reflected the road conditions and pavement composition. Subsequently the analysis was undertaken with appropriate pavement compositions as per IRC guidelines - IRC 115: 2014 and IRC 37: 2018.

- Existing road No.02 has crust thickness of 150 mm on BHS side and Granular thickness is 220 mm on BHS side.

  Existing road No.04 has crust thickness of 150 mm on BHS side and Granular thickness is 200 mm on BHS side.

  Existing road No.05 has crust thickness of 140 mm on BHS side and Granular thickness is 220 mm on BHS side.

  Existing road No.06 has crust thickness of 150 mm on BHS side and Granular thickness is 250 mm on BHS side.

  Existing road No.10 has crust thickness of 100 mm on BHS side and Granular thickness is 230 mm on BHS side.

- The design MSA is 40.
- However, as required by the office of Nashik Municipal Corporation following are the recommendation:
  1. For Road No. 02 Minimum thickness of BC is 40mm, DBM is 60mm and BM with thickness of 55mm is proposed.
  2. For Road No. 04 Minimum thickness of BC is 40mm, DBM is 60mm and BM with thickness of 55mm is proposed.
  3. For Road No. 05 Minimum thickness of BC is 40mm, DBM is 60mm and BM with thickness of 55mm is proposed.

4. For Road No. 06 Minimum thickness of PQC Layer is 300mm,DLC Layer is 150mm & 300mm GSB Layer is proposed.
5. For Road No. 10 BC is 40mm, DBM is 60mm and BM with thickness of 55mm is proposed.

For Civil Tech India Pvt. Ltd.,

Reviewed By
Vaishali A. Kachare

Authorised Signatory
Minal V. Bagul

Report No. :- CT/NSK/R/12533/25 **Date :-** 19/08/2025

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of Consultant :- CivilTech India Pvt. Ltd.

Name of the work :- Trimbak Road Papaya nursary signal to Xlo junction

Material identification :- Crust Thickness Measure on Site

Job No. :- 072612

Date of Performance :- 11/08/2025

SR. No.	Name of the work	THICKNESS AS PER SITE (MM)		
		Bitumen Layer	Granular Layer	Subgrade Layer
34	Trimbak Road Papaya nursary signal to Xlo junction	150	250	310

Note :-

1) This report refers only to the particular data collected on site.

2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.

For Civil Tech India Pvt. Ltd.,

Reviewed By
Vaishali A. Kachare

CIVILTECH INDIA PVT. LTD. NASHIK

Authorised Signatory
Minal V. Bagul

Report No. :- CT/NSK/R/12532/25 **Date :-** 19/08/2025

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of Consultant :- CivilTech India Pvt. Ltd.

Name of the work :- Gangapur road Bardan phata to shula chauk

Material Identification :- Crust Thickness Measure on Site

Job No. :- 072612

Date of Performance :- 11/08/2025

SR. No.	Name of the work	THICKNESS AS PER SPEC (MM)		
		Bitumen Layer	Granular Layer	Subgrade Layer
33	Gangapur road Bardan phata to shula chauk	140	220	330

Note :-

1) This report refers only to the particular data collected on site.

2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.

For Civil Tech India Pvt. Ltd.,

CIVIL TECH INDIA PVT. LTD. NASHIK

Reviewed By
Vaishali A. Kachare

Authorised Signatory
Minal V. Bagul

Report No. :- CT/NSK/R/12530/25 **Date** :- 19/08/2025

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of Consultant :- CivilTech India Pvt. Ltd.

Name of the work :- Gangapur road jehan circle to gangapur gaon NMC Boundry

Material Identification :- Crust Thickness Measure on Site

Job No. :- 072612

Date of Performance :- 11/08/2025

SR. No.	Name of the work	THICKNESS AS PER SPEC (MM)		
		Bitumen Layer	Granular Layer	Subgrade Layer
31	Gangapur road jehan circle to gangapur gaon NMC Boundry	150	220	300

Note :-

1) This report refers only to the particular data collected on site.

2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.

For Civil Tech India Pvt. Ltd.,

Reviewed By
Vaishali A. Kachare

CIVIL TECH INDIA PVT. LTD. NASHIK

Authorised Signatory
Minal V. Bagul

Report No. :- CT/NSK/R/12534/25 **Date :-** 19/08/2025

Test Report

Customer Name :-Executive Engineer Satpur Division NMC Nashik.
Address :- Nashik
Name of Consultant :- CivilTech India Pvt. Ltd.
Name of the work :- Aasharam bapu ashram to Navsya Ganpati to Vrindavan Lawns
Material identification :- Crust Thickness Measure on Site
Job No. :- 072612
Date of Performance :- 11/08/2025

Sl. No.	Name of the work	THICKNESS AS PER SITE (MM)		
		Bitumen Layer	Granular Layer	Subgrade Layer
35	Aasharam bapu ashram to Navsya Ganpati to Vrindavan Lawns	100	230	320

Note :-

1) This report refers only to the particular data collected on site.

2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.

For Civil Tech India Pvt. Ltd.,

Reviewed By
Vaishali A. Kachare

CIVILTECH INDIA PVT LTD NASHIK

Authorised Signatory
Minal V. Bagul

Report No. - CT/NSK/R/12531/25 **Date :-** 19/08/2025

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of Consultant :- CivilTech India Pvt. Ltd.

Name of the work :- Trimbak road ITI Signal to Pimpalgaon Bahula NMC Boundary

Material identification :- Crust Thickness Measure on Site

Job No. :- 072612

Date of Performance :- 11/08/2025

SR. No.	Name of the work	THICKNESS AS PER SITE (MM)		
		Bitumen Layer	Granular Layer	Subgrade Layer
32	Trimbak road ITI Signal to Pimpalgaon Bahula NMC Boundary	150	200	300

Note :-

1) This report refers only to the particular data collected on site.

2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.

For Civil Tech India Pvt. Ltd.,

Reviewed By
Vaishali A. Kachare

CIVILTECH INDIA PVT. LTD. NASHIK

Authorised Signatory
Minal V. Bagul

CIVILTECH INDIA PVT. LTD.

Report No. :- CT/NSK/R/12530/25 **Date :- 19/08/2025**

ULR No :- TC536425000012530F

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of work :- Gangapur Road-Jehan Circle to Gangapur Gaon Munciple Boundary

Material identification :- OGL Soil Sample (Silty Sands)

Test Location :- Plot no. 1372, Behind Shivaji Garden, Kanherewadi, Nashik- 422001

Job No. :- 072612

Date of receipt of material :- 11/08/2025 **Date of performance of test** :-11/08/2025 to 19/08/2025

Temp. at time of test :- NA **Humidity at time of test** :- NA

Method of Test

1. Grain Size Analysis Test as per IS 2720-1985 (Part 4) RA 2020
2. Liquid Limit & Plastic Limit Test as per IS 2720-1985 (Part 5) RA 2020
3. Standard Proctor Test as per IS 2720-1983 (Part 8) RA 2020
4. Free Swell Index (FSI) Test as per IS 2720-1977 (Part 40) RA 2021
5. California Bearing Ratio (C.B.R.) Test as per IS 2720-1987 (Part 16) RA 2021

Sr. No.	Sample Identification	Grain size Analysis			Atterberg Limits			Max. Dry Density (MDD)	Optimum moisture Content (OMC)	CBR	FSI
		Gravel (> 4.75 mm)	Sand (4.75 to 0.075 mm)	Silt and clay (<0.075mm)	Liquid Limit (wL)	Plastic Limit (wp)	Plasticity Index (Ip)				
		%	%	%	%	%	%	(gm/cm^3)	%	%	%
1	OGL Soil Sample (Silty Sands)	7.3	56.1	36.6	35.4	28.7	6.7	1.936	13.0	9.1	30.0

For CivilTech India Pvt. Ltd.

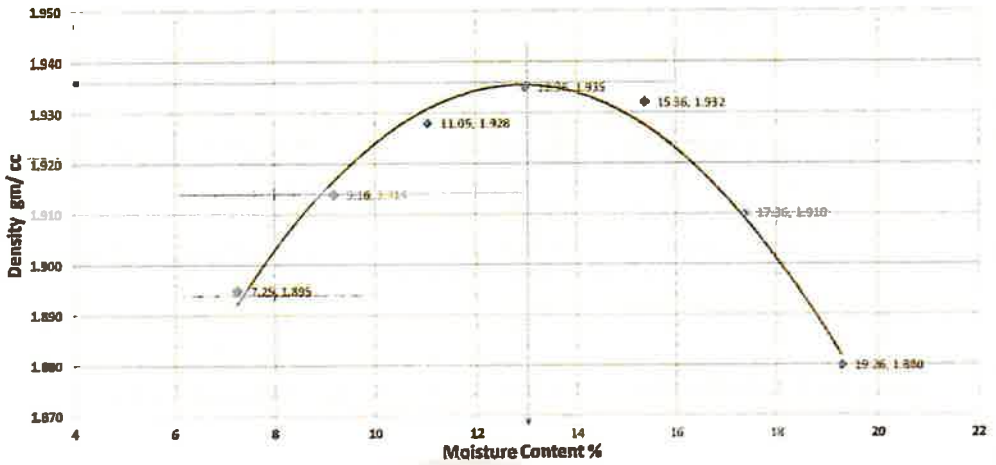
CIVILTECH INDIA PVT. LTD. NASHIK

Reviewed and Authorized by

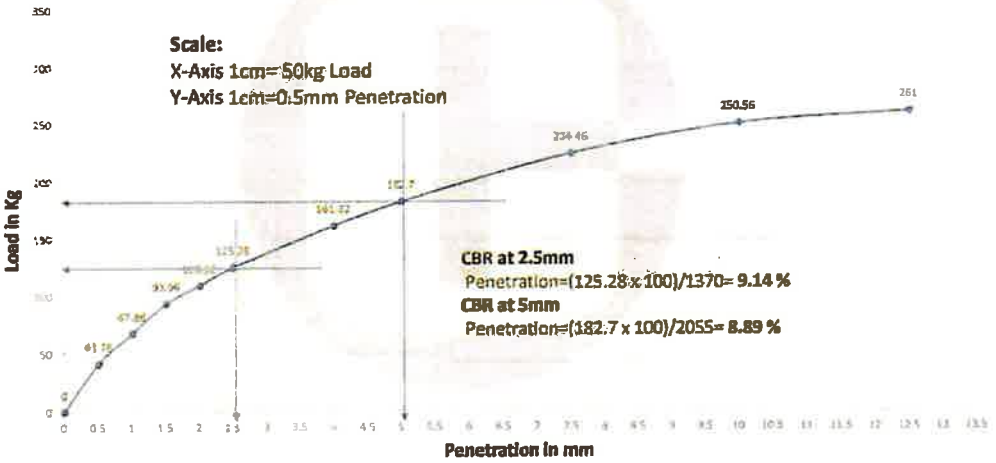
TC-5364

CIVILTECH INDIA PVT. LTD.

Standard Proctor Test



California Bearing Ratio



Note :-

1) This report refers only to the particular sample submitted to lab for the Test.
2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.
3) NP- Not Plastic; NA - Not Applicable
4) This report is invalid without paper seal of Civil Tech India Pvt. Ltd.

For CivilTech India Pvt. Ltd.

Reviewed and Authorized by

CIVILTECH INDIA PVT. LTD. NASHIK

TC-5364

CIVILTECH INDIA PVT LTD

Report No. :- CT/NSK/R/12531/25 **Date :- 19/08/2025**

ULR No :- TC536425000012531F

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of work :- Trimbak road ITI Signal to Pimplegaon Bahula Munciple Boundary

Material identification :- OGL Soil Sample (Silty Sands)

Test Location :- Plot no. 1372, Behind Shivaji Garden, Kanherewadi, Nashik- 422001

Job No. :- 072612A

Date of receipt of material :- 11/08/2025 **Date of performance of test** :-11/08/2025 to 19/08/2025

Temp. at time of test :- NA **Humidity at time of test** :- NA

Method of Test

1. Grain Size Analysis Test as per IS 2720-1985 (Part 4) RA 2020
2. Liquid Limit & Plastic Limit Test as per IS 2720-1985 (Part 5) RA 2020
3. Standard Proctor Test as per IS 2720-1983 (Part 8) RA 2020
4. Free Swell Index (FSI) Test as per IS 2720-1977 (Part 40) RA 2021
5. California Bearing Ratio (C.B.R.) Test as per IS 2720-1987 (Part 16) RA 2021

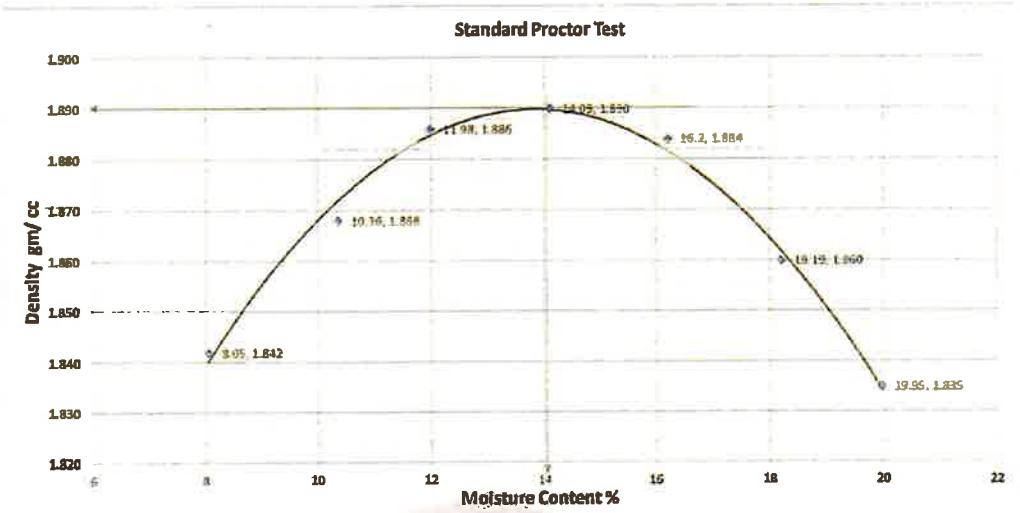
Sr. No.	Sample Identification	Grain size Analysis			Atterberg Limits			Max. Dry Density (MDD)	Optimum moisture Content (OMC)	CBR	FSI
		Gravel (> 4.75 mm)	Sand (4.75 to 0.075 mm)	Silt and clay (<0.075mm)	Liquid Limit (wL)	Plastic Limit (wp)	Plasticity Index (Ip)				
		%	%	%	%	%	%	(gm/cm^3)	%	%	%
1	OGL Soil Sample (Silty Sands)	6.5	52.7	40.9	37.8	25.6	12.2	1.890	14.0	8.8	35.0

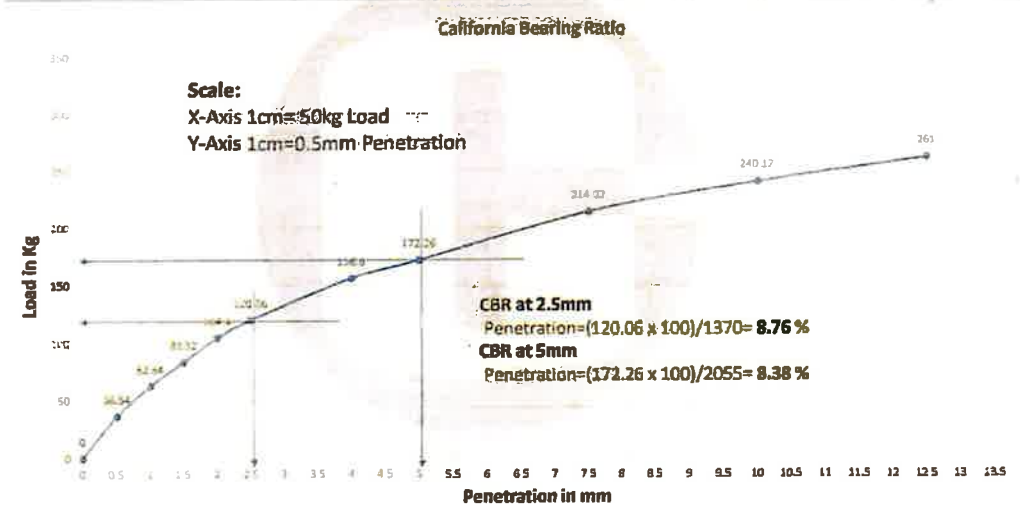
For CivilTech India Pvt. Ltd.

CIVILTECH INDIA PVT. LTD. NASHIK

Reviewed and Authorized by

TC-5364





Note :-

1) This report refers only to the particular sample submitted to lab for the Test.
2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.
3) NP- Not Plastic; NA - Not Applicable
4) This report is invalid without paper seal of Civil Tech India Pvt. Ltd.

For CivilTech India Pvt. Ltd.

Reviewed and Authorized by

Report No. :- CT/NSK/R/12531/25
2of2

CIVILTECH INDIA PVT. LTD.

Report No. :- CT/NSK/R/12532/25 **Date :- 19/08/2025**

ULR No :- TC536425000012532F

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of work :- Gangapur Road Bardan phata to Sula Chowk

Material identification :- OGL Soil Sample (Silty Sands)

Test Location :- Plot no. 1372, Behind Shivaji Garden, Kanherewadi, Nashik- 422001

Job No. :- 072612B

Date of receipt of material :- 11/08/2025 **Date of performance of test** :-11/08/2025 to 19/08/2025

Temp. at time of test :- NA **Humidity at time of test** :- NA

Method of Test

1. Grain Size Analysis Test as per IS 2720-1985 (Part 4) RA 2020
2. Liquid Limit & Plastic Limit Test as per IS 2720-1985 (Part 5) RA 2020
3. Standard Proctor Test as per IS 2720-1983 (Part 8) RA 2020
4. Free Swell Index (FSI) Test as per IS 2720-1977 (Part 40) RA 2021
5. California Bearing Ratio (C.B.R.) Test as per IS 2720-1987 (Part 16) RA 2021

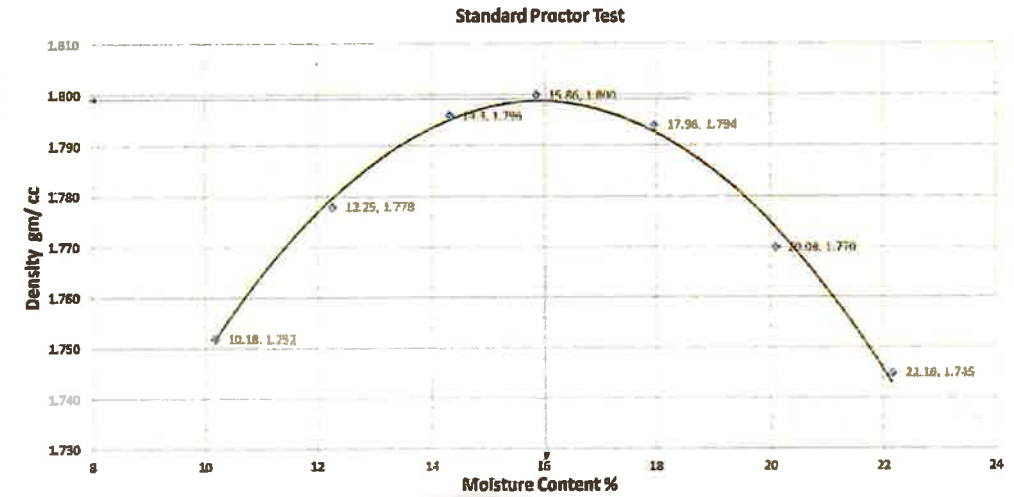
Sr. No.	Sample Identification	Grain size Analysis			Atterberg Limits			Max. Dry Density (MDD)	Optimum moisture Content (OMC)	CBR	FSI
		Gravel (> 4.75 mm)	Sand (4.75 to 0.075 mm)	Silt and clay (<0.075mm)	Liquid Limit (wL)	Plastic Limit (wp)	Plasticity Index (Ip)				
		%	%	%	%	%	%	(gm/cm^3)	%	%	%
1	OGL Soil Sample (Silty Sands)	5.2	46.3	48.5	42.6	23.5	19.1	1.800	16.0	7.2	45.0

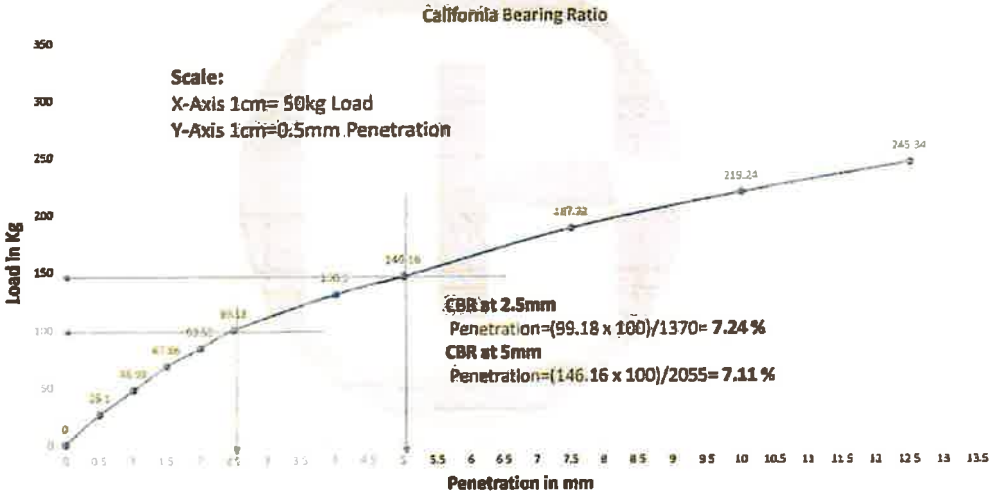
For CivilTech India Pvt. Ltd.

CIVILTECH INDIA PVT. LTD. NASHIK

Reviewed and Authorized by

TC-5364





Note :-

1) This report refers only to the particular sample submitted to lab for the Test.
2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.
3) NP- Not Plastic; NA - Not Applicable
4) This report is invalid without paper seal of Civil Tech India Pvt. Ltd.

For CivilTech India Pvt. Ltd.

Reviewed and Authorized by

Report No. :- CT/NSK/R/12532/25
2of2

TC-5364

CIVILTECH INDIA PVT. LTD.

Report No. :- CT/NSK/R/12533/25 **Date :- 19/08/2025**

ULR No :- TC536425000012533F

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of work :- Trimbak Road Papaya Nursury Signal to XLO Junction

Material identification :- OGL Soil Sample (Black Cotton Soil)

Test Location :- Plot no. 1372, Behind Shivaji Garden, Kanherewadi, Nashik- 422001

Job No. :- 072612B

Date of receipt of material :- 11/08/2025 **Date of performance of test** :-11/08/2025 to 19/08/2025

Temp. at time of test :- NA **Humidity at time of test** :- NA

Method of Test

1. Grain Size Analysis Test as per IS 2720-1985 (Part 4) RA 2020
2. Liquid Limit & Plastic Limit Test as per IS 2720-1985 (Part 5) RA 2020
3. Standard Proctor Test as per IS 2720-1983 (Part 8) RA 2020
4. Free Swell Index (FSI) Test as per IS 2720-1977 (Part 40) RA 2021
5. California Bearing Ratio (C.B.R.) Test as per IS 2720-1987 (Part 16) RA 2021

Sr. No.	Sample Identification	Grain size Analysis			Atterberg Limits			Max. Dry Density (MDD)	Optimum moisture Content (OMC)	CBR	FSI
		Gravel	Sand	Silt and clay	Liquid Limit (wl)	Plastic Limit (wp)	Plasticity Index (Ip)				
		(> 4.75 mm)	(4.75 to 0.075 mm)	(<0.075mm)							
		%	%	%	%	%	%	(gm/cm^3)	%	%	%
1	OGL Soil Sample (Black Cotton Soil)	4.0	39.8	56.2	48.4	20.6	27.8	1.730	18.0	5.3	45.0

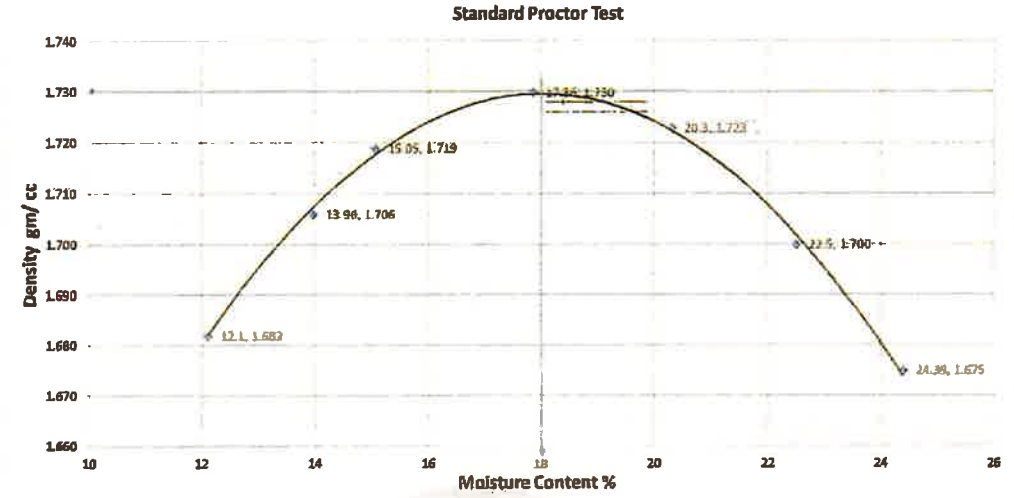
CIVILTECH INDIA PVT. LTD. NASHIK

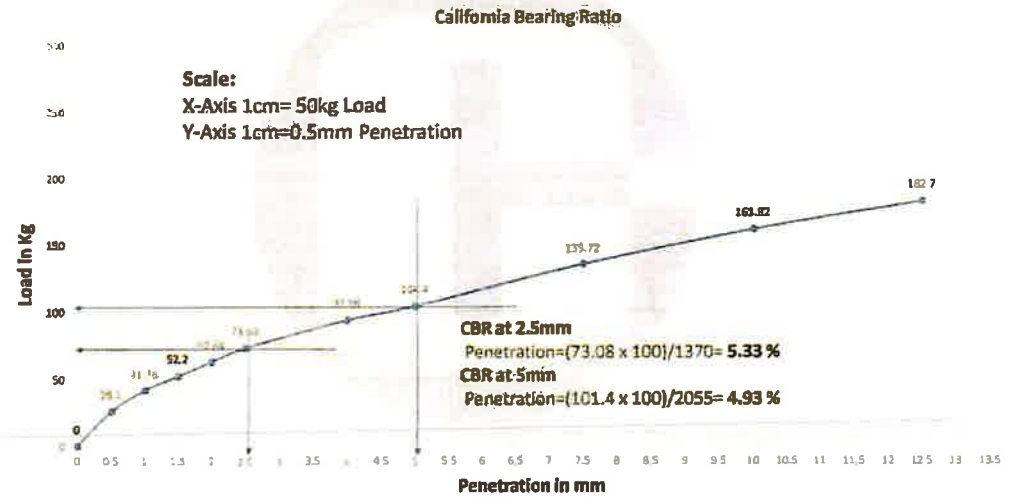
For CivilTech India Pvt. Ltd.

Reviewed and Authorized by

TC-5364

CIVILTECH INDIA PVT. LTD.





Note :-

1) This report refers only to the particular sample submitted to lab for the Test.
2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.
3) NP- Not Plastic; NA - Not Applicable
4) This report is invalid without paper seal of Civil Tech India Pvt. Ltd.

For CivilTech India Pvt. Ltd.

Reviewed and Authorized by

Report No. :- CT/NSK/R/12533/25
2of2

TC-5364

CIVILTECH INDIA PVT LTD

Report No. :- CT/NSK/R/12534/25 **Date :-** 19/08/2025

ULR No :- TC536425000012534F

Test Report

Customer Name :- Executive Engineer Satpur Division NMC Nashik.

Address :- Nashik

Name of work :- Aasaram Bapu Ashram to Navshaya Ganpati to Vrundavan Lawns

Material identification :- OGL Soil Sample (Poorly Graded Sand)

Test Location :- Plot no. 1372, Behind Shivaji Garden, Kanherewadi, Nashik- 422001

Job No. :- 072612D

Date of receipt of material :- 11/08/2025 **Date of performance of test** :-11/08/2025 to 19/08/2025

Temp. at time of test :- NA **Humidity at time of test** :- NA

Method of Test

1. Grain Size Analysis Test as per IS 2720-1985 (Part 4) RA 2020
2. Liquid Limit & Plastic Limit Test as per IS 2720-1985 (Part 5) RA 2020
3. Standard Proctor Test as per IS 2720-1983 (Part 8) RA 2020
4. Free Swell Index (FSI) Test as per IS 2720-1977 (Part 40) RA 2021
5. California Bearing Ratio (C.B.R.) Test as per IS 2720-1987 (Part 16) RA 2021

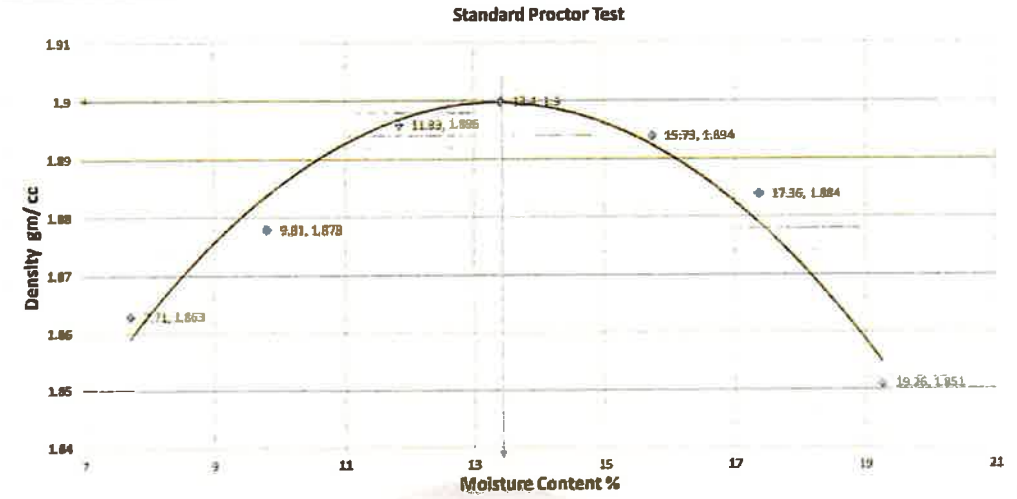
Sr. No.	Sample Identification	Grain size Analysis			Atterberg Limits			Max. Dry Density (MDD)	Optimum moisture Content (OMC)	CBR	FSI
		Gravel	Sand	Silt and clay	Liquid Limit (wL)	Plastic Limit (wp)	Plasticity Index (Ip)				
		(> 4.75 mm)	(4.75 to 0.075 mm)	(<0.075mm)							
		%	%	%	%	%	%	(gm/cm^3)	%	%	%
1	OGL Soil Sample (Poorly Graded Sand)	7.2	49.8	42.9	39.8	23.6	16.2	1.90	13.4	8.4	35.0

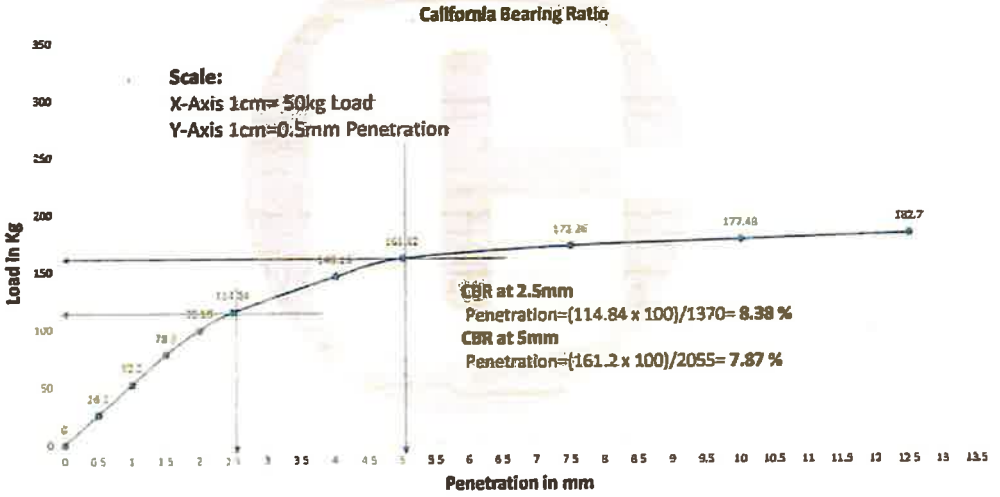
For CivilTech India Pvt. Ltd.

Reviewed and Authorized by

CIVILTECH INDIA PVT. LTD. NASHIK

CIVILTECH INDIA PVT. LTD





Note :-

1) This report refers only to the particular sample submitted to lab for the Test.
2) Report shall not be reproduce except in full without prior written Permission of Civil Tech Lab.
3) NP- Not Plastic; NA - Not Applicable
4) This report is invalid without paper seal of Civil Tech India Pvt. Ltd.

For CivilTech India Pvt. Ltd.

Reviewed **and Authorized by**

Report No. CT/NSK/R/12534/25
2of2

TC-5364

On Site Photos



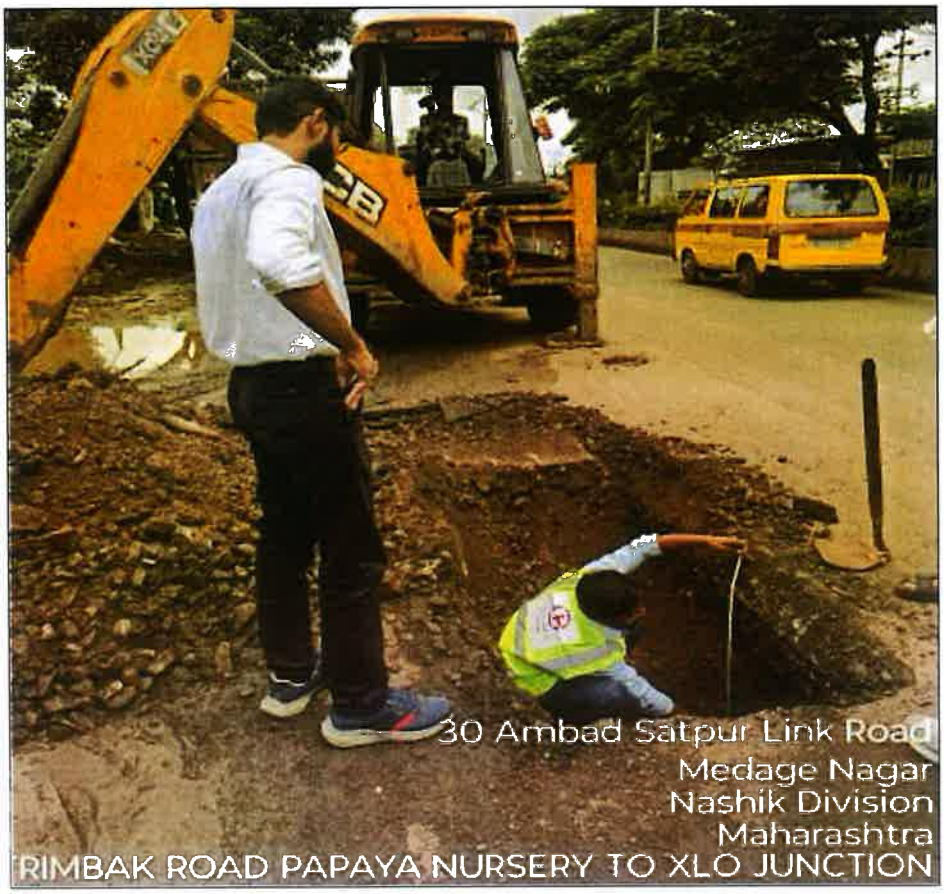




Figure: 3.1 Soil Collection On Site Photo



विभाजक

S-4

1

14/9

नाशिक महानगरपालिका, नाशिक

अनुक्रमणिका

अ.क्र.	तपशिल (का)	दिनांक	पा. नं. (का)
1	सांख्यिकी माध्यमा		पृ 1
2	~~Abstract & measurement~~		पृ 3
3	नमुनाशिर्षा.		पृ 9

५१

Nashik Municipal Corporation

Electrical & Mechanical Department :- Electrical Branch

Fund Head :-

Estimate Prepared by Jr. / Asst. / Sec. Engineer :-

Deputy Engineer :- Shri. V. A. Gaikwad

Executive Engineer :- Shri. A. S. Gaikwad

Name of work :- **Part A-** Supplying and erecting streetlight pole and allied works of Trimbak road Amrut garden chouk (Sula chouk) to Bardan phata, Satpur division, NMC.

Part-B Shifting of 33KV, 11 KV HT line and allied works of Trimbak road Amrut garden chouk (Sula chouk) to Bardan phata, Satpur division, NMC.

Estimate Rs. :- 15704159.00 (Part A) + 43461176.00 (Part B) = 59165335.00

Note :- The estimate is prepared on the basis of PWD DSR 2023-24.

Jr./Sect Engineer	Dy. Engineer	Exe. Engineer
NMC	NMC	NMC

.....

Technical Scrutiny

Technically Sanctioned for Rs. :- 59165335.00

In Words :- Five Crore ninety one Lakh sixty five thousand three hundred thirty five Rs. Only

Vide No. :- 44 Date :- 16/09/2025

APPROVED

Superintending Engineer
Electrical and Mechanical Department
Nashik Municipal Corporation, Nashik

ABSTRACT

Name of work: Supplying and erecting streetlight pole and allied works of Trimbak road Amrut garden chouk (Sula chouk) to Bardan phata, Satpur division, NMC.

S. N	Item	Qty	Per	Rate	Amount
1	Supplying and erecting 9 m high (clear height) galvanised octagonal pole with foundation bolts having bottom of 155 mm A/F, top 70 mm A/F on provided foundation (PWD DSR 2023-24, 8-2-15)	170	Nos	21847.00	3713990.00
2	Supplying and erecting galvanised 1000mm single arm sword type bracket with FRP dome and ball (PWD DSR 2023-24, 8-2-19)	5	Nos	2710.00	13550.00
3	Supplying and erecting galvanised 1000mm double arm sword type bracket with FRP dome and ball (PWD DSR 2023-24, 8-2-20)	165	Nos	4500.00	742500.00
4	Making M-20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 1.5m depth including supply of steel, concrete, excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 6m to 8m high octagonal pole). (PWD DSR 2023-24, 16-3-9)	1	Nos	4873.00	4873.00
5	Making M-20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 1.5m depth including supply of steel, concrete, excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 9m high octagonal pole). (PWD DSR 2023-24, 16-3-10)	170	No	6437.00	1094290.00
6	Providing and making platform by making excavation for foundation, situ cement concrete of M-10, uncoursed rubble masonry of trap, rubble stone soling 15cm to 20dc thick including hand packing and compacting, situ cement concrete of M20 grade trap, steel bar rainforcement of various diameters for RCC work, sand faced plaster externally in cement mortar, etc complete	1	Cub.M	11551.00	11551.00
7	Supplying and erecting FRP box of size 300mm x 200mm x 125 mm, 2.7 mm thick complete on pole/wall (PWD DSR 2023-24, 7-8-10)	5	Nos	790.00	3950.00
8	Supplying and erecting integrated LED street light fitting 70-75W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 7700 Lumens, min. efficacy of 110 lumen/W, CRI>70, CCT upto 6500K,THD<10%, p.f. >0.95, operating range of 140-270V, inbuilt surge protection of 10 kV, etc complete. (PWD DSR 2023-24, 2-3-6)	5	Nos	5753.00	28765.00

S. N	Item	Qty	Per	Rate	Amount
9	Supplying and erecting integrated LED street light fitting 160-170W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 19000 Lumens, etc complete (PWD DSR 2023-24, 2-3-11)	335	Nos	11766.00	3941610.00
10	Supplying and erecting FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-28)	6990	Mtr	183.00	1279170.00
11	Supplying and erecting FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-29)	260	Mtr	215.00	55900.00
12	Supplying and erecting PVC insulated PVC round sheathed FR 1.5 sq.mm (30 no. x 0.25mm dia.) 3 core flexible multi stranded copper industrial cable for voltage grade up to 1.1 kV (PWD DSR 2023-24, 1-3-14)	3850	Mtr	70.00	269500.00
13	Supplying and erecting mains with WP 2 x 6 sq. mm. 1.1kV. grade aluminium PVC insulated and PVC sheathed wires on G.I. bearer wire no. 8 SWG complete erected (PWD DSR 2023-24, 1-4-3)	500	Mtr	85.00	42500.00
14	Supplying, erecting & marking SPMCB 0.5A to 5A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board (PWD DSR 2023-24, 5-3-1)	176	No	250.00	44000.00
15	Supplying and erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm., with necessary material (PWD DSR 2023-24, 7-4-1)	2	Nos	2075.00	4150.00
16	Making trench in Hard murum/Tar road having 0.75m depth and minimum 0.3m width for laying provided cables up to voltage level 1.1kV cable complete (PWD DSR 2023-24, 16-1-2)	20	Mtr	219.00	4380.00
17	Supplying and erecting 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete. (PWD DSR 2023-24, 7-6-9)	6800	Mtr	204.00	1387200.00
18	Supplying and erecting 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete. (PWD DSR 2023-24, 7-6-11)	50	Mtr	333.00	16650.00

S. N	Item	Qty	Per	Rate	Amount
19	Supplying and erecting three phase, 415V, street light control panel upto the max load of 12kW, TPN MCB 63A, powder coated CRCA 14 SWG sheet, outdoor type, having IP54, IK10 protection suitable rating contactor, 24 hrs. astronomical time switch with minimum 5 years battery back up, auto/manual selector switch, ON/OFF push buttons, indicator lamps, control wiring, metering device, etc. complete (PWD DSR 2023-24, 5-2-6)	3	Nos	31461.00	94383.00
20	Providing, installing and testing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all accessories (PWD DSR 2023-24, 9-1-4)	173	Nos	1537.00	265901.00
21	Supplying and erecting 7 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.	1	Nos	55100.00	55100.00
22	Supplying and erecting decorative double arm bracket for 7/8 m decorative pole etc complete.	1	Nos	33500.00	33500.00
23	Supplying and erecting decorative integral post top lantern LED fixtures of 50 W consisting with accessories on provided pole /bracket	1	Nos	9975.00	9975.00
24	Supplying and erecting decorative integral hanging LED fixtures of 72 W consisting with accessories on provided pole /bracket	1	Nos	9700.00	9700.00
25	Making fabrication work using 16 gauge metal sheet including Iron work with bending, cutting, drilling and welding complete (PWD DSR 2023-24, 6-1-1).	96.06	Kg	261.00	25070.88
26	Dismantling the existing pole above 6 m height with brackets, clamps, insulators, stay from the c.c. foundation (PWD DSR 2023-24, 8-7-2)	150	Nos	1043.00	156450.00
				Total	13308609
				GST @18%	2395550
				PART-A Total	15704159

Junior Engineer
Electrical Department

Deputy Engineer
Electrical Department

MEASUREMENT

Name of work: Supplying and erecting streetlight pole and allied works of Trimbak road Amrut garden chouk (Sula chouk) to Bardan phata, Satpur division, NMC.

S. N	Item	Qty	Per
1	9 m high (clear height) galvanised octagonal pole.	170	Nos
2	1000mm single arm sword type bracket.	5	Nos
3	1000mm double arm sword type bracket.	165	Nos
4	M-20 grade reinforced cement concrete foundation for 6m to 8m high octagonal pole.	1	Nos
5	M-20 grade reinforced cement concrete foundation for 9m high octagonal pole.	170	No
6	Platform of M20 grade trap, steel bar rainforcement of various diameters for RCC work, sand faced plaster externally in cement mortar.	1	Cub.M
7	FRP box of size 300mm x 200mm x 125 mm, 2.7 mm thick.	5	Nos
8	LED street light fitting 70-75W.	5	Nos
9	LED street light fitting 160-170W.	335	Nos
10	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor.	6990	Mtr
11	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor.	260	Mtr
12	PVC insulated PVC round sheathed FR 1.5 sq.mm (30 no. x 0.25mm dia.) 3 core flexible multi stranded copper industrial cable for voltage grade up to 1.1 Kv.	3850	Mtr
13	Mains with WP 2 x 6 sq. mm. 1.1kV. grade aluminium PVC insulated and PVC sheathed wires.	500	Mtr
14	SPMCB 0.5A to 5A.	176	No
15	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm.	2	Nos
16	Making hard murum/Tar road.	20	Mtr
17	50 mm outside dia. double wall corrugated pipes (DWC).	6800	Mtr
18	90 mm outside dia. double wall corrugated pipes (DWC).	50	Mtr
19	Three phase, 415V, street light control panel upto the max load of 12kW.	3	Nos
20	Pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod.	173	Nos
21	7 m long decorative pole.	1	Nos
22	Decorative double arm bracket for 7/8 m decorative pole.	1	Nos
23	Decorative integral post top lantern LED fixtures of 50 W.	1	Nos
24	Decorative integral hanging LED fixtures of 72 W.	1	Nos
25	Fabrication work.	96.057	Kg
26	Dismantling the existing pole above 6 m height	150	Nos

Deputy Engineer

Electrical Department

ABSTRACT

Name of work: Shifting of 33KV, 11 KV HT line and allied works of Trimbak road Amrut garden chouk (Sula chouk) to Bardan phata, Satpur division, NMC.

S. N	Item	Qty	Per	Rate	Amount
1	Providing and fixing inline cut point D. P. Structure for 11/0.415 kV, 200 KVA Transformer with R.S.J. Pole 2 Nos. of size 100 x 116 mm x 11 Mtr. Long with suitable Distribution Box of C.R.C.A. Sheet 16 SWG with 4 Pole MCCB 400 Amps as incomer & 6 Nos. 200 Amps Kitkat / MCCB for out going circuits. Transformer D.P. Structure includes the A. B. Switch 200 Amps, D.O. fuse Set & L.A. Set. 2 Nos.Top channel of size 100 mmx 50 mm for erection of A.B. Switch & 2 Nos. Base channel of size 100 mm x 50 x mm for erecting Transformer. Channel of size 75 x40 mm for erecting D.O. Fuse Set, L.A., A.B. Switch handle etc.Angle of size 50 x 50 x6 mm for erecting Distribution Box , Transformer Belt etc.as per drawing (min.176 Kg. iron work) with necessary clamps, Nut-bolts. V cross arm, top clip, insulators etc. complete with caution board & barbed wire.D.P. Structure shall be erected in c.c. foundation complete. (PWD DSR 2023-24, 8-3-23)	4	Nos	167122.00	668488.00
2	Providing and fixing 3 phase, 11/0.433 kV, 50 Hz., 200 kVA, Mineral oil immersed and naturally cooled outdoor type, aluminium wound Non-sealed transformer, delta/star connected with additional neutral brought out on load side, etc complete (PWD DSR 2023-24, 10-1-3).	4	No	308133.00	1232532.00
3	Providing and fixing rolled steel joist (girder) pole 152 x 152 mm (37.1kg/m) with base plate in provided foundation (PWD DSR 2023-24, 8-1-15)	156	Mtr	2681.00	418236.00
4	Providing and fixing rolled steel joist (girder) pole 100 x 116 mm (23 kg/m) with base plate in provided foundation (PWD DSR 2023-24, 8-1-13)	209	Mtr	1840.00	384560.00
5	Providing and fixing rolled steel joist (girder) pole 125 x 70 mm (13.3 kg/m) with base plate in provided foundation (PWD DSR 2023-24, 8-1-10)	44	Mtr	1164.00	51216.00
6	Providing and fixing G.I. stay set for poles, including loop insulators at inaccessible height with anchor plate 300x300x6 mm., straining screws, G.I. stay wire 7/8 SWG, G.I. stay rod 20mmx1.8m length and pole clamps duly erected in provided cement concrete foundation complete (PWD DSR 2023-24, 8-6-2)	4	Nos	2010.00	8040.00
7	Providing and fixing HT stay wire	60	Kg	150.00	9000.00
8	Making Cement concrete foundation including excavation (60 x 60)cm x deep 1/6 of pole length in 1:3:6 cement concrete 20 x 25 mm stone metal, 45cm x 45cm x 45cm/ 45cm dia. x 45cm height plinth duly plastered, with necessary curing and finishing complete. (for above 9m poles) (PWD DSR 2023-24, 16-3-4)	28	Nos	3536.00	99008.00

S. N	Item	Qty	Per	Rate	Amount
9	Making Cement concrete foundation including excavation (60 x 60 x 150)cm deep in 1:3:6 cement concrete, (20 to 25) mm stone metal with necessary curing and finishing complete.(for stay). (PWD DSR 2023-24, 16-3-6)	4	Nos	2491.00	9964.00
10	Providing and making platform by making excavation for foundation, situ cement concrete of M-10, uncoursed rubble masonry of trap, rubble stone soling 15cm to 20dc thick including hand packing and compacting, situ cement concrete of M20 grade trap, steel bar rainforcement of various diameters for RCC work, sand faced plaster externally in cement mortar, etc complete	4	Cub.M	11551.00	46204.00
11	Providing and fixing various channels, clamp, angle, flat etc fabrication works (PWD DSR 2023-24, 6-1-19)	1519	Kg	196.00	297774.96
12	Providing and fixing disc type insulator 70 KN with necessary hardware suitable for 33kV line complete (PWD DSR 2023-24, 8-5-8)	30	Nos	2037.00	61[illegible].00
13	Providing and fixing disc type insulator 45KN with necessary hardware suitable for 11kV line, complete (PWD DSR 2023-24, 8-5-6)	12	Nos	1255.00	15060.00
14	Providing and fixing pin type insulator with GI pin suitable for 33kV line, complete (PWD DSR 2023-24, 8-5-11)	30	Nos	889.00	26670.00
15	Providing and fixing porcelain pin type insulator with GI pin suitable for 11kV line, complete (PWD DSR 2023-24, 8-5-9)	15	Nos	313.00	4695.00
16	Providing and fixing approved make thyrite type lightning arrestor suitable for 33KV line	2	Sets	48750.00	97500.00
17	Providing and fixing approved make thyrite type lightning arrestor suitable for 11KV line (PWD Elec 2023-24, 8-5-15)	2	Nos	1347.00	2694.00
18	Providing and fixing isolator suitable for 33KV capacity	4	No	86400.00	345600.00
19	Providing and fixing air break switch without earth switch 11KV, 400A outdoor type gang operated air break, triple pole switch of required capacity complete (PWD DSR 2023-24, 10-5-2)	2	No	16128.00	32256.00
20	Providing and fixing 11 kV outdoor type drop out fuse with insulator complete with fuse holders, fuse barrel with metal fitting, fuse element mounted on M.S. channel with working current of 15A capacity complete erected on provided cross arm (PWD DSR 2023-24, 10-5-5)	1	No	6603.00	6603.00
21	Providing and fixing ACSR conductor of size - 6/1-4.72 mm (Dog) complete. (PWD DSR 2023-24, 8-4-11)	5	Km	97655.00	488275.00

S. N	Item	Qty	Per	Rate	Amount
22	Providing and fixing ACSR conductor of size - 6/1-4.09 mm (Raccon) complete (PWD DSR 2023-24, 8-4-10)	3	Km	77065.00	231195.00
23	Providing and fixing Nut bolts, hardware and Sundries, etc	7	Set	15000.00	105000.00
24	Providing and fixing extendable/non-extendable outdoor type 11 kV 630A, load break isolator switch, etc complete (PWD DSR 2023-24, 5-9-3)	2	No	152150.00	304300.00
25	Providing and fixing HT 11 kV 4 way feeder pillar.	1	No	82500.00	82500.00
26	Providing and fixing HT 33 kV 4 way feeder pillar.	1	No	225000.00	225000.00
27	Providing and fixing 11 kV 630A, indoor type ring main unit 3 way with internal arc compliance complete (PWD DSR 2023-24, 5-9-5)	1	No	458962.00	458962.00
28	Providing and fixing 11 kV 630A, indoor type ring main unit with 4 way with internal arc compliance complete (PWD DSR 2023-24, 5-9-6)	1	No	607269.00	607269.00
29	Providing, fixing, testing and commissioning 33 kV SF6 motorised SCADA compatible ring main unit with 3 Isolator + 1 Breaker complete erected on provided CC foundation	2	No	5865500.00	11731000.00
30	Providing and fixing 11 kV HRC fuse 63A for load break switch with necessary nut bolts complete. (PWD DSR 2023-24, 5-9-10)	21	Nos	6077.00	127617.00
31	Dismantling the existing overhead line including G.I. wires of all sizes without damaging & making the coils in suitable sizes. (PWD DSR 2023-24, 8-7-3)	4	Km	1489.00	5956.00
32	Dismantling the existing lightening arrestor set, insulator from DP structure complete. (PWD DSR 2023-24, 8-7-4)	2	Nos	108.00	216.00
33	Dismantling the existing DP, brackets, clamps, insulators, stay, transformer from the c.c. foundation (PWD DSR 2023-24, 8-7-2)	4	Nos	17500.00	70000.00
34	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 300 sq. mm. aluminium conductor laid in provided trench / pipe (PWD DSR 2023-24, 7-3-27)	1675	Mtr	3991.00	6684925.00
35	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 300 sq. mm. aluminium conductor laid in provided trench / pipe (PWD DSR 2023-24, 7-3-7)	2400	Mtr	2764.00	6633600.00
36	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 120 sq. mm. aluminium conductor laid in provided trench / pipe (PWD DSR 2023-24, 7-3-3)	50	Mtr	1544.00	77200.00
37	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 95 sq. mm. aluminium conductor laid in provided trench / pipe (PWD DSR 2023-24, 7-3-2)	50	Mtr	1354.00	67700.00

S. N	Item	Qty	Per	Rate	Amount
38	Providing and fixing Heat shrinkable straight through joint kit for 3 x 300sq.mm 33Kv (E) XLPE HT cable etc complete (PWD Elec 2023-24, 7-5-33)	6	No	92799.00	556794.00
39	Providing and fixing Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x300 sq. mm. with necessary material (PWD DSR 2023-24, 7-5-11)	6	Nos	29627.00	177762.00
40	Providing and fixing Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm. with necessary material (PWD DSR 2023-24, 7-5-10)	2	Nos	26804.00	53608.00
41	Providing and fixing Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x up to 95 sq. mm. with necessary material (PWD DSR 2023-24, 7-5-9)	2	Nos	22307.00	44614.00
42	Providing and fixing Heat shrinkable outdoor termination kit for 33kV (E) XLPE HT cable 3x300 sq. mm. to 400 sq. mm. with necessary material (PWD DSR 2023-24, 7-5-29)	12	Nos	33057.00	396684.00
43	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x300 sq. mm. with necessary material (PWD DSR 2023-24, 7-5-7)	18	Nos	14682.00	264276.00
44	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm. with necessary material (PWD DSR 2023-24, 7-5-6)	2	Nos	13197.00	26394.00
45	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x 95 sq. mm. with necessary material (PWD DSR 2023-24, 7-5-5)	2	Nos	13964.00	27928.00
46	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor complete erected with glands & lugs on wall/ trusses/pole or laid in provided trench/ pipe (PWD DSR 2023-24, 7-1-28)	100	Mtr	183.00	18300.00
47	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-29)	100	Mtr	215.00	21500.00
48	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 35 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-16)	100	Mtr	297.00	29700.00
49	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 50 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-17)	100	Mtr	386.00	38600.00

S. N	Item	Qty	Per	Rate	Amount
50	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 70 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-18)	100	Mtr	499.00	49900.00
51	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 95 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-19)	100	Mtr	611.00	61100.00
52	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 120 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-20)	100	Mtr	761.00	76100.00
53	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 150 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-21)	50	Mtr	902.00	45100.00
54	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 185 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-22)	100	Mtr	1102.00	110200.00
55	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 240 sq. mm. aluminium conductor complete (PWD DSR 2023-24, 7-1-23)	50	Mtr	1380.00	69000.00
56	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm., with necessary material (PWD DSR 2023-24, 7-4-1)	10	Nos	2075.00	20750.00
57	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 25 to 50 sq mm., with necessary material (PWD DSR 2023-24, 7-4-2)	5	Nos	2773.00	13865.00
58	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 70 to 95 sq mm., with necessary material (PWD DSR 2023-24, 7-4-3)	5	Nos	3838.00	19190.00
59	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 185 sq mm., with necessary material (PWD DSR 2023-24, 7-4-4)	5	Nos	4014.00	20070.00
60	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 240 sq mm., with necessary material (PWD DSR 2023-24, 7-4-5)	5	Nos	6214.00	31070.00
61	Providing and fixing G.I. pipe 'A' class 75 mm dia. for enclosing XLPE armoured cable on wall/pole (PWD DSR 2023-24, 7-6-4)	100	Mtr	674.00	67400.00
62	Providing and laying (including excavation) half round reinforced cement concrete pipe of NP-2 class of 150mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete. (PWD DSR 2023-24, 7-6-6)	3800	Mtr	545.00	2071000.00

S. N	Item	Qty	Per	Rate	Amount
63	Making trench in Hard murum/Tar road having 0.75m depth and minimum 0.3m width for laying provided cables up to voltage level 1.1kV cable complete (PWD DSR 2023-24, 16-1-2)	100	Mtr	219.00	21900.00
64	Providing and laying 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete. (PWD DSR 2023-24, 7-6-9)	100	Mtr	204.00	20400.00
65	Providing and laying 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete. (PWD DSR 2023-24, 7-6-11)	250	Mtr	333.00	83250.00
66	Providing and laying 120 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete. (PWD DSR 2023-24, 7-6-12)	250	Mtr	374.00	93500.00
67	Providing and fixing mains with WP 3 x 6 sq. mm. 1.1kV. grade aluminium PVC insulated and PVC sheathed wires on G.I. bearer wire no. 8 SWG complete erected with required size of porcelain reel insulators and 16 SWG G.I. binding wire. (PWD DSR 2023-24, 1-4-5)	100	Mtr	142.00	14200.00
68	Providing and fixing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all accessories (PWD DSR 2023-24, 9-1-4)	40	Nos	1537.00	61480.00
69	Providing and fixing GI earth wire of high purity of different sizes used for earthing. (PWD DSR 2023-24, 9-2-5)	250	Kg	168.00	42000.00
70	Licencing work for line shifting Co-ordination with MSEDCL etc complete.	7	Job.	35000.00	245000.00
71	Providing and fixing mini feeder pillar with 415V, 315-320A FPMCCB as incomer and 3 outgoing circuits with HRC fuse base and cartridge of 100A aluminium bus bar erected in 14 SWG CRCA sheet box with supporting angles, self locks, gasket and enclosure must be dust proof, rust proof, vermin and water resistant, having slanting top and erected on angle iron/ GI frame in provided C.C. foundation complete (PWD DSR 2023-24, 5-2-2)	4	Nos	55236.00	220944.00
				Total	36831505
				GST @18%	6629671
				PART-B Total	43461176

Junior Engineer
Electrical Department

Deputy Engineer
Electrical Department

MEASUREMENT

Name of work: Shifting of 33KV, 11 KV HT line and allied works of Trimbak road Amrut garden chouk (Sula chouk) to Bardan phata, Satpur division, NMC.

S. N	Item	Qty	Per
1	D. P. Structure for 11/0.415 kV, 200 KVA Transformer with R.S.J. Pole 2 Nos. of size 100 x 116 mm x 11 Mtr. Long.	4	Nos
2	3 phase, 11/0.433 kV, 50 Hz., 200 kVA, Mineral oil immersed and naturally cooled outdoor type, aluminium wound Non-sealed transformer.	4	No
3	Rolled steel joist (girder) pole 152 x 152 mm	156	Mtr
4	Rolled steel joist (girder) pole 100 x 116 mm.	209	Mtr
5	Rolled steel joist (girder) pole 125 x 70 mm.	44	Mtr
6	G.I. stay set for poles.	4	Nos
7	HT stay wire.	60	Kg
8	Making Cement concrete foundation for above 9m poles.	28	Nos
9	Making Cement concrete foundation for stay.	4	Nos
10	Platform of M20 grade trap, steel bar rainforcement of various diameters for RCC work, sand faced plaster externally in cement mortar.	4	Cub. M
11	Fabrication works.	1519	Kg
12	Disc type insulator 70 KN with necessary hardware suitable for 33kV line.	30	Nos
13	Disc type insulator 45KN with necessary hardware suitable for 11kV line.	12	Nos
14	Pin type insulator with GI pin suitable for 33kV line,	30	Nos
15	Pin type insulator with GI pin suitable for 11kV line,	15	Nos
16	Thyrite type lightning arrestor suitable for 33KV line	2	Sets
17	Thyrite type lightning arrestor suitable for 11KV line.	2	Nos
18	Isolator suitable for 33KV capacity	4	No
19	Air break switch without earth switch 11KV, 400A outdoor type gang operated air break, triple pole switch.	2	No
20	11 kV outdoor type drop out fuse with insulator complete.	1	No
21	ACSR conductor of size - 6/1-4.72 mm (Dog)	5	Km
22	ACSR conductor of size - 6/1-4.09 mm (Raccon)	3	Km
23	Nut bolts, hardware and Sundries.	7	Set
24	Extendable/non-extendable outdoor type 11 kV 630A, load break isolator switch.	2	No
25	HT 11 kV 4 way feeder pillar.	1	No
26	HT 33 kV 4 way feeder pillar.	1	No
27	11 kV 630A.	1	No
28	11 kV 630A.	1	No
29	33 kV SF6 motorised SCADA compatible ring main unit with 3 Isolator + 1 Breaker complete.	2	No
30	11 kV HRC fuse 63A for load break switch	21	Nos
31	Dismantling the existing overhead line.	4	Km

S. N	Item	Qty	Per
32	Dismantling the existing lightening arrestor set,	2	Nos
33	Dismantling the existing DP.	4	Nos
34	XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 300 sq. mm. aluminium conductor.	1675	Mtr
35	XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 300 sq. mm. aluminium conductor.	2400	Mtr
36	XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 120 sq. mm. aluminium conductor.	50	Mtr
37	XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 95 sq. mm. aluminium conductor.	50	Mtr
38	Heat shrinkable straight through joint kit for 3 x 300sq.mm 33Kv (E) XLPE HT cable.	6	No
39	Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x300 sq. mm.	6	Nos
40	Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm.	2	Nos
41	Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x up to 95 sq. mm.	2	Nos
42	Heat shrinkable outdoor termination kit for 33kV (E) XLPE HT cable 3x300 sq. mm. to 400 sq. mm.	12	Nos
43	Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x300 sq. mm.	18	Nos
44	Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm.	2	Nos
45	Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x 95 sq. mm.	2	Nos
46	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor.	100	Mtr
47	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor.	100	Mtr
48	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 35 sq. mm. aluminium conductor .	100	Mtr
49	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 50 sq. mm. aluminium conductor.	100	Mtr
50	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 70 sq. mm. aluminium conductor.	100	Mtr
51	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 95 sq. mm. aluminium conductor.	100	Mtr
52	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 120 sq. mm. aluminium conductor	100	Mtr
53	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 150 sq. mm. aluminium conductor.	50	Mtr

S. N	Item	Qty	Per
54	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 185 sq. mm. aluminium conductor.	100	Mtr
55	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 240 sq. mm. aluminium conductor.	50	Mtr
56	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm.	10	Nos
57	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 25 to 50 sq mm.	5	Nos
58	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 70 to 95 sq mm.,	5	Nos
59	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 185 sq mm.	5	Nos
60	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 240 sq mm.	5	Nos
61	G.I. pipe 'A' class 75 mm dia. for enclosing XLPE armoured cable.	100	Mtr
62	Half round reinforced cement concrete pipe of NP-2 class of 150mm diameter.	3800	Mtr
63	Making trench in Hard murum/Tar road.	100	Mtr
64	50 mm outside dia. double wall corrugated pipes (DWC).	100	Mtr
65	90 mm outside dia. double wall corrugated pipes (DWC).	250	Mtr
66	120 mm outside dia. double wall corrugated pipes (DWC).	250	Mtr
67	Mains with WP 3 x 6 sq. mm. 1.1kV. grade aluminium PVC insulated and PVC sheathed wires	100	Mtr
68	Pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod.	40	Nos
69	GI earth wire of high purity.	250	Kg
70	Licencing work for line shifting Co-ordination with MSEDCL.	7	Job.
71	Providing and fixing mini feeder pillar with 415V, 315-320A FPMCCB as incomer and 3 outgoing circuits with HRC fuse base and cartridge of 100A, aluminium bus bar erected in 14 SWG CRCA sheet box.	4	Nos

Deputy Engineer
Electrical Department

महाराष्ट्र शासन
नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण
मध्यवर्ती प्रशासकिय इमारत, नाशिक रोड, नाशिक - 422101
दुरध्वनी क्र. 0253-2461909 **Email- kumbhmela.2027@mah.gov.in**

दिनांक: स्वाक्षरीखाली नमूद आहे.

प्रशासकीय मान्यता आदेश:-

विषय:- नाशिक त्र्यंबकेश्वर सिंहस्थ कुंभमेळ्यासाठी रस्त्यांच्या कामांना प्रशासकीय मान्यता देणे बाबत.
संदर्भ:- 1. नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची बैठक दिनांक 28/07/2025 ठराव क्रमांक 04.
2. या कार्यालयाचे पत्र दिनांक 29/07/2025.
3. शासनाचे पत्र क्रमांक कुंभमे-2025/प्र.क्र.235/ नवि-25 दिनांक 29/08/2025.
4. आयुक्त, नाशिक महानगरपालिका, नाशिक यांचे पत्र क्रमांक जा.क.सावबंवि/डेस्क-8/994/2025 दिनांक 10/07/2025.
5.आयुक्त, नाशिक महानगरपालिका, नाशिक यांचे पत्र क्रमांक जा.क.सावबंवि/डेस्क-8/994/2025 दिनांक 09/09/2025.
वाचा - नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण अधिनियम, 2025 चे कलम 7 (1) (ग).

कार्यान्वयीन यंत्रणा नाशिक महानगरपालिका यांनी विनंती केल्यानुसार नाशिक त्र्यंबकेश्वर सिंहस्थ कुंभमेळा 2027-28 च्या आयोजनासाठीच्या दृष्टीने आवश्यक असणाऱ्या खालील कामांना नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण अधिनियम 2025 चे कलम 7 (1) (ग) नुसार नमूद केलेल्या अटी शर्तीच्या अधीन राहून खालील प्रमाणे प्रशासकीय मान्यता देण्यात येत आहे.

अ. क्र.	कामांचे नाव	प्रशासकीय मान्यता रक्कम (रुपये कोटी)	काम पूर्ण करण्याची मुदत	कार्यान्वयीन यंत्रणा
1	गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/ त्र्यंबकरोड जोडरस्ता)	56.86	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
2	त्र्यंबक रोड पपया नर्सरी सिग्नल ते एक्स.लो. जंक्शन (बाह्य वाहनतळ/ रेल्वे स्थानक- त्र्यंबकरोड- मुंबई महामार्ग जोडरस्ता/ वाहतूक नियोजन)	77.33	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
3	एक्सलो चौक ते गरवारे चौकपावेतो (बाह्य वाहनतळ / रेल्वे स्थानक- त्र्यंबकरोड- मुंबई महामार्ग जोडरस्ता / वाहतूक नियोजन)	71.99	मार्च 2027 पर्यंत	नाशिक महानगरपालिका

अ. क्र.	कामांचे नाव	प्रशासकीय मान्यता रक्कम (रुपये कोटी)	काम पूर्ण करण्याची मुदत	कार्यान्वयीन यंत्रणा
4	वडनेर गेट ते विहितगाव (लॅम रोड) (रेल्वे स्थानक- त्र्यंबकरोड जोडरस्ता/ वाहतूक नियोजन)	32.00	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
5	विहितगाव (लॅम रोड) ते बिटको चौक ते जेलरोड-गोदावरी नदी पर्यंत (घाटाकडे जाणारा रस्ता)	65.50	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
7	नांदूर पूल ते जत्रा हॉटेल (घाटाकडे जाणारा रस्ता)	71.20	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
8	लेखा नगर NH3 -कलानगर चौक -वडाळागाव रविशंकर मार्ग- विजय ममता चौक (घाटाकडे जाणारा रस्ता/ वाहतुक नियोजन)	38.50	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
9	संगम पूल ते मिर्ची हॉटेल चौकते अमृतधाम चौक ते गुंजाळ बाबा चौक तारवाला चौक ते मार्केट सिग्नल ते मखमलाबाद रोड (घाटाकडे जाणारा रस्ता/ साधुग्राम पोहोच रस्ता)	83.26	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
10	के.टी.एच.एम. पूल ते जुना गंगापूर नाका ते शरणपूर पोलीस चौकी, बॉश (मायको) सर्कल ते चांडक सर्कल ते महामार्ग बस स्टॅन्ड (घाटाकडे जाणारा रस्ता / वाहनतळ जोडणारा)	48.08	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
11	विजय ममता चौक-टाकळी गाव -संगम पूल (घाटाकडे जाणारा रस्ता/ साधुग्राम पोहोच रस्ता)	22.20	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
12	अशोक स्तंभ ते जेहान सर्कल (गंगापूर रोड) रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता/ वाहनतळ जोडणारा)	37.81	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
13	गंगापूर रोड - जेहान सर्कल ते गंगापूर गाव मनपा हद्द पावेतो रस्ता विकसित करणे. (वाहनतळ जोडणारा रस्ता)	49.35	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
14	खडकाळी सिग्नल ते त्र्यंबक नाका ते आयटीआय सिग्नल (त्रंबक रोड) पर्यंतचा रस्ता विकसित करणे. (नाशिक त्रंबक कुंभमेळा दोन्ही ठिकाणी जोडणारा रस्ता / वाहनतळ जोडणारा रस्ता)	51.05	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
15	त्र्यंबक रोड आय.टी.आय. सिग्नल ते पिंपळगाव बहुला मनपा हद्द रस्ता विकसित करणे. (नाशिक त्रंबक कुंभमेळा दोन्ही ठिकाणी जोडणारा रस्ता / वाहनतळ जोडणारा रस्ता)	49.29	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
16	निमाणी चौक ते मनपा हद्द पावेतोचा दिंडोरी रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता/ वाहनतळ जोडणारा)	59.57	मार्च 2027 पर्यंत	नाशिक महानगरपालिका

अ. क्र.	कामांचे नाव	प्रशासकीय मान्यता रक्कम (रुपये कोटी)	काम पूर्ण करण्याची मुदत	कार्यान्वयीन यंत्रणा
17	पेठ रोड कालवा ते मेहेरधाम पेठ रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता/ वाहनतळ जोडणारा)	76.49	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
18	पुणे रोड- दत्त मंदिर चौक ते सिन्नर फाटा (रेल्वे स्थानक जोड रस्ता)	17.75	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
19	जनार्दन स्वामी मठ (छ.संभाजी नगर रोड) ते लक्ष्मीनारायण मंदिरपूल ते ड्रीम सिटी चौक (घाटाकडे जाणारा रस्ता/ साधुग्राम जोडणारा रस्ता)	15.00	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
20	अमृत मिरवणूक मार्ग (जाणारा व परतीचा) देखभाल दुरुस्ती (अमृत मिरवणूक मार्ग)	5.00	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
21	नवीन प्रस्तावित कपिला संगम घाटाक़डे जाणारे पोहोच रस्ते तयार करणे. लक्ष्मी नारायण घाटाकडे जाणारा महत्वाचा रस्ता	2.00	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
एकूण		930.23		

महाराष्ट्र राज्य पायाभूत सुविधा विकास महामंडळामार्फत नाशिक शहराच्या रिंगरोडचे काम प्रस्तावित आहे. सदरचे काम मंजूर झाल्यास नाशिक मुंबई महामार्ग ते नाशिक पुणे महामार्ग या पट्ट्यातील दोन महामार्गांना जोडणारा, नाशिकच्या विकास आराखड्यात दर्शविलेला रिंगरोड मंजूर होण्याची शक्यता आहे. असा रिंगरोड मंजूर झाल्यास, वर अनुक्रमांक चार वर नमूद वडनेर गेट ते विहितगाव (लॅम रोड) (रेल्वे स्थानक- त्र्यंबकरोड जोडरस्ता/ वाहतूक नियोजन) या रस्त्याची कुंभमेळ्याकरिता आवश्यकता राहणार नाही. यामुळे सदरचे काम सुरू करण्यापूर्वी महाराष्ट्र राज्य पायाभूत विकास महामंडळाकडून त्यांचे रिंगरोडचे काम कुंभमेळ्यापूर्वी पूर्ण होणार नाही, याची खात्री करावी आणि त्यानंतरच कार्यारंभ आदेश द्यावा.

अटी व शर्ती:-

१. संबंधित कार्यान्वयीन यंत्रणेला शासनाच्या, संबंधित विभागांच्या आणि इतर सक्षम प्राधिका-यांच्या (उदा. केंद्रीय सतर्कता आयोग) यांनी वेळोवेळी निर्गमित केलेल्या मार्गदर्शक सूचनांचे पालन करावे लागेल.
२. नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण आणि जिल्हास्तरीय सिंहस्थ कुंभमेळा कार्यकारी समिती, नाशिक यांचे मार्फत वेळोवेळी दिलेल्या निर्देशांचे पालन संबंधित कार्यान्वयीन यंत्रणेला करावं लागेल.
३. नाशिक त्र्यंबकेश्वर कुंभमेळा अधिनियम 2025 मधील सर्व तरतूदी या कामाला लागू राहतील.
४. सदर कामावर नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणामार्फत निर्देशित केल्यानुसार कामाच्या जागेवर माहिती दर्शविणारा फलक लावावा लागेल.
५. सदर काम किंवा त्याचा कोणताही घटक इतर कोणत्याही योजनेत मान्य झाले नाही अथवा करण्यात आले नाही याची खात्री कार्यान्वयीन यंत्रणेने करावी.
६. सदर काम पूर्ण झाल्यावर त्याचा केवळ सार्वजनिक वापर होणार असून कोणत्याही स्वरुपाचा खाजगी वापर होणार नाही याची दक्षता कार्यान्वयीत यंत्रणेने घ्यावी.

महानगरपालिका सचिवालय

नाशिक महानगरपालिका, नाशिक

महानगरपालिका महासभा ठराव

सभा क्र. : ०६

विषय क्र. : ३२७ ठराव क्र. : ३२७ दिनांक : ०४ / ०९ /२०२५

संदर्भ-मा.आयुक्त तथा प्रशासक सो.यांचेकडील जा.क्र/बांधकाम /२१०/२०२५ दि.०४.०९.२०२५ चे पत्र.

महाराष्ट्र महानगरपालिका अधिनियमातील कलम ४५२ (अ) मधील तरतुदीनुसार मा.प्रशासक सो. यांना प्राप्त झालेल्या अधिकारानुसार असा ठराव करण्यात येत आहे की,

नाशिक-त्र्यंबकेश्वर येथे सन २०२७ मध्ये होणारा सिंहस्थ कुंभमेळा यासाठी मा.मुख्यमंत्री, महाराष्ट्र राज्य, मा.प्रधान सचिव, महाराष्ट्र राज्य, जिल्हास्तरीय सिंहस्थ कुंभमेळा समितीच्या वेळोवेळी बैठका होत आहेत. सदर बैठकांमध्ये ज्या कामांचा पुर्णत्वाचा कालावधी दिड-दोन वर्ष आहे, अशा कामांच्या निविदा लवकरात लवकर प्रकाशित करण्याच्या सुचना दिलेल्या आहेत. मा.मुख्यमंत्री महोदय यांनी दि.२६/२/२०२५ रोजीच्या बैठकीत शहरातील आवश्यक रस्त्यांची व पुलांची कामे त्वरीत सुरु करण्याचे निर्देश दिले आहेत व दि.११/२/२०२५ रोजी झालेल्या जिल्हास्तरीय सिंहस्थ कुंभमेळा कार्यकारी समितीच्या बैठकीमध्ये महत्वाच्या असलेल्या पुलांचे बांधकाम लवकरात लवकर सुरु करावे असे निर्देश दिले आहेत. त्यास अनुसरून पुढीलप्रमाणे रस्त्यांची व पुलांच्या कामांची यादी नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाकडे मंजुरीसाठी, निधी उपलब्धतेसाठी व प्रशासकीय मंजुरीसाठी सादर करावयाची आहे.

अ.नं	कामाचे नाव	अंदाजपत्रकीय (रक्कम रु कोटी)
	रस्ते बांधणे	
१)	टाकळी गाव ते नारायण बापू चौक छत्रपती शिवाजी महाराज चौक (जेलरोड)	१७.१४
	टाकळी गाव ते काठे चौक ते एसटीपी रोड (१९० मीटर)	
२)	एसटीपी रोड ते नारायण बापु चौक (८८० मीटर)	२४.२७
	नारायण बापु चौक ते जेलरोड (८०० मीटर)	
	उपनगर नाका ते कॅनल रोड गोसावी मळा, मकरंद कॉलनी - टाकळी STP	
३)	उपनगर नाका ते कॅनल रोड गोसावी मळा, (८५० मीटर)	५२.६४
	गोसावी मळा ते सायखेडा रोड (४५० मीटर)	
	सायखेडा रोड ते मकरंद कॉलनी (१९५ मीटर)	
	मकरंद कॉलनी ते जुना सायखेडा रोड (४३० मीटर)	
	जुना सायखेडा रोड ते गोदावरी नदी (९०० मीटर)	
	पिंपळगाव खांब - वडनेर गाव विहितगाव (लॅम रोड)	
	पिंपळगाव खांब फाटा ते वडनेर गेट	
	वडनेर गेट ते विर सावरकर चौक	
	विर सावरकर चौक बागुल नगर	
	बॉक्स कल्व्हर्ट	
४)	सौभाग्य नगर ते विटको चौक जेलरोड-गोदावरी नदी (संत जनार्दन स्वामी पुल) पर्यंत	७१.७७
	सौभाग्य नगर ते वाल देवी नदी	
	वाल देवी ते गांधीनगर पुतळा	
	गांधीनगर पुतळा ते बिटको पॉईंट	
	बिटको पॉईंट ते जनार्दनस्वाती पुल	
५)	उपनगर नाका जय भवानी रोड रोकडोबावाडी -१२ विहितगाव	२४.७१
	उपनगर नाका ते आर्टीलरी सेंटर रोड	
	आर्टीलरी सेंटर रोड रोकडोबावाडी पुल	
	रोकडोबावाडी पुल ते मथुरा चौक (नवीन रस्ता)	

महानगरपालिका सचिवालय

नाशिक महानगरपालिका,

महानगरपालिका महासभा

सभा क्र. :०६

विषय क्र. : ३२१ ठराव क्र. : ३२१ दिनांक : ०९/

६)	दत्त मंदिर सिग्नल पुणे रोड ते बिटको चौक छत्रपती ६. २३ शिवाजी पुतळा ते डॉ. बाबासाहेब आंबेडकर चर्चाक (सुभाषरोड) ते टाऊन हॉल पॉईंट
	दत्त मंदिर सिग्नल पुणे रोड ते बिटको चौक छत्रपती शिवाजी महाराज
	छत्रपती शिवाजी महाराज चौक ते डॉ बाबासाहेब आंबेडकर चौक
	डॉ बाबासाहेब आंबेडकर चौक ते सत्कार पॉईंट (कॉक्रिट रस्ता)
	उड्डाण पुल वरील डांबरीकरण
	उड्डाण पुल खालील कॉक्रिटीकरण
७)	नाशिक पूर्व विभागातील द्वारका सर्कल- सारडा सर्कल- गडकरी सिग्नल पर्यंत रस्ता विकसित करणे
८)	नाशिक पूर्व विभागातील सारडा सर्कल- गंजमाळ सिग्नल पर्यंत विकसित करणे
९)	नाशिक पूर्व भागातील संगम पूल- टाकळी गाव- विजय ममता चौक- मार्ग- भारत नगर -छान हॉटेल NH३ पर्यंत रस्ता विकत करणे
१०)	नाशिक पूर्व भागातील लक्ष्मीनारायण पूल -जय शंकर चौक- ड्रीम चौक- पर्यंत रस्ता विकसित करणे
११)	नाशिक पूर्व विभागातील टाकळी फाटा- NH३ -टाकळी गाव -गो उपनगर यांनी NH-५० पर्यंत रस्ता विकसित करणे
१२)	नाशिक पूर्वी भागातील वडाळा नाका-NH-३- नासर्डी पूल -वडाळा साईनाथ नगर सिग्नल -जगन्नाथ चौक पर्यंत रस्ता विकसित करणे
१३)	नाशिक पूर्व विभागातील NH३- ट्रॅक्टर हाऊस -कर्मा हाइट्स - (ति रोड) पर्यंत रस्ता विकसित करणे
१४)	नाशिक पूर्व विभागातील लेखा नगर NH३ -कलानगर चौक -वड रविशंकर मार्ग- विजय ममता चौक पर्यंत रस्ता विकसित करणे
१५)	केटीएचएम पूल ते जुना गंगापूर नाका ते शरणपूर पोलीस चौकी सर्कल ते चांडक सर्कल ते महामार्ग बस स्टॅन्ड रस्ता सुधारणे
	जुना गंगापूर नाका ते शरणपूर पोलीस चौकी (१५०.to १५९०)
	मायको सर्कल ते महामार्ग बस स्टॅन्ड (१८१० to ३५००)
	मिलिंद नगर कॅनल रोड ते दक्षिण मुखी हनुमान मंदिर (० to ५५०)
१६)	गोविंद नगर पूल (नंदिनी नदी) ते एबीबी सर्कल जेहान सर्कल ते चांद पर्यंतचा मध्य रिंग रोड सुधारणे
	गोविंद नगर नंदिनी नदी ते संभाजी चौक (० to ५००)
	सीसीएम सर्कल ते एबीबी सर्कल (० to १११०)
	एबीबी सर्कल ते जेहान सर्कल (१११० to ३१५०)
	जेहान सर्कल ते नेरलेकर सर्कल (३१५० to ३४२०)
	नरसिंह नगर ते अयोध्या चौक (३७५० to ३९६०)
	अयोध्या चौक ते चांदशी पूल (३९६० to ४२००)
१७)	अशोक स्तंभ ते जेहान सर्कल (गंगापूर रोड) रस्ता सुधारणे
	अशोक स्तंभ ते गोळे कॉलनी (३० to २१०)
	गोळे कॉलनी ते पोलीस कमिशनर ऑफिस (२१० to ४२०)
	पोलीस कमिशनर ऑफिस ते जुना गंगापूर नाका (४२० to १४४०)
	जुना गंगापूर नाका ते केबीटी सर्कल (१४४० to २२५०)
	के बी टी सर्कल ते जेहान सर्कल (२२५० to ३२२०)

महानगरपालिका सचिवालय

नाशिक महानगरपालिका, नाशिक

महानगरपालिका महासभा ठराव

सभा क्र. : ०६

विषय क्र. : ३२१ ठराव क्र. : ३२१ दिनांक : ०४/ ०९ /२०२५

१८)	खडकाळी सिग्नल ते त्र्यंबक नाका ते आयटीआय सिग्नल (त्रंबक रोड) पर्यंतचा रस्ता सुधारणे	५१.०५
	खडकाळी सिग्नल ते त्र्यंबक नाका (० to ५७० White Topping)	
	त्रंबक नाका ते मायको सर्कल (० to ९००)	
	मायको सर्कल ते पंचवटी इलाईट (९९० to १९२०)	
	पंचवटी लाईट ते एबीबी सर्कल (१९२० to २८८०)	
	एबीबी सर्कल ते आयटीआय सर्कल(२८८० to ३३००)	
१९)	फॉरेस्ट नर्सरी पूल ते के बी टी सर्कल ते पी टी ए कुलकर्णी चौक ते डिटेक्टिव्ह ट्रेनिंग सेंटर कॅनल रोड	२७.७८
	फॉरेस्ट नर्सरी पूल ते दत्त मंदिर (० to ३००)	
	दत्त मंदिर चौक ते स्वर्गीय वसंत पवार चौक (३०० to ५१०)	
	स्वर्गीय वसंत पवार चौक ते वाघ गुरुजी शाळा (५१० to ९२०)	
	वाघ गुरुजी शाळा ते पी टी ए कुलकर्णी चौक (९२० to १८००)	
	पी टी ए कुलकर्णी चौक ते सिद्धार्थनगर (१८०० to २४३०)	
२०)	प्रमोद महाजन गार्डन ते गंगापूर रोड ते होरायझन स्कूल तें दत्त चौक ते निर्मला कॉन्व्हेंट स्कूल चौक ते चैतन्य नगर ते आसाराम बापू आश्रम (गोदावरी नदीच्या सलग्न रस्ता)	३१.७७
	चोपडा लॉन्स ते होरायझन स्कूल (३०० to १४४०)	
	दत्त चौक ते निर्मला कॉन्व्हेंट (० to ३९०)	
	निर्मला कॉन्व्हेंट ते चैतन्य नगर (३९० to ६९०)	
	चैतन्य नगर ते चांदशी पूल (५७० to १०५०)	
	चांदशी पूल ते आसाराम बापू आश्रम (१०५० to १२६०)	
२१)	गडकरी चौक ते चांडक चौक ते आनंद कान्हेरे मैदान रस्ता सुधारणा करणे.	१०.७१
	गडकरी चौक ते चांडक सर्कल (१५०० to ३१६०)	
	चांडक सर्कल ते वीर सावरकर तरण तलाव(० to २६०)	
२२)	मुंबई नाका ते गडकरी सिग्नल ते त्रंबक नाकापर्यंत रस्ता सुधारणा करणे	१४.४३
	मुंबई नाका ते महामार्ग बस स्टॅन्ड (० to २१०)	
	महामार्ग बस स्टॅन्ड ते गडकरी चौक गडकरी चौक (२१० to ७२०)	
	गडकरी चौक ते त्र्यंबक नाका (७२० to ११४०)	
२३)	नाशिक - नविन नाशिक विभागातील बाह्य वळण रास्ता पाथर्डी फाटा तेपाथर्डी - पिंपळगाव खांब शिंवे पावेतो विकसित करणे	१७.४१
२४)	नाशिक - नवीन नाशिक विभागातील त्रिमूर्ती चौक ते आंबडगाव लिंक रास्ता पावेतो विकसित करणे	१५.३२
२५)	आतील वळण रस्ता सिटी सेंटर ते त्रिमूर्ती चौक ते प्रणव स्टॅम्पिंग कंपनी पावेतो कामतवाडा रास्ता विकसित करणे.	१७.४१
२६)	नाशिक - नवीन नाशिक विभागातील स्टेट बँक चौक ते गणेश चौक ते आंबडगाव लिंक रस्ता (सिंहस्थ पार्किंग छ. संभाजी स्टेडियम) रस्ता विकसित करणे	१७.४१
२७)	नाशिक - नवीन नाशिक विभागातील आतील वळण रस्ता सिटी सेंटर मॉल ते इंदिरा नगर अंडर पास रस्ता विकसित करणे.	१३.१०
२८)	नाशिक - नवीन नाशिक विभागातील बाह्य वळण रस्ता पाथर्डी गाव ते जगन्नाथ चौक रस्ता विकसित करणे.	१६.३३

महानगरपालिका सचिवालय

नाशिक महानगरपालिका, नाशिक

महानगरपालिका महासभा ठराव

सभा क्र. : ०६

विषय क्र. : ३२१ ठराव क्र. : ३२१ दिनांक : ०४/ ०९ /२०२५

२९)	नाशिक - नवीन नाशिक विभागातील अंबडगाव रास्ता एक्सलो चौक (टेक्समो फोर्स सोलुशन कंपनी) पासून अंबडगाव ते पाथर्डी फाटा रस्ता विकसित करणे.	१७.४१
	एक्सलो ते अंबडगाव रस्ता	
	एक्सलो चौक (टेक्समो फोर्स सोलुशन कंपनी) ते अंबडगाव ते पाथर्डी फाटा	
३०)	नाशिक - नवीन नाशिक विभागातील बाह्य वळण रास्ता चौक ते एक्सलो चौक पावेतो रस्ता विकसित करणे.	७१.९९
३१)	गंगापूर रोड - जेहान सर्कल ते गंगापूर गाव मनपा हद्द.	४९.३५
	जेहान सर्कल ते एबीएच गृह प्रकल्प (३२१० to ५९१०)	
	एबीएच गृह प्रकल्प ते सोमेश्वर मंदिर टर्न(५९१० to ६७२०)	
	सोमेश्वर मंदिर टर्न ते बरदान फाटा (६७२० to ८१९०)	
३२)	त्रिंबक रोड आयटीआय सिग्नल ते पिंपळगाव बहुला मनपा हद्द	४९.२९
	आयटीआय सिग्नल ते सुला चौक (३३०० to ७०५०)	
	सुला चौक ते पिंपळगाव बहुला मनपा हद्द (७०५० to ८०७०)	
३३)	गंगापूर रोड बारदान फाटा ते सुला चौक	५६.८६
	बरदान फाटा ते बबन लॉन्स (० to १४७०)	
	बबन लॉन्स ते कार्बन नाका (१४७० to २७००)	
	कार्बन नाका ते सुला चौक (२७०० to ५०१०)	
३४)	त्रिंबक रोड पपाया नर्सरी सिग्नल ते XLO जंक्शन. (० to २७९०)	७७.३३
३५)	आसाराम बापू आश्रम ते नवश्या गणपती ते वृंदावन लॉन्स	५१.२५
	बापू आश्रम ब्रिज ते गंगाजल नर्सरी (१२६० to १८३०)	
	गंगाजल नर्सरी ते शिव नगर (१८३० to २३४०)	
	शिव नगर ते बेंडकुळे मळा (२३४० to २७९०)	
	बेंडकुळे मळा ते वृंदावन लॉन्स (२७९० to ३१३५)	
३६)	नाशिक पंचवटी विभागातील कपिला संगम ते लक्ष्मीनारायण मंदिर ते रा.म. क्रमांक ३ ते पंचमुखी हनुमान मंदिर ते काट्यामारुती चौक ते गणेशवाडी देवी मंदिर ते गाडगेमहाराज पूल पावेतोचा रस्ता विकसित करणे	२२.६४
	कपिला संगम ते लक्ष्मीनारायण मंदिर	
	लक्ष्मीनारायण मंदिर ते रा.म. क्रमांक ३	
	रा.म. क्रमांक ३ ते पंचमुखी हनुमान मंदिर	
	पंचमुखी हनुमान मंदिर ते काट्यामारुती चौक	
	गणेशवाडी देवी मंदिर ते गाडगेमहाराज पूल	
	गणेशवाडी देवी मंदिर ते टाळकुटे पूल	
३७)	नाशिक पंचवटी विभागातील रामकुंड ते सार्वजनिक वाचनालय ते पंचवटी कारंजा ते निमाणी चौक ते काट्यामारुती चौक ते रा.म. क्रमांक ३ पावेतोचा रस्ता विकसित करणे	१५.०७
	रामकुंड ते सार्वजनिक वाचनालय	
	सार्वजनिक वाचनालय ते पंचवटी कारंजा	
	निमाणी चौक	
	पुरिया पार्क ते आर पी विद्यालय	
	निमाणी बस स्टॅन्ड	
	निमाणी ते काट्यामारुती चौक ते रा.म. क्रमांक ३	
	काट्यामारुती चौक	

महानगरपालिका सचिवालय

नाशिक महानगरपालिका, नाशिक

महानगरपालिका महासभा ठराव

सभा क्र. : ०६

विषय क्र. : ३२१ ठराव क्र. : ३२१ दिनांक : ०४/०९/२०२५

३८)	नाशिक पंचवटी विभागातील लक्ष्मीनारायण मंदिर ते पंचवटी अमरधाम ते गाडगेमहाराज पूल पावेतोचा रस्ता विकसित करणे	१०.६६
३९)	नाशिक पंचवटी विभागातील कपिला संगम ते जयशंकर फेस्टीवल लॉन्स ते नांदूर-दसक शिव रोड पावेतोचा रस्ता विकसित करणे	११.३६
	नाशिक पंचवटी विभागातील कपिला संगम ते जयशंकर फेस्टीवल लॉन्स	
	जयशंकर फेस्टीवल लॉन्स ते नांदूर-दसक शिव रोड	
४०)	नाशिक पंचवटी विभागातील कर्मा गॅलॅक्सि ते तपोवन एसटीपी ते सर्वे क्रमांक ३५७ ते नांदुरगाव पावेतोचा रस्ता विकसित करणे	२०.२६
	कर्मा गॅलॅक्सि ते तपोवन एसटीपी	
	तपोवन एसटीपी ते सर्वे क्रमांक ३५७	
	सर्वे क्रमांक ३५७ ते नांदुरगाव	
४१)	नाशिक पंचवटी विभागातील तपोवन बस डेपो ते पिंपळेश्वर मारुती मंदिर, चव्हाण मळा पावेतोचा रस्ता विकसित करणे	८.०९
४२)	नाशिक पंचवटी विभागातील आठवण मंगल कार्यालय ते चव्हाण मळा, स्वामी नारायण शाळा रा.म. क्रमांक ३ पावेतोचा रस्ता विकसित करणे	४.५१
४३)	नाशिक पंचवटी विभागातील काट्यामारुती चौक ते हत्ती पूल ते काळाराम मंदिर पावेतोचा रस्ता विकसित करणे	३.५०
४४)	नाशिक पंचवटी विभागातील जनार्दन स्वामी मठ ते लक्ष्मीनारायण पूल पावेतोचा रस्ता विकसित करणे	११.६०
४५)	नाशिक पंचवटी विभागातील शिंदे मळा ते मार्केट सिग्नल ते गुंजाळ बाबा चौक तारवाला चौक ते अमृतधाम चौक ते मिर्ची हॉटेल चौक ते संगम पूल पावेतोचा रस्ता विकसित करणे	८३.२६
	शिंदे मळा ते मार्केट सिग्नल ते तारवाला चौक ते गुंजाळ बाबा चौक	
	गुंजाळ बाबा चौक ते अमृतधाम चौक	
	अमृतधाम चौक ते मिर्ची हॉटेल चौक	
	मिर्ची हॉटेल चौक ते संगम पूल	
४६)	नाशिक पंचवटी विभागातील घाडगे मळा ते मखमलाबाद रोड ते आरटीओ कार्यालय, पेठ रोड ते राजस्वीट चौक, दिंडोरी रोड ते रासबिहारी शाळा रा.म. क्रमांक ३ ते निलगिरीबाग चौक ते टाकळी एसटीपी पूल पावेतोचा रस्ता विकसित करणे	११३.८२
	घाडगे मळा ते मखमलाबाद रोड ते आरटीओ कार्यालय, पेठ रोड	
	आरटीओ कार्यालय, पेठ रोड ते राजस्वीट चौक दिंडोरी रोड	
	राजस्वीट चौक, दिंडोरी रोड ते रास बिहारी शाळा रा.म. क्रमांक ३	
	रासबिहारी शाळा रा.म. क्रमांक ३ ते निलगिरीबाग चौक	
	निलगिरीबाग चौक ते टाकळी एसटीपी पूल	
४७)	नाशिक पंचवटी विभागातील चांदशी पूल ते गांधारवाडी ते डावा कॅनॉल लगत ते मखमलाबाद रोड ते शिंदे नगर पावेतोचा रस्ता विकसित करणे	६४.२३
	चांदशी पूल ते गांधारवाडी ते डावा कॅनॉल लगत	
	कॅनॉल लगत ते मखमलाबाद रोड ते शिंदे नगर	
४८)	नाशिक पंचवटी विभागातील निमाणी चौक ते मनपा हद्द, दिंडोरी रोड पावेतोचा दिंडोरी रस्ता विकसित करणे	५९.५७
	निमाणी चौक ते म्हसरूळ गाव	
	म्हसरूळ गाव ते आळंदी कालवा	
	आळंदी कालवा ते मनपा हद्द	

महानगरपालिका सचिवालय

नाशिक महानगरपालिका, नाशिक

महानगरपालिका महासभा ठराव

सभा क्र. : ०६

विषय क्र. : ३२१ ठराव क्र. : ३२१ दिनांक : ०४/०९/२०२५

४९)	नाशिक पंचवटी विभागातील पेठ रोड कालवा ते तवली फाटा ते आळंदी कालवा पावेतोचा पेठ रस्ता विकसित करणे	७६.४९
	पेठ रोड कालवा ते मेहेरधाम	
	मेहेरधाम ते राऊ चौक ते मेघराज बेकरी	
	मेघराज बेकरी ते आळंदी कालवा	
५०)	नाशिक पंचवटी विभागातील नांदूर पूल ते नांदूर नाका ते जत्रा हॉटेल ते म्हसरूळ आडगाव लिंक रोड पावेतोचा रस्ता विकसित करणे	९३.६१
	नांदूर पूल ते नांदूर नाका	
	नांदूर नाका ते जत्रा हॉटेल	
	जत्रा हॉटेल ते म्हसरूळ आडगाव लिंक रोड	
५१)	नाशिक पंचवटी विभागातील आडगाव राष्ट्रीय महामार्ग ३ ते म्हसरुळगाव पावेतोचा रस्ता विकसित करणे	४०.०६
५२)	नाशिक पंचवटी विभागातील शासकीय रोपवाटिका पूल ते मखमलाबाद गाव (उत्तम बादशाहा मार्ग) पावेतोचा रस्ता विकसित करणे	२८.९५
५३)	नाशिक पंचवटी विभागातील मिनाताई ठाकरे क्रीडासंकुल ते कमल नगर चौक ते भोरे नाट्यगृह पावेतोंचा रस्ता अस्तरीकरण करणे	७.३७
	मिनाताई ठाकरे क्रीडासंकुल ते कमल नगर चौक	
	कमल नगर चौक ते भोरे नाट्यगृह	
५४	नाशिक पंचवटी विभागातील आडगाव नाका, बाप्पा सीताराम मार्ग ते हिरावाडी पावेतोचा रस्ता विकसित करणे	१०.२१
५५)	नाशिक पंचवटी विभागातील चोपडा लॉन्स पूल ते ड्रीम कॅसल सिग्नल ते मखमलाबाद गाव पावेतोचा रस्ता विकसित करणे	६३.७०
	चोपडा लॉन्स पूल ते ड्रीम कॅसल सिग्नल	
	ड्रीम कॅसल सिग्नल ते डावा तट कालवा	
	डावा तट कालवा ते मखमलाबाद गाव	
५६)	नाशिक पंचवटी विभागातील म्हसरूळगाव ते गनपा हद्द, वरवंडी रस्ता (विमानतळाकडे जाणारा रस्ता) विकसित करणे	८.६९
५७)	नाशिक पंचवटी विभागातील तपोवन एसटीपी ते संगम पूल ते टाकळी एसटीपी पुल ते नांदूर दसक घाट पावेतोचा नदी लगतचा रस्ता विकसित करणे.	६४.५१
५८)	नाशिक पंचवटी विभागातील पार्कसाईड ते जत्रा रोड रस्ता विकसित करणे.	१८.८४
५९)	नाशिक पंचवटी विभागातील आनंदवली पूल ते आसारामबापू पुलापर्यंत गोदावरी नदीकाठी डाव्या बाजूच्या रस्त्याला गॅबियन भिंत बांधून रस्ता विकसित करणे	३९.६४

	पुलांची कामे	
१)	मिलिंद नगर येथील वाहतुक कोंडी सोडविणे कामी नंदिनी नदीवर २४ मीटर डी. पी.रस्त्यावर पुल बांधणे.	१९.२३
२)	लक्ष्मीनारायण मंदिरालगत समांतर पुल बांधणे.	२०.९६
३)	रामवाडी ते घारपुरे घाट पर्यंत वाहतुक कोंडी सोडविणे कामी गोदावरी नदीवर पुल बांधणे.	२४.९१
४)	संत गाडगेमहाराज पुलाचे रुंदीकरण, मजबुतीकरण व सौदर्यीकरण करणे.	११.३५

महानगरपालिका सचिवालय

नाशिक महानगरपालिका, नाशिक

महानगरपालिका महासभा ठराव

सभा क्र. : ०६

विषय क्र. : ३२१ ठराव क्र. : ३२१ दिनांक : ०४/०९/२०२५

५)	संत गाडगेमहाराज पुलाचे लगत डाऊन रॅम्पचे बांधकाम करणे.	५.८५
६)	गणेशवाडी भाजी बाजार जवळील वाघाडी नदी लगत संरक्षक भिंत (Curtain wall) बांधणे	७.१९
७)	वडनेर दुमाला येथे वालदेवी नदीवर अस्तित्वातील पुला लगत नव्याने पुल बांधणे.	१६.८२
	एकूण	१०६.३१

सबब, वर नमुद सर्व कामे नाशिक शहरातील कुंभमेळा नियोजनाच्या दृष्टीने आवश्यक असून सदर कामांना मंजुरी मिळणे, निधी मिळणे व प्रशासकीय मान्यता मिळणेसाठी पाठविण्यास, त्याचप्रमाणे यापैकी नाशिक- त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाकडून ज्या कामांना ज्यावेळी मंजुरी मिळेल त्यांची निविदा प्रक्रिया राबविणेस व शिल्लक कामांसाठी पाठपुरावा करणेच्या धोरणात्मक निर्णयास प्रशासकीय मंजुरी देणेत येत आहे.

(मदन हरिश्चंद्र)
प्र.नगरसचिव
नाशिक महानगरपालिका,नाशिक

(मनिषा खत्री)
प्रशासक
नाशिक महानगरपालिका,नाशिक

T-03 - 01

56, 85, 78, 496.78

GST - 8, 56, 62, 623.90

RCM - 62,41, 608.24

Am - 7.70. 798.58

47. 59, 03. 466.09

18.090% ITC

38, 98, 12, 529.00

GST - 7, 01, 66, 255. 22

RCM - 62, 41. 608. 24

Am 7, 70, 798. 55

46, 69, 91 191.01

B S Chopra
Maharashtra Nashik

Balance Sheet
1-Apr-2016 to 31-Mar-2017

Liabilities	as at 31-Mar-2017		Assets	as at 31-Mar-2017	
Capital Account		**4,90,66,415.69**	**Fixed Assets**		**2,15,00,681.85**
Donation	(-)73,700.00		Block 10%	2,08,762.76	
Agricultural Land MSEB Poll Shifting	(-)1,50,000.00		Block 15%	98,22,971.29	
Agriculture Exp	(-)55,750.00		Block 30%	14,86,799.74	
Assesment Tax AY 2013-14	(-)5,58,710.00		Block 60%	99,82,148.06	
Bharat Chopra Capital A/C	3,16,68,142.48				
Credit Card	(-)7,99,866.93		**Investments**		**4,31,77,836.56**
Dividend	20,857.90		Bank FDR	7,88,366.00	
Drawing	(-)9,85,962.21		Investment in Firm	1,22,52,570.98	
Ghar Pati	(-)59,696.00		Security Deposit / EMD	1,61,55,588.37	
HDFC Life Insurance	(-)1,00,000.00		Shares/Mutual Fund	28,67,562.52	
HDFC Std Life Insurance	(-)42,375.00		ACC Interest on Axis Bank FDR	4,61,516.00	
Interest on Axis Bank FDR	1,03,393.00		Diamond	81,000.00	
Interest on Home Loan	(-)4,06,356.00		Gold	66,68,344.60	
Interest on NSC Maturity	1,50,250.00		HSL (Shares A/C 271699)	5,77,288.09	
Interest on SB	1,65,301.54		Mulegaon Farm House	33,25,600.00	
LIC	(-)3,09,896.00				
LIC Maturity	2,01,600.00		**Current Assets**		**7,72,17,121.13**
Life Insurance Maturity	19,48,799.00		Closing Stock	1,66,34,209.00	
Locker Rent	(-)9,732.50		Deposits (Asset)	1,15,120.00	
LPG Subsidy	382.55		Loans & Advances (Asset)	2,14,47,325.13	
Mediclaim	(-)11,429.00		Sundry Debtors	1,85,88,395.00	
Profit / Loss on Shares	1,80,28,479.85		Cash-in-hand	36,02,896.31	
Profit on LTCG	4,23,275.01		Bank Accounts	1,32,15,391.13	
School Fees	(-)11,550.00		Accounts More Than 6 Months	52,912.14	
Tution Fee	(-)14,300.00		Loans Given	3,23,421.00	
Water Pipeline (Agri Exp) Gut No 475 Anjneri	(-)54,742.00		Adv Agrist Land Anjneri Gut No 470 Abhay Tated	1,00,000.00	
			Advance for Land @ Anjneri Gut No 476	26,45,000.00	
Loans (Liability)		**5,91,15,286.96**	Geojit Shares FY 16-17	(-)10,44,505.58	
Bank OD A/c	2,06,59,344.83		SD Widening & Asphalting Inner Ring Mari	10,505.00	
Secured Loans	2,22,64,324.60		Silver	65,337.00	
Unsecured Loans	1,61,91,617.53		TDS 94C	9,82,975.00	
			TDS on Fixed Deposit	10,340.00	
Current Liabilities		**3,37,13,936.89**	VAT Receivable	4,67,800.00	
Provisions	17,15,636.00				
Sundry Creditors	3,19,98,300.89		**Profit & Loss A/c**		
			Opening Balance		
			Current Period	17,44,826.89	
			Less: Transferred	(-)17,44,826.89	
Total		**14,18,95,639.54**	**Total**		**14,18,95,639.54**

As Per Report of Even Date
For Govilkar & Associates
Chartered Accountants
FRN 119099W

(H. M. Govilkar)
Partner
M.No.041693

GOVILKAR AND ASSOCIATES
5/6, Patel Pride, Pani Lane No.2, College Road, Nashik-3. Reg No. 119099W
CHARTERED ACCOUNTANTS

CERTIFIED TRUE COPY
For Govilkar & Associates
Chartered Accountants
FRN 119099W

(S.P.Tikekar)
Partner
M.No.110180

GOVILKAR AND ASSOCIATES
5/6, Patel Pride, Pani Lane No.2, College Road, Nashik-3. Reg No. 119099W
CHARTERED ACCOUNTANTS

नाशिक महानगरपालिका
Nashik Municipal Corporation
Rajeev Gandhi Bhavan, Sharanpur Road (Post Box No.१२), Nashik – ४२२ ००२
Visit us at : www.nmc.gov.in e-mail : ce-pwd@nmc.gov.in

जा.क्र.साबांवि/डेस्क-२/239 / २०२५
दिनांक- 13 / ११ / २०२५

प्रति,
मे.बी.डी.सोरटीया ॲन्ड कंपनी.,
निविदाधारक, बडोदा

विषय :- गंगापुर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळांना जोडणार / त्र्यंबकरोड जोडरस्ता) पर्यत रस्ता विकसित करणे.

संदर्भ :- ई-निविदा सु.क्र.०३/०१ (सन २०२५-२६)

महोदय,

नाशिक येथे सन २०२७ साली होणारा सिंहस्थ कुंभमेळा अनुषंगाने करावयाच्या वरील विषयांकीत कामासाठी प्राप्त निविदांमध्ये तुम्ही सादर केलेली निविदा सर्वात न्युनतम दराची म्हणजेच **प्राकलन दरापेक्षा १८.०९० %** इतक्या **कमी** दराची निविदा दाखल केली आहे. तुम्ही दाखल केलेल्या निविदेच्या दराबाबत चर्चा करावयाची असुन पुढील निर्णय घ्यावयाचा आहे. त्यामुळे इकडील कार्यालयात याबाबत चर्चेसाठी **गुरुवार, दिनांक १३/११/२०२५ रोजी दुपारी ४.०० वा** आपण अथवा आपला प्रतिनिधी पत्रासह शहर अभियंता व कार्यकारी अभियंता यांचे दालनात उपस्थित रहावे. त्याच बरोबर सादर केलेल्या दराबाबत योग्य ते **दरपृथ:करण** लेखी स्वरुपात सादर करावे.

Received.
13/11/25

कार्यकारी अभियंता (बांधकाम)
नाशिक महानगरपालिका, नाशिक

नाशिक महानगरपालिका
Nashik Municipal Corporation
Rajeev Gandhi Bhavan, Sharanpur Road (Post Box No.१२), Nashik – ४२२ ००२
Visit us at : www.nmc.gov.in e-mail :nmc@gov.in

जा.क्र.साबांवि/डेस्क-२/ २३२/२०२५
दिनांक- १३/११/२०२५

प्रति,
मे.बी.डी.सोरटीया ॲन्ड कंपनी.,
निविदाधारक, बडोदा

विषय :- गंगापुर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळांना जोडणार / त्र्यंबकरोड जोडरस्ता) पर्यत रस्ता विकसित करणे.

संदर्भ :- १) ई-निविदा सु.क्र.०३/०१ सन २०२५-२६
२) आपणास दिलेले पत्र जा.क्र.सांबावि/डेस्क-२/२३१/२०२५ दि.१३/११/२०२५
३) मक्तेदार यांनी दि.१४/११/२०२५ रोजी दिलेले पत्र.

महोदय,

नाशिक येथे सन २०२७ साली होणारा सिंहस्थ कुंभमेळा अनुषंगाने करावयाच्या वरील विषयांकीत कामासाठी प्राप्त निविदांमध्ये तुम्ही सादर केलेली निविदा सर्वात न्युनतम दराची म्हणजेच **प्राकलन दरापेक्षा १८.०९० %** इतक्या **कमी** दराची निविदा दाखल केली आहे. सदर निविदा दरा बाबत झालेल्या चर्चेनुसार आपण संदर्भ क्र.०३ नुसार विषयांकीत काम निविदा दरापेक्षा **१८.०९० % कमी** दरानेच मंजुर करण्याची विनंती केली आहे. यास्तव निविदा अटी व शर्ती क्र.२.२ नुसार **मा.आयुक्त नाशिक महानगरपालिका, नाशिक या नावे** अतिरिक्त सुरक्षा अनामत रक्कमे पोटी **र.रु.६,९२,५३,०००** /- इतक्या रक्कमेची **राष्ट्रीय कृत बँकेचा एफ.डी.आर/ बँक गॅरंटी**, अथवा रोख स्वरुपात मनपा खजिन्यात भरणा करुन त्याची पावती ८ दिवसांचे आत इकडील कार्यालयात सादर करावी. विहीत मुदतीत अतिरीक्त सुरक्षा अनामत रक्कमेची पुर्तता न केल्यास निविदा अटी व शर्ती क्र.२.२ (२) नुसार पुढील कार्यवाही करणेत येईल याची कृपया नोंद घ्यावी.

Received.
13/11/25.

कार्यकारी अभियंता (बांधकाम)
नाशिक महानगरपालिका, नाशिक

बैंक ऑफ़ बड़ौदा
Bank of Baroda
India's International Bank

जमा पुष्टि सूचना / Deposit Confirmation Advice

Commissioner Nashik Municipal Corporation Nashik.

B D SORATHIA AND CO A/c of B.D. Sorathia & Co.

17 BH COMPALEX 2ND FLOOR
NEAR UTKARSH PETROL PUMP VADODARA
390018
INDIA
Vadodara.

सावधि खाता क्र./ FD A/c No	01940300135855
सावधि सूचना क्र./ FD Advice No	FDR1707252222
कस्टमर आईडी क्र./ Customer ID No	DLZ071096
व्यवहार खाता / Linked Operative a/c	01940400001551
शाखा का नाम/Branch Name	MAJALPUR BARODA

योजना / Scheme	FIXED DEPOSIT - RIRD(RES)
नामांकन / Nomination	N
नामिती पंजीकरण क्रमांक / Nominee Registration No.	
पैन नंबर / PAN No.	AACFB0543P
परिचालन पद्धति / Mode of Operation	AUTHORISED SIGNATORY
लियन चिह्नित / Lien Marked	N

संयुक्त धारक / Joint Holder (s)	B D SORATHIA
अभिभावक का नाम (यदि खाताधारक अवयस्क है) / Guardian Name (If a/c holder is minor)	

जमा राशि / Deposit Amount	जारी करने की तिथि / Date of Issue	ब्याजदर / Rate of Interest	जमा की अवधि / Tenure of Deposit	परिपक्वता तिथि / Maturity Date	परिपक्वता मूल्य / Maturity Value*
69300000	08-12-2025	6.50	24 Months 0 Days	08-12-2026	78309000

*परिपक्वता मूल्य टीडीएस के अधीन (वर्तमान आयकर नियमों के अनुसार)/ Maturity Value is subject to TDS (as per current Income Tax rules)

नियम व शर्तें/Terms & Conditions:

1. ब्याज दर प्रतिशत में वार्षिक है.
2. स्वत: नवीकरण क्लॉज़.

i. यदि अन्यथा अनुदेश न दिये हों तो 1 वर्ष व इससे अधिक अवधि के लिए की गई जमाराशि का नवीकरण देय तारीख पर प्रचलित ब्याज दरों के अनुरूप 1 वर्ष के लिए किया जाएगा.

ii. कोई निर्देश न दिए जाने पर 1 वर्ष से कम अवधि के लिए की गई जमाराशि का नवीकरण देय तारीख पर प्रचलित ब्याज दरों के अनुरूप इतनी ही अवधि के लिए किया जाएगा.

3. फॉर्म 15 जी और 15एच सिर्फ निवासी खातों के लिए है.
4. निवासी व्यक्तियों द्वारा प्रत्येक वित्तीय वर्ष में इसकी निर्धारित सीमा पूरा होने से पूर्व एक नया 15 जी/ 15 एच/ 15 एए (यदि लागू हो) प्रस्तुत किया जाए, अन्यथा स्रोत पर कर कटौती की जाएगी.
5. फॉर्म एच केवल वरिष्ठ नागरिकों (60 वर्ष से अधिक उम्र) से ही स्वीकार किया जाएगा.
6. परिपक्वता आहरण क्लॉज़ :

i. रू. 1 करोड़ से कम की जमाराशियों को समयपूर्व बंद करने पर 1% दंड का प्रावधान है अर्थात ऐसी जमाराशि के जारी होने की तिथि पर लागू कार्ड दर से 1% कम ब्याज का भुगतान किया जाएगा.

ii. रू.1 करोड़ और इससे अधिक की जमाराशियों को समयपूर्व बंद करने पर 1.5% दंड का प्रावधान है अर्थात ऐसी जमाराशि पर बैंक में रखी जाने वाली अवधि के लिए लागू कार्ड दर से 1.5% कम ब्याज का भुगतान किया जाएगा, रू. 1 करोड़ और इससे अधिक की जमा राशि के समय पूर्व आहरण के लिए जमा राशि के आहरण से कम से कम 31 दिन पहले बैंक को सूचना दी जानी चाहिए.

7. गैर प्रतिदेय जमा के अंतर्गत – परिपक्वता पूर्व आहरण की अनुमति नहीं है.

1. Rate of Interest is in percentage per annum.
2. Automatic Renewal Clause :

i) For Deposits issued for a period of 1 year and above, Deposits will be renewed for 1 year at the prevailing rate of interest on the due date if not instructed otherwise.

ii) For Deposits issued for a period of less than 1 year, Deposits will be renewed for the same period at the prevailing rate of interest on the due date if not instructed otherwise.

3. Form 15G and 15H is applicable to Resident accounts only.
4. A fresh 15G/ 15H/ 15AA (if applicable) has to be submitted by Resident individuals for each Financial Year, prior to crossing the threshold limit, failing which TDS will be deducted.
5. Form 15H can be accepted only from senior citizens (age of 60 years or more).
6. Premature Withdrawal Clause

i). Premature withdrawal of deposit less than Rs. 1 crore will attract 1% penalty i.e. 1% less than card rate as on the date of deposit for the period for which deposit has remained with Bank.

ii) Premature withdrawal of deposit for Rs. 1 crore and above will attract 1.5% penalty i.e. 1.5% less than card rate as on the date of deposit, for the period for which deposit has remained with Bank. For premature withdrawal of deposit Rs. 1 crore and above, a withdrawal notice of minimum 31 days prior to withdrawal of deposit is to be given to Bank.

7. In case of 'NON-CALLABLE DEPOSIT' – Premature withdrawal not allowed

Please note, this is a system generated advice and does not require any signature





11/2/11

B. D. SORATHIA & Co.

GOVERNMENT APPROVED CONTRACTOR

17, B. H. COMPLEX, 1st FLOOR, NEAR UTKARSH PETROL PUMP, KARELIBAUG, BARODA - 18.

Mob. : 99250 22070 Email : mbsorathia77@gmail.com

Ref.: - NMC/TN03-01/Dec-25/001 **Date:** - 23/12/2025

To,
The Executive Engineer,
Nashik Municipal Corporation,
Nashik.

Name of Work: - Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

References: -

1. E-Tender Cell TN-03/01 for 2025/26
2. Departmental Letter No. NMC/DESK-2/ 232 /2025 Dt.

Respected Sir,

With the reference to above Subject and Ref. No. 2, I hereby submitting the Additional Security Deposite (FDR No. FDR1707252222 Dt. 08/12/2025) amounting Rs. 6,93,00,000/- (Rupees Six Crore Ninety-Three Lakh only)

Requesting you to issue me the Work Order at the Earliest!

Thanking You,

Yours Faithfully,

For B. D. SORATHIA & Co.

नाशिक महानगरपालिका, नाशिक

NMC/PWD/OWL/२०२५/
जा.क्र.मनपा/बांध/न.स./२५९ /२०२५
दि. १२/१२/२०२५

प्रति,
मा. नगरसचिव,
नाशिक महानगरपालिका,
यांचेकडेस --

विषय : गंगापुर रोड बारदान फाटा ते सुला चौक (बाहय वाहनतळ तेअंतर्गत वाहतळाला जोडणारा/त्रंबकरोड जोडरस्ता) विकसित करणे.

संदर्भ : १) मा.महासभा ठराव क्रमांक.३२१ दिनांक. ०४ /०९ /२०२५
२) ई- निविदा सु.क्र.०३/०१ (सन २०२५-२६)
३) नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचाकडील प्रशासकीय मान्यता आदेश दि.१४/०९/२०२५.

नाशिक-त्र्यंबकेश्वर येथे सन-२०२७ होणारा सिंहस्थ कुंभमेळा पुर्व तयारी दृष्टीकोनातुन वाहतुक व्यवस्था सुधारणे आदी दृष्टीकोनातुन रस्त्याचा कामाची यादी तयार करुन त्यानुसार निधी मागणीसाठी प्रस्ताव सादर करण्यास मा.महासभा ठराव क्र.३२१ दि.०४/०९/२०२५ अन्वये मान्यता प्राप्त झाली आहे. त्यापुर्वी नाशिक महानगरपालिके मार्फत दि.०२/०७/२०२४ अन्वये र.रु.१५१७२.४२ कोटी रक्कमेचा आराखडा मंजुरीसाठी पाठविण्यात आला होता. त्याचप्रमाणे दि.०४/०६/२०२५, दि.१७/०७/२०२५, दि.१०/०७/२०२५, दि.०९/०९/२०२५, दि.०३/१०/२०२५, दि.२४/१०/२०२५ अन्वये वारंवार निधी मंजुरीसाठी पाठपुरावा करण्यात आला. त्याचप्रमाणे पोलिस विभागाने त्याचाकडील दि.२८/०७/२०२५ व दि.०९/०९/२०२५ चा पत्रान्वये प्रधान्यक्रम कळविला आहे. त्यास अनुसरुन नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणा मार्फत दि.१४/०९/२०२५ व दि.२२/०९/२०२५ अन्वये प्रशासकीय मान्यता प्राप्त झालेली आहे.

त्यानुसार संपुर्ण निविदा प्रक्रीया राबविण्यासाठी नाशिक महानगरपालिकेमध्ये स्वतंत्र मध्यवर्ती निविदा कक्षाची स्थापना करण्यात आली आहे, त्यामुळे मध्यवर्ती निविदा कक्षाकडुन सदर कामाची ई-निविदा प्रक्रिया राबविण्यात आली असून त्याचा तपशिल खालील प्रमाणे आहे.

१) विभागाचे नांव : सार्वजनिक बांधकाम विभाग

२) प्राकलन मंजुर रक्कम : **एकुण.र.रु ५६,८५,७८,४९७/-(अक्षरी** -- छपन्न् कोटी पंच्याऐंशी लक्ष अठयाहत्तर हजार चारशे सत्यान्नव मात्र)

३) तांत्रिक मान्यता : स्थापत्य विषयक कामास मा.शहर अभियंता यांची नं.NMC/PWD/TS/१०/२०२५ दि१९/०९/२०२५ अन्वये मा.शहर अभियंता सो, तसेच विद्युत विभाग यांचे कडील नं. TS/४४ /२०२५ दिनांक १६/०९/२०२५ यांनी तांत्रिक मान्यता दिलेली आहे.

४) निविदा सुचना क्रमांक : ई - निविदा सुचना क्र. ०३/०१ (सन २०२५-२६)

५) दै.लोकमत, दै.दिव्य मराठी, दै.सकाळ, दै.लोकमत टाईम्स, दै.टाईम्स ऑफ इंडिया, दै.मिन्ट टाईम्स, दै.हिंदुस्तान टाईम्स, दै.नवभारत, दै.प्रातःकाल, दै.फ्रिप्रेस जरनल या वर्तमान पत्रात निविदेस जाहिर प्रसिध्दी देऊन व www.mahatenders.gov.in या महाराष्ट्र शासनाच्या संकेतस्थळावर ऑनलाईन प्रसिध्दीने निविदा मागविण्यात आलेल्या आहेत.

अ) निविदा प्रसिध्दी कालावधी : दि. २५/०९/२०२५ ते २७/१०/२०२५

आ) आर्थिक देकार /निविदा उघडल्याचा : दि. ११/११/२०२५

६) विषयांकित कामासाठी एकुण चार (४) निविदा प्राप्त झालेल्या आहेत. त्यापैकी दोन (०२) निविदा पात्र झालेल्या आहेत, असे मध्यवर्ती निविदा कक्षाने कळविले आहे. त्या निविदांचा तपशिल खालील प्रमाणे आहे.

अ.नं.	निविदाधारकाचे नांव	पुर्वगणपत्रकापेक्षा टक्केवारी
१.	मे.बी.डी सोरटीया ॲन्ड कंपनी बडोदा	१८.०९० % कमी दराने
२.	मे.आकार कंन्स्ट्रक्शन नाशिक	९.९०० % कमी दराने

न्युनत्तम दराच्या निविदेची शिफारस करण्यात आलेली आहे.

वरील बाब क्र. ७ मध्ये नमूद केलेल्या निविदांपैकी **मक्तेदार मे.बी.डी सोरटीया ॲन्ड कंपनी बडोदा** या मक्तेदाराची निविदा प्राकलन दरापेक्षा **१८.०९० % कमी** दराने ही न्युनत्तम दराची असून, मक्तेदार यांना लेखी पत्र देऊन वाटाघाटी व दरपृथ्थकरण सादर करणेबाबत विचारणा केली असता, मक्तेदार यांनी लेखी पत्र देऊन सदरचा दर रास्त असुन त्यांनी सादर केलेली प्राकलन दरापेक्षा **१८.०९० % कमी** दराची निविदा मंजुर करणेची विनंती केली आहे.

विषयांधीन कामास संदर्भ क्र.३ अन्वये नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची प्रशासकीय मंजुरी प्राप्त झाली असुन, त्यामध्ये सदर कामाचा समावेश असुन प्रशासकीय मान्यता रक्कम **रु.५६.८६** कोटी आहे. शासन निधीतुन कामासाठी उपलब्ध तरतुदी मधुन सदरचा खर्च करण्यात येईल.

सदर प्रशासकीय मान्यतेनुसार न्युनतम निविदाधारक **मक्तेदार मे.बी.डी सोरटीया ॲन्ड कंपनी बडोदा** यांचेकडून प्राकलन दरापेक्षा **१८.०९० % कमी** दराने र.रु.३८,९८,१२,५२९/- अधिक (र.रु.७,०१,६६,२५५/- जी.एस.टी. + र.रु.६२,४१,६०८/- रॉयल्टी व टेस्टींग चार्जेस सह) अधिक सल्लागार फी र.रु.७,७०,७९९/- अशी **एकुण र.रु.४६,६९,९१,१९१** /- (अक्षरी र.रु.शेचाळीस कोटी एकोनसत्तर लाख एक्याण्णव हजार एकशे एक्याण्णव मात्र) इतक्या रकमेपर्यंत काम करुन घेणेसाठी व त्यांच्याशी करार करण्यास मान्यता घेण्यासाठी सदरचा विषय मा.स्थायी समितीच्या मंजुरीस सविनय सादर

शहर अभियंता
नाशिक महानगरपालिका नाशिक

अति. आयुक्त (२)
नाशिक महानगरपालिका नाशिक

सदर प्रकरणी महाराष्ट्र महानगरपालिका अधिनियमातील तरतुदीनुसार कार्यवाही करणेत यावी.

आयुक्त तथा प्रशासक
नाशिक महानगरपालिका, नाशिक

9/9/2024

महानगरपालिका सचिवालय

नाशिक महानगरपालिका, नाशिक

स्थायी समिती ठराव

सभा क्र. : ९७

विषय क्र. : ४५४ ठराव क्र. : ४५४ दिनांक : १२/१२/२०२५

संदर्भ- मा.आयुक्त तथा प्रशासक सो. यांचेकडील जा.क्र/बांध/ २५९/२०२५ दि. १२.१२.२०२५ चे पत्र.

१) मा.महासभा ठराव क्रमांक.३२१ दिनांक. ०४ /०९ /२०२५

२) ई- निविदा सु.क्र.०३/०१ (सन २०२५-२६

३) नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचाकडील प्रशासकीय मान्यता आदेश दि.१४/०९/२०२५

महाराष्ट्र महानगरपालिका अधिनियमातील कलम ४५२ (अ) मधील तरतुदीनुसार मा.प्रशासक सो.यांना प्राप्त झालेल्या अधिकारानुसार असा ठराव करण्यांत येत आहे कि,

गंगापुर रोड बारदान फाटा ते सुला चौक (बाहय वाहनतळ तेअंतर्गत वाहतळाला जोडणारा/त्रंबकरोड जोडरस्ता) विकसित करणेचे काम नाशिक-त्र्यंबकेश्वर येथे सन-२०२७ होणारा सिंहस्थ कुंभमेळा पुर्व तयारी दृष्टीकोनातुन वाहतुक व्यवस्था सुधारणे आदी दृष्टीकोनातुन रस्त्याचा कामाची यादी तयार करुन त्यानुसार निधी मागणीसाठी प्रस्ताव सादर करण्यास मा.महासभा ठराव क्र.३२१ दि.०४/०९/२०२५ अन्वये मान्यता प्राप्त झाली आहे. त्यापुर्वी नाशिक महानगरपालिके मार्फत दि.०२/०७/२०२४ अन्वये र.रु.१५१७२.४२ कोटी रक्क्मेचा आराखडा मंजुरीसाठी पाठविण्यात आला होता. त्याचप्रमाणे दि.०४/०६/२०२५, दि.१७/०७/२०२५, दि.१०/०७/२०२५, दि.०९/०९/२०२५, दि.०३/१०/२०२५, दि.२४/१०/२०२५ अन्वये वारंवार निधी मंजुरीसाठी पाठपुरावा करण्यात आला. त्याचप्रमाणे पोलिस विभागाने त्याचाकडील दि.२८/०७/२०२५ व दि.०९/०९/२०२५ चा पत्रान्वये प्रधान्यक्रम कळविला आहे. त्यास अनुसरुन नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणा मार्फत दि.१४/०९/२०२५ व दि.२२/०९/२०२५ अन्वये प्रशासकीय मान्यता प्राप्त झालेली आहे.

त्यानुसार संपुर्ण निविदा प्रक्रीया राबविण्यासाठी नाशिक महानगरपालिकेमध्ये स्वतंत्र मध्यवर्ती निविदा कक्षाची स्थापना करण्यात आली आहे, त्यामुळे मध्यवर्ती निविदा कक्षाकडुन सदर कामाची ई-निविदा प्रक्रिया राबविण्यात आली असून त्याचा तपशिल खालील प्रमाणे आहे.

१) विभागाचे नांव : सार्वजनिक बांधकाम विभाग

२) प्राकलन मंजुर रक्कम : **एकुण.र.रु ५६,८५,७८,४९७/-(अक्षरी** — छपन्न् कोटी पंच्याऐंशी लक्ष अठयाहत्तर हजार चारशे सत्यान्नव मात्र)

३) तांत्रिक मान्यता : स्थापत्य विषयक कामास मा.शहर अभियंता यांची नं.NMC/PWD/TS/१०/२०२५ दि१९/०९/२०२५ अन्वये मा.शहर अभियंता सो, तसेच विद्युत विभाग यांचे कडील नं. TS/४४ /२०२५ दिनांक १६/०९/२०२५ यांनी तांत्रिक मान्यता दिलेली आहे.

४) निविदा सुचना क्रमांक : ई - निविदा सुचना क्र. ०३/०१ (सन २०२५-२६)

५) दै.लोकमत, दै.दिव्य मराठी, दै.सकाळ, दै.लोकमत टाईम्स, दै.टाईम्स ऑफ इंडिया, दै.मिन्ट टाईम्स, दै.हिदुस्तान टाईम्स, दै.नवभारत, दै.प्रात:काल, दै.फ्रिप्रेस जरनल या वर्तमान पत्रात निविदेस जाहिर प्रसिध्दी देऊन व www.mahatenders.gov.in या महाराष्ट्र शासनाच्या संकेतस्थळावर ऑनलाईन प्रसिध्दीने निविदा मागविण्यात आलेल्या आहेत.

अ) निविदा प्रसिध्दी कालावधी : दि. २५/०९/२०२५ ते २७/१०/२०२५

आ) आर्थिक देकार /निविदा उघडल्याचा : दि. ११/११/२०२५

६) विषयांकित कामासाठी एकुण चार (४) निविदा प्राप्त झालेल्या आहेत. त्यापैकी दोन (०२) निविदा पात्र झालेल्या आहेत, असे मध्यवर्ती निविदा कक्षाने कळविले आहे. त्या निविदांचा तपशिल खालील प्रमाणे आहे.

अ.नं.	निविदाधारकाचे नांव	पुर्वगणपत्रकापेक्षा टक्केवारी
१.	**मे.बी.डी सोरटीया ॲन्ड कंपनी बडोदा**	**१८.०९० % कमी दराने**
२.	मे.आकार कंन्स्ट्रक्शन नाशिक	९.९०० % कमी दराने

न्युनत्तम दराच्या निविदेची शिफारस करण्यात आलेली आहे.

महानगरपालिका सचिवालय

नाशिक महानगरपालिका, नाशिक

स्थायी समिती ठराव

सभा क्र. : ९७

विषय क्र. : ४५४ ठराव क्र. : ४५४ दिनांक : १२ / १२ / २०२५

वरील बाब क्र. ७ मध्ये नमूद केलेल्या निविदांपैकी **मक्तेदार मे.बी.डी सोरटीया अॅन्ड कंपनी बडोदा** या मक्तेदाराची निविदा प्राकलन दरापेक्षा **१८.०९० % कमी** दराने ही न्युनत्तम दराची असून, मक्तेदार यांना लेखी पत्र देऊन वाटाघाटी व दरपृथ्थकरण सादर करणेबाबत विचारणा केली असता, मक्तेदार यांनी लेखी पत्र देऊन सदरचा दर रास्त असुन त्यांनी सादर केलेली प्राकलन दरापेक्षा **१८.०९० % कमी** दराची निविदा मंजुर करणेची विनंती केली आहे.

विषयांधीन कामास संदर्भ क्र.३ अन्वये नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची प्रशासकीय मंजुरी प्राप्त झाली असुन, त्यामध्ये सदर कामाचा समावेश असुन प्रशासकीय मान्यता रक्कम **रु.५६.८६** कोटी आहे. शासन निधीतुन कामासाठी उपलब्ध तरतुदी मधुन सदरचा खर्च करण्यात येईल.

सदर प्रशासकीय मान्यतेनुसार न्युनतम निविदाधारक **मक्तेदार मे.बी.डी सोरटीया अॅन्ड कंपनी बडोदा** यांचेकडून प्राकलन दरापेक्षा **१८.०९० % कमी** दराने र.रु.३८,९८,१२,५२९/- अधिक (र.रु.७,०१,६६,२५५/- जी.एस.टी. + र.रु.६२,४१,६०८/- रॉयल्टी व टेस्टींग चार्जेस सह) अधिक सल्लागार फी र.रु.७,७०,७९९/- अशी **एकुण र.रु.४६,६९,९१,१९१** /- (अक्षरी र.रु.शेचाळीस कोटी एकोनसत्तर लाखख एक्याण्णव हजार एकशे एक्याण्णव मात्र) इतक्या रकमेपर्यंत काम करुन घेणेस व करार करण्यास नियमानुसार मंजुरी देणेत येत आहे.

(मदन हरिश्चंद्र)
प्र.नगरसचिव,
नाशिक महानगरपालिका, नाशिक

(मनिषा खत्री)
प्रशासक,
नाशिक महानगरपालिका, नाशिक

नाशिक महानगरपालिका,नाशिक.

राजीव गांधी भवन, शरणपुररोड नाशिक -422002

www.nmc.gov.in Email-ce@nmc.gov.in

जा.क्र.साबांवि/डेस्क-८/२४/२०२५
दि.११/१२/२०२५

प्रति
मे.बी.डी.सोरठिया अँन्ड कंपनी
नाशिक.

विषय- **गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/त्र्यंबकरोड जोडरस्ता)**

संदर्भ- १) सिंहस्थ कुंभमेळा प्राधिकरणाची दि. १४/०९ /२०२५ रोजीची प्रशासकीय मान्यता .

उपरोक्त कामास दि. /१०/२०२४ अन्वये मंजुर झालेले असल्याने सदरचे पत्र मिळाले पासून ३ दिवसांचे आत कागदपत्रांची पुर्तता करावी.

१. रक्कम रुपये २३,३५,००० /- (१.०० पैकी उर्वरीत ०.५० टक्का सुरक्षा अनामत) म्हणून नॅशनलाईज बँकेची एफ.डी.आर./बँक गॅरंटी ३७ महिने मुदतीची सादर करावी.
२. रक्कम रुपये १४,००,०००/- स्टॅम्प पेपर व रुपये २०/- रुपये चे कोर्ट फी स्टॅम्प फी सादर करावी.

वरील कागदपत्रांची करारनामा करणे कामी त्वरीत पुर्तता करावी, मुदतीत पुर्तता न केल्यास आपणास काम करावयाचे नाही असे समजुन पुढील कार्यवाही करण्यात येईल याची नोंद घ्यावी.

कार्यकारी अभियंता
सार्वजनिक बांधकाम विभाग
नाशिक महानगरपालिका,नाशिक

नाशिक महानगरपालिका,नाशिक.

राजीव गांधी भवन, शरणपुररोड नाशिक -422002

www.nmc.gov.in

Email-ce@nmc.gov.in

जा.क्र.साबांवि/डेस्क-८/ २६/२०२५
दि.१९ /१२/२०२५

प्रति
मे.बी.डी.सोरठिया अँन्ड कंपनी
नाशिक.

विषय- **गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/त्र्यंबकरोड जोडरस्ता)**

संदर्भ- १) सिंहस्थ कुंभमेळा प्राधिकरणाची दि. १४/०९ /२०२५ रोजीची प्रशासकीय मान्यता .

उपरोक्त कामास दि. /१०/२०२४ अन्वये मंजुर झालेले असल्याने सदरचे पत्र मिळाले पासून ३ दिवसांचे आत कागदपत्रांची पुर्तता करावी.

१. रक्कम रुपये २३,३५,००० /- (१.०० पैकी उर्वरीत ०.५० टक्का सुरक्षा अनामत) म्हणून नॅशनलाईज बँकेची एफ.डी.आर./बँक गॅरंटी ३७ महिने मुदतीची सादर करावी.
२. रक्कम रुपये १४,००,०००/- स्टॅम्प पेपर व रुपये २०/- रुपये चे कोर्ट फी स्टॅम्प फी सादर करावी.

वरील कागदपत्रांची करारनामा करणे कामी त्वरीत पुर्तता करावी, मुदतीत पुर्तता न केल्यास आपणास काम करावयाचे नाही असे समजुन पुढील कार्यवाही करण्यात येईल याची नोंद घ्यावी.

कार्यकारी अभियंता
सार्वजनिक बांधकाम विभाग
नाशिक महानगरपालिका,नाशिक

B. D. SORATHIA & Co.

GOVERNMENT APPROVED CONTRACTOR

17, B. H. COMPLEX, 1st FLOOR, NEAR UTKARSH PETROL PUMP, KARELIBAUG, B.

Mob. : 99250 22070 Email : mbsorathia77@gmail.com

Date :- 23/01/2026.

Work Name:- Development of road from, Gangapur Road Bardan Phata to Sula Chowk (Linking Outer parking to Internal Parking/Trimbak Road Link Road)

Respected Sir,

With reference to the subject cited above, we respectfully submit that as per the terms and conditions of the tender, the requirement regarding installation of the plant after award of work has been duly complied with by us. We have successfully installed a new Batch Mix Plant (Hot Mix Plant) manufactured by Kaushik Plant company. All relevant documents pertaining to the said plant are available with us, and photographs of the installed plant are also enclosed.

Accordingly, we have submitted all the required documents to the Quality Control Department of Nashik Municipal Corporation. After submission, the Executive Engineer of the said department instructed us to commence production from the plant and submit the Batch Mix Report.
In this regard, we respectfully state that the development works allotted to us under the Kumbh Mela project were commenced immediately after receipt of the work order. Preliminary works such as survey (l section, cross-section, chainage marking) and C & G works have already been completed. However, at present, there is an obstruction in commencing the actual road work.

This delay is due to various utility works passing through the said roads which have not yet beer completed. For instance, works related to MNGL, OFC, drainage, and AMRUT Yojana have not commencec at several locations. As a result, preliminary road works such as excavation, sub-grade, GSB, WMM, etc. could not be started. Consequently, there is no scope at present to carry out any bituminous works.
Since the said Batch Mix Plant has been installed exclusively for the above-mentioned works, and as there is currently no scope for bituminous work, it is not possible to produce material from the plant at this stag However, the plant is fully operational (in running condition), and we are ready to demonstrate the same through physical inspection as and when required.

Therefore, we humbly request you to kindly consider the present status of the plant and, after due inspection, issue the Distance Certificate at the earliest.

Thanking you.

Yours sincerely,

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

Copy to:

1. City Engineer PWD,
   Nashik Municipal Corporation, Nashik
2. Executive Engineer PWD,
   SatpurDivision, Nashik Municipal Corporation, Nashik
3. Executive Engineer PWD,
   Quality Control Department, NMC, Nashik
4. Deputy Engineer, Satpur Division, NMC Nashik

11/2/11

B. D. SORATHIA & Co.

GOVERNMENT APPROVED CONTRACTOR

17, B. H. COMPLEX, 1st FLOOR, NEAR UTKARSH PETROL PUMP, KARELIBAUG, BARODA - 18.

Mob. : 99250 22070 Email : mbsorathia77@gmail.com

Date – 23/01/2026

To,

Executive Engineer PWD,

NMC, Nashik – Maharashtra.

Subject :- Consider Date from work order for Distance Certificate

Name of Work :- Construction of Asphalt road : Development of road from, Gangapur Road Bardan phata to sula chowk (Linking outer parking to internal parking/Trimbak Road link road)

Ref. :- Your office letter Dated – 22/01/2026.

Respected Sir,

We have allotted work of Bardan phata Gangapur road to sula chowk in Simhastha Kumbh mela work. We have got LOA on date of 13/11/2025 outword No./PWD/Desk – 2/231/2025. Thereafter we have submitted Bank Guaranty against Additional security deposit on date of 8/12/2025, The department of NMC Accepted deposit and issued us work order on date of 12/12/2025 outword No./NMC/PWD/Desk-8/16/2025. So we request you to please consider date of work order for Distance certificate instead of date of LOA. We got MORTH certificate from PWD on 22/11/202. My Asphalt plant is situated at sarul, Nashik. Due to the busy schedule of Simhastha kumbh mela work we have not get Distance Certificate. So we would like to kindly request you please consider date from work order for Distance Certificate instead of LOA.

Thank You,

Yours Faithfully,

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

11/2/11

B. D. SORATHIA & Co.

GOVERNMENT APPROVED CONTRACTOR
17, B. H. COMPLEX, 1st FLOOR, NEAR UTKARSH PETROL PUMP, KARELIBAUG, BARODA - 18.
Mob. : 99250 22070 Email : mbsorathia77@gmail.com

Date :- 30/01/2026

To,
The Executive Engineer,
Public Works Department,
NMC – Rajiv Gandhi Bhavan,
Sharanpur Road, Nashik - 422002.

Name Of Work :- Construction of Ashpalt Road: Devlopment of road from, Gangapur Road Bardan Phata to Sula Chowk (Linking outer parking to internal parking / Trimbak road link road)

Subject :- Submission of Distance Certificate.

Ref. :- 1. Work order No :- Outword no. NMC/PWD/Desk – 8/16/2025 dated 12/12/2025.
2. LOA Date :- 11/12/2025.

Respected Sir,

With reference to the above subject we wish to inform you that the Work Order for the above-mentioned road project has been issued to **M/s. B.D. Sorathia & Co.**

Further, we wish to inform you that, as per Contract Agreement and **Clause No. 1.1 – Eligibility Criteria for Asphalt Batch Mix Plant,** we have established our Asphalt Batch Mix Plant of 120 TPH capacity at **Village – Sarul, Taluka & District – Nashik.**

We are pleased to inform you that as on date, the above-mentioned Asphalt Batch Mix Plant is **ready for operation.** The **Distance Certificate, SCADA Certificate and Fitness Certificate** of the plant are enclosed herewith for your kind information and records.

This communication is issued without prejudice to the rights of the Contract under the Contract Agreement and applicable law.

Thanking you and always assuring you our best services all times.

Copy to :- City Engineer (PWD)
NMC - Nashik.

Yours sincerely,

K Purohit.
PARTNER / AUTH. SIGN.

कार्यकारी अभियंता
सार्वजनिक बांधकाम विभाग
आवक क्र. 926 दि. 30/1/26
जावक क्र. ..... दि. / /

शहर अभियंता
सार्वजनिक बांधकाम विभाग
आवक क्र. 968 दि. 30/1/26
जावक क्र. ..... दि. / /

NASHIK MUNICIPAL CORPORATION, NASHIK

Rajeev Gandhi Bhavan, Sharanpur Road, (Post Box No. 12), NASHIK- 422 002.
Visit us at : https://nmc.gov.in

N0.NMC/QC/Desk-5/ 15 /2026
Dated 30/01/2026

DISTANCE CERTIFICATE

Ref- Certificate vide letter no Desk/Mech/BTMP/342/2026 Dated 22/01/2026 for the Asphalt Hot Mix Plant Batch Type, Make- Kaushik Engineering Works, Ahmedabad Model KC -120 Capacity 120 TPH scada enabled issued by Assistant Chief Engineer (Mech) Public Works region Nashik.

This is to Certify that the Asphalt Hot Mix Plant, Batch Type of **M/S B D Sorathia & Co.** referred above is erected at Gut No 184/7 village –Sarul Tal Dist Nashik is within 30 km from Headquarter of Nashik Municipal Corporation, Rajeev Gandhi Bhavan Nashik.

The Distance of said Asphalt Hot Mix Batch Type Plant from the Headquarter of Nashik Municipal Corporation, Rajeev Gandhi Bhavan Nashik.is 17.0 km. The Validity of this Certificate is from the date of issue i.e. from Dt 30/01/2026 to 21/01/2027.

Note- 1) This Distance Certificate shall be invalid if the plant is found removed or shifted during surprise check of NMC Authorities

2) This Certificate is issued based on the documents submitted by applicant, hence stands cancelled if documents are false.

3) This is only a distance certificate as per the distance requirement of tender document and not related to capacity, standards, working status & SCADA of Plant.

Executive Engineer
Quality Control department
Nashik Municipal Corporation Nashik

CERTIFICATE

The Asphalt Hot Mix Plant, Batch Type with Electronic Control, mixing tower & Bag type filter arrangement, Make-Kaushik Engineering Works, Ahmedabad, Model- KC 120, Capacity 120 TPH, Plant Sr. No -15/16-17,erected at Gat No. 184/7, Village- Sarul, Tal.& Dist. Nashik and owned by **M/s B.D.Sorathia & Co.** Karelibaug Baroda-18 has been inspected by theAssistant Chief Engineer (Mech) Public Works Region, Nashik on date **21/01/2026.** The Asphalt Hot Mix Plant, Batch type, is modern, efficient and in good working condition. The Asphalt Hot Mix Plant, Batch Type is SCADA enabled.

Certified that the above Batch Mix Plant is confirming to Ministry of surface Transport Specifications of Fourth revision August 2001 (Reprinted August 2007) as per clause 504.3.4.

Validity of this Certificate is from **dt.22/01/2026 to 21/01/2027.**

Renewal of this certificate shall be processed one month before expiring of validity. However this Certificate will be invalid if any of the system as per M.O.R.T. & H. Specifications found removed or non-working during surprise check or "SCADA" found non-working or change of location or change or ownership.

(* This certificate is issued on cancellation of certificate issued vide letter No. 4687 dated 16-10-2025 to M/S Raj Infra Build Karelibaug Vadodara, Gujrat)

Assistant Chief Engineer (Mech.)
Public Works Region, Nashik

No.Desk/Mech/BTMP/ 342 /2026
Office of the Chief Engineer
Public Works Region, Nashik
Date -22 /01 /2026

Copy Submitted to the Superintending Engineer, Public Works Circle,Nashik for favour of information please.

Copy forwarded with compliments to the Executive Engineer, (Works),Nashik Municipal Corporation, Nashik for information.

Copy to **M/s B.D.Sorathia & Co.** Karelibaug Baroda-18 for information.

Scanned with OKEN Scanner

ALVIN SOFTWARE

www.alvinsoftware.com

DATE: 28-Jan-2026

CERTIFICATE

ONLINE BATCHMIX SCADA INSTALLATION

This is been Certified that Online Batchmix Scada has been successfully install and Tested at Kaushik Batchmix Plant 120 TPH Site: B.D. Sorathia & Co., Sarul , Nashik; as per Maharashtra Government (R&B) Department Requirement. Internet availability is required in our software, we are not responsible for Internet Fail. All Data must be available in PLC in Alvin Scada Format. Any Kind of service or Support or any query regarding Online Scada is only handled By "Gujarat Control System Mehsana "Company Only. We cannot Direct Contact with Customer of this Certificate. So any kind of service of this Online Scada is given by Invoice Company Only.

Serial No: "Alvin_400" **Location: Sarul, Nashik**

Expire date: "28-Jan-2028"

These certificate is issued after the transfer from M/s Raj Infra Build to B.D Sorathia. As per documents recieved.

ALVIN SOFTWARE * AHMEDABAD *

For, ALVIN SOFTWARE
Anup. K. Shah.
Proprietor

11 / 103 Nidhi Vibhag-2 , Ankur Road, Shastrinagar, Ahmedabad- 380013
+91 9725122920 info@alvinsoftware.com

नाशिक महानगरपालिका, नाशिक

राजीव गांधी भवन, शरणपुर रोड. (पोस्ट बॉक्स नं. १२) नाशिक -४२२००२

Visit us at : www.nmv.gov.in • E-mail :- ce pwd@nmc.gov.in

नाशिक महानगरपालिका, नाशिक
जा.क्र.मनपा/सांबांवि/डेस्क-८/१६/ २०२५
दिनांक :-१२/१२/२०२५

कार्यारंभ आदेश

प्रति
मे.बी.डी सोरटीया ॲन्ड कंपनी
१७,बी.एच.कॉम्प्लेक्स, १ ला मजला,
उत्कर्ष पेट्रोल पंपाजळ, करेलीबाग
बडोदा -१८

विषय- : **गंगापुर रोड बारदान फाटा ते सुला चौक (बाहय वाहनतळ ते अंतर्गत वाहतळाला जोडणारा/त्रंबकरोड जोडरस्ता) विकसित करणे.**

संदर्भ :- १) नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील प्रशासकीय मंजुरी दिनांक १४/०९/२०२५.
२) दि.१२ /१२/२०२५ रोजी आपण करून दिलेला करारनामा .

प्रशासकीय ठराव / आदेश सिंहस्थ कुंभमेळा प्राधिकरण यांचेकडील दि.१४/९/२०२५	ई निविदा सुचना क्र.०३ दि.२१/०९/२०२५	मा.स्थायी समिती ठराव क्र.४५४ दि.१२/१२/२०२५
करारनामा पत्र क्र.-२६ दि.११/१२/२०२५	अतिरिक्त सुरक्षा अनामत र.रु.९३,००,०००/-	सुरक्षा अनामत र.रु.२३,३५,०००/-
तरतुद	सिंहस्थ कुंभमेळा -२०२७	संगणक कोड क्र. ४०९७

नाशिक येथील आगामी सिंहस्थ कुंभमेळा-२०२७ अनुषंगाने नाशिक महानगरपालिकेच्या वरील विषयाधीन कामांस अनुसरून आपण सादर **केलेली न्युनतम दराची निविदा वाटाघाटी** अंती अंतीम झाल्यानुसार निविदा दरापेक्षा १८.०९० % कमी दराने र.रु.३८,९८,१२,५२९/- अधिक (र.रु.७,०१,६६,२५५/- जी.एस.टी. + र.रु.६२,४१,६०८/- रॉयल्टी व टेस्टींग चार्जेस सह) अधिक सल्लागार फी र.रु.७,७०,७९९/- अशी एकुण **र.रु.४६,६९,९१,१९१/- (अक्षरी र.रु.शेचाळीस कोटी एकोनसत्तर लाखख एक्याण्णव हजार एकशे एक्याण्णव मात्र)** इतक्या रक्कमेपर्यंत करणेस मंजुरी मिळालेली आहे. सदरचे काम मुदतीत करारनाम्याच्या अटीशर्ती नुसार पूर्ण दि.१२/१२/२०२५ ते दि.११/०६/२०२७ पावेतो करण्यासाठी खालील अटी शर्तीस अधिन राहून कार्यारंभ आदेश देण्यात येत आहे.

१) **सदर कामाची मुदत ही पावसाळा हंगाम धरून असुन कामाची प्रगती निविदेतील अटी शर्ती क्र.२ प्रमाणे सातत्याने ठेवायची आहे.**

२) नाशिक त्र्यंबकेश्वर कुंभमेळा अधिनियम २०२५ मधील सर्व तरतूदी या कामाला लागू राहतील.

३) सदर कामावर नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणामार्फत निर्देशित केल्यानुसार कामाच्या जागेवर माहिती दर्शविणारा फलक लावावा.

४) संपूर्ण कामाच्या जागेचे कामाचे काम सुरु करण्यापूर्वी कोणतीही जागा सुटणार नाही अशाप्रकारे दिनांक नमूद करून व्हिडिओ शूटिंग करावे आणि जियो स्टॅम्ड आणि जियो टॅग्ड फोटो काढावेत. त्याचप्रमाणे प्रत्येक कामाचे जास्तीत जास्त एक महिना किंवा त्यापेक्षा कमी या कालावधीमधे अशा प्रकारचे व्हिडिओ आणि फोटो पुन्हा काढावेत हे सर्व जतन करून ठेवावेत जेणेकरुन याला भविष्यात योग्य त्या संकेतस्थळावर जाहीररित्या प्रदर्शित करता येईल.

५) सदर कामासाठी युनिक पायाभूत सुविधा आयडी पोर्टल (Infra ID Portal) कार्यान्वित करणे बाबत दिलेल्या सूचनांचे पालन करावे व त्यानुसार कार्यवाही करावी.

६) प्रकल्प व्यवस्थापनाच्या दृष्टीने वेळोवेळी दिलेल्या निर्देशानुसार आवश्यक ती माहिती नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाला सादर करण्यासाठी वेळोवेळी उपलब्ध करून देणे बंधनकारक आहे.

७) सदर कामाचा दर्जा / गुणवत्ता आणि वेग तपासण्यासाठी, त्याचप्रमाणे कामाचे मूल्यमापन करण्यासाठी त्रयस्थ यंत्रणांमार्फत वेळोवेळी तपासणी आणि मूल्यमापन करण्यात येईल.

८) सदर कामास अनुसरून नाशिक महानगरपालिका , नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांनी वेळोवेळी दिलेल्या सुचना, परिपत्रक/ निर्देश यांचे पालन करणे बंधनकारक आहे.

९) नाशिक महानरपालिका , सिंहस्थ कुंभमेळा प्राधिकरण याच्या प्रकल्प व्यवस्थापन प्रणालीवर वेळोवेळी फोटोग्राफ , व्हिडीओ रेकॉर्डींग करुन अपलोड करणे तसेच प्रत्येक कामाचे छायाचित्र काढणे व ते देयकाबरोबर सादर करणे मक्तेदारास बंधनकारक आहे.

१०) कामाच्या ठिकाणी आपण नेमलेल्या प्रतिनिधीचे नाव, पत्ता, भ्रमणध्वनी क्रमांक या कार्यालयास तसेच उपअभियंता यांना ७ दिवसाचे आत लेखी स्वरूपात कळविण्यात यावेत.

११) कार्यारंभ आदेश मिळालेनंतर आपण करावयाच्या कामाचा प्रत्येक महिन्याचा आराखडा तयार करून कार्यालयास सादर करणे यावा. तसेच कामाची गुणवत्ता राखुन ठरवुन दिलेल्या कालावधीमध्ये पुर्ण करणेची जबाबदारी आपली राही

१२) कामासाठी गौण खनिजातील स्वामित्वधन शासनास भरणे आवश्यक आहे. त्यासाठी योग्य त्या प्राधिकरणाकडे स्वामीत्वधन भरणेत येऊन त्यांचे ना हरकत प्रमाणपत्र देयकासोबत सादर करणे बंधनकारक राहील. अन्यथा देयकातून वसुली करणेत येईल, याची नोंद घ्यावी.

१३) निविदा शर्तीनुसार कामाचा विमा व कामगारांचा विमा काढणे आवश्यक आहे. सदरचा विमा संचालक, विमा निधी महाराष्ट्र राज्य मुंबई यांचेकडुनच काढण्यात यावा व त्याची प्रत या कार्यालयास १५ पंधरा दिवसाचे आत सादर करण्यात यावी अन्यथा निविदा अटी शर्तीनुसार कार्यारंभ आदेशात नमुद कामाच्या किंमतीच्या १ % दराने त्याची वसुली आपल्या देयकातुन करण्यात येईल, याची नोंद घ्यावी.

१४) भविष्य निर्वाह निधी कायदा १९५२ व दिनांक ०८/०१/२०११ ची अधिसुचना अन्वये मक्तेदाराने कामावर नियुक्त केलेल्या कर्मचाऱ्यांचा भविष्य निर्वाह निधी भरलेबाबतची चलने बिलासोबत सादर करावी. मक्तेदाराने शासन निर्णयाप्रमाणे करासंबधित जी.एस.टी.चे रजिस्ट्रेशन करुन जी.एस.टी. कर भरणे बंधनकारक आहे. तसेच दिनांक ०१/०७/२०१७ पासुन जी.एस.टी. कर प्रणाली लागु झाल्यामुळे सदर कामामध्ये वस्तू व सेवा यांची यादी वा विक्री केले बाबतचे विवरणपत्र दरमहा पाच तारखेच्या आत मनपास सादर करणे बंधनकारक आहे.

१५) देयक अदा करतांना निधीच्या उपलब्धतेनुसार अदा करणेत येईल. देयक अदा करणेसाठी विलंब झाल्यास त्याबाबत कुठलाही क्लेम देण्यात येणार नाही.

१६) मा.उच्च न्यायालय जनहित .याचिका क्र.७१/२०१३ दि.१३/१०/२०२५ च्या आदेशानुसार रस्त्याचे काम चालु असतांना कोणी जखमी अथवा अपघात होवून जिवितहानी झाल्यास त्याची नुकसान भरपाई कायदेशीर बाबींची जबाबदारी सर्वस्वी मक्तेदाराची राहील.

१७) काम करतांना युटीलीटी सर्विसेस (विदयुत केबल,पाणीची पाईप लाईन,ड्रेनेज लाईन) इत्यादी नादुरुस्त झाल्यास मक्तेदाराने स्वखर्चाने व वेळेत दुरुस्त करण्यात याव्यात.

१८) शासनाच्या, संबंधित विभागांच्या आणि इतर सक्षम प्राधिकाऱ्यांच्या (उदा. केंद्रीय सतर्कता आयोग) यांनी वेळोवेळी निर्गमित केलेल्या मार्गदर्शक सूचनांचे पालन करावे लागेल.

१९) बांधकाम साहित्याची तपासणी करतांना आवश्यक चाचण्या नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण द्वारे नियुक्त यंत्रणा/ सल्लागार, नाशिक मनपा गुणनियंत्रण विभागाचे परिपत्रक क्र. जा.क्र./गुनि/कक्ष-१/१/२०२२ नुसार करण्यात याव्यात.

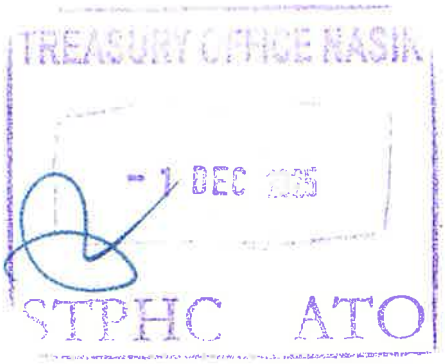
कार्यकारी अभियंता
सार्वजनिक बांधकाम विभाग
नाशिक महानगरपालिका, नाशिक

प्रत माहितीसाठी

१) मा.शहर अभियंता, सो. (बांधकाम), मनपा, नाशिक यांना सविनय सादर
२) गुण नियंत्रण व दक्षता विभाग, मनपा, नाशिक
३) विमा संचालक, महाराष्ट्र राज्य गृहनिर्माण भवन, (म्हाडा)
पहीला मजला, कलानगर समोर, रुम नं. २६४ बांद्रा (पुर्व), मुंबई ४०० ०५१
४) उपअभियंता, ,साबांवि , मनपा, नाशिक
अ) कार्यारंभ आदेश ,करारनामा व निविदा अटी / शर्तीनुसार पुर्तता करुन घेणेत यावी.
४) स्थळप्रत.



महाराष्ट्र MAHARASHTRA ◐ 2024 ◐ DM 989757



AGREEMENT

for

Development of road from, Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)

Between

NASHIK MUNICIPAL CORPORATION (NMC)

Tilak Wadi, Jejurkar Wadi, Sharanpur, Nashik, Maharashtra 422002

and

M/s. B.D. SORATHIA AND COMPANY, BARODA

जोडपत्र-२

दस्ताचा प्रकार/अनुच्छे क्र. : ---टेंडर---

दस्त नोंदणी करणार आहेत का : होय/नाही

असल्यास दुय्यम निबंधक कार्यालयाचे नांव : ---

मिळकतीचे वर्णन :- ---

मोबदला रक्कम

मुद्रांक शुल्क रक्कम :

मुद्रांक विकत घेणा-याचे नांव व पत्ता ---बी.डी. सोराथीया अँड कंपनी---

---बि.म. कॉम्प्लेक्स करेली बाग वडोदरा---

---गुजरात---

दुस-या पक्षकाराचे नांव : ---

---नगर (---

---मी ---

हस्ते असल्यास नांव व पत्ता ---अँड. पंकज कालवा---

मुद्रांक विक्री नोंदवही अनुक्रमांक व दिनांक : 20869/99.92.24

मुद्रांक विकत घेणा-याची सही :

प. क्र -८७/१९५/२६,.नाशिक

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून सहा महिन्यात वापरणे बंधनकारक आहे.

AGREEMENT

This AGREEMENT (hereinafter called "the **Agreement**") is made on the 12 day of the month of December, 2025, between, on the one hand, the **Nashik Municipal Corporation (NMC)** acting through **Executive Engineer, Nashik Municipal Corporation** (Hereinafter called "the **Authority**" which expression shall include its respective successors and permitted assignees, unless the context otherwise requires) and, on the other hand **M/s. B.D. SORATHIA AND COMPANY, BARODA** having its registered office at 17, B.H.Complex, 1st Floor, near Utkarsh Petrol Pump, Karelibaug, Baroda (hereinafter called "**the Contractor**" which expression shall include their respective successors and permitted assignees).

WHEREAS

1. As the said work is at the top priority considering the upcoming Kumbhmela 2027 and shall be funded by Nashik-Trimbakeshwar Kumbh Mela 2027 Nidhi and shall be rooted through Nashik-Trimbakeshwar Kumbhmela Pradhikaran (NTKMA). NTKMA has granted Administrative Approval to the expenditure of this work on 14/09/2025. The conditions mentioned in the administrative approval from Nashik-Trimbakeshwar Kumbhamela Pradhikarn dated 14/09/2025 are part and parcel of this agreement and binding on both the parties.
2. The Authority has invited sealed tender in B-1 form, vide Tender Notice No.3 dated 22/09/2025, published in daily newspapers Hindustan Times, Times of India, Navbharat, Lokmat,Sakal, Punyanagari, Divymarath, Pratakal and on the Maharashtra e-tender portal, from the companies/contractors fulfilling the terms and conditions of tender document with experience of similar type of works for **'Development of road from, Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)'**
3. The work invited was for **'Development of road from, Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)'** with an estimated cost of ₹.56,85,78,497/-
4. The date of issue of blank tender form was from 25/09/2025 to 10/10/2025. The pre-bid meeting for the same was held on 12/11/2025, common set of deviation and minutes of meeting with addendum was published on Maharashtra e-tender portal and , the date of submission of bids was extended to 17/10/2025 & 24/10/2025.
Total 4 bids have been received during the specified period, out of which 2 were technically qualified. Tender Evaluation Committee of NMC decided to open the financial bids of the technically qualified bidders, which were opened on 12/11/2025. The offer of **M/s. B.D. SORATHIA AND COMPANY, BARODA** of 18.090% below the estimated cost was found to be the lowest. As per Clause No. XX of the tender, a negotiation letter No.231 dated 13/11/2025 was issued for further negotiation by NMC, initially **M/s. B.D. SORATHIA AND COMPANY, BARODA** , Nashik. expressed their inability for negotiation through a letter with inward no TN-03-01/ Dec.25-001dated 13/11/2025 however, later submitted a revised negotiated offer of 18.090% below the estimated cost through a letter inward no. Dated-

6. NMC issued a letter to **M/s. B.D. SORATHIA AND COMPANY, BARODA** for submission of Performance Security Deposit as per clause no.13 of the Tender , **M/s. B.D. SORATHIA AND COMPANY, BARODA** complied with a Bank Guarantee of Rs- 6,93,00,,000/- from Nationalized Bank – Bank of Baroda, Nashik branch, with Fixed Deposit / Bank Guarantee Reference No.1707252022 , dated 08/12/2025 valid for 08/12/2026 with a validity of 12 months from the date of issuance complying with clause 13-b of detailed tender notice.
7. The proposal is then forwarded for further approval to Standing Committee of Nashik Municipal Corporation; grated approval vide SCR no 454 Dated 12/12/2025.

Security Deposit

The Contractor undertakes to execute the said work with due reliability, maintaining the required quality and standards, and to complete the work within the stipulated time period.

As per the approval of Standing Committee **M/s. B.D. SORATHIA AND COMPANY, BARODA** submitted a Term Deposit of Rs 23,35,000/- from Bank of Baroda , Majalpur , Baroda , as compliance to the details mentioned in the MEMORANDUM Towards Security Deposit, the Contractor has agreed to deposit 1.00% of the accepted contract amount (₹.46,70,000/-), out of which:

1. 0.50% amounting to ₹ 23,35,000/- has been deposited through F.D. No. 1707957213 dated 15/12/2025, and
2. The remaining 0.50% amounting to ₹ 23,35,000/- shall be recovered at the rate of 1% from the Contractor's running bills, till full recovery of total 1% security deposit amount.
3. The contractor has submitted a Performance Bank Guarantee / Fixed Deposit dated 08/12/2025 valid for 12 months after the end of contract issued by Bank of Baroda, Majalpur , Baroda branch for INR 6,93,00,,000/- with reference no. No. 1707252022 , dated 08/12/2025 Valid upto 08/12/2026 this date.
4. The total contract/agreement period shall be 31/03/2027 Months effective from 12/12/2025 (date).

Contract Documents

The following documents shall form an integral and binding part of this Agreement:

1. Tender Notice No 03 Dated 22/09/2025.
2. Detailed Tender Notice and Addenda,
3. Complete tender set including Tender Form (B-1),Price Variation Clause, Star Rate clause, Arbitration Clause, Clause 38 of GCC.Schedule–B and its supplementary terms,
4. Common Set of Deviation dated 10/10/2025
5. Technical and Financial Proposal
6. Negotiation letter and its response by the bidder
7. Performance Security Deposit
8. Standing Committee Resolution No 454 Dated.12/12/2025.
9. Initial security Deposit
10. Administrative Approval from Nashik Trimabakeshwar Kembhmela Pradhikaran vide letter Dated -14/09/2025.
11. The declaration by the bidder
12. The proforma agreeing to the General Conditions of Contract
13. General Specifications,
14. MORTH Specifications for additional works,
15. Special Conditions,

16. Contractor's Guarantee and Declaration,
17. Work Order,
18. Approved Drawings and any revised drawings issued by the Municipal Corporation from time to time.

The Contractor agrees to execute the entire work in conformity with the above documents, the directions of the City Engineer, and as per the approved specifications. Any increase or decrease in quantities shall be carried out as per revised drawings and measurements.

The Contractor shall maintain the required quality and shall complete the entire work within 18 months from the date of issue of Work Order.

Payment

NMC shall make payments to the Contractor from time to time for the work done, subject to quality and satisfactory execution, in accordance with the terms and conditions of the Agreement, and as per the compliance from contractor to the satisfaction of NMC and NTKMA..

1. The mutual rights and obligations of the Client and the Contractor shall as set forth in the Contract, in particular:

i. The contractor shall carry out the work in accordance with the provisions of the Contract, and

ii. The Client shall make payments to the Contract in accordance with the provisions of the Contract

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be signed and sealed in their respective names as of the day and year first above written.

On behalf of the M/s. B.D. SORATHIA AND COMPANY, BARODA	**On behalf of Authority**
Owner/ Proprietor of M/s. B.D. SORATHIA AND COMPANY, BARODA	**Executive Engineer, Nashik Municipal Corporation**

This Agreement is executed between Nashik Municipal Corporation (hereinafter referred to as the "Corporation") and **M/s. B.D. SORATHIA AND COMPANY, BARODA** (hereinafter referred to as the "Contractor"), and has been sealed with the official seal of the Corporation in the presence of:

- _____ (Deputy Commissioner , NMC)
- _____ (Deputy Commissioner , NMC)

For and on behalf of Nashik Municipal Corporation

Executive Engineer,(NMC)

Signature of Contractor

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

B. D. SCRATHIA & CO.

PARTNER / AUTH SIGN

बैंक ऑफ़ बड़ौदा
Bank of Baroda
India's International Bank

जमा पुष्टि सूचना / Deposit Confirmation Advice

Commissioner Nashik Municipal Corporation, Nashik.

B D SORATHIA AND CO A/c of B.D. Sorathia & Co.

17 BH COMPALEX 2ND FLOOR
NEAR UTKARSH PETROL PUMP VADOADARA
390018
INDIA

सावधि खाता क्र./ FD A/c No	01940300135949
सावधि सूचना क्र./ FD Advice No	FDR1707957213
कस्टमर आईडी क्र./ Customer ID No	DLZ071096
व्यवहार खाता / Linked Operative a/c	01940400001551
शाखा का नाम/Branch Name	MAJALPUR BARODA

योजना / Scheme	FIXED DEPOSIT - RIRD(RES)	संयुक्त धारक / Joint Holder (s)	B D SORATHIA
नामांकन / Nomination	N		
नामिती पंजीकरण क्रमांक / Nominee Registration No.			
पैन नंबर / PAN No.	AACFB0543P	अभिभावक का नाम (यदि खाताधारक अवयस्क है) / Guardian Name (If a/c holder is minor)	
परिचालन पद्धति / Mode of Operation	AUTHORISED SIGNATORY		
लियन चिह्नित / Lien Marked	N		

जमा राशि / Deposit Amount	जारी करने की तिथि / Date of Issue	ब्याजदर / Rate of Interest	जमा की अवधि / Tenure of Deposit	परिपक्वता तिथि / Maturity Date	परिपक्वता मूल्य / Maturity Value*
2335000	15-12-2025	6.50	42 Months 0 Days	15-06-2029	2866212

*परिपक्वता मूल्य टीडीएस के अधीन (वर्तमान आयकर नियमों के अनुसार)/ Maturity Value is subject to TDS (as per current Income Tax rules)

नियम व शर्तें/Terms & Conditions:

1. ब्याज दर प्रतिशत में वार्षिक है.
2. स्वत: नवीकरण क्लॉज़:

i. यदि अन्यथा अनुदेश न दिये हों तो 1 वर्ष व इससे अधिक अवधि के लिए की गई जमाराशि का नवीकरण देय तारीख पर प्रचलित ब्याज दरों के अनुरूप 1 वर्ष के लिए किया जाएगा.

ii. कोई निर्देश न दिए जाने पर 1 वर्ष से कम अवधि के लिए की गई जमाराशि का नवीकरण देय तारीख पर प्रचलित ब्याज दरों के अनुरूप इतनी ही अवधि के लिए किया जाएगा.

3. फॉर्म 15जी और 15एच सिर्फ निवासी खातों के लिए है
4. निवासी व्यक्तियों द्वारा प्रत्येक वित्तीय वर्ष में इसकी निर्धारित सीमा पूरा होने से पूर्व एक नया 15 जी/ 15 एच/ 15 एए (यदि लागू हो) प्रस्तुत किया जाए, अन्यथा स्रोत पर कर कटौती की जाएगी
5. फॉर्म एच केवल वरिष्ठ नागरिकों (60 वर्ष से अधिक उम्र) से ही स्वीकार किया जाएंगे.
6. परिपक्वता आहरण क्लॉज़ :

i. रु. 1 करोड़ से कम की जमाराशियों को समयपूर्व बंद करने पर 1% दंड का प्रावधान है अर्थात ऐसी जमाराशि के जारी होने की तिथि पर लागू कार्ड दर से 1% कम ब्याज का भुगतान किया जाएगा.

ii. रु 1 करोड़ और इससे अधिक की जमाराशियों को समयपूर्व बंद करने पर 1.5% दंड का प्रावधान है अर्थात ऐसी जमाराशि पर बैंक में रखी जाने वाली अवधि के लिए लागू कार्ड दर से 1.5% कम ब्याज का भुगतान किया जाएगा. रु. 1 करोड़ और इससे अधिक की जमा राशि के समय पूर्व आहरण के लिए जमा राशि के आहरण से कम से कम 31 दिन पहले बैंक को सूचना दी जानी चाहिए

7. गैर प्रतिदेय जमा के अंतर्गत – परिपक्वता पूर्व आहरण की अनुमति नहीं है.

1. Rate of interest is in percentage per annum.
2. Automatic Renewal Clause :

i) For Deposits issued for a period of 1 year and above, Deposits will be renewed for 1 year at the prevailing rate of interest on the due date if not instructed otherwise

ii) For Deposits issued for a period of less than 1 year, Deposits will be renewed for the same period at the prevailing rate of interest on the due date if not instructed otherwise.

3. Form 15G and 15H is applicable to Resident accounts only
4. A fresh 15G/ 15H/ 15AA (if applicable) has to be submitted by Resident individuals for each Financial Year, prior to crossing the threshold limit, failing which TDS will be deducted
5. Form 15H can be accepted only from senior citizens (age of 60 years or more)
6. Premature Withdrawal Clause

i) Premature withdrawal of deposit less than Rs. 1 crore will attract 1% penalty i.e. 1% less than card rate as on the date of deposit for the period for which deposit has remained with Bank

ii) Premature withdrawal of deposit for Rs. 1 crore and above will attract 1.5% penalty i.e. 1.5% less than card rate as on the date of deposit, for the period for which deposit has remained with Bank. For premature withdrawal of deposit Rs. 1 crore and above, a withdrawal notice of minimum 31 days prior to withdrawal of deposit is to be given to Bank

7. In case of "NON-CALLABLE DEPOSIT" – Premature withdrawal not allowed

Please note, this is a system generated advice and does not require any signature



Maharashtra Govt. Stamp Duty and Registration Fees

Your request has been processed successfully.

Details for Online Payment	
Ref No.:	SBI0187951174058
Remarks:	TRANSACTION SAVED SUCCESSFULLY
Bank/Branch:	18795;MAKHMALABAD
Bank CIN:	02101242025121267517
GRN Number:	MH013378574202526S
Print Dt Time:	20251212084757
Pay Type:	E-SBTR
District:	NASHIK
Office Name:	IGR314,NSK4_NASHIK 4 JOINT SUB REGISTRAR
St.Duty Scheme:	0030045501-75
St Duty Amount:	Rs.1400000/-
Article:	63;Works Contract
Property Movability:	NA
Consideration Amount:	Rs. 466991191/-
Duty Payer Name:	B D SORATHIA AND CO
Duty Payer Id:	PAN-AACFB0543P
Duty Payer Mobile No:	8600130101
Other Party Name:	THE NASHIK MUNICIPAL CORPORATION
Other Party Id:	PAN-AAALN0085E

Print Back

महाराष्ट्र शासन
GOVERNMENT OF MAHARASHTRA
ई-सुरक्षित बँक व कोषागार पावती
e-SECURED BANK & TREASURY RECEIPT (e-SBTR)

162398139293 42

Bank/Branch :	SBI / 18795;MAKHMALABAD		
Pmt Txn id :	IGATPASYQ6	Stationery No :	XXXXXXXXXX9342
Pmt DtTime :	12-12-2025@08:47:57	Print DtTime :	15-12-2025@11:16:37
District :	5101/NASHIK	Office Name :	IGR314,NSK4_NASHIK 4 JOINT SUB REGISTRAR
ChallanIdNo :	02101242025121267517	GRAS GRN :	MH013378574202526S
		GRN Date :	12-12-2025@08:47:57
StDuty Schm :	0030045501		
StDuty Amt :	Rs 1400000/-(Rs One Four, Zero Zero , Zero Zero Zero Only)		
RgnFee Schm :			
RgnFee Amt :			
Article :	63/63;Works Contract		
Prop Mvblty :	Not Applicable	Consideration :	Rs 466991191/-
Prop Descr :	CONSTRUCTION OF ROAD, WORK IN NMC LIMIT, 422001		
Duty Payer :	PAN-AACFB0543P, B D SORATHIA AND CO		
Other Party :	PAN-AAALN0085E, THE NASHIK MUNICIPAL CORPORATION		

Bank official-1 Name & Signature

Bank official-2 Name & Signature

e-SBTR IS VALID UPTO SIX MONTHS FROM THE DATE OF PAYMENT.

B.D. Sarathya
2/6/21

दै लोकमत दि २७/१०/२०२५

(11)

दै सकाळ दि २५/१०/२०२५

दै पुण्यनगरी दि २५/१०/२०२५

दै सकाळ दि २७/१०/२०२५

दै प्रातःकाल दि २५/१०/२०२५

Pgurooint

नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई- टेंडर सेल विभाग

सिंहस्थ कामे- ई- निविदा सूचना क्र.०३ (सन २०२५-२६)

नाशिक महानगरपालिका, नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सूचना क्रमांक ०३ (सन २०२५-२६) दिनांक २२/०९/२०२५ पासून दिनांक ०६/१०/२०२५ रोजी दुपारी ३.०० वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल. निविदा स्वीकृतीची अंतिम दिनांक ०६/१०/२०२५ राहील.

टीप - वरपुढील सर्व आवश्यक सूचना/शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

Sd/-XXX
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

Sd/-XXX
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

जनसंपर्क/जा.क्र./२६०/२०२५ दिनांक ३०/०९/२०२५

नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई-टेंडर सेल विभाग

सिंहस्थ कामे- ई-निविदा सूचना क्र. ०३ (सन २०२५-२६)

नाशिक महानगरपालिका, नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सूचना क्रमांक ०३ (सन २०२५-२६) दिनांक २२/०९/२०२५ पासून दिनांक ०६/१०/२०२५ रोजी दुपारी ३.०० वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल. निविदा स्विकृतीची अंतिम दिनांक ०६/१०/२०२५ राहील.

टीप - वापुढील सर्व आवश्यक सूचना / शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

Sd/-xxx
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

Sd/-xxx
अतिरिक्त आयुक्त (२),
नाशिक महानगरपालिका, नाशिक

जनसंपर्क/जा.क्र/२६०/२०२५ दि.३०/०९/२०२५

नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई-टेंडर सेल विभाग

सिंहस्थ कामे- ई- निविदा सूचना क्र. ०३ (सन २०२५-२६)

नाशिक महानगरपालिका, नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सूचना क्रमांक ०३ (सन २०२५-२६) दिनांक २२/०९/२०२५ पासून दिनांक ०६/१०/२०२५ रोजी दुपारी ३.०० वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल. निविदा स्विकृतीची अंतिम दिनांक ०६/१०/२०२५ राहील.

टीप - वापुढील सर्व आवश्यक सूचना / शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

Sd/-xxx
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

Sd/-xxx
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

जनसंपर्क/जा.क्र/२६०/२०२५ दि.३०/०९/२०२५

नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई- टेंडर सेल विभाग

सिंहस्थ कामे- ई- निविदा सूचना क्र.०३ (सन २०२५-२६)

नाशिक महानगरपालिका, नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सूचना क्रमांक ०३ (सन २०२५-२६) दिनांक २२/०९/२०२५ पासून दिनांक ०६/१०/२०२५ रोजी दुपारी ३.०० वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल. निविदा स्विकृतीची अंतिम दिनांक ०६/१०/२०२५ राहील.

टीप - वापुढील सर्व आवश्यक सूचना / शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

सही/-xxx
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

सही/-xxx
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

जनसंपर्क/जा.क्र/२६०/२०२५ दिनांक ३०/०९/२०२५

NASHIK MUNICIPAL CORPORATION, NASHIK
E-Tender Cell Department

Sinhastha Work- E-Tender Notice No.03 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the web site www.mahatenders.gov.in. from dt.22/09/2025 to 06/10/2025 up to 3.00 pm. Last date for acceptance of tender will be dt.06/10/2025.

Note :- All further necessary notices/clarifications will be published on the online website.

Sd/-xxx
Executive Engineer
(Tender Cell)
Nashik Municipal Corporation

Sd/-xxx
Additional Commissioner(2)
Nashik Municipal Corporation

जनसंपर्क/जा.क्र/२६०/२०२५ दि.३०/०९/२०२५

दै.लोकमत टाइम्स, दै.टाईम्स ऑफ इंडिया, दै.मिन्ट टाईम्स, दै.हिंदुस्तान टाईम्स, दै.नवभारत, दै.प्रात:काल, दै.फ्रिप्रेस जरनल, या वर्तमान पत्रात **र.रु.४८,०८,०९,४०७/-** ची निविदा प्रसिध्द करुन ऑनलाईन निविदा मागविल्या असता दि.१७/१०/२०२५ पावेतो अंतिम मुदतीत एकुण दोन (०२) निविदाधारकांनी निविदा सादर केलेल्या होत्या. परंतु स्पर्धात्मक

दै. लोकमत नाशिक दि.२५/०९/२०२५

(12)

दै. सकाळ

दै. सामना (महाराष्ट्र)

दै. दिव्य मराठी

दै. Mint

दै. नवशक्ति

NASHIK MUNICIPAL CORPORATION, NASHIK
E-Tender Cell Department
Sinhastha Work - E-Tender Notice No.03 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in from dt.22/09/2025 to 06/10/2025 up to 3.00 pm. Last date for acceptance of tender will be dt.06/10/2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-xxx
Executive Engineer
(Tender Cell)
Nashik Municipal Corporation

Sd/-xxx
Additional Commissioner(2)
Nashik Municipal
Corporation

जनसंपर्क/जा.क्र/३६०/२०२५ दि.२०/०९/२०२५ गोदा प्रदूषण टळला, भविष्य सक्षम

दै. नवभारत दि १५/१०/२०२५

(13)

Nashik Municipal Corporation, Nashik
Public Health Engineering Department (Sewerage)
Rajiv Gandhi Bhavan, Sharanpur Road, Nashik- 422 002
Ph. (0253) 2575631/32, 2579119 Fax: 2577936

E-Tender Notice No. 03/ 2025-26

Nashik Municipal Corporation, invites bids vide e-Tender No-03/(2025-26) for 01 works. The Detailed Tender Notice & Tender documents will be available on www.mahatenders.gov.in, from Dt. 17/10/2025 to Dt. 03/11/2025.

Sd/xxx
Superintending Engineer
Public Health Engineering
Department (Sew)
Nashik Municipal
Corporation, Nashik

Sd/xxx
Commissioner &
Administrator
Nashik Municipal
Corporation, Nashik

जनसंपर्क/जा.क्र/२९४/२०२५ दि.१५/१०/२०२५

गोदा प्रदूषण टाळा, भविष्य संभाळा.

दै. प्रहार दि १५/१०/२०२५

Nashik Municipal Corporation, Nashik
Public Health Engineering Department (Sewerage)
Rajiv Gandhi Bhavan, Sharanpur Road, Nashik- 422 002
Ph. (0253) 2575631/32, 2579119 Fax: 2577936

E-Tender Notice No. 03/ 2025-26

Nashik Municipal Corporation, invites bids vide e-Tender No-03/(2025-26) for 01 works. The Detailed Tender Notice & Tender documents will be available on www.mahatenders.gov.in, from Dt. 17/10/2025 to Dt. 03/11/2025.

Sd/xxx
Superintending Engineer
Public Health Engineering
Department (Sew)
Nashik Municipal
Corporation, Nashik

Sd/xxx
Commissioner &
Administrator
Nashik Municipal
Corporation, Nashik

जनसंपर्क/जा.क्र/२९४/२०२५ दि.१५/१०/२०२५

गोदा प्रदूषण टाळा, भविष्य संभाळा.

दै. हिंदुस्थान टाइम्स दि १५/१०/२०२५

Nashik Municipal Corporation, Nashik
Public Health Engineering Department (Sewerage)
Rajiv Gandhi Bhavan, Sharanpur Road, Nashik- 422 002
Ph. (0253) 2575631/32, 2579119 Fax: 2577936

E-Tender Notice No. 03/ 2025-26

Nashik Municipal Corporation, invites bids vide e-Tender No-03/(2025-26) for 01 works. The Detailed Tender Notice & Tender documents will be available on www.mahatenders.gov.in, from Dt. 17/10/2025 to Dt. 03/11/2025.

Sd/xxx
Superintending Engineer
Public Health Engineering
Department (Sew)
Nashik Municipal
Corporation, Nashik

Sd/xxx
Commissioner &
Administrator
Nashik Municipal
Corporation, Nashik

जनसंपर्क/जा.क्र/२९४/२०२५ दि.१५/१०/२०२५

गोदा प्रदूषण टाळा, भविष्य संभाळा.

Pradhan

सविनय सादर,

दिनांक : २४/०९/२०२५

विषय : सार्वजनिक बांधकाम विभागामार्फत करावयाच्या कामांची ई-निविदा नोटीसचे शुद्धीपत्रक प्रसिध्द करणे बाबत.

संदर्भ : १) अध्यक्ष ,नाशिक –त्र्यंबकेश्वर कुंभमेळा प्राधिकरण तथा विभागीय आयुक्त सो, यांचे कडील दि.१४/०९/२०२५ रोजीची प्रशासकीय मान्यता.
२) सिंहस्थ कामे ई-निविदा सु.क्र.०३ सन २०२५-२६

उपरोक्त संदर्भ क्र.१ अन्वये अध्यक्ष ,नाशिक –त्र्यंबकेश्वर कुंभमेळा प्राधिकरण तथा विभागीय आयुक्त सो. यांचे कडील दि.१४/०९/२०२५ रोजीची प्रशासकीय मान्यता मिळाल्यानुसार, संदर्भ क्र.-२ अन्वये सिंहस्थ अंतर्गत रस्त्यांच कामाची ई-निविदा सु.क्र.०३ सन २०२५-२६ वर्तमान पत्रात प्रसिद्ध करण्यात आली होती. सदर निविदा संच विक्रीचा कालावधी हा दि.२२/०९/२०२५ ते दि.०६/१०/२०२५ असा होता. परंतु तांत्रिक अडचणीमुळे ऑनलाईन निविदा अपलोड करण्यास विलंब झाला आहे. त्यामुळे सदर निविदेचा विक्री कालावधी दि.२५/०९/२०२५ ते दि.१०/१०/२०२५ रोजी पर्यंत वाढविण्यास व तसे शुद्धीपत्रक ऑनलाईन प्रसिध्द करणेस मंजुरी मिळणेस विनंती.

क.लिपीक
(राहुल पारजे)

कार्यकारी अभियंता (रविंद्र बागुल)

कार्यकारी अभियंता (नवनीत भामरे)

कार्यकारी अभियंता (रविंद्र पाटील)

कार्यकारी अभियंता (संदेश शिंदे)

कार्यकारी अभियंता (प्रशांत पगार)

मा.शहर अभियंता
(संजय अग्रवाल)

अ मान्य करणेस रक्कम नस्ती

(प्रदिप चौधरी)
मा.अतिरीक्त आयुक्त सो.

(मनिषा खत्री)
मा.आयुक्त तथा प्रशासक सो.

(To)

नाशिक महानगरपालिका,नाशिक
मध्यवर्ती ई-टेंडर सेल विभाग
सिंहस्थ कामे ई- निविदा सुचना क्र.०३ चे शुद्धीपत्रक (सन २०२५-२६)

नाशिक महानगरपालिकेच्या सार्वजनिक बांधकाम विभागाच्या खालील नमुद केलेल्या कामा करीता महाराष्ट्र शासन अथवा केंद्र शासनाच्या अथवा निमशासकीय संस्थेकडे योग्य वर्गातील पंजीकृत व काम करण्याचा अनुभव असलेल्या मक्तेदाराकडून ई-टेंडर (ऑनलाईन) निविदा मागवित आहोत.

अ.क्र	कामाचे नाव	प्राकलन र.रु
१)	गंगापूर रोड बारदान फाटा ते सुला चौक (बाह्य वाहनतळ ते अंतर्गत वाहनतळाना जोडणारा/त्र्यंबकरोड जोडरस्ता)	५६,८५,७८,४९७/-
२)	त्र्यंबक रोड पपया नर्सरी सिग्नल ते एक्स.लो. जंक्शन (बाह्य वाहनतळ / रेल्वे स्थानक-त्र्यंबकरोड- मुंबई महामार्ग जोडरस्ता / वाहतूक नियोजन)	७७,३२,७५,३४३/-
३)	एक्सलो चौक ते गरवारे चौकपावेतो (बाह्य वाहनतळ / रेल्वे स्थानक त्र्यंबकरोड मुंबई महामार्ग जोडरस्ता / वाहतूक नियोजन)	७१,९८,७४,७१०/-
४)	वडनेर गेट ते विहितगाव (लॅम रोड) (रेल्वे स्थानक त्र्यंबकरोड जोडरस्ता वाहतूक नियोजन)	३१,९९,९९,७४०/-
५)	विहितगाव (लॅम रोड) ते बिटको चौक ते जेलरोड-गोदावरी नदी पर्यंत (घाटाकडे जाणारा रस्ता)	६५,५०,०१,८०३/-
६)	नांदूर पूल ते जत्रा हॉटेल (घाटाकडे जाणारा रस्ता)	७१,२०,०४,८९५/-
७)	लेखा नगर NH३-कलानगर चौक- वडाळागाव रविशंकर मार्ग-विजय ममता चौक (घाटाकडे जाणारा रस्ता / वाहतुक नियोजन)	३८,४९,७५,८१२/-
८)	संगम पूल ते मिर्ची हॉटेल चौक ते अमृतधाम चौक ते गुंजाळ बाबा चौक तारवाला चौक ते मार्केट सिग्नल ते मखमलाबाद रोड (घाटाकडे जाणारा रस्ता / साधुग्राम पोहोच रस्ता)	८३,२६,४७,५०९/-
९)	के.टी.एच.एम. पूल ते जुना गंगापूर नाका ते शरणपूर पोलीस चौकी, बॉश (मायको) सर्कल ते चांडक सर्कल ते महामार्ग बस स्टॅन्ड (घाटाकडे जाणारा रस्ता / वाहनतळ जोडणारा)	४८,०८,०९,४०७/-
१०)	विजय ममता चौक-टाकळी गाव-संगम पूल (घाटाकडे जाणारा रस्ता/ साधुग्राम पोहोच रस्ता)	२२,१९,८७,६९४/-
११)	अशोक स्तंभ ते जेहान सर्कल (गंगापूर रोड) रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता/वाहनतळ जोडणारा)	३७,८१,००,०३९/-
१२)	गंगापूर रोड - जेहान सर्कल ते गंगापूर गाव मनपा हद्द पावेतो रस्ता विकसित करणे. (वाहनतळ जोडणारा रस्ता)	४९,३४,६०,३४८/-
१३)	खडकाळी सिग्नल ते त्र्यंबक नाका ते आयटीआय सिग्नल (त्रंबक रोड) पर्यंतचा रस्ता विकसित करणे. (नाशिक त्रंबक कुंभमेळा दोन्ही ठिकाणी जोडणारा ररता / वाहनतळ जोडणारा रस्ता)	५१,०५,१६,७५०/-

B. D. SORATHIA & CO.
PARTNER/AUTH. SIGN.

अ.क्र	कामाचे नाव	प्राकलन र.रु
१४)	त्र्यंबक रोड आय.टी.आय. सिग्नल ते पिंपळगाव बहुला मनपा हद्द रस्ता विकसित करणे. (नाशिक त्रंबक कुंभमेळा दोन्ही ठिकाणी जोडणारा रस्ता /वाहनतळ जोडणारा रस्ता)	४९,२८,६८,७२७/-
१५)	निमाणी चौक ते मनपा हद्द पावेतोचा दिंडोरी रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता /वाहनतळ जोडणारा)	५९,५६,९९,४६५/-
१६)	पेठ रोड कालवा ते मेहेरधाम पेठ रस्ता विकसित करणे (घाटाकडे जाणारा रस्ता / वाहनतळ जोडणारा)	७६,४९,०९,२७३/-
१७)	पुणे रोड- दत्त मंदिर चौक ते सिन्नर फाटा (रेल्वे स्थानक जोड रस्ता)	१७,७४,८१,९८२/-
१८)	जनार्दन स्वामी गठ (छत्रपती संभाजी नगर रोड) ते लक्ष्मी नारायण मंदिरपुल ते ड्रीम सिटी चौक (घाटाकडे जाणारा रस्ता/ साधुग्राम जोडणारा रस्ता)	१४,९९,८५,९३७/-
उपरोक्त नमुद अ.क्र.१ ते१८ चे कामांसाठी निविदा फी र.रु.३६३१/- इतकी राहील		

अटीशर्ती-

१) सविस्तर निविदा नोटीस मा. राज्य शासनाचे संकेत स्थळ (Website) www.mahatenders.gov.in वर प्रसिध्द केली आहे त्याचे अवलोकन करावे.

२) सदर कामासाठी ऑनलाईन निविदा संच विक्री दि.२५/०९/२०२५ ते दि.१०/१०/२०२५ या कालावधी मध्ये केली जाईल.

३) सदर कामासाठी निविदापुर्व बैठक दि. ०१/१०/२०२५ रोजी दु.४.०० वाजता ऑनलाईन पध्दतीने घेण्यात येईल, त्याची लिंक निविदा दस्तामध्ये दिलेली आहे.

४) सदर कामांसाठी ऑनलाईन सादरी करणाची अंतिम मुदत दि.१०/१०/२०२५ रोजी दु.३.०० वाजे पर्यंत राहील.

५) सदर कामासाठी ऑनलाईन सादर केलेल्या निविदा दि.११/१०/२०२५ रोजी दु.३.०० वाजेनंतर (शक्य झाल्यास) कार्यकारी अभियंता (टेंडर सेल) यांचे समक्ष उघडण्यात येतील.

६) कोणतेही कारण न देता निविदा स्विकारणे अथवा नाकारणे याबाबतचे अंतिम अधिकार मा.आयुक्त सो. तथा प्रशासक नाशिक मनपा यांचे राहतील.

Sd xxx/-
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

Sd xxx/-
अतिरिक्त आयुक्त (२)
नाशिक महानगरपालिका, नाशिक

दिनांक : ०९/१०/२०२५

सविनय सादर,

विषय : ई-निविदा सु.क्र.०३ सन २०२५-२६ या कामास मुदतवाढ मिळणे बाबत.

संदर्भ : १) अध्यक्ष ,नाशिक –त्र्यंबकेश्वर कुंभमेळा प्राधिकरण तथा विभागीय आयुक्त सो. यांचे कडील दि.१४/०९/२०२५ रोजीची प्रशासकीय मान्यता.

२) सिंहस्थ कामे ई-निविदा सु.क्र.०३ सन २०२५-२६

उपरोक्त संदर्भ क्र.१ अन्वये अध्यक्ष ,नाशिक –त्र्यंबकेश्वर कुंभमेळा प्राधिकरण तथा विभागीय आयुक्त सो. यांचे कडील दि.१४/०९/२०२५ रोजीची प्रशासकीय मान्यता मिळाल्यानुसार, संदर्भ क्र.-२ अन्वये सिंहस्थ अंतर्गत रस्त्यांच कामांची ई-निविदा सु.क्र.०३ सन २०२५-२६ वर्तमान पत्रात प्रसिद्ध करण्यात आली होती. सदर कामाची निविदा सादरीकरणाची अंतीम मुदत ही दि.१०/१०/२०२५ रोजी पावेतो आहे. सदर कामाची ऑनलाईन पध्दतीने निविदापुर्व बैठक दि.०१/१०/२०२५ रोजी घेण्यात आली. सदर बैठक व मक्तेदार यांच्या कडील लेखी मुद्दे यास अनुसरुन Modified Clause नुसार अटी/शर्तो बाबत CSD Common set of Deviation / Addendum / Corrigendum प्रसिध्द करावयाचे आहे. त्यानंतर मक्तेदार यांना निविदा सादर करण्यासाठी पुरेसा कालावधी मिळावा यासाठी सदर निविदेस मुदतवाढ देणे आवश्यक आहे. त्यामुळे सदर निविदेस दि.१७/१०/२०२५ रोजी पावेतो मुदतवाढ मिळणेस विनंती.

क.लिपीक
(राहुल पोरजे)

कार्यकारी अभियंता (रविंद्र बागुल)

कार्यकारी अभियंता (नवनीत भामरे)

कार्यकारी अभियंता (रविंद्र पाटील)

कार्यकारी अभियंता (सदेश शिंदे)

कार्यकारी अभियंता (प्रशांत पगार)

मा.शहर अभियंता
(संजय अग्रवाल)

(प्रदिप चौधरी)
मा.अतिरीक्त आयुक्त सो.

(मनिषा खत्री)
मा.आयुक्त तथा प्रशासक सो.

मा. कार्यकारी अभियंता निविदा मान्य आहे

सह शहर अभियंता :-

नाशिक महानगरपालिका,नाशिक
मध्यवर्ती ई- टेंडर सेल विभाग

सिंहस्थ कामे- ई- निविदा सुचना क्र.०३ शुध्दीपत्रक-१ (सन २०२५-२६)

नाशिक महानगरपालिका,नाशिक सार्वजनिक बांधकाम विभागाच्या १८ कामांची ई-निविदा सुचना क्रमांक.०३ (सन २०२५-२६) दिनांक २५/०९ /२०२५ पासुन दिनांक १७/१०/२०२५ रोजी दुपारी ३.०० वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर उपलब्ध असेल.निविदा स्विकृतीची अंतिम दिनांक १७/१०/२०२५ राहील.

टीप - यापुढील सर्व आवश्यक सुचना/शुध्दीपत्रक हे Online website वर प्रसिध्द करणेत येतील.

स्वाक्षरीत/-
कार्यकारी अभियंता (टेंडर सेल)
नाशिक महानगरपालिका, नाशिक

Nashik Municipal Corporation, Nashik
E-Tender Cell Department

Sinhastha Work - E-Tender Notice No.03 Corigendum-1 (2025-26)

Nashik Municipal Corporation, Nashik Public Works Department vide E-Tender Notice No. 03 (Year 2025-26) invites bids for 18 number of works which will be displayed on the website www.mahatenders.gov.in. from dt.25/09/2025 to 17/10/2025 up to 3.00 pm Last date for acceptance of tender will be dt.17/10 /2025.

Note - All further necessary notices/clarifications will be published on the online website.

Sd/-
Executive Engineer (Tender Cell)
Nashik Municipal Corporation

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
1140.00	Running Metre		ix) for 600 mm dia	Rs.	2886.20	Rupees Two Thousand Eight Hundred Eighty Six and Twenty	Running Metre	3290268.00
			R.C.C.NP-IV Class (MJP, SSR 2023-24,Sec-I-(VI)-1-e,)			Only	0	
10.00	Running Metre		xii) for 900 mm dia	Rs.	5323.00	Rupees Five Thousand Three Hundred Twenty Three Only	Running Metre	53230.00
10.00	Running Metre		xiii) for 1000 mm dia	Rs.	5875.30	Rupees Five Thousand Eight Hundred Seventy Five and Thirty	Running Metre	58753.00
10.00	Running Metre		xiv)for 1200 mm dia	Rs.	11138.30	Rupees Eleven Thousand One Hundred Thirty Eight and Thirty Paise Only	Running Metre	111383.00
55.00	Number	A-19	Providing and constructing on sewer,Fly Ash Brick masonry circular manhole concentric cone 0.9 M dia. at bottom and 0.5 M dia. at top and upto a depth of 1.00 M, with 15cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 1.0 M with 0.23m. thk. BM in CM 1:6 proportion with 12 mm thick inside & 20 mm thick on outer- side plaster with fine cement smooth finish in CM 1:4, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered), 15cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.As per Rate Analysis.(For both side plaster Use natural sand & For other work VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	17055.30	Rupees Seventeen Thousand Fifty Five and Thirty Paise Only	Number	938041.50
28.00	Number	A-20	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 1.2 M dia. at bottom and 0.5 M dia. at top and upto a depth of 2.00 M with 25 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 2.00 M with 0.23 M thick in CM 1:4 proportion excluding excavation with 12 mm thick on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:3, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered),,15cm thk C.C.1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in- charge.(MJP, SSR 2023-24, SEC-I(XX)-6,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	Rs.	30138.60	Rupees Thirty Thousand One Hundred Thirty Eight and Sixty Paise Only	Number	843880.80

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
6.00	Number	A-21	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 1.5 M dia. at bottom and 0.5 M dia. at top and upto a depth of 5.0 M with 25 cm thick CC 1:2:4 bed concrete Fly Ash Brick masonry in Conical shape for 2.0M with 0.23m thk & 3.0 M depth of Vertical Cylinder with 0.35 M thick Fly Ash Brick masonry in CM 1:4 proportion with 20 mm thick on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:2, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered),,15cm thk 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.(MJP, SSR 2023-24, SEC-I(XX)-7,)(Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	82847.30	Rupees Eighty Two Thousand Eight Hundred Forty Seven and Thirty Paise Only	Number	497083.80
8.00	Number	A-22	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole with concentric cone 1.80 M dia. at bottom and 0.5 M dia. at top and upto a depth of 9.0 M with 25 cm thick CC 1:2:4 bed concrete,& Fly Ash Brick masonry with 23 cm brick work in conical shape upto depth of 2.50 M from top and balance in cylindrical shape 35 cm thick brick work for depth of 2.35 M depth upto 5.0 M, with M:20 Concrete for RCC Beam size of 350x150mm thk.with reinfocement steel 3nos. Tor 10 @ Bottom & 3Nos. Tor 8 @ top stirrups Tor 8@150c/c, rest on the top of 350mm thk. brick work, and 45 cm thick brick work 3.85m.for remaining depth upto 9.00 M with M:20 Concrete for RCC Beam size of 450x150mm thk.with reinfocement steel 3nos. Tor 10 @ Bottom & 3Nos. Tor 8 @ top stirrups Tor 8@150c/c, rest on the top of 450mm thk. brick work, in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:3 proportion excluding excavation, including foundation concrete 250 mm thick and haunches and channels in c.c.1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical. (Staggered) 15cm thk 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge As per Rate Analysis.(Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	273164.60	Rupees Two lakh Seventy Three Thousand One Hundred Sixty Four and Sixty Paise Only	Number	2185316.80

B. D. SOMANI & CO.
PARMERVATH SIGN

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
14.00	Number	A-23	Providing and constructing on sewer, Fly Ash Brick masonry manhole Rectangle of size 600 x 450 mm and upto a depth of 900 mm with 15 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry & with 23 cm brick work in CM 1:6proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, 15 cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 600 x 450 mm etc. complete as directed by Engineer-in-charge. (MJP, SSR 2023-24,Sec-I(XX)-3-A,) (Use VSI(Vertical Shaft Impact) sand finely	Rs.	10326.40	Rupees Ten Thousand Three Hundred Twenty Six and Forty Paise Only	Number	144569.60
152.00	Number	A-24	Providing and constructing on sewer, Fly Ash Brick masonry manhole Rectangle of size 600 x 900 mm and upto a depth of 900 mm with 15 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry & with 23 cm brick work in CM 1:6,proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, 15 cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 600 x 900 mm etc. complete as directed by Engineer-in-charge.As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	16803.50	Rupees Sixteen Thousand Eight Hundred Three and Fifty Paise Only	Number	2554132.00
5.00	Running Metre	A-25	Constructing additional depth/ Rebate for Manhole of 900mm Dia. & above/below 1000 mm. depth to cover variations with 230mm.thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered) As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	12238.90	Rupees Twelve Thousand Two Hundred Thirty Eight and Ninety Paise Only	Running Metre	61194.50
2.50	Running Metre	A-26	Constructing additional depth or Manhole of 1200mm Dia. & above / Rebate 2000 mm. depth with 230mm.thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered), (MJP, SSR 2023-24, Sec-I(XX)-6-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	Rs.	7549.90	Rupees Seven Thousand Five Hundred Forty Nine and Ninety Paise Only	Running Metre	18874.75
2.50	Running Metre	A-27	Constructing additional / Rebate depth for Manhole of 1500mm Dia. & below 5000 mm. depth with 350mm.thick Fly Ash Brick masonry work in CM 1:6,proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered), (MJP, SSR 2023-24, Sec- I(XX)-7-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	Rs.	16411.90	Rupees Sixteen Thousand Four Hundred Eleven and Ninety Paise Only	Running Metre	41029.75

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
1140.00	Running Metre		ix) for 600 mm dia	Rs.	2886.20	Rupees Two Thousand Eight Hundred Eighty Six and Twenty	Running Metre	3290268.00
			R.C.C.NP-IV Class (MJP, SSR 2023-24,Sec-I-(VI)-1-e,)			Only	0	
10.00	Running Metre		xii) for 900 mm dia	Rs.	5323.00	Rupees Five Thousand Three Hundred Twenty Three Only	Running Metre	53230.00
10.00	Running Metre		xiii) for 1000 mm dia	Rs.	5875.30	Rupees Five Thousand Eight Hundred Seventy Five and Thirty	Running Metre	58753.00
10.00	Running Metre		xiv)for 1200 mm dia	Rs.	11138.30	Rupees Eleven Thousand One Hundred Thirty Eight and Thirty Paise Only	Running Metre	111383.00
55.00	Number	A-19	Providing and constructing on sewer,Fly Ash Brick masonry circular manhole concentric cone 0.9 M dia. at bottom and 0.5 M dia. at top and upto a depth of 1.00 M, with 15cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 1.0 M with 0.23m. thk. BM in CM 1:6 proportion with 12 mm thick inside & 20 mm thick on outer- side plaster with fine cement smooth finish in CM 1:4, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered), 15cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.As per Rate Analysis.(For both side plaster Use natural sand & For other work VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	17055.30	Rupees Seventeen Thousand Fifty Five and Thirty Paise Only	Number	938041.50
28.00	Number	A-20	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 1.2 M dia. at bottom and 0.5 M dia. at top and upto a depth of 2.00 M with 25 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry in Conical shape for 2.00 M with 0.23 M thick in CM 1:4 proportion excluding excavation with 12 mm thick on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:3, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered),,15cm thk C.C.1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in- charge.(MJP, SSR 2023-24, SEC-I(XX)-6,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	Rs.	30138.60	Rupees Thirty Thousand One Hundred Thirty Eight and Sixty Paise Only	Number	843880.80

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
6.00	Number	A-21	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 1.5 M dia. at bottom and 0.5 M dia. at top and upto a depth of 5.0 M with 25 cm thick CC 1:2:4 bed concrete Fly Ash Brick masonry in Conical shape for 2.0M with 0.23m thk & 3.0 M depth of Vertical Cylinder with 0.35 M thick Fly Ash Brick masonry in CM 1:4 proportion with 20 mm thick on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:2, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical (Staggered),,15cm thk 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc. complete as directed by Engineer-in-charge.(MJP, SSR 2023-24, SEC-I(XX)-7,)(Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	82847.30	Rupees Eighty Two Thousand Eight Hundred Forty Seven and Thirty Paise Only	Number	497083.80
8.00	Number	A-22	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole with concentric cone 1.80 M dia. at bottom and 0.5 M dia. at top and upto a depth of 9.0 M with 25 cm thick CC 1:2:4 bed concrete,& Fly Ash Brick masonry with 23 cm brick work in conical shape upto depth of 2.50 M from top and balance in cylindrical shape 35 cm thick brick work for depth of 2.35 M depth upto 5.0 M, with M:20 Concrete for RCC Beam size of 350x150mm thk.with reinfocement steel 3nos. Tor 10 @ Bottom & 3Nos. Tor 8 @ top stirrups Tor 8@150c/c, rest on the top of 350mm thk. brick work, and 45 cm thick brick work 3.85m for remaining depth upto 9.00 M with M:20 Concrete for RCC Beam size of 450x150mm thk.with reinfocement steel 3nos. Tor 10 @ Bottom & 3Nos. Tor 8 @ top stirrups Tor 8@150c/c, rest on the top of 450mm thk. brick work, in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick plaster with fine cement smooth finish on outer side in CM 1:3 proportion excluding excavation, including foundation concrete 250 mm thick and haunches and channels in c.c.1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg. at every 40cm c/c horizontal & vertical. (Staggered) 15cm thk 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm.dia. etc. complete as directed by Engineer-in-charge.As per Rate Analysis.(Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	273164.60	Rupees Two lakh Seventy Three Thousand One Hundred Sixty Four and Sixty Paise Only	Number	2185316.80

B. D. SORATHIA & CO
PARTNER / AUTH. SIGN

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
14.00	Number	A-23	Providing and constructing on sewer, Fly Ash Brick masonry manhole Rectangle of size 600 x 450 mm and upto a depth of 900 mm with 15 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry & with 23 cm brick work in CM 1:6proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, 15 cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 600 x 450 mm etc. complete as directed by Engineer-in-charge. (MJP, SSR 2023-24,Sec-I(XX)-3-A,) (Use VSI(Vertical Shaft Impact) sand finely	Rs.	10326.40	Rupees Ten Thousand Three Hundred Twenty Six and Forty Paise Only	Number	144569.60
152.00	Number	A-24	Providing and constructing on sewer, Fly Ash Brick masonry manhole Rectangle of size 600 x 900 mm and upto a depth of 900 mm with 15 cm thick CC 1:2:4 bed concrete, Fly Ash Brick masonry & with 23 cm brick work in CM 1:6,proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, 15 cm thk C.C.1:2:4 coping for providing and fixing approved make and quality S.F.R.C. frame and cover of 600 x 900 mm etc. complete as directed by Engineer-in-charge.As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	16803.50	Rupees Sixteen Thousand Eight Hundred Three and Fifty Paise Only	Number	2554132.00
5.00	Running Metre	A-25	Constructing additional depth/ Rebate for Manhole of 900mm Dia. & above/below 1000 mm. depth to cover variations with 230mm thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered) As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	12238.90	Rupees Twelve Thousand Two Hundred Thirty Eight and Ninety Paise Only	Running Metre	61194.50
2.50	Running Metre	A-26	Constructing additional depth or Manhole of 1200mm Dia. & above / Rebate 2000 mm. depth with 230mm thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every 40cm c/c horizontal & vertical (Staggered), (MJP, SSR 2023-24, Sec-I(XX)-6-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	Rs.	7549.90	Rupees Seven Thousand Five Hundred Forty Nine and Ninety Paise Only	Running Metre	18874.75
2.50	Running Metre	A-27	Constructing additional / Rebate depth for Manhole of 1500mm Dia. & below 5000 mm. depth with 350mm thick Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, providing C.I. dapuri type steps at every [illegible] horizontal & vertical (Staggered), (MJP, SSR 2023-24, [illegible]) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	Rs.	16411.90	Rupees Sixteen Thousand Four Hundred Eleven and Ninety Paise Only	Running Metre	41029.75

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
2.00	Running Metre	A-28	Constructing additional / Rebate depth for Manhole of 1800mm Dia & below 9000 mm depth with 450mm thick Fly Ash Brick masonry work up to 2.50m in CM 1:6 proportion with 12 mm thick smooth plaster on inside [illegible] thick on outer side in CM 1:3, providing C.I. dap[illegible]ps at every 40cm c/c horizontal & vertical (Sta[illegible]er Rate Analysis. (For both side plaster Use natural sand [illegible]r work VSI sand finely washed etc.)	Rs.	35216.60	Rupees Thirty Five Thousand Two Hundred Sixteen and Sixty Paise Only	Running Metre	70433.20
4.00	Running Metre	A-29	Constructing additional depth or Manhole of 450x600x900 above 900 mm depth with 230mm. Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3. (MJP, SSR 2023-24, Sec-I(XX)-3-A-a,) (Use VSI (Vertical Shaft Impact) sand finely washed etc.)	Rs.	5208.70	Rupees Five Thousand Two Hundred Eight and Seventy Paise Only	Running Metre	20834.80
56.25	Running Metre	A-30	Constructing additional depth or Manhole of 900x600x900 above 900 mm depth with 230mm. Fly Ash Brick masonry work in CM 1:6 proportion with 12 mm thick smooth plaster on inside & 20 mm thick on outer side in CM 1:3, As per Rate Analysis. (Use VSI(Vertical Shaft Impact) sand finely washed etc.)	Rs.	13415.60	Rupees Thirteen Thousand Four Hundred Fifteen and Sixty Paise Only	Running Metre	754627.50
6665.37	Cubic Meter	A-31	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc. complete. (MJP, SSR 2023-24, Sec-E-15)	Rs.	96.60	Rupees Ninety Six and Sixty Paise Only	Cubic Meter	643874.60
		A-32	Providing and fixing in position steel fiber reinforced concrete (S.F.R.C.) frame and covers of approved make including loading, unloading, transportation, all taxes, etc. complete as directed by Engineer-in-charge (20 tones capacity)			Only	0	
			(MJP, SSR 2023-24, Sec-I(XX)-17,)			Only	0	
10.00	Number		i) 540 Dia.	Rs.	3665.60	Rupees Three Thousand Six Hundred Sixty Five and Sixty Paise Only	Number	36656.00
170.00	Number		ii) 560 Dia.	Rs.	4797.50	Rupees Four Thousand Seven Hundred Ninety Seven and Fifty Paise Only	Number	815575.00
5.00	Number		iii) 90x45 cm	Rs.	3665.60	Rupees Three Thousand Six Hundred Sixty Five and Sixty Paise Only	Number	18328.00
12.00	Number		iv) 90x60 cm	Rs.	3973.20	Rupees Three Thousand Nine Hundred Seventy Three and Twenty Paise Only	Number	47678.40
5.00	Number		v) 60 x 60 cm	Rs.	3628.80	Rupees Three Thousand Six Hundred Twenty Eight and Eighty Paise Only	Number	18144.00

B. D. SONTHALIA & CO.
PANIHATI, 24PGS

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
5.00	Number		vi) 60 x 45 cm	Rs.	3144.80	Rupees Three Thousand One Hundred Forty Four and Eighty	Number	15724.00
13.50	Cubic Meter	A-33	Cleaning or Desilting B.B.M. of various dia chamber on sewer including removing matarial upto a distance of 50.0M for all lifts as directed by Engineer-in-charge etc. complete	Rs.	234.20	Rupees Two Hundred Thirty Four and Twenty Paise Only	Cubic Meter	3161.70
200.00	Running Metre	A-34	Cleaning the R.C.C. choked up pipes of diameter from 200 mm to 450 mm including removing matarial upto adistance of 50.0M for all lifts as directed by Engineer-in-charge.	Rs.	54.50	Rupees Fifty Four and Fifty Paise Only	Running Metre	10900.00
		A-35	Cleaning the R.C.C. choked up pipes by using bucket machine and rodding machine including removing matarial upto adistance of 50.0M for all lifts in different places during cleaning operation all labour and safety precaution should be taken by maintainance contractor himself (i.e. suitable gas masks, gas detection driving prompt etc.) during cleaning operation in any damages done by the contractor shall be repaired by the contractor with his own cost. To clean the existing drain line bucket and rodding machine will not be given by department & if machinary provided by department charges will recovered from bill. Diversion of sewerage water any necessary excavation if necessary should be done by the contractor at his cost during the work necessary action for cleaning line traffic permission and proper precautions should be taken by contractorafter completion of a cleaning operation by contractor has to test the line in precence of enginreer- in-charge. (As per Rate Analysis)			Only	0	
500.00	Running Metre		For 200mm to 600mm dia RCC drain line	Rs.	158.70	Rupees One Hundred Fifty Eight and Seventy Paise Only	Running Metre	79350.00
250.00	Running Metre		For above 600mm to 1000mm dia RCC drain line	Rs.	238.10	Rupees Two Hundred Thirty Eight and Ten Paise Only	Running Metre	59525.00
100.00	Running Metre		For above 1000mm dia RCC drain line	Rs.	317.40	Rupees Three Hundred Seventeen and Forty Paise Only	Running Metre	31740.00
52101.24	Cubic Meter	A-36	Excavation for roadway in earth, soil of all sorts, sand, gravel or soft murum including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. and spreading for embankment or stacking as directed.	Rs.	125.00	Rupees One Hundred Twenty Five Only	Cubic Meter	6512654.81
11658.21	Cubic Meter	A-37	Excav[illegible]adway in hard murum and boulder including dressing sectio[illegible]red grade, camber and side slopes and conveying the excav[illegible]s with all lifts upto a lead of 50m.and spreading for embank[illegible]cking as directed	Rs.	145.90	Rupees One Hundred Forty Five and Ninety Paise Only	Cubic Meter	1700933.28
1042.02	Cubic Meter	A-38	Excavation for roadway in soft rock, including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of 50m. And spreading or stacking as directed.	Rs.	185.80	Rupees One Hundred Eighty Five and Eighty Paise Only	Cubic Meter	193608.20

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
521.01	Cubic Meter	A-39	Excavation for roadway in hard rock by wedging and chiselling or line drilling including dressing section to the required grade, camber and side slopes and conveying the excavated materials with all lifts upto a lead of [illegible] spreading for embankment or stacking as directed.	Rs.	1490.00	Rupees One Thousand Four Hundred Ninety Only	Cubic Meter	776308.45
5.00	Cubic Meter	A-40	Exc[illegible]atch / side water gutter in all sorts of soils to the spec[illegible] including stacking the excavated stuff in a regular bund and [illegible]sposing of unsuitable or excess stuff as directed all sorts of soils.	Rs.	125.00	Rupees One Hundred Twenty Five Only	Cubic Meter	625.00
61825.02	Cubic Meter	A-41	Conveying materials obtained from road cutting upto lead of 5 .00 km including all lifts, laying in layers, breaking clods, dressing to the required lines, curves, grades and section from the site of excava-tion to the site of deposition as directed .	Rs.	264.80	Rupees Two Hundred Sixty Four and Eighty Paise Only	Cubic Meter	16371266.56
20.00	Cubic Meter	A-42	Providing Earth work in embankment with approved material ob-tained from Govt. land with 50 m lead, by using laying in lay-ers, breaking clods, dressing to required lines curves grade, and section watering and compaction complete. (a) 95% proctor densi-ty. Spec.No. : M.O.S.T. 1995 Cl.No.305	Rs.	236.30	Rupees Two Hundred Thirty Six and Thirty Paise Only	Cubic Meter	4726.00
100.00	Cubic Meter	A-43	Providing earth work in embankment with approved materials obtained from other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with vibratory roller with V-Sat attachment to achieve not less than 97 % of standard proctor density etc. complete (Material obtained from Other sources)	Rs.	1263.20	Rupees One Thousand Two Hundred Sixty Three and Twenty Paise Only	Cubic Meter	126320.00
5829.11	Cubic Meter	A-44	Supplying hard murum/ kankar at the road site, including conveying and stacking complete. Sp. No. Rd. 23 P.No. 202	Rs.	925.10	Rupees Nine Hundred Twenty Five and Ten Paise Only	Cubic Meter	5392506.42
5829.11	Cubic Meter	A-45	Spreading hard murum for side width etc. complete	Rs.	83.00	Rupees Eighty Three Only	Cubic Meter	483815.84
58291.07	Square Metre	A-46	Compacting the hard murum side widths including laying in layers on each side with power roller including artificial watering etc. complete.	Rs.	22.10	Rupees Twenty Two and Ten Paise Only	Square Metre	1288232.54
11658.21	Cubic Meter	A-47	Construction of granular subbase by providing close graded Material,mixing in a mechanical mixplant at OMC,carriage of mixed Material to work site, spreading in uniform layers with motor grader/Paver on prepared surface and compacting with vibratory roller to achieve the desired density,complete as per clause 401 -- Plant Mix Method and Grading - I Material	Rs.	2740.50	Rupees Two Thousand Seven Hundred Forty and Fifty Paise Only	Cubic Meter	31949332.73

B. D. SORATHIA & CO
PARTNER / AUTH SIGN

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
3006.00	Cubic Meter	A-48	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Intelligent Compactor with compaction analyzer and V Sat attachment to the required density. Grading I (Using Screening Type A (13.2) mm Aggregate)	Rs.	3059.60	Rupees Three Thousand Fifty Nine and Sixty Paise Only	Cubic Meter	9197157.60
1503.00	Cubic Meter	A-49	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing to proper grade and camber, applying and brooming requisite type of screening/ binding Materials to fill up the interstices of coarse aggregate, watering and compacting with Intelligent Compactor with compaction analyzer and V Sat attachment to the required density. Grading II (Using Screening Type B (11.2 mm) Aggregate)	Rs.	3005.60	Rupees Three Thousand Five and Sixty Paise Only	Cubic Meter	4517416.80
9562.77	Cubic Meter	A-50	Wet Mix Macadam -- Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Laying By Grader/Paver.	Rs.	2765.50	Rupees Two Thousand Seven Hundred Sixty Five and Fifty Paise Only	Cubic Meter	26445830.06
5.00	Cubic Meter	A-51	Providing and layingin PCC M15 grade leveling course below approach slab complete With fully automatic microprocessor PLC with SCADA enabled reversible drum type mixer/concrete batch mix plant (panmixer) asper drawingsand Technical specifications etc. complete with fine agreegates of required specifications (VSI sand finely washed etc)	Rs.	6924.80	Rupees Six Thousand Nine Hundred Twenty Four and Eighty Paise Only	Cubic Meter	34624.00
15.00	Cubic Meter	A-52	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, , cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixing in a batching plant/ Weigh batch mixer, transported to site with all leads and lifts, laid with a paver with electronic sensor /by suitable means as approved by Engineer-in-charge , compacting with vibratory roller, finishing, curing and including preparation of sub-grade surface if required etc. complete. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	Rs.	4492.00	Rupees Four Thousand Four Hundred Ninety Two Only	Cubic Meter	67380.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
5.00	Cubic Meter	A-53	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneissmetal for R.C.C. beams and lintels as per detailed designs and drawings or as directed including steel centering, formwork, layer blocks, laying/ pumping, compaction and roughening the surface if special finish is to be provided and curing etc.complete. (Excluding reinforcement and structural steel). with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Panmixer) etc. complete.Withfine aggregate (Crushed sand VSI Grade)	Rs.	13505.60	Rupees Thirteen Thousand Five Hundred Five and Sixty Paise Only	Cubic Meter	67528.00
0.10	Metric Tonne	A-54	Providing and fixing in position TMT - FE - 500 bar reinforcement of various diameters for R.C.C. pile caps, footings, foundations, slabs, beams columns, canopies, staircase, newels, chajjas, lintels pardis, copings, fins, arches etc. as per detailed designs, drawings and schedules. including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required complete.	Rs.	94188.10	Rupees Ninety Four Thousand One Hundred Eighty Eight and Ten Paise Only	Metric Tonne	9418.81
100.00	Square Metre	A-55	Providing and laying 125 micron Low Density Polyethylene (LDPE) sheet confirming to IS 3395 : 1997 below concrete pavement including all materials and labour complete.	Rs.	31.50	Rupees Thirty One and Fifty Paise Only	Square Metre	3150.00
30.00	Cubic Meter	A-56	Providing and laying in-situ M40 Grade un-reinforced plain cement concrete pavement over a prepared sub base with 43 grade cement , coarse and fine aggregate (natural sand/ VSI grade finely washed crushed sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, admixtures, spreading, laying compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound /by providing cement vata in cement Mortar 1:8 @0.6m X 0.6m centre to centre, admeasuring 80 mm at bottom and 40 mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge. with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	Rs.	8974.80	Rupees Eight Thousand Nine Hundred Seventy Four and Eighty Paise Only	Cubic Meter	269244.00
10.00	Number	A-57	Providing and fixing in position TMT FE 500, 32 mm dia dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint as directed etc. complete	Rs.	564.90	Rupees Five Hundred Sixty Four and Ninety Paise Only	Number	5649.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
10.00	Number	A-58	Providing and fixing in position TMT FE 500, 25 mm dia dowel bars precoated with anticorrosive epoxy paint of required Dia. 60 cms. Long and at 30.00 cm. C/C and wherever directed including handling, straightening, necessary cutting supported by TMT FE 500, chairs with proper alignment by using properly designed assembly of Bulkheads lubricating half length with bituminous paint as directed etc. complete	Rs.	413.70	Rupees Four Hundred Thirteen and Seventy Paise Only	Number	4137.00
20.00	Running Metre	A-59	Cutting transverse contraction joints 3 to 4 mm wide and depth 60mm. in concrete slab using concrete cutting machine with diamond studded saw within 48 hours of casting of bay / slab etc. complete including subsequent widening of the groove 8 to 10 mm. wide at top having depth of 15 mm. as directed by Engineer incharge.	Rs.	79.80	Rupees Seventy Nine and Eighty Paise Only	Running Metre	1596.00
20.00	Running Metre	A-60	Providing to contraction joints polysuphide sealent (Pouring grade) confirming to BS : 5212 - 1989 into sawed groove widened at top for sealent reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam backer rod of required diameter (appraox. 25% larger than the initial 3 mOne Metric Tonneo 4 mm. joint) overlaid with bond breaking tape as per detailed drawing. Item includes cleaning the joints with water jet / air compressor and allowing joint to become thoroughly dry before sealent is applied and applying primer. (A) Contraction and longitudinal joints (15 mm. deep x 8 mm wide)	Rs.	326.60	Rupees Three Hundred Twenty Six and Sixty Paise Only	Running Metre	6532.00
10.00	Square Metre	A-61	Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete.	Rs.	1140.30	Rupees One Thousand One Hundred Forty and Thirty Paise Only	Square Metre	11403.00
5.00	Running Metre	A-62	Providing and casting insitu or precast tapering R.C.C.M-20 Mountable type Kerb without gutter (asper IRC861983) embedded 125mm below ground level over M-10 PCC finished neatly with C.M. 1:2, setting the same in C.M. 1:2, including the required excavation in any strata and removing the excavated stuff anywhere incity and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	Rs.	516.60	Rupees Five Hundred Sixteen and Sixty Paise Only	Running Metre	2583.00
		A-63	P/L and fixing precast Cement concrete M-20 grade kerb stone of following sizes grade concrete including manufacturing, supplying to the site, fixing in position, with prepared bed of,packing by surrounding pcc upto 100 mm ht with M-10 PCC 80mm thick, filling joints with cement, coloring with one coat primer & flat oil paint in two coats as per directed by engineer in charge etc complete (As per R.A.)	Rs.				
5010.00	Running Metre		Size- Length 300 mm, Height 750mm, Top Width 125 mm, Bottom width 200 mm, Chamfer Height 300 mm	Rs.	1618.50	Rupees One Thousand Six Hundred Eighteen and Fifty Paise Only	Running Metre	8108685.00

B. D. SORATHIA & CO.
PARTNER/AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
100.00	Running Metre		Size- Length 400 mm, Height 450mm, Width 125mm, Chamfer Height 450 mm	Rs.	788.00	Rupees Seven Hundred Eighty Eight Only	Running Metre	78800.00
20.00	Square Metre	A-64	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 60 mm thickness of having a strength of 300 Kilogram/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete	Rs.	978.60	Rupees Nine Hundred Seventy Eight and Sixty Paise Only	Square Metre	19572.00
50.00	Square Metre	A-65	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 mm thickness of having a strength of 300 Kilogram/Sq.cm. of approved quality and shape on a bed of crushed sand of 25 to 30 mm thick including skirting joints and cleaning etc. complete	Rs.	1238.00	Rupees One Thousand Two Hundred Thirty Eight Only	Square Metre	61900.00
100.00	Square Metre	A-66	Providing and laying 75mm thick compacted Modified Pentration Macadam with VG-30 bitumen over existing WBM surface including picking the road metalled surface, thoroughly cleaning the WBM surface by using mechanical broom or approved equipment, spreading 40mm size metal (30% Crushed metal +70% Hand broken) by brining blasted rubble on site of work) at the rate of 0.09Cum/Sqm Compacting metal with roller and bitumen is them spread at rate of 2kg/ sqm. Spreading 12mm metal at rate of 0.018 Cum,/Sqm The surface shall be lightly rolled so that metal pieces ge embeded in the bitumen layer and rolling shall continre until entire surface is throughly compacted etc. complete. (With Vibratory Roller including diversion road) Spec. No. As directed bty Engineer- in - charge.	Rs.	362.60	Rupees Three Hundred Sixty Two and Sixty Paise Only	Square Metre	36260.00
100.00	Square Metre	A-67	Providing and laying 75mm thick compacted Modified Pentration Macadam with VG-30 bitumen over existing BT surface including picking the road metalled surface, thoroughly cleaning the BT surface by using mechanical broom or approved equipment, spreading 40mm size metal (30% Crushed metal +70% Hand broken) by brining blasted rubble on site of work) at the rate of 0.09Cum/Sqm Compacting metal with roller and bitumen is them spread at rate of 2kg/ sqm. Spreading 12mm metal at rate of 0.018 Cum,/Sqm The surface shall be lightly rolled so that metal pieces ge embeded in the bitumen layer and rolling shall continre until entire surface is throughly compacted etc. complete. (With Vibratory Roller including diversion road) Spec. No. As directed bty Engineer- in - charge.	Rs.	361.20	Rupees Three Hundred Sixty One and Twenty Paise Only	Square Metre	36120.00
378252.81	Square Metre	A-68	Providing and applying tack coat on the prepared surface heating by fames in Boiler and spraying bitumen set footed in bitumen boller on B.T. surface 5 kg/10 sqm. (VG 30 bulk bitumen rates are considered to arrive at rates) Spec.Rd.47.3.3 Page No. 224	Rs.	33.60	Rupees Thirty Three and Sixty Paise Only	Square Metre	12709294.42

B. D. SORATHIA & CO
PARTNER / AUTH

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
38251.07	Square Metre	A-69	Prime coat - Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including cleaning of road surface and spraying, primer at the rate of 10.0 kg/sqm using mechanical means.	Rs.	60.80	Rupees Sixty and Eighty Paise Only	Square Metre	2325664.75
22.00	Cubic Meter	A-70	BITUMINOUS MACADAM 3.00 % : Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS, laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 3.00 % using specified grade of Bitumen. -- USING batch Mix type hot mix plant with SCADA, Sensor Paver, vibratory roller. (VG30 bulk bitumen rates are considered to arrive at rates)	Rs.	8496.20	Rupees Eight Thousand Four Hundred Ninety Six and Twenty Paise Only	Cubic Meter	186916.40
4519.22	Cubic Meter	A-71	BITUMINOUS MACADAM 3.50 %: Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 3.50 % VG-30 Bitumen. - USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V- Sat attachment.	Rs.	9095.60	Rupees Nine Thousand Ninety Five and Sixty Paise Only	Cubic Meter	41105033.01
7565.06	Cubic Meter	A-72	DENSE BITUMINOUS MACADAM 4.50%: Proving and laying bituminous macadam using crushed aggregates of Grading 2, premixed with bituminous binder, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for 50/75 mm compacted thickness with 4.50 % VG-30 Bitumen. - USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V- Sat attachment.	Rs.	11105.50	Rupees Eleven Thousand One Hundred Five and Fifty Paise Only	Cubic Meter	84013731.63
5043.37	Cubic Meter	A-73	BITUMINOUS CONCRETE 6.25 %:- Providing and laying bituminous concrete using crushed aggregates of grading 2, premixed with bituminous binder @ 6.25 per cent by weight of total mix and filler, transported to site with VTS , laid over a previously prepared surface, finished to the required grade, level, alignment, and rolling to achieve the desired compaction for30/40 mm compacted thickness with VG-30 Bitumen,Excluding prime / tack coat. For Bitumen VG-30 bulk -- USING batch mix type hot mix plant with SCADA, Sensor Paver, Intelligent Compactor with compaction analyzer and V-Sat attachment with Stone Dust filler Spec No.: MOST 1995 Cl.No.511	Rs.	13468.80	Rupees Thirteen Thousand Four Hundred Sixty Eight and Eighty Paise Only	Cubic Meter	67928152.63

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
0.00	Cubic Meter	A-74	White topping or concrete overlay for urban roads: Construction of Thin White Topping plain cement concrete pavement of M-40 grade over a prepared sub base with 43 grade cement, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25mm, replacing cement by fly ash to the extent of 15percent and sand by 10 percent, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread,compacted and finished in a continuous operation including provision of contraction, construction and longitudinal joints with panel size of 1mX1m, joint filler, sealant primer, joint sealant, debonding strip, dowel bar, tierod, admixtures, polypropylene fiber as approved, curing compound, finishing to lines and grades as per drawing	Rs.	8418.35	Rupees Eight Thousand Four Hundred Eighteen and Thirty Five Paise Only	Cubic Meter	0.00
1098.37	Kilogram	A-75	Supplying and adding Organosilane Nanotechnology Additive (such as Zycotherm or approved equivalent) to the bitumen binder at the Hot Mix Asphalt (HMA) plant at a dosage of 0.1% by weight of bitumen to achieve enhanced chemical bonding, complete aggregate coating, improved moisture resistance, and consistent compaction in various bituminous mixes such as Bituminous Macadam (BM), Dense Bituminous Macadam (DBM), Bituminous Concrete (BC) etc., including supply, transportation, storage, uniform blending with bitumen, testing, and all incidental operations complete in all respects as per manufacturer's specifications, relevant IRC and MORTH guidelines, and as directed and with prior approval by the Engineer-in-Charge.	Rs.	1470.00	Rupees One Thousand Four Hundred Seventy Only	Kilogram	1614607.77
		A-76	Providing and fixing on walls/ ceiling/ floor mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in PWD chowky or as directed etc. complete.	Rs.		Only	0	
450.00	Running Metre		15 mm	Rs.	279.30	Rupees Two Hundred Seventy Nine and Thirty Paise Only	Running Metre	125685.00
250.00	Running Metre		25 mm	Rs.	393.80	Rupees Three Hundred Ninety Three and Eighty Paise Only	Running Metre	98450.00
100.00	Running Metre		32 mm	Rs.	452.60	Rupees Four Hundred Fifty Two and Sixty Paise Only	Running Metre	45260.00
50.00	Running Metre		40 mm	Rs.	566.00	Rupees Five Hundred Sixty Six Only	Running	28300.00
50.00	Running Metre		50mm	Rs.	778.00	Rupees Seven Hundred Seventy Eight Only	Running Metre	38900.00
30.00	Number	A-77	Providing and making ISI Mark ferrule connection of 15 mm dia to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete.	Rs.	1310.40	Rupees One Thousand Three Hundred Ten and Forty Paise Only	Number	39312.00

B. D. SORATHIA & CO
ENGINEERING AUTHORITY

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
10.00	Number	A-78	Providing and making ISI Mark ferrule connection of 50mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete		9391.20	Rupees Nine Thousand Three Hundred Ninety One and Twenty Paise Only	Number	93912.00
		A-79	Providing , laying and fixing ,jointing Eco- drain mm SN 8 Nu-Drain Upvc pipes or of equivalent make, manufacture as per EN 13476 or equivalent as per I.S.15328 with fittings such a bends, tees coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc complete.	Rs.		Only	0	
90.00	Running Metre		110mm	Rs.	343.40	Rupees Three Hundred Forty Three and Forty Paise Only	Running Metre	30906.00
50.00	Running Metre		160mm	Rs.	533.40	Rupees Five Hundred Thirty Three and Forty Paise Only	Running Metre	26670.00
45.00	Cubic Meter	A-80	Providing fly ash brick masonry with conventional / I.S. type fly ash bricks in C.M. 1:6 in foundation and plinth including bailing out water manually striking joints, racking out joints watering and scaffolding etc. Complete	Rs.	7917.10	Rupees Seven Thousand Nine Hundred Seventeen and Ten Paise Only	Cubic Meter	356269.50
35.00	Cubic Meter	A-81	Providing coursed rubble masonry second sort of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in external walls of plinth including bailing out water manually , striking joints inside and raking out joints from outside and watering etc.complete	Rs.	13152.80	Rupees Thirteen Thousand One Hundred Fifty Two and Eighty Paise Only	Cubic Meter	460348.00
40.00	Cubic Meter	A-82	Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually , striking joints on un exposed faces and watering etc.complete.	Rs.	6140.90	Rupees Six Thousand One Hundred Forty and Ninety Paise Only	Cubic Meter	245636.00
10.00	Cubic Meter	A-83	Providing and laying Cast in situ/Ready Mix cement concrete in M-20 of trap/ granite/ quartzite/ gneiss metal for R.C.C.coping to plinth or parapet and sill of doors and windows moulded as per detailed drawings or chamfered as approved by the Engineer including steel centering, formwork, cover blocks, laying/ pumping, compacting , curing , finishing and roughening them if special finish is to be provided and curing complete. (Excluding reinforcement and structural steel).with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Rs.	8172.60	Rupees Eight Thousand One Hundred Seventy Two and Sixty Paise Only	Cubic Meter	81726.00
100.00	Square Metre	A-84	Providing internal cement plaster 20mm thick in Single coats in cement mortar 1:4 without neeru finish, to concrete, brick surface, in all positions including scaffolding and curing etc.complete.	Rs.	438.30	Rupees Four Hundred Thirty Eight and Thirty Paise Only	Square Metre	43830.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
50.00	Square Metre	A-85	Providing sand faced plaster externally in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kilogramper cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days scaffolding etc.complete.	Rs.	722.00	Rupees Seven Hundred Twenty Two Only	Square Metre	36100.00
31.37	Square Metre	A-86	Providing and applying priming coat on concrete/ masonary/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete.	Rs.	37.80	Rupees Thirty Seven and Eighty Paise Only	Square Metre	1185.84
200.00	Square Metre	A-87	Providing and applying two coats of exterior weather shield paint of approved manufacture and of approved colour to the plastered surfaces including cleaning ,preparing the plaster surface ,applying primer coat ,scaffolding if necessary and watering the surface for two days etc complete. NOTE: For Item One Number 15 to 18 prior approval of Superintending Engineer will be necessary	Rs.	309.80	Rupees Three Hundred Nine and Eighty Paise Only	Square Metre	61960.00
250.00	Square Metre	A-88	Providing and applying two coats of flat oil paint of approved colour to the old structural steel work and iron work previously painted in building including scaffolding, if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete.	Rs.	89.30	Rupees Eighty Nine and Thirty Paise Only	Square Metre	22325.00
31.37	Square Metre	A-89	Providing and applying two coats (exterior quality) of flat oil paint of approved colour and shade to the plastered surface in buildings and workshops including scaffolding if necessary, cleaning the surface and preparing surface etc. complete. (excluding primer coat	Rs.	92.40	Rupees Ninety Two and Forty Paise Only	Square Metre	2898.73
25.00	Square Metre	A-90	Providing and laying matt finish ceramic tiles of having size 30 cm x 30 cm confirming to .S.15622/2006 (group D II-A) and 7 to 8 mm thick for flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with white/colour cement slurry cleaning curing etc. complete.	Rs.	1251.90	Rupees One Thousand Two Hundred Fifty One and Ninety Paise Only	Square Metre	31297.50
50.00	Running Metre	A-91	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentiDeleted ire 0.75 mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6 mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.	Rs.	962.90	Rupees Nine Hundred Sixty Two and Ninety Paise Only	Running Metre	48145.00
10.00	Running Metre	A-92	Providing and fixing Guard Railing of 1000mm height as per Type D Drg. No. 15 dt. 20-4-79, and fixed in 40 x 40 x 6mm iron, angle embedded in 1:2:4 cement concrete bedding patti as per detailed drawing, with 3 coats of approved of yellow and black paint.	Rs.	2936.80	Rupees Two Thousand Nine Hundred Thirty Six and Eighty Paise Only	Running Metre	29368.00

B. D. SORATHIA & CO
PARTNER/AUTH

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
30.00	Running Metre	A-93	Providing railing of cast in situ R.C.C posts with (M-20) cement concrete trap / granite / quartzite / gneiss metal size 150 mm x 150 mm x 1,240 mm and horizantal 3 nos. at distance 370 mm C/C and bottom bar 150 mm above kerb as per the detailed drawings (including cost of reinforcement) scaffolding,steel centering, plywood/steel formwork etc. complete. The C.M. 1:3 plaster is considered for renderinguneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering/formwork will not be allowed).	Rs.	2623.90	Rupees Two Thousand Six Hundred Twenty Three and Ninety Paise Only	Running Metre	78717.00
25.00	Cubic Meter	A-94	Providing and laying in situ / ready mix M20 cement concrete of trap /granite /quartzite /gneiss metal for approach slab including compacting, finishing, curing etc. complete. (excluding reinforcement) (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with Natural/ VSI standard Artificial Sand, cement6.40 bags/cumt)	Rs.	8236.30	Rupees Eight Thousand Two Hundred Thirty Six and Thirty Paise Only	Cubic Meter	205907.50
2.25	Metric Tonne	A-95	Providing and fabricating structural steel work in rolled sections like joists, channels, angles, tees etc. as per detailed design and drawings or as directed including cutting, fabricating, hoisting, erecting, fixing in position making riveted / bolted /welded connections without connecting plates, braces etc. and including one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade etc. complete.	Rs.	106936.20	Rupees One lakh Six Thousand Nine Hundred Thirty Six and Twenty Paise Only	Metric Tonne	240606.45
10.00	Cubic Meter	A-96	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	Rs.	2049.00	Rupees Two Thousand Forty Nine Only	Cubic Meter	20490.00
50.00	Cubic Meter	A-97	Providing and laying in-situ M30 Grade unreinforced plain cement concrete pavement over a prepared subbas with 43 grade cement ,coarse and fine aggregate (natural sand/VSI grade finely washed crushed sand) conforming to IS383, using fine and coarse aggregates combined gradation asper Table 600-3 of MORTH Specification 2013, mixed in a batching and mixing plant/non tilting mixer and Weigh batcher as per approved mix design,admixtures, transporting to suring 80mm at bottom and 40mm at top with depth of 75mm and maintaining the same throughout curing period by any other method approved by Engineer-in-charge. with fully automaticmicro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	Rs.	8584.20	Rupees Eight Thousand Five Hundred Eighty Four and Twenty Paise Only	Cubic Meter	429210.00
50.00	Square Metre	A-98	Providing and laying telephone black / Amba White / Cadburybrown / Ruby red / Ocean Brown granite stone of 18 to 20 mm thick for door frame/ dado/ window boxing etc. On C.M. 1:6 including filling joints with polymer base filler nosing/moulding the sharp edges wherever necessary, curing, etc. complete	Rs.	4616.10	Rupees Four Thousand Six Hundred Sixteen and Ten Paise Only	Square Metre	230805.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
50.00	Running Metre	A-99	Providing and erectingc hain link fencing1.6M. height with G.I.chain link of size 50 x50mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S.Angles of 40x40x6 mm size, includind excavating pits for foundation and embedded in C.C.block of 1:4:8 mix of size 450x450x670 mm at 1.75M. c/c with iron bar 16mmdia as hold fast including welding link with angle frame at 30cmc/c withnuts and bolts and horizontal M.S. Angles at top and bottom of 25x25x5 mm size and vertical M.S. flat 35x5mm and 25x5 mm horizontal including cross support of 40x40x6mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450x450x670 mm including 3 coats of oil painting etc. complete.	Rs.	2728.00	Rupees Two Thousand Seven Hundred Twenty Eight Only	Running Metre	136400.00
10.00	Square Metre	A-100	Providing and fixing mild steel grill gate with angle iron frame 65mmx65mmx10mm with iron bars at 150mm C/C and diagonal flats as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade Weight of gate 35 Kilogram/ Smt.	Rs.	3349.50	Rupees Three Thousand Three Hundred Forty Nine and Fifty Paise Only	Square Metre	33495.00
10.00	Square Metre	A-101	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/ One SquareMetre as per drawing including fixtures, necessary weldingand painting with onecoats of anticorrosivepaint and twocoatsof oil painting complete.	Rs.	2201.80	Rupees Two Thousand Two Hundred One and Eighty Paise Only	Square Metre	22018.00
4937.91	Square Metre	A-102	Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beads on Bituminous Surface- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorizing glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.complete.	Rs.	699.30	Rupees Six Hundred Ninety Nine and Thirty Paise Only	Square Metre	3453080.46

B. D. SORATHIA & CO.
PARTNER/AUTH SIGN

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
11723.00	Number	A-103	Supplying and Fixing of Molded Shank Raised Pavement Markers / Cat's Eye made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 +/- 2 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer.The contractor shall submit a two year warranty for satisfactory field performance including stipulated retro-reflectance of the reflecting panel, to the Engineer.	Rs.	384.30	Rupees Three Hundred Eighty Four and Thirty Paise Only	Number	4505148.90
40.00	Number	A-104	Supplying of Solar Raised Pavement Markers made of polycarbonate molded body with circular shape, solar powered, LED self illumination in active mode, 360 degree illumination and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The marker shall support a load of 20000 kg tested in accordance to ASTM D 4280. The marker should be resistant to dust and water ingress according to IP 65 standards and should withstand temperatures in the range of 0 C to 70 C. Color of lighting could be provided in red or yellow (amber) as per requirement and typical frequency of blinking is 1 Hz. There should be current losses of less than 20 micro-amperes at 2.4 V in sleep-charging mode to enhance the life of the marker and a full charge should provide for a minimum autonomy of 50 hours. The height, width and length of the marker shall not be less than 10 mm x 100 mm x 100 mm. Also, the surface diameter of the marker shall not be less than 100 mm respectively. The weight of the marker shall not exceed 0.5 Kilograms. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive and complete as directed by the engineer.The contractor shall submit a two year warranty for satisfactory field performance including stipulated retroreflectance of the reflecting panel, to the Engineer.		4189.50	Rupees Four Thousand One Hundred Eighty Nine and Fifty Paise Only	Number	167580.00

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
25.00	Number	A-105	Providing and Fixing of Median Marker that are made of tough, high impact resistant, injection-molded, thermoplastic body with an isosceles trapezoidal structure of length, width and height not less than 15cm, 10cm and 10cm respectively and thickness not less than 1.8mm, the body structure shall be rounded at its acute angle, all the corners and edges. The plastic used for molding the Median Marker shall have a minimum Notched Izod Impact strength value of 600 J/m at room temperature, when tested in accordance with ASTM D256 and shall retain at least 70% of this value when subjected to accelerated weathering for 1000hrs as per ASTM G155 or UL746C. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The Median Marker shall have rectangular-shaped, fluorescent yellow color retro- reflective sheeting of size not less than 8.5cm*8.5cm and with fully reflective micro prismatic cube corners as its retro-reflective elements as per IRC 67 2010 and ASTM D4956 type XI specifications reflectivity values. The retro-reflective sheeting shall be one or both sides of the Median Marker and shall be edge protected with no exposed edges which will prevent edge lifting, vandalism, sheeting damage, etc. The Median Marker shall be fixed by a combination of epoxy adhesive and grouting.	Rs.	480.90	Rupees Four Hundred Eighty and Ninety Paise Only	Number	12022.50
50.00	Number	A-106	Road Delineators: Supplying and installation of delineators (Roadway Indicators, Hazard markers, Object markers) 80 to 100 cm high above ground level, painted black and white in 15 cm wide strips, fitted with 80x100mm rectangular or 75mm dia. Circular reflectorised panels at the top, buried or pressed into the ground and confirming to I.R.C. 79 and the drawings	Rs.	863.10	Rupees Eight Hundred Sixty Three and Ten Paise Only	Number	43155.00
50.00	Number	A-107	Providing and fixing steel pipe delineators of 10 cm. in diameter and total height of 130 cm, provided with 2 strips of white retroreflective sheeting of size 5 cm. x 32.5 cm. each fixed horizontally and 2 strips of red retroreflective sheeting each having size 5 cm. x 32.5 cm. fixed horizontally at top, with M.S. round cap having diameter 11 cm. and wire mesh at top (10 guage thick) and height of wire mesh 15 cm, M.S. hold fast 6 mm thick with 35 cm. in length, fixing the delineators in C.C. 1:4:8 concrete block of size 25 cm. x 25 cm. x 45 cm. with necessary excavation etc. complete.		1056.30	Rupees One Thousand Fifty Six and Thirty Paise Only	Number	52815.00

M/S HUA RENTAL
C.C & AUTHORISED SIGN

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
		A-108	Providing and fixing Mandatory/Regulatory sign boards in circular shape of___ mm dia made out of ___aluminum sheet bonded with white retro reflective sheeting of Class C (Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67- 2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. Class C (Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier.					
20.00	Number		600 mm dia made out of 3mm aluminum composite material	Rs.	5665.80	Rupees Five Thousand Six Hundred Sixty Five and Eighty Paise Only	Number	113316.00
20.00	Number		750 mm dia made out of 4mm aluminum composite material	Rs.	7519.10	Rupees Seven Thousand Five Hundred Nineteen and Ten Paise	Number	150382.00
		A-109	Providing and fixing Cautionary/Warning sign boards in Equilateral Triangle size of __mm made out of___mm aluminum sheet bonded with white retro reflective sheeting of Class C (Type XI Micro prismatic grade sheeting) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67- 2012 Table No 8.3 Supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with grey stove enamel paint and supported on one no. of M. S. angle iron post of size 65 mm X 65 mm X 6 mm, 3.45 m long, duly painted with with flat oil paint having alternate black and white bands of 25 cm width including G.I. fixtures etc; fixing the boards in M25 grade concrete block of size 60cm X 60cm X 75cm including transportation etc; complete. ClassC (Type XI Micro prismatic grade sheeting) shall have 10 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the contractor/supplier					
15.00	Number		600 mm made out of 3mm aluminum composite material	Rs.	4524.40	Rupees Four Thousand Five Hundred Twenty Four and Forty Paise Only	Number	67866.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
25.00	Number		750 mm made out of 4mm aluminum composite material		5205.90	Rupees Five Thousand Two Hundred Five and Ninety Paise Only	Number	130147.50
25.00	Number		900 mm made out of 4mm aluminum composite material	Rs.	6647.60	Rupees Six Thousand Six Hundred Forty Seven and Sixty Paise Only	Number	166190.00
		A-110	Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area less than 0.9 One Square Meterr made out of __mm aluminum sheet bonded with white retro reflective sheeting of Class__(Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retorefllctive symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3 supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on one no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity microprismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in original should be submitted to the Engineer in charge by the					
24.30	Square Metre		4mm aluminum composite material Class C	Rs.	13891.50	Rupees Thirteen Thousand Eight Hundred Ninety One and Fifty Paise Only	Square Metre	337563.45

PARTNER/AUTH SIGN
O/O S.D.O. SORATHIA

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
		A-111	Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area greater than 0.9 square meter made out of aluminum sheet bonded with white retro reflective sheeting of Class __(Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67-2012 Table No 8.3, supported with back support frame 25mm x 25mm x 3mm, duly painted on back side with two coats of grey stove enamel paint and supported on two no. mild steel angle iron post 75 mm x 75 mm x 6 mm, 3.5 mt long firmly fixed to the ground by means of properly designed foundation with M25 grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing The angle iron post shall be duly painted with one coat of epoxy primer and two coats of epoxy finish paints having alternate black and white bands of 25 cm width including GI fixures and transportation etc.complete.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity microprismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued					
24.30	Square Metre		4mm aluminum composite material Class C	Rs.	16722.30	Rupees Sixteen Thousand Seven Hundred Twenty Two and Thirty Paise Only	Square Metre	406351.89
		A-112	Providing and erecting Overhead signs made out of__aluminum sheet bonded with white retro reflective sheeting of Class __(Type IV High intensity micro-prismatic grade sheeting-HIP) having pressure sensitive/heat activated adhesive retoreflective specified back ground, border and back side retoreflctive symbols, letters, numerals, arrow as per IRC:67-2012, with designed back support frame of mild steel angle with vertical and lateral clearance given in clause 801 and 802, duly painted on back side with two coats of grey stove enamel paint and installed as per clause 802.6 over a designed support system of structural steel work trestles and trusses of sections and type as per structural design requirements and approved plans including painting with one coat of epoxy primer and two coats of epoxy finish paint.The nut bolts of board with angle iron post/supporting structure after fixing at site has to be electrically welded. Class B (Type IV High intensity micro-prismatic grade sheeting-HIP) sheeting shall have 7 years written warranty from the manufacturer and authorised distributor/convertor issued for field performance including the screen printed areas and cut-out sheeting and cut-out durable transparent overlay film and this warranty certificate in	Rs.		Only	0	

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
8.10	Square Metre		4mm aluminum composite material Class C	Rs.	10839.10	Rupees Ten Thousand Eight Hundred Thirty Nine and Ten Paise	Square Metre	87796.71
50.00	Running Metre	A-113	Metal Beam Crash Barrier- -Type A,W: Metal Beam Crash Barrier (Providing and erecting a W metal beam crash barrier comprising of 3mm thick corrugated sheet metal beam rail, 70 cm above road/ ground level, fixed on ISMC serieschannel vertical post,150x75x5mm spaced 2m centre to centre, 1.8m high, 1.1m below ground/ road level, all steel part sand fitments to be galvanised by hot dipprocess, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section150x75x5 mm, 330 mm long complete as per clause 810)""	Rs.	5157.60	Rupees Five Thousand One Hundred Fifty Seven and Sixty Paise Only	Running Metre	257880.00
20.00	Cubic Meter	A-114	Providing and Constructing gabion structure 1Meter hight or required section made up of soft mechanically woven hexagonal shapedG.I. wire confirming to IS 16014:2012 having zinc plus PVC coating of overall diameterof 3.7mm and tying lacing wire of 3.2 mm with edge wire confirming to overall diameter 4.4 mm edges being mechanically selvedge including placing in position, fitting neatly with trap stone rubble (15 to 23 cm) all loose ends to be securely tied (Excluding transportation) etc. complete .(In Dry condition and for under water installation extra cost to be considered)	Rs.	5271.80	Rupees Five Thousand Two Hundred Seventy One and Eighty Paise Only	Cubic Meter	105436.00
6.00	Number	A-115	Public Seating Chair. - 3 Seater Providing and Fixing 3 seater Public seating chair made of complete metal with Legs in Crome finish and seates in silver powder coating finish.	Rs.	18958.80	Rupees Eighteen Thousand Nine Hundred Fifty Eight and Eighty Paise Only	Number	113752.80
20.00	Number	A-116	Providing and fixing stainless steel bollard of steel pipe 1.00 metre long of 250 mm inner diameter and circular top plate of 350 mm diameter with 5 mm thickness on deck of jetty in cement concrete including necessary fixtures and fastening etc. complete. (Stainless steel of grade S-304)	Rs.	21916.65	Rupees Twenty One Thousand Nine Hundred Sixteen and Sixty Five Paise Only	Number	438333.00
			Part B- Water Supply					
		B-1	Providing DI Pipes (push on joints pressure pipes of DI of following class & Dia meters confirming to the Indian Standard Specification inclusive cost of jointing materials (Rubber Gasket of EPDM Quality) including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, Third Party Inspection charges of TPI agency approved by the MJP including transit insurance, Railway freight unloading from railway wagon, loading in to the truck, transportation to departmental store / site of work, unloading, stacking etc. completed as directed by Engineer-in-Charge (IS:1536:2001 for pipes & IS:158:1969 & 15:12820:1989 or latest edition / revision with amendments for rubber gaskets). (IS:8329:2000 latest version) MJP DSR Page no 53 Sr No 3					
			SECTION-I(I) C.I./D.I. PIPES (69)					

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
			D.I. K – 7					
10.00	Running Metre		i) 100 mm Dia.	Rs.	1209.00	Rupees One Thousand Two Hundred Nine Only	Running Metre	12090.00
10.00	Running Metre		ii) 150 mm Dia.	Rs.	1686.00	Rupees One Thousand Six Hundred Eighty Six Only	Running Metre	16860.00
10.00	Running Metre		iii) 200 mm Dia.	Rs.	2236.00	Rupees Two Thousand Two Hundred Thirty Six Only	Running Metre	22360.00
10.00	Running Metre		iv) 250 mm Dia.	Rs.	2906.00	Rupees Two Thousand Nine Hundred Six Only	Running Metre	29060.00
10.00	Running Metre		v) 300 mm Dia.	Rs.	3571.00	Rupees Three Thousand Five Hundred Seventy One Only	Running Metre	35710.00
10.00	Running Metre		vi) 350 mm Dia.	Rs.	4465.00	Rupees Four Thousand Four Hundred Sixty Five Only	Running Metre	44650.00
10.00	Running Metre		vii) 400 mm Dia.	Rs.	5328.00	Rupees Five Thousand Three Hundred Twenty Eight Only	Running Metre	53280.00
10.00	Running Metre		viii) 450 mm Dia.	Rs.	6346.00	Rupees Six Thousand Three Hundred Forty Six Only	Running Metre	63460.00
							0	
		B-2	Providing and supplying ISI standard CI flanged / S& S specials including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, railway freight, insurance, unloading from railway wagon, loading into truck transport to departmental store /site unloading stacking etc. complete. MJP DSR Page no 72 Sr No 6 (a)				0	
			SECTION-I(I) C.I./D.I. PIPES (70)				0	
473.47	Kilogram		D/F specials up to 300 mm	Rs.	88.00	Rupees Eighty Eight Only	Kilogram	41664.92
200.00	Kilogram		Above 350 mm upto 600 mm dia.	Rs.	94.00	Rupees Ninety Four Only	Kilogram	18800.00
				Rs.		Only	0	0.00
		B-3	Supply of C. I. Mechanical Compression Flanged / Socket Tail piece(Popularly known as I TM Flanged / Socket Tailpiece) suitable for making flanged connection with the plain barrel of C. I. Spun Pipes (as per - IS - 1536 /2001) and D. I. Pipes (as per IS: 8329 / 2000).The Tailpiec to be supplied complete with sealing rubber gasket of S.B.R.,C.I., Follower Glands and M.S. Nut Bolts.The whole assembly should be mechanically and hydraulically tested to the provisions as laid down in IS:1538 /1993. The rates are inclusive of cost of material, forwarding charges,including all statutary duties and taxes such as GST levied by GoI and GoM in all respect, loading, transportation and unloading at departemental store etc. complete as directed. Consignee but exclusive of octroi. MJP DSR Page No. 143 Sr.No. 1	Rs.		Only	0	0.00
			SECTION-I(XIII) MECHANICLA JOINTS/ FITTING (161)	Rs.		Only	0	0.00
10.00	Number		80 mm Dia.	Rs.	1311.00	Rupees One Thousand Three Hundred Eleven Only	Number	13110.00
10.00	Number		100 mm Dia.	Rs.	1430.00	Rupees One Thousand Four Hundred Thirty Only	Number	14300.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
10.00	Number		125 mm Dia.	Rs.	1800.00	Rupees One Thousand Eight Hundred Only	Number	18000.00
10.00	Number		150 mm Dia.	Rs.	2574.00	Rupees Two Thousand Five Hundred Seventy Four Only	Number	25740.00
10.00	Number		200 mm Dia.	Rs.	3335.00	Rupees Three Thousand Three Hundred Thirty Five Only	Number	33350.00
10.00	Number		250 mm Dia.	Rs.	5031.00	Rupees Five Thousand Thirty One Only	Number	50310.00
10.00	Number		300 mm Dia.	Rs.	5632.00	Rupees Five Thousand Six Hundred Thirty Two Only	Number	56320.00
10.00	Number		350 mm Dia.	Rs.	7427.00	Rupees Seven Thousand Four Hundred Twenty Seven Only	Number	74270.00
10.00	Number		400mm Dia.	Rs.	9694.00	Rupees Nine Thousand Six Hundred Ninety Four Only	Number	96940.00
10.00	Number		450mm Dia.	Rs.	11380.00	Rupees Eleven Thousand Three Hundred Eighty Only	Number	113800.00
							0	
		B-4	Supply of C.I. mechanical compression collar coupling suitable for C.I. spun pipes (as per IS-1536/2001) and complete with sealing rubber gasket of SBR, C.I., follower glands and M.S. nut bolts. The whole assembly should be mechanically and hydraulically tested to the provisions as laid down in IS:1538/1993) including all statutary duties and taxes such as GST levied by GoI and GoM in all respect,MJP DSR Page No. 143 Sr.No. 2				0	
			SECTION-I(XIII) MECHANICLA JOINTS / FITTING (161)				0	
5.00	Number		80 mm Dia.	Rs.	826.00	Rupees Eight Hundred Twenty Six Only	Number	4130.00
5.00	Number		100 mm Dia.	Rs.	886.00	Rupees Eight Hundred Eighty Six	Number	4430.00
5.00	Number		125 mm Dia.	Rs.	1181.00	Rupees One Thousand One Hundred Eighty One Only	Number	5905.00
5.00	Number		150 mm Dia.	Rs.	1593.00	Rupees One Thousand Five Hundred Ninety Three Only	Number	7965.00
5.00	Number		200 mm Dia.	Rs.	1818.00	Rupees One Thousand Eight Hundred Eighteen Only	Number	9090.00
5.00	Number		250 mm Dia.	Rs.	2914.00	Rupees Two Thousand Nine Hundred Fourteen Only	Number	14570.00
5.00	Number		300 mm Dia.	Rs.	3729.00	Rupees Three Thousand Seven Hundred Twenty Nine Only	Number	18645.00
5.00	Number		350 mm Dia.	Rs.	4597.00	Rupees Four Thousand Five Hundred Ninety Seven Only	Number	22985.00
5.00	Number		400 mm Dia.	Rs.	7154.00	Rupees Seven Thousand One Hundred Fifty Four Only	Number	35770.00
5.00	Number		450 mm Dia.	Rs.	8033.00	Rupees Eight Thousand Thirty Three Only	Number	40165.00
				Rs.		Only	0	0.00

B. D. SORATHIA & CO.
PARTNER/AUTH. SIGN

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
		B-5	Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in-charge (including cost of machinery, labour, fuel), etc complete. MJP DSR Page No. 34 Sr.No. 1				0	
50.00	Brake Horsepower per Hour		SECTION-EXCAVATION (40)	Rs.	93.45	Rupees Ninety Three and Forty Five Paise Only	Brake Horsepower per Hour	4672.50
		B-6	Providing and supplying ISI standard MS specials of required thickness with 3 coats of approved make epoxy paint (Shalimar, Ciba or Mahindra & Mahindra make) from inside and outsideincluding all statutory duties & taxes such as GST levied by GOI & GOM in all respect, inspection charges, transportation to stores / site, and stacking, etc. complete. MJP DSR Page no 72 Sr No 7 (d)					
			SECTION-I(I) C.I./D.I. PIPES (70)					
30.00	Kilogram		D/F of all diametors	Rs.	95.00	Rupees Ninety Five Only	Kilogram	2850.00
		B-7	Providing and making flanged joints to flanged C.I./M.S. pipes of all classes/specials etc. including cost of all jointing materials (rubber packing, nut bolts, etc.), labour, hydraulic testing etc. complete. MJP DSR Page No. 56 Sr.No. 8					
			SECTION-I(I)C.I./D.I.PIPES (71)					
10.00	Joint		80 mm Dia.	Rs.	331.80	Rupees Three Hundred Thirty One and Eighty Paise Only	Joint	3318.00
10.00	Joint		100 mm Dia.	Rs.	571.20	Rupees Five Hundred Seventy One and Twenty Paise Only	Joint	5712.00
10.00	Joint		150 mm Dia.	Rs.	1146.60	Rupees One Thousand One Hundred Forty Six and Sixty Paise Only	Joint	11466.00
10.00	Joint		200 mm Dia.	Rs.	1188.60	Rupees One Thousand One Hundred Eighty Eight and Sixty Paise Only	Joint	11886.00
10.00	Joint		250 mm Dia.	Rs.	1703.10	Rupees One Thousand Seven Hundred Three and Ten Paise Only	Joint	17031.00
10.00	Joint		300 mm Dia.	Rs.	1769.25	Rupees One Thousand Seven Hundred Sixty Nine and Twenty Five Paise Only	Joint	17692.50
10.00	Joint		450 mm Dia.	Rs.	3508.05	Rupees Three Thousand Five Hundred Eight and Five Paise Only	Joint	35080.50
10.00	Joint		600 mm Dia.	Rs.	3898.65	Rupees Three Thousand Eight Hundred Ninety Eight and Sixty Five Paise Only	Joint	38986.50
		B-8	Providing and making Mechanical joints to flanged C.I./M.S. pipes of all classes/specials etc. including cost of , labour, hydraulic testing etc. complete. MJP DSR Page No. Sr.No.					
			SECTION-I(I)C.I./D.I.PIPES (71)					

B. D. SORATHIA & CO.
PARTNER/AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
10.00	Joint		80 mm Dia.	Rs.	265.44	Rupees Two Hundred Sixty Five and Forty Four Paise Only	Joint	2654.40
10.00	Joint		100 mm Dia.	Rs.	456.96	Rupees Four Hundred Fifty Six and Ninety Six Paise Only	Joint	4569.60
10.00	Joint		150 mm Dia.	Rs.	917.28	Rupees Nine Hundred Seventeen and Twenty Eight Paise Only	Joint	9172.80
10.00	Joint		200 mm Dia.	Rs.	950.88	Rupees Nine Hundred Fifty and Eighty Eight Paise Only	Joint	9508.80
10.00	Joint		300 mm Dia.	Rs.	1415.40	Rupees One Thousand Four Hundred Fifteen and Forty Paise Only	Joint	14154.00
10.00	Joint		450 mm Dia.	Rs.	2806.44	Rupees Two Thousand Eight Hundred Six and Forty Four Paise	Joint	28064.40
10.00	Joint		600 mm Dia.	Rs.	3118.92	Rupees Three Thousand One Hundred Eighteen and Ninety Two	Joint	31189.20
		B-9	Cutting and champhering of pipes of following diameters including cost of all materials and labour involved, etc. complete as directed by Engineer-in-charge (for all class of pipes). MJP DSR Page No. 137 Sr.No. 20					
			SECTION-I(XII) PIPES APPURTENANCES (156)					
10.00	Number		80 mm Dia.	Rs.	52.50	Rupees Fifty Two and Fifty Paise Only	Number	525.00
10.00	Number		100 mm Dia.	Rs.	60.90	Rupees Sixty and Ninety Paise Only	Number	609.00
10.00	Number		150 mm Dia.	Rs.	94.50	Rupees Ninety Four and Fifty Paise Only	Number	945.00
10.00	Number		200 mm Dia.	Rs.	118.65	Rupees One Hundred Eighteen and Sixty Five Paise Only	Number	1186.50
10.00	Number		300 mm Dia.	Rs.	202.65	Rupees Two Hundred Two and Sixty Five Paise Only	Number	2026.50
10.00	Number		450 mm Dia.	Rs.	306.60	Rupees Three Hundred Six and Sixty Paise Only	Number	3066.00
10.00	Number		600 mm Dia.	Rs.	447.30	Rupees Four Hundred Forty Seven and Thirty Paise Only	Number	4473.00
		B-10	Lowering laying and jointing with SBR ruber gaskets C.I. S/S pipes of various classes with CI / MS specials of following diameter in proper position, grade and alignment as directed by Engineer-in-charge including conveyance of material from stores to site of work, including cost of jointing materials and rubber rings labour, etc. complete. MJP DSR Page No. 54 Sr.No. 2					
			SECTION-I(I)C.I./D.I PIPES (68)					
10	Running Metre		80mm	Rs.	61.95	Rupees Sixty One and Ninety Five Paise Only	Running Metre	619.50
10	Running Metre		100mm	Rs.	75.60	Rupees Seventy Five and Sixty Paise Only	Running Metre	756.00
10	Running Metre		150mm	Rs.	100.80	Rupees One Hundred and Eighty Paise Only	Running Metre	1008.00

B. D. SORATHIA & CO.
PARMAR RENTALS

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
10	Running Metre		200mm	Rs.	133.35	Rupees One Hundred Thirty Three and Thirty Five Paise Only	Running Metre	1333.50
10	Running Metre		300mm	Rs.	189.02	Rupees One Hundred Eighty Nine and Two Paise Only	Running Metre	1890.20
10	Running Metre		450mm	Rs.	283.50	Rupees Two Hundred Eighty Three and Fifty Paise Only	Running Metre	2835.00
10	Running Metre		600mm	Rs.	429.45	Rupees Four Hundred Twenty Nine and Forty Five Paise Only	Running Metre	4294.50
		B-11	Providing ISI mark GI. pipe of following class and dia. including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, inspection charges, transportation to stores, etc. complete as per IS-1239/2004. G.I.PIPE - medium grade MJP DSR Page no 82 Sr No 1B					
			SECTION-(III):G.I PIPES (93)					
			b) Medium					
10	Running Metre		15mm Dia.	Rs.	105.00	Rupees One Hundred Five Only	Running	1050.00
10	Running Metre		20mm Dia.	Rs.	135.00	Rupees One Hundred Thirty Five	Running	1350.00
10	Running Metre		25 mm Dia.	Rs.	206.00	Rupees Two Hundred Six Only	Running	2060.00
10	Running Metre		40 mm Dia.	Rs.	299.00	Rupees Two Hundred Ninety Nine Only	Running Metre	2990.00
10	Running Metre		50 mm Dia.	Rs.	413.00	Rupees Four Hundred Thirteen Only	Running	4130.00
		B-12	Welding in all positions with required number of runs, for M. S. pipes internally and / or externally including gauging wherever necessary, fixing appurtenances and other accessories in connection with pipe laying work as per specification. MJP DSR Page No. 194 Sr.No. 7					
			Butt joints - 10 mm thick					
30	Running Metre		SECTION-I(XVI) M. S. PIPE LAYING (186)	Rs.	1484.70	Rupees One Thousand Four Hundred Eighty Four and Seventy Paise Only	Running Metre	44541.00
		B-13	Gas cutting (either square cut or V cut) pipes, plates, etc. of thickness MJP DSR Page No. 196 Sr.No. 13					
			SECTION-I(XVI) M. S. PIPE LAYING (187)					
10	Running Metre		5 to 10 mm thickness	Rs.	156.45	Rupees One Hundred Fifty Six and Forty Five Paise Only	Running Metre	1564.50
10	Running Metre		10 to 14mm thickness	Rs.	200.55	Rupees Two Hundred and Fifty Five Paise Only	Running Metre	2005.50
		B-14	Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in C.M. 1:5 ProportionValve Chamber with Precast steel fibre reinforced concrete (S.F.R.C.) frame & covers. MJP DSR Page No. 235 Sr.No. 3					
7	Number		90x60x120 cm	Rs.	16139.55	Rupees Sixteen Thousand One Hundred Thirty Nine and Fifty Five Paise Only	Number	112976.85

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
7	30cm. depth		increase in depth of 30Cm	Rs.	2048.55	Rupees Two Thousand Forty Eight and Fifty Five Paise Only	30cm depth	14339.85
10	Number		90x90x120 cm	Rs.	20466.60	Rupees Twenty Thousand Four Hundred Sixty Six and Sixty Paise Only	Number	204666.00
10	30cm. depth		increase in depth of 30Cm	Rs.	2397.15	Rupees Two Thousand Three Hundred Ninety Seven and Fifteen Paise Only	30cm depth	23971.50
10	Number		120x120x120 cm	Rs.	25321.80	Rupees Twenty Five Thousand Three Hundred Twenty One and Eighty Paise Only	Number	253218.00
		B-15	Providing and fixing in position steel fibre reinforced concrete (S.F.R.C.) frame and covers of approved make including loading, unloading, transportation, all taxes, etc. complete as directed by Engineer-in-charge (20 tonnes capacity) MJP DSR Page No. 137 Sr.No. 17					
10	Number		90x45 cm	Rs.	3665.55	Rupees Three Thousand Six Hundred Sixty Five and Fifty Five Paise Only	Number	36655.50
10	Number		90x60 cm	Rs.	3973.20	Rupees Three Thousand Nine Hundred Seventy Three and Twenty Paise Only	Number	39732.00
		B-16	Lowering, laying and jointing G. I. pipes and specials of following class and diameter including conveyance from stores to site of works, all labour etc. complete either underground or in vertical position, as directed by Engineer-in-charge. MJP DSR Page No. 73 Sr.No. 2B					
			SECTION-I(III):G.I PIPES (94)					
10	Running Metre		15mm Dia.	Rs.	36.75	Rupees Thirty Six and Seventy Five Paise Only	Running Metre	367.50
10	Running Metre		20mm Dia.	Rs.	39.90	Rupees Thirty Nine and Ninety Paise Only	Running Metre	399.00
10	Running Metre		25 mm Dia.	Rs.	48.30	Rupees Forty Eight and Thirty Paise Only	Running Metre	483.00
10	Running Metre		40 mm Dia.	Rs.	72.45	Rupees Seventy Two and Forty Five Paise Only	Running Metre	724.50
10	Running Metre		50 mm Dia.	Rs.	85.05	Rupees Eighty Five and Five Paise Only	Running Metre	850.50
		B-17	Providing and making ISI Mark ferrule connection of 15 mm dia. to water main including ferrule coupling cast iron bell mouth cover, built in non return valve and fixing including excavation and reinstatement complete. PWD DSR Page No. 551 Sr.No. 42.72 to 42.77					
10	Number		15mm Dia.	Rs.	1310.40	Rupees One Thousand Three Hundred Ten and Forty Paise Only	Number	13104.00

M/S HIJA RENTAL PARTNER
C & D SORATHIA

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
10	Number		25 mm Dia.	Rs.	2642.80	Rupees Two Thousand Six Hundred Forty Two and Eighty Paise Only	Number	26428.00
10	Number		50 mm Dia.	Rs.	9391.20	Rupees Nine Thousand Three Hundred Ninety One and Twenty Paise Only	Number	93912.00
			Part C - Structure					
1239.00	Cubic Metre	C-1	Excavation for foundation in earth, soils of all types, sand, gravel, soft murum including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. Sp.No.BR3/102	Rs.	94.50	Rupees Ninety Four and Fifty Paise Only	Cubic Metre	117085.50
			Lift upto 3.0 m.					
			SSR I No. 12.03					
1033.00	Cubic Metre	C-2	Excavation for foundation in hard murum and boulders including shoring and strutting, dewatering as necessary and disposing off excavated stuff as directed etc. complete. SP.No. BR3/102	Rs.	253.10	Rupees Two Hundred Fifty Three and Ten Paise Only	Cubic Metre	261452.30
			I Lift upto 3.0 m					
			SSR I No. 12.04					
620.00	Cubic Metre	C-3	Excavation for foundation in soft rock including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. Sp. No. 12.08	Rs.	584.90	Rupees Five Hundred Eighty Four and Ninety Paise Only	Cubic Metre	362638.00
			SSR I No. 12.08					
564.00	Cubic Metre	C-4	Excavation for foundation in Hard rock including shoring and strutting as necessary and disposing off excavated stuff as directed etc. complete. Sp. No. 12.11	Rs.	2028.60	Rupees Two Thousand Twenty Eight and Sixty Paise Only	Cubic Metre	1144130.40
			SSR I No. 12.11					
271.00	Cubic Metre	C-5	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/ granite/ quartzite/ gneiss metal for bed blocks, foundation blocks and such other items including bailing out water, Steel centering formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surfaceand curingetc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.), with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand VSI Grade)	Rs.	7327.00	Rupees Seven Thousand Three Hundred Twenty Seven Only	Cubic Metre	1985617.00
			SSR I No. 24.04					

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

M/S HIJA \ RENTAL
B. D. SORATHIA & CO

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
684.00	Cubic Metre	C-6	Providing and laying Cast in situ/Ready Mix cement concrete M30 of trap / granite /quartzite/ gneiss metal for R.C.C. work in foundations like raft, strip foundations, grillage and footings of R.C.C. columns and steel stanchions etc. including bailing out water, formwork ,cover blocks, laying/pumping, compaction and curing roughening the surface if special finish is to be provided (Excluding reinforcement and structural steel) etc. complete, with fully automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete. With natural sand/V.S.I. quality Artificial Sand Sp. No.: .MORTH (5tH REV)1700	Rs.	9005.30	Rupees Nine Thousand Five and Thirty Paise Only	Cubic Metre	6159625.20
			SSR I No. 17.30					
1104.60	Cubic Metre	C-7	Providing and laying insitu / ready mix M-30 plaincement concrete of trap/granite/quartzite/gneiss metal for cast incitu piers,abutment, returns, wingsetc. including provision of "V" shaped false joints to form suitable panels on the faces to approve design with compacting by vibrating and curing complete, including plywood/steel formwork centering (excluding dewatering by means of pump) and including bailling out water and curing finishing in CM1:3 etc.complete. as directed by engineer in charge basic rate shall be increased for height above 5.00 m in followinh manners (a) Height upto 5 M. (With Concrete Mixer)With fine agreegatesof required specifications (VSIsandfinelywashed etc) i)Heightupto5m,normal rate. ii)Height5to7.50m,add5percentextraoverbasicrate. iii) Height 7.50 to 10 m, 7.50 percent extra. iv)Over10mHeight,add10percentextra forevery2.50m rise.	Rs.	9343.40	Rupees Nine Thousand Three Hundred Forty Three and Forty Paise Only	Cubic Metre	10320719.64
			SSR I No. 17.41					
537.00	Cubic Metre	C-8	Providing and laying in situ / ready mix M-30 controlled cement concrete of trap/ granite/ quartzite/ gneiss metal for RCC work in solid/ deck slab etc. including ramming, vibrating, curing, form work, centering and finishing in cement plaster excluding reinforcement etc. complete. (with fully automatic micro processor based PLC with SCADA enabled concrete batch mix plant / pan mixer and fine agreegates of required pecifications (VSI sand finely washed etc) i) Height up to 5 m, normal rate. Sp.No. BR38(a)/135, AND B7/38	Rs.	12301.20	Rupees Twelve Thousand Three Hundred One and Twenty Paise Only	Cubic Metre	6605744.40
			SSR I No. 14.17					

Quantity	Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
251.30	Metric Tonne	C-9	Providing, cutting, bending, hooking, tying and laying in position TMT FE 500 steel bars for reinforcement for all RCC works as per detailed drawings etc. complete. SP. NO. BR35/134	Rs.	92758.10	Rupees Ninety Two Thousand Seven Hundred Fifty Eight and Ten Paise Only	Metric Tonne	23310110.53
			(SSR. I. No.14.01					
960.00	Hour	C-10	Dewatering including diversion of stream, providing coffer dam, bunds etc. as may be necessary for foundation and other parts of work and bailing out and pumping out water during and after excavation as required.	Rs.	187.90	Rupees One Hundred Eighty Seven and Ninety Paise Only	Hour	180384.00
			D.S.R.I.NO. 12.22					
743.40	Cubic Metre	C-11	Providing Earth work in embankment by manually with approved material obtained from Government land with 50m lead, by using laying in layars, breaking clods, dressing to required lines curves grade, and section watering and compaction complete.(a) 95% proctor Density. Sp.no.Rd.12Page No. 189/M.O.S.T.1995 CI.No.305	Rs.	1263.20	Rupees One Thousand Two Hundred Sixty Three and Twenty Paise Only	Cubic Metre	939062.88
			(SSR. I. No. 2.28					
						Cost of Civil Works		**42,57,63,351.93**

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

SCHEDULE - B (Part -D Electrical)

Quantity	Unit	item No.	Description	Rate in Fig.	Rate in Words	Unit	Amount
Electrical Work							
170	Number	D-1	Supplying and erecting 9 m high (clear height) galvanised octagonal pole with foundation bolts having bottom of 155 mm A/F, top 70 mm A/F on provided foundation	21847.00	Rupees Twenty-One Thousand and Eight Hundred and Forty-Seven Only	Number	3713990.00
5	Number	D-2	Supplying and erecting galvanised 1000mm single arm sword type bracket with FRP dome and ball	2710.00	Rupees Two Thousand and Seven Hundred and Ten Only	Number	13550.00
165	Number	D-3	Supplying and erecting galvanised 1000mm double arm sword type bracket with FRP dome and ball	4500.00	Rupees Four Thousand and Five Hundred Only	Number	742500.00
1	Number	D-4	Making M-20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 1.5m depth including supply of steel, concrete, excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 6m to 8m high octagonal pole).	4873.00	Rupees Four Thousand and Eight Hundred and Seventy-Three Only	Number	4873.00
170	Number	D-5	Making M-20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 1.5m depth including supply of steel, concrete, excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 9m high octagonal pole).	6437.00	Rupees Six Thousand and Four Hundred and Thirty-Seven Only	Number	1094290.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIG.

Quantity	Unit	item No.	Description	Rate in Fig.	Rate in Words	Unit	Amount
1	Cubic meter	D-6	Providing and making platform by making excavation for foundation, situ cement concrete of M-10, uncoursed rubble masonry of trap, rubble stone soling 15cm to 20dc thick including hand packing and compacting, situ cement concrete of M20 grade trap, steel bar rainforcement of various diameters for RCC work, sand faced plaster externally in cement mortar, etc complete	11551.00	Rupees Eleven Thousand and Five Hundred and Fifty-One Only	Cubic meter	11551.00
5	Number	D-7	Supplying and erecting FRP box of size 300mm x 200mm x 125 mm, 2.7 mm thick complete on pole/wall	790.00	Rupees Seven Hundred and Ninety Only	Number	3950.00
5	Number	D-8	Supplying and erecting integrated LED street light fitting 70-75W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 7700 Lumens, min. efficacy of 110 lumen/W, CRI>70, CCT upto 6500K,THD<10%, p.f. >0.95, operating range of 140-270V, inbuilt surge protection of 10 kV, etc complete.	5753.00	Rupees Five Thousand and Seven Hundred and Fifty-Three Only	Number	28765.00
335	Number	D-9	Supplying and erecting integrated LED street light fitting 160-170W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 19000 Lumens, etc complete	11766.00	Rupees Eleven Thousand and Seven Hundred and Sixty-Six Only	Number	3941610.00
6990	Meter	D-10	Supplying and erecting FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor complete	183.00	Rupees One Hundred and Eighty-Three Only	Meter	1279170.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.	Rate in Words	Unit	Amount
260	Meter	D-11	Supplying and erecting FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor complete	215.00	Rupees Two Hundred and Fifteen Only	Meter	55900.00
3850	Meter	D-12	Supplying and erecting PVC insulated PVC round sheathed FR 1.5 sq.mm (30 no. x 0.25mm dia.) 3 core flexible multi stranded copper industrial cable for voltage grade up to 1.1 kV	70.00	Rupees Seventy Only	Meter	269500.00
500	Meter	D-13	Supplying and erecting mains with WP 2 x 6 sq. mm. 1.1kV. grade aluminium PVC insulated and PVC sheathed wires on G.I. bearer wire no. 8 SWG complete erected	85.00	Rupees Eighty-Five Only	Meter	42500.00
176	Number	D-14	Supplying, erecting & marking SPMCB 0.5A to 5A, C-series with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board	250.00	Rupees Two Hundred and Fifty Only	Number	44000.00
2	Number	D-15	Supplying and erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm., with necessary material	2075.00	Rupees Two Thousand and Seventy-Five Only	Number	4150.00
20	Meter	D-16	Making trench in Hard murum/Tar road having 0.75m depth and minimum 0.3m width for laying provided cables up to voltage level 1.1kV cable complete	219.00	Rupees Two Hundred and Nineteen Only	Meter	4380.00
6800	Meter	D-17	Supplying and erecting 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	204.00	Rupees Two Hundred and Four Only	Meter	1387200.00

B. D. SORATHIA & CO
PARMAR NEMRA \ AJAY

Quantity	Unit	item No.	Description	Rate in Fig.	Rate in Words	Unit	Amount
50	Meter	D-18	Supplying and erecting 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	333.00	Rupees Three Hundred and Thirty-Three Only	Meter	16650.00
3	Number	D-19	Supplying and erecting three phase, 415V, street light control panel upto the max load of 12kW, TPN MCB 63A, powder coated CRCA 14 SWG sheet, outdoor type, having IP54, IK10 protection suitable rating contactor, 24 hrs. astronomical time switch with minimum 5 years battery back up, auto/manual selector switch, ON/OFF push buttons, indicator lamps, control wiring, metering device, etc. complete	31461.00	Rupees Thirty-One Thousand and Four Hundred and Sixty-One Only	Number	94383.00
173	Number	D-20	Providing, installing and testing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all accessories	1537.00	Rupees One Thousand and Five Hundred and Thirty-Seven Only	Number	265901.00
1	Number	D-21	Supplying and erecting 7 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.	55100.00	Rupees Fifty-Five Thousand and One Hundred Only	Number	55100.00
1	Number	D-22	Supplying and erecting decorative double arm bracket for 7/8 m decorative pole etc	33500.00	Rupees Thirty-Three Thousand and Five Hundred Only	Number	33500.00
1	Number	D-23	Supplying and erecting decorative integral post top lantern LED fixtures of 50 W consisting with accessories on provided pole /bracket	9975.00	Rupees Nine Thousand and Nine Hundred and Seventy-Five Only	Number	9975.00
1	Number	D-24	Supplying and erecting decorative integral hanging LED fixtures of 72 W consisting with accessories on provided pole /bracket	9700.00	Rupees Nine Thousand and Seven Hundred Only	Number	9700.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Description	Rate in Fig.	Rate in Words	Unit	Amount
96.057	Kilogram	D-25	Making fabrication work using 16 gauge metal sheet including Iron work with bending, cutting, drilling and welding complete	261.00	Rupees Two Hundred and Sixty-One Only	Kilogram	25070.88
150	Number	D-26	Dismantling the existing pole above 6 m height with brackets, clamps, insulators, stay from the c.c. foundation	1043.00	Rupees One Thousand and Forty-Three Only	Number	156450.00
				Total			**13308609**

B. D. SORATHIA & CO.
PARTNER/AUTH. SIGN

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

SCHEDULE - B (Part- E MSEB)

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
Electrical Work							
4	Number	E-1	Providing and fixing inline cut point D. P. Structure for 11/0.415 kV, 200 KVA Transformer with R.S.J. Pole 2 Nos. of size 100 x 116 mm x 11 Mtr. Long with suitable Distribution Box of C.R.C.A. Sheet 16 SWG with 4 Pole MCCB 400 Amps as incomer & 6 Nos. 200 Amps Kitkat / MCCB for out going circuits. Transformer D.P. Structure includes the A. B. Switch 200 Amps, D.O. fuse Set & L.A. Set. 2 Nos.Top channel of size 100 mmx 50 mm for erection of A.B. Switch & 2 Nos. Base channel of size 100 mm x 50 x mm for erecting Transformer. Channel of size 75 x40 mm for erecting D.O. Fuse Set, L.A., A.B. Switch handle etc.Angle of size 50 x 50 x6 mm for erecting Distribution Box , Transformer Belt etc.as per drawing (min.176 Kg. iron work) with necessary clamps, Nut-bolts. V cross arm, top clip, insulators etc. complete with caution board & barbed wire.D.P. Structure shall be erected in c.c. foundation complete.	167122.00	Rupees One Lakh and Sixty-Seven Thousand and One Hundred and Twenty-Two Only	Number	668488.00
0	Number	E-2	Providing and fixing 3 phase, 11/0.433 kV, 50 Hz., 200 kVA, Mineral oil immersed and naturally cooled outdoor type, aluminium wound Non-sealed transformer, delta/star connected with additional neutral brought out on load side, etc complete	308133.00	Rupees Three Lakhs and Eight Thousand and One Hundred and Thirty-Three Only	Number	0.00
156	Meter	E-3	Providing and fixing rolled steel joist (girder) pole 152 x 152 mm (37.1kg/m) with base plate in provided foundation	2681.00	Rupees Two Thousand and Six Hundred and Eighty-One Only	Meter	418236.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
209	Meter	E-4	Providing and fixing rolled steel joist (girder) pole 100 x 116 mm (23 kg/m) with base plate in provided foundation	1840.00	Rupees One Thousand and Eight Hundred and Forty Only	Meter	384560.00
44	Meter	E-5	Providing and fixing rolled steel joist (girder) pole 125 x 70 mm (13.3 kg/m) with base plate in provided foundation	1164.00	Rupees One Thousand and One Hundred and Sixty-Four Only	Meter	51216.00
4	Number	E-6	Providing and fixing G.I. stay set for poles, including loop insulators at inaccessible height with anchor plate 300x300x6 mm., straining screws, G.I. stay wire 7/8 SWG, G.I. stay rod 20mmx1.8m length and pole clamps duly erected in provided cement concrete foundation complete	2010.00	Rupees Two Thousand and Ten Only	Number	8040.00
60	Kilogram	E-7	Providing and fixing HT stay wire	150.00	Rupees One Hundred and Fifty	Kilogram	9000.00
28	Number	E-8	Making Cement concrete foundation including excavation (60 x 60)cm x deep 1/6 of pole length in 1:3:6 cement concrete 20 x 25 mm stone metal, 45cm x 45cm x 45cm/ 45cm dia. x 45cm height plinth duly plastered, with necessary curing and finishing complete. (for above 9m poles)	3536.00	Rupees Three Thousand and Five Hundred and Thirty-Six Only	Number	99008.00
4	Number	E-9	Making Cement concrete foundation including excavation (60 x 60 x 150)cm deep in 1:3:6 cement concrete, (20 to 25) mm stone metal with necessary curing and finishing complete.(for stay).	2491.00	Rupees Two Thousand and Four Hundred and Ninety-One Only	Number	9964.00
4	Cubic Meter	E-10	Providing and making platform by making excavation for foundation, situ cement concrete of M-10, uncoursed rubble masonry of trap, rubble stone soling 15cm to 20dc thick including hand packing and compacting, situ cement concrete of M20 grade trap, steel bar rainforcement of various diameters for RCC work, sand faced plaster externally in cement mortar, etc complete	11551.00	Rupees Eleven Thousand and Five Hundred and Fifty-One Only	Cubic Meter	46204.00

M/S. SOPARTHA & CO.
PARTNER/AUTH. SIGN

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
1518.18	Kilogram	E-11	Providing and fixing various channels, clamp, angle, flat etc fabrication works	196.00	Rupees One Hundred and Ninety-Six Only	Kilogram	297563.28
30	Number	E-12	Providing and fixing disc type insulator 70 KN with necessary hardware suitable for 33kV line complete	2037.00	Rupees Two Thousand and Thirty-Seven Only	Number	61110.00
12	Number	E-13	Providing and fixing disc type insulator 45KN with necessary hardware suitable for 11kV line, complete	1255.00	Rupees One Thousand and Two Hundred and Fifty-Five Only	Number	15060.00
30	Number	E-14	Providing and fixing pin type insulator with GI pin suitable for 33kV line, complete	889.00	Rupees Eight Hundred and Eighty-Nine Only	Number	26670.00
15	Number	E-15	Providing and fixing porcelain pin type insulator with GI pin suitable for 11kV line, complete	313.00	Rupees Three Hundred and Thirteen Only	Number	4695.00
2	Sets	E-16	Providing and fixing approved make thyrite type lightning arrestor suitable for 33KV line	48750.00	Rupees Forty-Eight Thousand and Seven Hundred and Fifty Only	Sets	97500.00
2	Number	E-17	Providing and fixing approved make thyrite type lightning arrestor suitable for 11KV line	1347.00	Rupees One Thousand and Three Hundred and Forty-Seven Only	Number	2694.00
4	Number	E-18	Providing and fixing isolator suitable for 33KV capacity	86400.00	Rupees Eighty-Six Thousand and Four Hundred Only	Number	345600.00
2	Number	E-19	Providing and fixing air break switch without earth switch 11KV, 400A outdoor type gang operated air break, triple pole switch of required capacity complete	16128.00	Rupees Sixteen Thousand and One Hundred and Twenty-Eight Only	Number	32256.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
1	Number	E-20	Providing and fixing 11 kV outdoor type drop out fuse with insulator complete with fuse holders, fuse barrel with metal fitting, fuse element mounted on M.S. channel with working current of 15A capacity complete erected on provided cross arm	6603.00	Rupees Six Thousand and Six Hundred and Three Only	Number	6603.00
5	Kilometre	E-21	Providing and fixing ACSR conductor of size - 6/1-4.72 mm (Dog) complete.	97655.00	Rupees Ninety-Seven Thousand and Six Hundred and Fifty-Five Only	Km	488275.00
3	Kilometre	E-22	Providing and fixing ACSR conductor of size - 6/1-4.09 mm (Raccon) complete	77065.00	Rupees Seventy-Seven Thousand and Sixty-Five Only	Km	231195.00
7	Set	E-23	Providing and fixing Nut bolts, hardware and Sundries, etc	15000.00	Rupees Fifteen Thousand Only	Set	105000.00
2	Number	E-24	Providing and fixing extendable/non-extendable outdoor type 11 kV 630A, load break isolator switch, etc complete	152150.00	Rupees One Lakh and Fifty-Two Thousand and One Hundred and Fifty Only	Number	304300.00
1	Number	E-25	Providing and fixing HT 11 kV 4 way feeder pillar.	82500.00	Rupees Eighty-Two Thousand and Five Hundred Only	Number	82500.00
1	Number	E-26	Providing and fixing HT 33 kV 4 way feeder pillar.	225000.00	Rupees Two Lakhs and Twenty-Five Thousand Only	Number	225000.00
1	Number	E-27	Providing and fixing 11 kV 630A, indoor type ring main unit 3 way with internal arc compliance complete	458962.00	Rupees Four Lakhs and Fifty-Eight Thousand and Nine Hundred and Sixty-Two Only	Number	458962.00
1	Number	E-28	Providing and fixing 11 kV 630A, indoor type ring main unit with 4 way with internal arc compliance complete	607269.00	Rupees Six Lakhs and Seven Thousand and Two Hundred and Sixty-Nine Only	Number	607269.00
2	Number	E-29	Providing, fixing, testing and commissioning 33 kV SF6 motorised SCADA compatible ring main unit with 3 Isolator + 1 Breaker complete erected on provided CC foundation	5865500.00	Rupees Fifty-Eight Lakhs and Sixty-Five Thousand and Five Hundred Only	Number	11731000.00

B. D. SORATHIA & CO
PARTNER / AUTH SIG

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
21	Number	E-30	Providing and fixing 11 kV HRC fuse 63A for load break switch with necessary nut bolts complete.	6077.00	Rupees Six Thousand and Seventy Seven Only	Number	127617.00
4	Kilometre	E-31	Dismantling the existing overhead line including G.I. wires of all sizes without damaging & making the coils in suitable sizes.	1489.00	Rupees One Thousand and Four Hundred and Eighty-Nine Only	Kilometre	5956.00
2	Number	E-32	Dismantling the existing lightening arrestor set, insulator from DP structure complete.	108.00	Rupees One Hundred and Eight Only	Number	216.00
4	Number	E-33	Dismantling the existing DP, brackets, clamps, insulators, stay, transformer from the c.c. foundation and re-erection of existing transformer.	17500.00	Rupees Seventeen Thousand and Five Hundred Only	Number	70000.00
1675	Meter	E-34	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 300 sq. mm. aluminium conductor laid in provided trench / pipe	3991.00	Rupees Three Thousand and Nine Hundred and Ninety-One Only	Meter	6684925.00
2846	Meter	E-35	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 300 sq. mm. aluminium conductor laid in provided trench / pipe	2764.00	Rupees Two Thousand and Seven Hundred and Sixty-Four Only	Meter	7866344.00
50	Meter	E-36	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 120 sq. mm. aluminium conductor laid in provided trench / pipe	1544.00	Rupees One Thousand and Five Hundred and Forty-Four Only	Meter	77200.00
50	Meter	E-37	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 95 sq. mm. aluminium conductor laid in provided trench / pipe	1354.00	Rupees One Thousand and Three Hundred and Fifty-Four Only	Meter	67700.00
6	Number	E-38	Providing and fixing Heat shrinkable straight through joint kit for 3 x 300sq.mm 33Kv (E) XLPE HT cable etc complete	92799.00	Rupees Ninety-Two Thousand and Seven Hundred and Ninety-Nine Only	Number	556794.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
6	Number	E-39	Providing and fixing Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x300 sq. mm. with necessary material	29627.00	Rupees Twenty-Nine Thousand and Six Hundred and Twenty-Seven Only	Number	177762.00
2	Number	E-40	Providing and fixing Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm. with necessary material	26804.00	Rupees Twenty-Six Thousand and Eight Hundred and Four Only	Number	53608.00
2	Number	E-41	Providing and fixing Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x up to 95 sq. mm. with necessary material	22307.00	Rupees Twenty-Two Thousand and Three Hundred and Seven Only	Number	44614.00
12	Number	E-42	Providing and fixing Heat shrinkable outdoor termination kit for 33kV (E) XLPE HT cable 3x300 sq. mm. to 400 sq. mm. with necessary material	33057.00	Rupees Thirty-Three Thousand and Fifty-Seven Only	Number	396684.00
18	Number	E-43	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x300 sq. mm. with necessary material	14682.00	Rupees Fourteen Thousand and Six Hundred and Eighty-Two Only	Number	264276.00
2	Number	E-44	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm. with necessary material	13197.00	Rupees Thirteen Thousand and One Hundred and Ninety-Seven Only	Number	26394.00
2	Number	E-45	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x 95 sq. mm. with necessary material	13964.00	Rupees Thirteen Thousand and Nine Hundred and Sixty-Four Only	Number	27928.00
100	Meter	E-46	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor complete erected with glands & lugs on wall/ trusses/pole or laid in provided trench/ pipe	183.00	Rupees One Hundred and Eighty-Three Only	Meter	18300.00

B. D. SORATHIA & CO
PARTNER/AUTH. SIGN

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
100	Meter	E-47	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor complete	215.00	Rupees Two Hundred and Fifteen Only	Meter	21500.00
100	Meter	E-48	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 35 sq. mm. aluminium conductor complete	297.00	Rupees Two Hundred and Ninety-Seven Only	Meter	29700.00
100	Meter	E-49	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 50 sq. mm. aluminium conductor complete	386.00	Rupees Three Hundred and Eighty Six Only	Meter	38600.00
100	Meter	E-50	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 70 sq. mm. aluminium conductor complete	499.00	Rupees Four Hundred and Ninety-Nine Only	Meter	49900.00
100	Meter	E-51	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 95 sq. mm. aluminium conductor complete	611.00	Rupees Six Hundred and Eleven Only	Meter	61100.00
100	Meter	E-52	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 120 sq. mm. aluminium conductor complete	761.00	Rupees Seven Hundred and Sixty-One Only	Meter	76100.00
50	Meter	E-53	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 150 sq. mm. aluminium conductor complete	902.00	Rupees Nine Hundred and Two Only	Meter	45100.00
100	Meter	E-54	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 185 sq. mm. aluminium conductor complete	1102.00	Rupees One Thousand and One Hundred and Two Only	Meter	110200.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
50	Meter	E-55	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 240 sq. mm. aluminium conductor complete	1380.00	Rupees One Thousand and Three Hundred and Eighty Only	Meter	69000.00
10	Number	E-56	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm.. with necessary material	2075.00	Rupees Two Thousand and Seventy-Five Only	Number	20750.00
5	Number	E-57	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 25 to 50 sq mm., with necessary material	2773.00	Rupees Two Thousand and Seven Hundred and Seventy-Three Only	Number	13865.00
5	Number	E-58	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 70 to 95 sq mm., with necessary material	3838.00	Rupees Three Thousand and Eight Hundred and Thirty-Eight Only	Number	19190.00
5	Number	E-59	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 185 sq mm., with necessary material	4014.00	Rupees Four Thousand and Fourteen Only	Number	20070.00
5	Number	E-60	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 240 sq mm., with necessary material	6214.00	Rupees Six Thousand and Two Hundred and Fourteen Only	Number	31070.00
100	Meter	E-61	Providing and fixing G.I. pipe 'A' class 75 mm dia. for enclosing XLPE armoured cable on wall/pole	674.00	Rupees Six Hundred and Seventy-Four Only	Meter	67400.00
3800	Meter	E-62	Providing and laying (including excavation) half round reinforced cement concrete pipe of NP-2 class of 150mm diameter in proper line, level and slope including providing and fixing collars in cement mortar 1:2 and curing etc. complete.	545.00	Rupees Five Hundred and Forty-Five Only	Meter	2071000.00

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
100	Meter	E-63	Making trench in Hard murum/Tar road having 0.75m depth and minimum 0.3m width for laying provided cables up to voltage level 1.1kV cable complete	219.00	Rupees Two Hundred and Nineteen Only	Meter	21900.00
100	Meter	E-64	Providing and laying 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	204.00	Rupees Two Hundred and Four Only	Meter	20400.00
250	Meter	E-65	Providing and laying 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	333.00	Rupees Three Hundred and Thirty-Three Only	Meter	83250.00
250	Meter	E-66	Providing and laying 120 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	374.00	Rupees Three Hundred and Seventy-Four Only	Meter	93500.00
100	Meter	E-67	Providing and fixing mains with WP 3 x 6 sq. mm. 1.1kV. grade aluminium PVC insulated and PVC sheathed wires on G.I. bearer wire no. 8 SWG complete erected with required size of porcelain reel insulators and 16 SWG G.I. binding wire.	142.00	Rupees One Hundred and Forty-Two Only	Meter	14200.00
40	Number	E-68	Providing and fixing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all accessories	1537.00	Rupees One Thousand and Five Hundred and Thirty-Seven Only	Number	61480.00
250	Kilogram	E-69	Providing and fixing GI earth wire of high purity of different sizes used for earthing.	168.00	Rupees One Hundred and Sixty-Eight Only	Kilogram	42000.00
7	Job.	E-70	Licencing work for line shifting Co-ordination with MSEDCL etc complete.	35000.00	Rupees Thirty-Five Thousand Only	Job.	245000.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Quantity	Unit	item No.	Item	Rate in Fig.	Rate in Words	Unit	Amount
4	Number	E-71	Providing and fixing mini feeder pillar with 415V, 315-320A FPMCCB as incomer and 3 outgoing circuits with HRC fuse base and cartridge of 100A aluminium bus bar erected in 14 SWG CRCA sheet box with supporting angles, self locks, gasket and enclosure must be dust proof, rust proof, vermin and water resistant, having slanting top and erected on angle iron/ GI frame in provided C.C. foundation complete	55236.00	Rupees Fifty-Five Thousand and Two Hundred and Thirty-Six Only	Number	220944.00
				Total			**36831505**

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B (QUALITY CONTROL - Part F Roads)

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
1	2	3	4	5	6	7	8	9	11	12	13
F-1	Providing earthwork Departmental Land.	20.00	Cubic Metre	Earth	1.00000	20.00	31	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
					0.0000	0.00	33	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
F-2	Providing earthwork from Other sources.	100.00	Cubic Metre	Earth	1.00000	100.00	31	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
					0.0000	0.00	33	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
F-3	Supplying Hard Murum	5829.11	Cubic Metre		0.0000	0.00	29	SOIL / MURUM Sieve Analysis test.	60	725.00	43500.00
				Murum	1.0000	5795.26	30	SOIL / MURUM Liquid limit & plastic Limit test.	60	1230.00	73800.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	60	7250.00	435000.00
F-4	G.S.B. with Gr.I close graded Material by Plant Mix Method.	11658.21	Cubic Metre		0.0000	0.00	8	G.S.B. Mix Design test.	1	17065.00	17065.00
				Cr.Metal	1.2800	14835.86	3	BASIC TEST OF AGGREGATE. Sieve Analysis	51	725.00	36975.00
					0.0000		30	SOIL / MURUM Liquid limit & plastic Limit test.	52	1230.00	63960.00
							31	SOIL / MURUM Compaction Test (Proctor Density).	80	1955.00	156400.00
							32	SOIL / MURUM C.B.R. Test (Lab) with compaction test.	63	7250.00	456750.00
							33	SOIL / MURUM C.B.R. test (Field determination test)	165	2730.00	450450.00
F-5	W.B.M. with Grading-I.Using Screening Type-A	3006.00	Cubic Metre	Murum	0.08000	240.48	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	18	2730.00	49140.00
				Cr.Metal	0.2700	811.62	3	BASIC TEST OF AGGREGATE. Sieve Analysis	18	725.00	13050.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

B. D. SORATHIA & CO
PARTNER / AUTH. SIGN

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B (QUALITY CONTROL - Part F Roads)

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	18	895.00	16110.00
				Metal	1.2100	3637.26	29	SOIL / MURUM Sieve Analysis test.	1	725.00	725.00
							30	SOIL / MURUM Liquid limit & plastic Limit test.	5	1230.00	6150.00
F-6	W.B.M.with Grading-II.Using Screening Type-B.	1503.00	Cubic Metre	Murum	0.08000	120.24	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	3	2730.00	8190.00
				Cr.Metal	0.2400	360.72	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	9	725.00	6525.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	5	895.00	4475.00
				Metal	1.2100	1818.63	29	SOIL / MURUM Sieve Analysis test.	1	725.00	725.00
							30	SOIL / MURUM Liquid limit & plastic Limit test.	3	1230.00	3690.00
F-7	Wet Mix Macadam	9562.77	Cubic Metre		0.0000	0.00	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	15	2730.00	40950.00
				Cr.Metal	1.2100	11468.55	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	65	725.00	47125.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	23	895.00	20585.00
					0.0000		9	Wet Mix Macadam Mix Design test.	1	17065.00	17065.00
							30	SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							33	SOIL / MURUM C.B.R. test (Field determination test)	64	2730.00	174720.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B (QUALITY CONTROL - Part F Roads)

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
F-8	Providing and laying Cast in situ/ Ready Mix cement concrete in Mix-15of trap/ granite/ quartzite/ gneiss metal for steps including steel centering, plywood/steel formwork, laying/ pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.),with fully automatic micro processor based Programmable Logic Controller with Superwisery Control and Data Acquisition enabled reversible Drum Type mixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand V.S.I. Grade).	5.00	Cubic Metre	Cement	0.30000	0.00	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	0	725.00	0.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F-9	Dry Lean Cement Concrete	15.00	Cubic Metre	Cement	0.22000	3.30	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4700	7.05	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F-10	M-20 for R.C.C. beams and lintels with natural/ V.S.I. sand	5.00	Cubic Metre	Cement	0.35000	1.75	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	0	725.00	0.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B (QUALITY CONTROL - Part F Roads)

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
				Sand	0.4250	2.13	3	BASIC TEST OF AGGREGATE. Sieve Analysis	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F-11	TMT FE-500 bar reinforcement for R.C.C.	0.10	Metric Tonne	Steel	1.00000	0.10	72	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1	1340.00	1340.00
					0.0000	0.00	73	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	1	1675.00	1675.00
F-12	Providing and laying in-situ M-40 Grade unreinforced plain cement concrete pavement over a prepared sub base with 43 grade cement, coarse and fine aggregate (Natural Sand/ VSI grade finely washed Crushed Sand) conforming to IS 383, using fine and coarse aggregates combined gradation as per Table 600-3 of MORTH Specification 2013, mixed in a Tilting type Concrete Mixer as per approved mix design, admixtures, spreading, laying, compacting and finished in a continuous operation without paver machine, finishing to lines and grades as directed by Engineer-in-charge and curing by curing compound/ by providing cement vata in cement Mortar 1:8 of 0.6 metre x 0.6 metre centre to centre, admeasuring 80 milimetre at bottom and 40 milimetre at top with depth of 75 milimetre and maintaining the same throughout curing period/ by any other method approved by Engineer in-charge.	30.00	Cubic Metre	Cement	0.42500	12.75	19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	3	725.00	2175.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B (QUALITY CONTROL - Part F Roads)

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
				Sand	0.4000	12.00	3	BASIC TEST OF AGGREGATE. Sieve Analysis	1	725.00	725.00
					0.0000		5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							10	FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							21	CONCRETE Flexural strength of Beam test.	2	780.00	1560.00
F-13	Coloured Paving Blocks 60 mm thick.	20.00	Square Metre		0.0000	0.00	26	CONCRETE PAVING BLOCKS Compressive Strength,Water Absorption test (Set of 8 Blocks).	1	2620.00	2620.00
F-14	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 milimetre thickness of having a strength of 300 kilogram per square centimetre of approved quality and shape on a bed of crushed sand of 25 to 30 milimetre thick including skirting joints and cleaning etc. complete	50.00	Square Metre		0.0000	0.00	26	CONCRETE PAVING BLOCKS Compressive Strength,Water Absorption test (Set of 8 Blocks).	1	2620.00	2620.00
F-15	75 mm M.P.M. on W.B.M. with 70% Hand Broken Metal.	100.00	Square Metre	Bitumen	0.00200	0.20	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	1	2730.00	2730.00
				Cr.Metal	0.0450	4.50	3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
				Metal	0.0630	6.30	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							6	BASIC TEST OF AGGREGATE. Stripping Value	1	780.00	780.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							41	BITUMEN Viscosity test.	1	2005.00	2005.00
F-16	75 mm M.P.M. on B.T. with 70% Hand Broken Metal.	100.00	Square Metre	Bitumen	0.00230	0.23	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	1	2730.00	2730.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B (QUALITY CONTROL - Part F Roads)

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
				Cr.Metal	0.0450	4.50	3	BASIC TEST OF AGGREGATE. Sieve Analysis	2	725.00	1450.00
				Metal	0.0630	6.30	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							6	BASIC TEST OF AGGREGATE. Stripping Value	1	780.00	780.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							41	BITUMEN Viscosity test.	1	2005.00	2005.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	10	3290.00	32900.00
							41	BITUMEN Viscosity test.	10	2005.00	20050.00
F-17	B.M. Gr-1 with Batch Mix SCADA with 3% Bitumen VG-30.	22.00	Cubic Metre	Bitumen	0.07260	1.60	47	B.M. Mix Design with all Tests on aggregate and bitumen.	1	11155.00	11155.00
				Cr.Metal	1.4100	31.02	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
					0.0000		6	BASIC TEST OF AGGREGATE. Stripping Value	1	780.00	780.00
				Bituminous Mix	1.4100	31.02	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	1	2730.00	2730.00
							51	Density test of Bituminous Core.	1	665.00	665.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							41	BITUMEN Viscosity test.	1	2005.00	2005.00
							43	BITUMEN Extraction Test.	10	1675.00	16750.00
							3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
							44	Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	4125.00	8250.00
F-18	B.M. Gr-1 3.5% PLC Batch Mix SCADA, VTS, Sensor Paver with VG 30.	4519.22	Cubic Metre	Bitumen	0.07260	325.19	47	B.M. Mix Design with all Tests on aggregate and bitumen.	1	11155.00	11155.00

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B (QUALITY CONTROL - Part F Roads)

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
				Cr.Metal	1.4100	6315.71	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	19	895.00	17005.00
					0.0000		6	BASIC TEST OF AGGREGATE. Stripping Value	1	780.00	780.00
				Bituminous Mix	1.4100	6315.71	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	32	2730.00	87360.00
							51	Density test of Bituminous Core.	135	665.00	89775.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	33	3290.00	108570.00
							41	BITUMEN Viscosity test.	33	2005.00	66165.00
							43	BITUMEN Extraction Test.	20	1675.00	33500.00
							3	BASIC TEST OF AGGREGATE. Sieve Analysis test.	20	725.00	14500.00
							44	Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	10	4125.00	41250.00
F-19	D.B.M. 4.5% SCADA Batch Mix with VG-30 and Stone Dust Filler.	7565.06	Cubic Metre	Bitumen	0.10350	776.05	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	33	2730.00	90090.00
				Cr.Metal	1.5280	11457.11	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	33	895.00	29535.00
					0.0000		44	Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	4125.00	8250.00
							51	Density test of Bituminous Core.	220	665.00	146300.00
							46	Job Mix Design with all Basic Tests on aggregate bitumen for DBM/SDBC/AC.	1	20355.00	20355.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	78	3290.00	256620.00
							41	BITUMEN Viscosity test.	78	2005.00	156390.00
							43	BITUMEN Extraction Test.	42	1675.00	70350.00

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B (QUALITY CONTROL - Part F Roads)

SR. No.	Item in brief	Estimated Quantity	Estimated Unit	Material	Standard Consumpti	Utilised Quantity	V.Q.C. D.S.R.	Tests	Required Tests	Rate of Each Test	Amount of Q.C.Testing Charges
							45	Marshall Stability & Flow measurement test. (Set of 3 moulds).	42	1170.00	49140.00
F-20	B.C. Gr-1 Batch Mix SCADA, VTS, Sensor Paverwith 6.25% VG 30.	5043.37	Cubic Metre	Bitumen	0.12960	647.84	2	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing	23	2730.00	62790.00
				Cr.Metal	1.5720	7858.02	5	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	23	895.00	20585.00
					0.0000		44	Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	4125.00	8250.00
							51	Density test of Bituminous Core.	150	665.00	99750.00
							46	Job Mix Design with all Basic Tests on aggregate bitumen for DBM/SDBC/AC.	1	20355.00	20355.00
							40	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	65	3290.00	213850.00
							41	BITUMEN Viscosity test.	65	2005.00	130325.00
							43	BITUMEN Extraction Test.	28	1675.00	46900.00
							45	Marshall Stability & Flow measurement test. (Set of 3 moulds).	28	1170.00	32760.00
F-21	Road Marking with Hot Applied Thermoplastic Compound.	4937.91	Square Metre		0.0000	0.00	75	PAINT / THERMO-PLASTIC PAINT Glass bead contents & grading analysis Test.	1	4070.00	4070.00
					0.0000	0.00	76	PAINT / THERMO-PLASTIC PAINT Reflectance & yellowness index Test.	1	1170.00	1170.00
					0.0000		77	PAINT / THERMO-PLASTIC PAINT Flowability (Percentage residue) Test.	1	1170.00	1170.00
					0.0000		78	PAINT / THERMO-PLASTIC PAINT Softening Point (Ring & ball method) Test.	1	1060.00	1060.00
							79	PAINT / THERMO-PLASTIC PAINT Drying Time Test.	1	835.00	835.00
								Total Quality Control Testing Charges			**Rs.42,58,965.00**

M/S. SURANA & CO. PARTNER / AUTH. SIGN

Proposed Construction of Box Culvert near Ajuda dhaba on Trambak chowk to Bardan phata 36m wide road, Nashik

Schedule-B (QUALITY CONTROL - Part F1 Box Culvert-1)

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
F1-i	Providing and laying in situ / ready mix cement concrete of Mix-15 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine agreegates of required specifications (VSI sand finely washed etc.)	120.00	Cubic Metre	Cement	0.22000	26.40	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	5	725.00	3625.00
				Sand	0.4700	56.40	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00
							BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1	3960.00	3960.00
F1-2	M-30 for RCC Foundation with VSI Sand.	308.00	Cubic Metre	Cement	0.40000	123.20	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	9	725.00	6525.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
	BR New			Cr.Metal	0.8500	261.80	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00
				Sand	0.4250	130.90	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	2	895.00	1790.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F1-3	M-30 for Head Wall With Natural / VSI Sand.	504.50	Cubic Metre	Cement	0.35000	176.58	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	13	725.00	9425.00
	C.D.Works			Cr.Metal	0.8900	449.01	Concrete Mix Design (With all Tests on basic materials).	2	14445.00	28890.00
				Sand	0.4450	224.50	BASIC TEST OF AGGREGATE. Sieve Analysis test.	3	725.00	2175.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	3	895.00	2685.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00

P. D. SOHTA & CO
PARTNER \ VALID SIGN

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
F1-4	M-30 for solid/ deck slab for height up to 4 m with V.S.I. Sand.	186.00	Cubic Metre	Cement	0.38000	70.68	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	7	725.00	5075.00
				Sand	0.4500	83.70	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F1-5	TMT FE-500 steel bars for R.C.C. Bridge works.	107.80	Metric Tonne	Steel	1.00000	107.80	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	22	1340.00	29480.00
	BR Super Structure				0.0000	0.00	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	22	1675.00	36850.00
F1-6	Providing earthwork from Other sources.	334.20	Cubic Metre	Earth	1.00000	334.20	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
	Road Subgrade				0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
							Total Quality Control Testing Charges			**Rs.1,71,310.00**

B. D. SOHAN & CO.

PARMER \ TAUH. SIGN

Proposed Box Culvert at CARBON NAKA, Nashik

Schedule-B (QUALITY CONTROL - Part F2- Box Culvert-2)

Item No.	Item in brief	Estimated		Material	Standard Consump	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
F2-1	Providing and laying in situ / ready mix cement concrete of Mix-15 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine agreegates of required specifications (VSI sand finely washed etc.)	10.00	Cubic Metre	Cement	0.22000	2.20	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4700	4.70	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00
							BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1	3960.00	3960.00
F2-2	M-30 for RCC Foundation with VSI Sand.	20.00	Cubic Metre	Cement	0.40000	8.00	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	3	725.00	2175.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Item No.	Item in brief	Estimated		Material	Standard Consump	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
				Sand	0.4250	8.50	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F23	M-30 for Head Wall With Natural / VSI Sand.	42.50	Cubic Metre	Cement	0.35000	14.88	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	4	725.00	2900.00
	C.D.Works			Cr.Metal	0.8900	37.83	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00
				Sand	0.4450	18.91	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F24	M-30 for solid/ deck slab for height up to 4 m with V.S.I. Sand.	8.00	Cubic Metre	Cement	0.38000	3.04	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4500	3.60	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00

CO & AIHTARO2 .D .B
NOIS .NIJA \ BEMTRAP

Item No.	Item in brief	Estimated		Material	Standard Consump	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F2-5	TMT FE-500 steel bars for R.C.C. Bridge works.	7.70	Metric Tonne	Steel	1.00000	7.70	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	2	1340.00	2680.00
	BR Super Structure				0.0000	0.00	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	2	1675.00	3350.00
F26	Providing earthwork from Other sources.	32.40	Cubic Metre	Earth	1.00000	32.40	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
	Road Subgrade				0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
							Total Quality Control Testing Charges			**Rs.60,585.00**

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Proposed Box Culvert at MAHINDRA COMPANY INFRONT OF PARTH HOTEL, Nashik

Schedule-B (QUALITY CONTROL - Part F3 Box Culvert-3)

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
F3-1	Providing and laying in situ / ready mix cement concrete of Mix-15 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine agreegates of required specifications (VSI sand finely washed etc.)	13.00	Cubic Metre	Cement	0.22000	2.86	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4700	6.11	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00

B. D. SORATHIA & CO.
PARTNER/AUTH. SIGN.

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
							BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1	3960.00	3960.00
F3-2	M-30 for RCC Foundation with VSI Sand.	29.00	Cubic Metre	Cement	0.40000	11.60	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	3	725.00	2175.00
				Sand	0.4250	12.33	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F3-3	M-30 for Head Wall With Natural / VSI Sand.	58.40	Cubic Metre	Cement	0.35000	20.44	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	4	725.00	2900.00
	C.D.Works			Cr.Metal	0.8900	51.98	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
				Sand	0.4450	25.99	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F3-4	M-30 for solid/ deck slab for height up to 4 m with V.S.I. Sand.	14.00	Cubic Metre	Cement	0.38000	5.32	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	2	725.00	1450.00
				Sand	0.4500	6.30	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F3-5	TMT FE-500 steel bars for R.C.C. Bridge works.	11.10	Metric Tonne	Steel	1.00000	11.10	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	3	1340.00	4020.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
	BR Super Structure				0.0000	0.00	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress).	3	1675.00	5025.00
F3-6	Providing earthwork from Other sources.	42.00	Cubic Metre	Earth	1.00000	42.00	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
	Road Subgrade				0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
							Total Quality Control Testing Charges			**Rs.63,600.00**

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Proposed Box Culvert at Sadhana Misal To Bardan Phata, for Nashik Municipal Corporation, Nashik										
Schedule-B (QUALITY CONTROL - Part F4 Box Culvert-4)										
Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
F4-1	Providing and laying in situ / ready mix cement concrete of Mix-15 proportion with trap/ granite/ quartzite/ gneiss metal in foundation including necessary form work, compacting and curing etc. complete. (with reversible drum type mixer with SCADA with fine agreegates of required specifications (VSI sand finely washed etc.)	128.00	Cubic Metre	Cement	0.22000	28.16	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	6	725.00	4350.00
				Sand	0.4700	60.16	BASIC TEST OF AGGREGATE. Sieve Analysis test.	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
							BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00
							BASIC TEST OF CEMENT.Standard Consistancy Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	1	3960.00	3960.00

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
F4-2	M-30 for RCC Foundation with VSI Sand.	327.00	Cubic Metre	Cement	0.40000	130.80	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	10	725.00	7250.00
	BR New			Cr.Metal	0.8500	277.95	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00
				Sand	0.4250	138.98	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	2	895.00	1790.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F4-3	M-30 for Head Wall With Natural / VSI Sand.	499.20	Cubic Metre	Cement	0.35000	174.72	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	13	725.00	9425.00
	C.D.Works			Cr.Metal	0.8900	444.29	Concrete Mix Design (With all Tests on basic materials).	1	14445.00	14445.00
				Sand	0.4450	222.14	BASIC TEST OF AGGREGATE. Sieve Analysis test.	3	725.00	2175.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	3	895.00	2685.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
F4-4	M-30 for solid/ deck slab for height up to 4 m with V.S.I. Sand.	329.00	Cubic Metre	Cement	0.38000	125.02	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	10	725.00	7250.00
				Sand	0.4500	148.05	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	2	895.00	1790.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	1	1450.00	1450.00
F4-5	TMT FE-500 steel bars for R.C.C. Bridge works.	124.70	Metric Tonne	Steel	1.00000	124.70	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	25	1340.00	33500.00
	BR Super Structure				0.0000	0.00	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress,Weight-Per Meter, Bend / Rebend Test, Proof Stress).	25	1675.00	41875.00
F4-6	Providing earthwork from Other sources.	334.80	Cubic Metre	Earth	1.00000	334.80	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
	Road Subgrade				0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00

B. D. SORATHIA & CO
PARTNER / AUTHORISED SIGN

Item No.	Item in brief	Estimated		Material	Standard	Utilised	Tests	Required Tests	Rate of Each	Amount of Q.C.Testing
		Quantity	Unit							
1	2	3	4	5	6	7	9	11	12	13
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
							Total Quality Control Testing Charges			**Rs.1,71,155.00**

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

SCHEDULE B - Part G Royalty

Quantity	/ Unit	item No.	Description	Rate in Fig.		Rate in Words	Unit	Amount
		G-1	Royalty charges for murum dubber should be paid by the contractor regularly to the government and contractor should produce delivery challon, payment receipt, pakka bill etc. complete alongwith every R.A. bill \ final bill as applicable.(It is entirely responsibility of contractor to pay Royalty charges to the Government)					
7008.11	Cubic Metre	A	for murum / Rubble /	Rs.	216.18	Rupees One Thousand Two Hundred Sixty Three and Twenty Paise Only	Cubic Metre	1515012.46
4.15	Cubic Metre	B	for sand	Rs.	237.37	Rupees One Thousand Two Hundred Sixty Three and Twenty Paise Only	Cubic Metre	985.09
			E GST Charges on A and B					76,637,403.38
							Total	**78,153,400.92**

Name of Work:- Improvement of Outer Ring Road from Bardan phata - Gangapur Road to Sula Chowk Trimbak Road.

Schedule-B Part H

	Sr No.	Description	Amount		Rate in Words
		SUMMARY			
					Rupees Thirty-Seven Crores and Twenty-Two Lakhs and Twenty-Three Thousand and Nine Hundred and Fifty-Seven and Six Paise Only
	A	PART A- Civil Work Cost	₹	37,22,23,957.06	
					Rupees Twenty-One Lakh and Fifty-Two Thousand and Eight Hundred and Twenty- Five and Two Paise Only
	B	PART B- Water Supply Cost	₹	21,52,825.02	
					Rupees Five Crores and Thirteen Lakhs and Eighty-Six Thousand and Five Hundred and Sixty-Nine and Eighty-Five Paise Only
	C	PART C- Structure	₹	5,13,86,569.85	
					Rupees One Crore and Thirty-Three Lakhs and Eight Thousand and Six Hundred and Eight and Eighty-Eight Paise Only
	D	PART D- Electrical Cost	₹	1,33,08,608.88	
					Rupees Three Crores and Sixty-Eight Lakhs and Thirty-One Thousand and Five Hundred and Five and Twenty-Eight Paise Only
	E	PART E- MSEB Cost	₹	3,68,31,505.28	
	F	BASIC TOTAL COST OF BOQ A+B+C+D+E		₹47,59,03,466.09	Rupees Forty-Seven Crores and Fifty-Nine Lakhs and Three Thousand and Four Hundred and Sixty-Six and Nine Paise Only

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

	Sr No.	Description	Amount		Rate in Words
	G	GST on Part A & Part B & Part C	₹	7,66,37,403.35	Rupees Seven Crores and Sixty-Six Lakhs and Thirty-Seven Thousand and Four Hundred and Three and Thirty-Five Paise Only
	H	GST on Part D & Part E	₹	90,25,220.55	Rupees Ninety Lakhs and Twenty-Five Thousand and Two Hundred and Twenty and Fifty-Five Paise Only
	I	PART F- Quality Control Cost	₹	47,25,615.00	Rupees Forty-Seven Lakhs and Twenty-Five Thousand and Six Hundred and Fifteen Only
	J	PART G- Royalty Cost	₹	15,15,993.24	Rupees Fifteen Lakhs and Fifteen Thousand and Nine Hundred and Ninety-Three and Twenty-Four Paise Only
					Rupees Seven Lakhs and Seventy Thousand and Seven Hundred and Ninety-Eight and Fifty-Five Paise Only
	K	STRUCTURE DESIGN AND SCRUTINY FEE	₹	7,70,798.55	
		TOTAL COST OFPROJECT E+ F+ G+ h +I		**56,85,78,496.78**	Rupees Fifty-Six Crores and Eighty-Five Lakhs and Seventy-Eight Thousand and Four Hundred and Ninety-Six and Seventy-Eight Paise Only

I am / We are ready to to the work at 18.090% Below at the Estimated Rates

B. D. SORATHIA & CO.
Contractor
PARTNER / AUTH. SIGN.

Witness

Executive Engineer (works)
Nashik Municipal Corporation, Nashik

३२
(५)

दि.१

दि. /१०/२०२५

मा.सादर

विषय- सिंहस्थ कुंभमेळा-२०२७ चे अनुषंगाने निविदा सुचना क्र.३ मधील १८ कामांचे Common Set of Deviation प्रसिध्द करणे बाबत.

सिंहस्थ कुंभमेळा-२०२७ चे अनुषंगाने नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचे दि.१४/९/२०२५ एकूण २१ कामंना प्रशासकीय मंजुरी प्राप्त झाली असून त्यापैकी १८ कामांच्या निविदा प्रसिध्द सुचना क्र.३ (२०२५-२६) अन्वये प्रसिध्द करणेत आल्या आहेत. त्याअनुषंगाने दि.२६/०९/२०२५ रोजी ऑन लाईन पध्दतीने निविदा पुर्व बैठक आयोजित करणेत आली होती. सदर बैठकीच्या अनुषंगाने प्राप्त हरकती / सुचना यास अनुसरून परिशिष्ट-अ तयार करण्यात आले असून त्यामध्ये सर्व हरकती / सुचना व त्यावर नाशिक महानगरपालिकेचा खुलासा तयार केलेला आहे. त्यास मान्यता मिळणेस विनंती.

उपरोक्त खुलासा मान्य झाल्सास त्यास अनुसरून प्रसिध्द करावयाच्या CSD (Commons Set of Deviation) सोबत परिशिष्ट-ब जोडले आहे. त्याचे अवलोकन होऊन त्यास मान्यतेस्तव व संकेतस्थळावर प्रसिध्द करणेच्या कार्यवाहीस्तव सादर.

कार्यकारी अभियंता (बांध)

मा.शहर अभियंता सो.

मा.अति. आयुक्त सो

मा. आयुक्त सो

मा. कार्यकारी संचालक साहेब यांचे प्रमाणे कार्यवाही करण्यात आली आहे असे

कार्यकारी अभियंता (बांधकाम)

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

परिशिष्ट-अ

Road Tenders

Sr. No.	Name of Agency	Clause Details	Queries	Response
1	B.T. Kadlag Construction Pvt. Ltd.	As per Tender Document Submission date is 10/10/2025 Up to15.00 hrs.	Extend the tender submission time upto 5.00 Pm Because Bank transaction time is upto 4.00 Pm. So, Consider it.	Refer CSD
		As per Tender Document 1.1 Eligibility Criteria **1) Asphalt Batch Mix Plant & Concrete Batch Mix Plant distance within 30 km from the Nashik Municipal headquarters.** **2) Both plants arrange shift and install after 45 days from the date of LOA.**	1. It is our earnest request to Consider the Asphalt Batch Mix Plant and Concrete Batch Mix Plants which are ready in existence within 30 kms from the Nashik Municipal headquarters. 2. The arrangement shifting and installation both plants after 45 days of LOA clause should deleted.	As per NIT
		As per Tender Document 1.1 Eligibility Criteria Sr. no. 2 Hydraulic Paver Finisher 9m Width	Paver of width 5.5m should be considering for 80 TPH plant as given by you. Paver of 9m is used for plant of 120-160 TPH. So please allow Sensor Paver width is 5.5m. For bitumen work and also allow 9m width Sensor Paver is hired agreement.	Refer CSD
		As per Tender Document 1.1 Eligibility Criteria 2 for Asphalt Work required machinery Sr. no. 5 **Static Roller/Smooth Wheeled Roller - 2 Nos.**	Pleased consider Vibratory Compactor Roller instead of static roller for better sub grade Bitumen compaction.	As per NIT
		As per Tender Document 1.3 Eligibility criteria financial turnover and bid capacity calculation applied base year FY-2024-25.	Please Consider financial year 2023-24 for calculating turnover and bid capacity and other related calculations because financial reports and audit reports not yet submitted to IT department it is work in progress date of final IT Return Submission date upto 31stOct. 2025. If it is mandatory to calculate every thing on the basis of FY 2024-25 then our Un-Audited Balance sheet should be considered.	Refer CSD
		As per Tender Document 2) Important condition of contract) Point D - Availability of funds & E- Continue work in any condition.	If the payment is irregular, then please consider the Star Rate because there is a variation of bitumen price in every 15 days. Consider Escalation as per PWD Department. PRICE VARIATION CLAUSE-If during the operative Period of the Contract as defined in condition below, there shall be any variation in the Consumer Price Index (New Series) for Industrial Workers for Nashik Center as per the Labour Gazette published by the Commissioner of Labour. Government of Maharashtra and/or in the Whole-sale Price Index for all commodities prepared by the Office of Economic Adviser, Ministry of Industry, Government of India or in the price of petrol / oil, and lubricants and major construction materials like bitumen,cement, steel, various types of metal pipes etc.	As per NIT
2	CKA Birla Group	**2.4 General conditions for electrical Contractor** **List Of approved makes for Electrical Items**	Kindly Consider Orient Electric Ltd (OEL) a CKA Birla Group company which is Indian's one of the leading brands as an approved make under LED fittings, Decorative Pole, High mast and octagonal poles (Brand approval letter with credentials is attached for reference.)	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

परिशिष्ट-अ

Road Tenders

Sr. No.	Name of Agency	Clause Details	Queries	Response
		Electrical BOQ **Supplying and erecting integrated LED streetlight fitting 70-75W IP65 & IK08 classhaving single piece pressure die-cast aluminium housing, having system lumens output of Min. 7700 Lumens, min. efficacy of 110 lumen/W, CRI>70, CCT upto 6500K,THD<10%, p.f. >0.95, operating range of 140-270V, inbuilt surge protection of 10 kV, etc complete.**	Please give clear range of CCT required	As per NIT
		Electrical BOQ **Supplying and erecting integrated LED street light fitting 160-170W IP65 & IK08 classhaving single piece pressure diecast aluminium housing, having system lumens output of Min. 19000 Lumens, etc complete**	Please give detailed specifications of Street Light with CCT, CRI, THD, PF and other specifications	As per NIT
		Electrical BOQ Supplying and erecting 7 m long decorative pole with cap, base plate, foundation bolt etccomplete in provided foundation.	Please give Design and GTP of decorative pole along with its complete technical specifications	As per NIT
		Electrical BOQ **Supplying and erecting decorative integral post top lantern LED fixtures of 50 W consisting with accessories on provided pole /bracket**	Please give design and GTP and detailed technical specification of Post top Fitting	As per NIT
		Electrical BOQ Supplying and erecting decorative integral hanging LED fixtures of 72 W consisting with accessories on provided pole /bracket	Please give design and detailed Technical specification of Decorative Fitting	As per NIT
		Electrical BOQ Item no C 18 Supplying and erecting 8 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation	Please give Design and GTP of decorative pole along with its complete techical specifications	As per NIT
		Electrical BOQ **Item No C 20 Supplying and erecting decorative double arm bracket for 7/8 m decorative pole etc complete**	Please give Design and GTP of decorative pole along with its complete techical specifications	As per NIT
		Electrical BOQ **Item No C 17 Supplying and erecting decorative integral hanging LED fixtures of 120 W consisting with accessories on provided pole /bracket**	Please give design and detailed Technical specification of Decorative Fitting	As per NIT
		Electrical BOQ **Item No C 15 Supplying and erecting 8 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.**	Please give Design and GTP of decorative pole along with its complete techical specifications	As per NIT

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
3	Forcon Infra Pvt. Ltd.	**Clause 1.3 Financial Turnover and Bid Capacity, B) Bid Capacity C) Supporting Documentation, P.No 13** **A statement showing the value of existing commitments and ongoing works (for the next three years) shall be certified by a Chartered Accountant and countersigned by the Engineer-in-Charge not below the rank of Executive Engineer or equivalent.**	We kindly request that the statement showing the value of existing commitments and ongoing works for the next three years be accepted only if it is certified by a Chartered Accountant. and The condition requiring countersignature by an Engineer not below the rank of Executive Engineer or equivalent may kindly be deleted.	Refer CSD
		Clause 1.1 Eligibility Criteria: Machinery, **2 - Machinery** **Hydraulic Paver Finisher with Automatic Electrical Sensor Device (SCADA enabled): The Electronic Sensor Paver Finisher shall be equipped with an electronic sensing device and shall conform to clause 504.3.5 of the MORTH Standard Specification. The Machine shall have a screed of minimum 9.00 meters width and shall be capable of laying** bituminous layers with minimum lift thickness of 75mm. – (1 No. Owned)	We kindly request that the Sensor Paver, whether owned or hired, be considered acceptable. Alternatively, we kindly request that a paver with a capacity of 5.50 meters be considered acceptable in place of the currently stipulated 9.00-meter capacity.	Refer CSD
4	N.M. Pekhale Infra Pvt. Ltd.	**Clause 1.1 Eligibility Criteria: Machinery,** Each Tenderer / Bidder should further demonstrate the availability of the following key and critical equipment exclusively for this work at the time of submission of tender. Mode of Availability - Owned	We kindly request you to allow a modification stating that the required machinery for this work may be either owned or hired.	As per NIT
		Clause 1.1 Eligibility Criteria: Machinery.	In the tender, there is a 45-day condition to install the batch mix plant after the LOA. We kindly request you to apply this condition to the remaining machinery as well.	As per NIT
		Clause: A statement showing the value of existing commitments and ongoing works (for the next three years) shall be certified by a Chartered Accountant and countersigned by the Engineer-in-Charge not below the rank of Executive Engineer or equivalent.	We kindly request that the statement showing the value of existing commitments and ongoing works for the next three years be accepted only if it is certified by a Chartered Accountant. And the condition requiring countersignature by an engineer not below the rank of Executive Engineer or equivalent may kindly be deleted.	As per NIT
		1 Detailed Tender Notice, Point 11, Page No 7 Joint venture Agreement in any form shall not be allowed.	We request you to grant permission to enter into a joint venture agreement.	As per NIT
		5.7 Conditions of Contract, Clause – 57 There is no provision for Price variation, Star rate for this work.	Permission should be granted to sublet the work. Since the payment for the work depends on the availability of funds, star rates or price variation should be granted.	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
5	ssss	1.1 eligibility Criteria - c)-2.	About availability of Machinery, it is said that contractor should own Slip form Hydraulic Concrete Paver (With SCADA)-01 No. conforming to clause 602 of MORTH and IRC:SP:64 with automatic electronic sensor for line, level and thickness capable of laying CC Pavement upto 7.5 m width and 300 mm thickness in a single pass equipped with vibrator for full compaction. Concrete road in this Tender Notice are in Urban area and it involves many obstacles and utilities like Chembers/Manholes/Trees etc. and 7.5 Mtr width hydraulic Concrete Paver is practically not feasible for this type of works. Hence we request you to consider the Slip form Concrete Paver of 5 Mtr width.	Refere CSD
		Clause: 1.1 Eligibility criteria, machinery	Hydraulic Concrete Paver costs 15-18 Cr and can not be made compulsory for works costing only 70-80 Cr. Hence we request you to consider condition of Hire of Hydraulic Concrete Paver. It will also facilitate healthy competition and will benefit NMC.	As per NIT
		Clause: In Para 1.1 eligibility Criteria - c)-3.	Concrete Transit Mixture with SCADA- of 6 m3 capacity – 07 Nos. is given. As there is condition of distance Certificate within 45 days after issue of LOA of having Plant within 30 Km of NMC headquarter hence condition of 07 No. of Transit mixture is unnecessary. Considering the volume and location of works only 4 to 5 Nos of Transit Mixtures are enough for single work. Condition of having 07 No. of TM will not allow competition. Hence we request you to modify this condition and allow owner of 4 to 5 Transit Mixture.	Refer CSD
6	Pawar Patkar Constructions Pvt. Ltd.	Clause: Certificate of work experience in private sector, joint ventures, and unofficial sub-contracts will not be consider.	Kindly requested all certificate of work experience in Joint Venture should be considered. This procedure to considering experience in joint venture work done certificate. Work completed in joint venture the proportionate cost and experience will be considered as single work. (In proportionate to his % contribution in joint venture agreement) Recently tenders in PWD for Simhasta, joint venture work done allowed for work experience proportionate % contribution.	Refer CSD

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
7	SGM Buildcon	1.1 eligibility Criteria, machinery	The conditions of all tenders specify that the Hydraulic paver machine should be up to 7.5 meters in width. However, the width of roads varies across project sites. While a machine with a width of up to 7.5 meters is suitable for broader roads, it is requested that for narrower roads, consideration be given to allowing the use of smaller-sized Hydraulic paver machines. This flexibility will help ensure efficient and appropriate execution according to site conditions. And also encourage more competent bidders to participate.	Refer CSD
		1.1 eligibility Criteria, machinery	Hydraulic Concrete Paver maximum cost 10-12 Cr and cannot be made compulsory for works costing only 15-80 Cr. Most companies may not own such high-grade machines, despite having extensive experience in executing similar works with proven quality. Therefore, it is kindly requested that such companies be permitted to acquire the required machines on a rental basis. The rental agreement documents may be submitted at the time of the bidding process. This provision will encourage wider participation of competent bidders and ensure quality outcomes in the execution of the work.	Refer CSD
		In Para 1.1 eligibility Criteria - c)-3- Concrete Transit Mixture with SCADA- of 6 m3 capacity – 07 Nos. is given.	As there is condition of distance Certificate within 45 days after issue of LOA of having Plant within 30 Km of NMC headquarter hence condition of 07 No. of Transit mixture is unnecessary. Considering the volume and location of works only 4 to 5 Nos of Transit Mixtures are enough for single work. Condition of having 07 No. of TM will not allow competition. Hence, we request you to modify this condition and allow owner of 5 Transit Mixture.	Refer CSD
8	RE Infra Pvt Ltd.	Page No.13 Important Conditions Contract 2.i All Tenderer/bidder must note that after completion of tender procedure the successful Tenderer/ bidder shall take out necessary Insurance Policy / Policies so as to provide adequate insurance cover for execution of the awarded contract work from the "Directorate of Insurance, Maharashtra State Mumbai" only. It's Postal address	Insurance cover to be permitted from private insurers also.	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		Page No.15 Important Conditions Contract 2.3 2.3 Land Availability, Alignment Clearance, and Tender Process Implications (Road Works) The proposed road works are of critical importance and are time-bound in view of the forthcoming SimhastaKumbhamela 2027. The Simhasta Kumbhamela Road Development Project has received formal approval from the Nashik–Trimbakeshwar Kumbhamela Pradhikaran vide letter dated 14/09/2025 and all conditions given below, stipulated in the said letter of the Administrative Approval shall be binding on the tenderer/contractor. In certain stretches of the proposed works, delays or difficulties may arise in acquisition of land,obtaining right-ofway,or securing alignment clearance. Accordingly, all tenderers are strictly advised to visit the site, examine theground conditions, review the proposed alignment, and take into account land availability, right-of-way constraints and all related challenges prior to submission of their bids. Furthermore, in the event that: the required land is not made available, alignment or right-of-way clearance is notgranted, or the Competent Authority proposes changes in the overall treatment, modifies the Administrative Approval amount, or reduces the sanctioned length of work, then the tender process may be withheld, cancelled,withdrawn, or reassigned under separate arrangements, as may be decided by the Competent Authority.In all such circumstances, no claim, demand, compensation, or financial liability of any nature whatsoever shall beentertained from any bidder or contractor. Tenderers shall be deemed to have factored in all such risks,dependencies,	Proportionate Extention of time Limit to be granted on account of delays in site handover and Third Party obstructions	As per NIT
		Page No.59 Important Conditions Contract 69 **6.42 Deviation limit** **Quantities shown in the Tender are approximate and no claim shall be entertained for quantities of work** **executed being either more or less than those entered in the tender or estimate, to any extent**	Deviation Limit to be Fixed 5% of contract sum and 25 % in Individual Items	As per NIT
		Page No.69 & 70 Important Conditions Contract 6.69.i **6.69.1 MINIMUM CEMENT CONSUMPTION:** Minimum cement consumption per cubic meter of concrete for the different grades of concrete shall be as follows	Cement Consumption for various Grade of concrete to be permitted as per mix design attaining Desired Strength as per revelant IS Codes /MORTH specifications.	As per NIT

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
9	SBD Infra Tech Pvt.Ltd	Detailed Tender Notice, P.No 4 1. Earnest Money Deposit Rs. 0.5% of Cost put to tender EMD will be accepted in the form of Online Payment only by net banking only. Tenderer must submit online EMD receipt along with technical document.	Allow EMD to be submitted in the form of Bank Guarantee	
10	Surya Total Lighting Solutions	Clause 2.4, Conditions of Electrical Work, P.No 18,19 List of Approved makes	Sr. No. 6 – LED Fittings Sr. No. 7 – High Mast & Octagonal Poles Sr. No. 9 – Decorative Lighting request the inclusion or regularization of the Surya brand under the above items	As per NIT
11	Karyesh Constrowell	Clause 1.1 Eligibility Criteria (Machinery), P.No 8 Sr. No 1	Kindly consider the erection of Plant within 60 days from LOA for the fair market competition. It will be more than sufficient time to procure all the materials and erection work.	Refer CSD
12	gaurishankar purohit	Clause 1.1 eligibility Criteria, Machinery Hydraulic paver machine should be up to 7.5 meters in width	it is requested that for narrower roads, consideration be given to allowing the use of smaller-sized Hydraulic paver machines.	Refer CSD
		Sr. No. 2.Hydraulic Concrete Paver (With SCADA) - Owned	it is kindly requested that such companies be permitted to acquire the required machines on a rental basis. The rental agreement documents may be submitted at the time of the bidding process.	Refer CSD
		Sr. No 3 Concrete Transit Mixer (With SCADA) - No. 7, Owned	We request you to modify this condition and allow owner of 5 Transit Mixture.	Refer CSD
13	N.K.Varma	Clause 1.1 Eligibility Criteria, Machinery (Page No 8) Sr. No. 1. After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 90 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, meets the required capacity and standards, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for.	1.we sincerely request that only those Asphalt Hot Mix plants and RMC Plants which are already established and functional within 30km from NMC should be considered eligible	As per NIT
			2. Lead Charges for Quarry material It is requested that the lead charges for quarries be considered up to 20km as included in the tender estimate If the approved quarry by the Engineer in charge is located beyond 20km, then the additional lead charges as per actual distance may kindly be borne by NMC	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
			3. Star Rate and escalation clause it is requested to kindly clarify the provision regarding star rates and escalation appilcable during the execution period of the work. It is suggested that a) star rates for materials not covered in the schedule(DTP/SSR)be approved by the engineer-in-charge, based on prevailing market rates at the time of execution. b) In case of delay not attibutable to the contractor, or in case of variation in material/labour costs, the escalation clause as(price adjustment) as per standard PWD/MJP/CPWD practice may be made applicable	As per NIT
			4. Provision for price escalation and star rate difference as the allocation of project funds has not been clearly specified, it is requested that in accordance with the GoM GR on price escalation, suitable provisions for price escalation and star rate differences for materials such as cement and steel be incorporated in the tender conditions	As per NIT
		Schedule B (Item no 47)	5. Clarification regarding use of Grader/Paver for GSB Work (Item no 47) it is requested to kindly clarify whether the use of a mechanical paver is mandatory for the constuction of Granular Sub base (GSB) as per item no.47 of tender No.1 or other similar works, whether the same work can be carried out using a motor grader equipped with appropriate controls and compaction by vibratory roller as per standard MoRTH Clause 401, both paver and grader methods are permissible depending on site conditions and layer uniformity requirements. Hence it is requested that the tender condition may be suitably relaxed to allow the use of either a motor grader or paver for laying GSB material, ensuring compliance with the required density and grading compliances	As per NIT
			6. On Scope and responsibilities kindly confirm whether the corporation will provide the approved list of quarries in advance, or the contractor is expected to identify and obtain approvals independently.	As per NIT
			7. Clarification regarding validity and issuing authority of distance certificate it is requested to kindly clarify whether a distance certificate already issued by the Executive Engineer, PWD for Asphalt plant and RMC plant, valid for a period of one year and certified by the Assistant Engineer(mechanical) shall be accepted for this tender. since the said certificate is issued by a competent government authority and is valid for the specified period, we request that the same be considered sufficient and that bidders may not be required to obtain a fresh distance certificate from the executive engineer, quality control department, NMC	As per NIT

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		1.3 Financial Turnover and Bid Capacity, page No 11	8. Application of Multiplication factors for work executed it is requested to kindly clarify that the escalation (multiplication) factors prescribed in the tender document (for financial year 2020-21 to 2024-25) should be applicable not only for turnover calculations but also for the value of work executed during the corresponding years applying the same factors uniformly to both turnover and executed work value will ensure a fair assessment of the contractor 's financial and technical capacity, in line with the provisions of the GoM GR updated 27/09/2018 (CAT/2017/Pra.Kra-08/इमा -2)	Refer CSD
		1 Detailed Tender Notice, Point 11, Page No 7	9. Joint Venture Participation JV shall be allowed amongst existing asphalt plant (min 80 TPH capacity) and ready mix concrete plant (min 60 cu.m/hr capacity) holders for work experience and quantity experience for the required quntities in the tender possessing distance certificates within a 30km radius from the head office	As per NIT
			10. Acceptance of security bonds for performance security and initial security deposit It is requested that the department may kindly allow submission of security bonds (insurance Surety Bond) in place of bank guarantee cash or fixed deposit receipts towards : 1. performance security 2. Initial security deposit as per the latest GoM and Ministry of Finance guidelines permitting insurance surety bonds as acceptable instruments for tender security and performance guarantees	Refer CSD

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
14	Lokmanya Enterprises		In that civil tender electrical works are also included in this tender information there is no technical criteria mentioned / asked for electrical works. As per government norms it is compulsory that, all electrical works should be carried out by Govt. Licensed Electrical contractor only. Also in tender Document Defect liability period for Electrical Work is 5 Years with onsite 5 years comprehensive Maintance. Hence we are trying taking your attention that the meaning of comprehensive Maintance is "Comprehensive maintenance refers to an all-inclusive maintenance contract that covers both routine preventive work and unplanned repairs, including the cost of labor and replacement spare parts, and often provides emergency service and remote support" & this is when the system is in operation & Maintance Contract like Annual Maintance Contract. In the above situation after completion of work, it is handed to NMC Elect. Dept. & then system is operated by NMC (Electrical) Dept. & third party Contractor TATA Project. In this situation comprehensive Maintance criteria should not be imposed as due to negliance of operating dept. the system may be failed. Hence the tender condition under General Condition Clause No-11 of onsite 5 years comprehensive Maintance should be cancelled for all items except LED , as for LED fittings Manufacturer is giving the 5 years warranty with their terms conditions. Hence it is our humble request you to kindly remove the Electrical works from the above mention 18 civil works and please published separate tender for electrical work for all locations.	As per NIT
15	Anand Construwell Pvt. Ltd	C) Supporting Documentation: Bid capacity A statement showing the value of existing commitments and ongoing works (for the next three years) shall be certified by a Chartered Accountant and countersigned by the Engineer In-Charge not below the rank of Executive Engineer or equivalent.	"We kindly request that the statement showing the value of existing commitments and ongoing works for the next three years be accepted only if it is certified by a Chartered Accountant. and "The condition requiring countersignature by an Engineer not below the rank of Executive Engineer or equivalent may kindly be deleted."	Refer CSD
		1.1.a Machinery (1) Asphalt / RMC Batch Mix Plant : Above said plant shall be located within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from issuance of LOA, the bidder shall be submit certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation	It is our earnest request to consider the Asphalt and RMC plants, which are already in existence within 30 Kms from the Nashik Municipal headquarters, at the time of submission of tenders may only be considered eligible for the tendering process.	As per NIT
		Clause 57, (Note), Page No. 49 As per the guidelines dated 27/09/2018, there is no provision for Price variation, Star rate for this work	Since the fund allocation is not clear, its requested to incorporate price variation clause or star rate	As per NIT
16	Ajwani Infrastructure Pvt.Ltd	Clause 6.34 Mobilization Advance- No mobilization advance shall be paid under this contract	We request you to consider payment of 10% interest free mobilization advance and 10% interest free machinery advance of the contract price to augment the cash flow of the contract	As per NIT

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		2 Important Condition of contract d) Payments of the work shall be made subject to availability of fund	We request you to specify the source of funds and confirm the assured availability of funds for the subject work. Since timely payments are critical for smooth execution, clarity on fund allocation and disbursement mechanism will help bidders to assess financial risk and quote competitively	As per NIT
		Detailed tender notice Time limit: upto 31st March 2027	please specify the exact completion period (In months/days)instead of mentioning "upto 31st march 2027" the exact duration is essential for bidders to: 1. calculate bid capacity as per tender conditions 2. prepare realistic work programmes and resource planning	As per NIT
		Clause 2.3 Land availability, alignment clearance and tender process implications	Encumbrances are existing in the ROW defined in the tender. You are requested to confirm whether 100% ROW is free of encumbrance will be handed over prior to start of the work	As per NIT
		Allotment of works	to ensure wider participation, timely completion and fair distribution of works among multiple bidders, we request the authority to incorporate a clause restricting the allotment of a maximum of 2 works to a single bidder, even if the bidder emerges as L-1 in more than two works. this will avoid concentration of multiple works with a single agency and will safeguard NMC from the risk of failure of completion before March 2027.	As per NIT
		Detailed tender notice, P.No 8 a) for concrete road work costing more than 4cr Sr.1 Clause a),b) and c) Page 20 - Clause 3.1.1 all documents as required vide this notice including but not limited to list given below vii. Scanned copy of verification certificate of Executive Engineer regarding plant location given in tender document	There is an ambiguity.Page 8 states that the certificate regarding plant location is to be obtained and submitted within 45 days of LOA, while at page 20 indicates that the same certificate is to be submitted along with the bid. These two conditions contradict each other. To avoid ambiguity, it is requested to kindly amend the clause No vii at page 20 as "Bidders shall provide an undertaking regarding assurance of arrangement of an Asphalt Batch mix plant as per tender requirements on award of work"	As per NIT
17	G.R Constructions	Hydraulic Paver Finisher with Automatic - 1 No. Owned	Hydraulic Paver Finisher with Automatic - 1 No. Owned / Hire	As per NIT
		Satisfactorily executed following minimum quantities of the items in one single year from works completed in last Seven years. 1) BC/AC 30% Qty. of Schedule ' B'	Satisfactorily executed following minimum quantities of the items in one single year from works completed in last Seven years. 1) BC/AC/Mastic 30% Qty. of Schedule ' B'	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
18	B.S.Chopra and associates	Clause 1.1 Eligibility Criteria, Machinery (Page No 8) **Sr. No. 1. After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, meets the required capacity and standards, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for.**	1) Distance Certificate Eligibility for this tender is strictly limited to contractors who possess established and operational Asphalt Batch Mix Plants and Ready Mix Concrete (RMC) Plants located within a 30-kilometer radius of the Nashik Municipal Corporation Headquarters (Rajiv Gandhi Bhavan) Limiting participation to contractors with readily available, nearby facilities ensures higher material quality, guarantees on-time project completion, and minimizes logistical and transportation complicationsvvv	As per NIT
			2) Availbility of Machinery and Staff during Defect Liability Period (DLP) Please clarify whether the contractor is obligated to maintain a local, stationed presence of essential machinery and technical personnel throughout the DLP for timely handling of maintenance and repair work. This will ensure timely response to any defects observed during the DLP and maintain the desired quality and serviceability of the executed work	As per NIT
			3) Provision for Price Escalation and Star Rate Difference As the allocation of project funds has not been clearly specified, it is requested that, in accordance with the Government of Maharashtra GR on Price Escalation, suitable provisions for price escalation and star rate differences for materials such as cement and steel be incorporated in the tender cond tions. This will ensure financial fairness to the contractor in case of increase in material and labour costs during the execution period, and will help maintain the c lity and timely completion of the work as per government norms	As per NIT
			4) Clarification Regarding Use of Grader / Paver for GSB Work (Item No. 47) We request clarification: Is a mechanical paver mandatory for GSB work (Tender Item 47), or can the process be substituted by using a controlled motor grader for; spreading and a vibratory roller for compaction As per standard MoRTH Clause 401, both paver and grader methods are permissible depending on site conditions and layer uniformity requirements. Hence, it is requested that the tender condition may be suitably relaxed to allow the use of either a motor grader or paver for laying GSB material, ensuring compliance with the required density and grading specifications.	As per NIT

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
			5) On Scope & Responsibilities •Kindly confirm whether the Corporation will provide the approved list of quarries in advance, or the Contractor is expected to identify and obtain approvals independently.	As per NIT
			6) On Risk & Liability •We seek clarification on whether the liability for material-rel*ed defects (like pavement failure) rests solely with the Contractor, or if the Corporation assumes shared responsibility, since the materials were officially sanctioned by them.? •Please clarify whether approvals once granted can be revoked mid-project, and what compensation (if any) will be payable to the Contractor.	As per NIT
			7) Clarification Regarding Validity and Issuing Authority of Distance Certificate Please clarify if the tender will recognize a valid, one-year Distance Certificate for the Asphalt and RMC Plants, provided it was formally issued by the PWD Executive Engineer and authenticated by the Assistant Engineer (Mechanical) Given that the current certificate is valid and issued by a recognized government authority, we ask that you waive the requirement for bidders to secu. a fresh Distance Certificate from the NMC Quality Control Department	As per NIT
			8) Lead Charges for Quarry Material We request that the calculation of lead charges for quarry materials be uniformly restricted to a maximum distance of 20 kilometres, consistent with the distance specified in the original tender estimate Should the Engineer-in-Charge mandate the use of an approved quarry situated beyond the 20-kilometre lead distance, the Nashik Municipal Corporation is kindly requested to reimburse the additional transportation (lead) charges based on the actual distance. The adjustment ensures both financial fairness for contractors and operational practicality for the project, aligning compensation with actual site-specific requirements.	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
			9) Star Rate and Escalation Clause We kindly request a clear provision regarding the application of Star Rates and Price Escalation throughout the work execution period. Please confirm that the relevant guidelines specified in the PWD Government Resolution will be strictly implemented for these financial adjustments. Since the tender is based on current market rates, it is suggested that •Star Rates for materials not covered in the schedule (DTP/SSR) be approved by the Engineer-in-Charge, based on prevailing market rates at the time of execution. •In case of delay not attributable to the contractor, or in case of variation in material/labour costs, the escalation clause (price adjustment) as per standard PWD / MJP / CPWD practice may be made applicable.	As per NIT
			10) Availability of Machinery and Equipment We request confirmation that all necessary movable equipment for the project (e.g., paver, roller, grader, tipper) can be sourced through either contractor ownership or verified rental/lease agreements. This flexibility should apply to all machinery other than the mandatory Asphalt Batch Mix Plant." Allowing equipment to be rented or leased will boost competition by encouraging wider participation from qualified contractors, all while ensuring compliance with our project's technical requirements and quality standards.	Refere CSD
			11) Eligibility Criteria We request confirmation that the financial escalation factors provided in the tender document (covering FY 2020-21 to 2024-25) must be uniformly applied to both the contractor's annual turnover and the corresponding value of work executed. This application is intended to align the evaluation process with the Government of Maharashtra GR dated 27/09/2018. This uniform application aligns the assessment of the contractor's financial and technical capacity with the standards set forth in the Government of Maharashtra GR dated 27/09/2018, ensuring an equitable evaluation. The aim is to uphold clarity and fairness in assessing each contractor's capacity to undertake the project	Refer CSD

B. D. SORATHIA
PARTNER / AUTH. SIGN

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
19	Alson Electricals		It is mandatory to that, all electrical works should be done by Electrical Licensed contractor only. As per tender DTP the DLP period given for all electrical material is 60 Months. Actually in other tenders 60 months DLP period is to be considered only for LED Street light fittings. So we request you to consider the regular DLP period Le. 12 months for other electrical item like Cable, Pole Transformer, Conductor etc. It is our humble request you to remove the Electrical works from the above mention 18 civil works and please published separate tender for electrical work for all locations.	As per NIT
20	SGA Electric Corporation		Electrical works should be carried out by Govt. Licensed Electrical contractor only.	As per NIT
		General Condition Clause No-11	"Comprehensive maintenance refers to an all-inclusive maintenance contract that covers both routine preventive work and unplanned repairs, including the cost of labor and replacement spare parts, and often provides emergency service and remote support & this is when the system is in operation & Maintance Contract like Annual Maintance Contract." In the above situation after completion of work, it is handed to NMC Elect. Dept. & then system is operated by NMC (Electrical) Dept. & third party Contractor TATA Project. In this situation comprehensive Maintance criteria should not be imposed as due to negliance of operating dept the system may be failed. Hence the tender condition under General Condition Clause No-11 of onsite 5 years comprehensive Maintance should be cancelled for all items except LED, as for LED fittings Manufacturer is giving the 5 years warranty with their terms conditions.	As per NIT
			Kindly remove the Electrical works from the above mention 18 civil works and please published separate tender for electrical work for all locations.	As per NIT
21	Jaquar Group		Brand name Jaquer is missing In LED Fittings category. Kindly request to incorporate Jaquar brand in it	As per NIT
22	Suyog Infra		Kindly remove the Electrical works from the above mention 18 civil works and please published separate tender for electrical work for all locations.	As per NIT
			1. Eligibility Criteria (Machinery List): In point no. 2, the requirement specifies "Hydraulic Paver Finisher (with minimum screed width 9 metres)". We request you to kindly relax this condition to "Hydraulic Paver Finisher (with	Refer CSD
			2. Price Escalation: Considering the large quantities of bitumen and cement involved in the tender, and their fluctuating market rates, we request you to allow Star Rate/Price Escalation provisions.	As per NIT
			3. Bid Capacity: The formula for calculating bid capacity has not been mentioned in tender document	As per NIT

B. D. SORATHIA & CO.
PARTNER/AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
23	RPS Infraprojects	**1. Tender Clause Page No.13 Important Conditions Contract 2.i** All Tenderer/bidder must note that after completion of tender procedure the successful Tenderer/ bidder shall take out necessary Insurance Policy / Policies so as to provide adequate insurance cover for execution of the awarded contract work from the "Directorate of Insurance, Maharashtra State Mumbai" only. It's Postal address	We must be permitted to take insurance cover from reputed pvt Insurers also	As per NIT
		2. Tender Clause Page No.15 Important Conditions Contract 2.3 2.3 Land Availability, Alignment Clearance, and Tender Process Implications (Road Works) The proposed road works are of critical importance and are time-bound in view of the forthcoming SimhastaKumbhamela 2027. The Simhasta Kumbhamela Road Development Project has received formal approval from the Nashik–Trimbakeshwar Kumbhamela Pradhikaran vide letter dated 14/09/2025 and all conditions given below, stipulated in the said letter of the Administrative Approval shall be binding on the tenderer/contractor. In certain stretches of the proposed works, delays or difficulties may arise in acquisition of land,obtaining right-ofway,or securing alignment clearance. Accordingly, all tenderers are strictly advised to visit the site, examine theground conditions, review the proposed alignment, and take into account land availability, right-of-way constraints and all related challenges prior to submission of their bids. Furthermore, in the event that: the required land is not made available, alignment or right-of-way clearance is notgranted, or the Competent Authority proposes changes in the overall treatment, modifies the Administrative Approval amount, or reduces the sanctioned length of work, then the tender process may be withheld, cancelled,withdrawn, or reassigned under separate arrangements, as may be decided by the Competent Authority.In all such circumstances, no claim, demand, compensation, or financial liability of any nature whatsoever shall beentertained from any bidder or contractor. Tenderers shall be deemed to have factored in all such risks,dependencies, and conditionalities while preparing and submitting their bids.	Extention of time Limit to be granted in proportion to delays in site handover and local hindrances in R.O.W	As per NIT
		3. Tender Clause Page No.59 Important Conditions Contract 69 6.42 Deviation limit Quantities shown in the Tender are approximate and no claim shall be entertained for quantities of work executed being either more or less than those entered in the tender or estimate, to any extent.	Total devisation limit should be fixed at maximum 5% of contract sum.Individual item variation can be to any extent based on site conditions.	As per NIT
		4. Tender Clause Page No.69 & 70 Important Conditions Contract 6.69.i 6.69.1 MINIMUM CEMENT CONSUMPTION: Minimum cement consumption per cubic meter of concrete for the different grades of concrete shall be as follows	Cement Consumption for various Grade of concrete to be allowed as per relevant IS codes.	As per NIT

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		5. Tender Clause-2.3 Page No.15 Important Conditions Contract 2.3 2.3 Land Availability, Alignment Clearance, and Tender Process Implications (Road Works) The proposed road works are of critical importance and are time-bound in view of the forthcoming Simhasta Kumbhamela 2027. The Simhasta Kumbhamela Road Development Project has received formal approval from the Nashik–Trimbakeshwar Kumbhamela Pradhikaran vide letter dated 14/09/2025 and all conditions given below, stipulated in the said letter of the Administrative Approval shall be binding on the tenderer/contractor.In certain stretches of the proposed works, delays or difficulties may arise in acquisition of land, obtaining right-ofway,or securing alignment clearance. Accordingly, all tenderers are strictly advised to visit the site, examine theground conditions, review the proposed alignment, and take into account land availability, right-of-way constraints,and all related challenges prior to submission of their bids. Furthermore, in the event that: the required land is not made available, alignment or right-of-way clearance is notgranted, or the Competent Authority proposes changes in the overall treatment, modifies the Administrative Approval amount, or reduces the sanctioned length of work, then the tender process may be withheld, cancelled,withdrawn, or reassigned under separate arrangements, as may be decided by the Competent Authority. In all such circumstances, no claim, demand, compensation, or financial liability of any nature whatsoever shall beentertained from any bidder or contractor. Tenderers shall be deemed to have factored in all such risks, dependencies,	We have to erect plant at 30 km from Rajiv Gandhi Bhavan as mandated in tender.NMC to arrange suitable land for the same	As per NIT
		6. Tender Clause no.1.1 C a) Page no.11 b) After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shifl, and install his own stationary/mobile Concrete Batch Mix Plant of the above specification and minimum 60 Cu.m. per hour capacity with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder and is located within the specified 30 km limit.	Time for erection and operation of Asphalt plant to be 60 Days From L.O.A	Refer CSD
		7. Royalty charges to be Paid by Contractor 2(viii) on page no 13	Royalty charges on minor mineral consumed in work to be reimbursed as per Govt norms.	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
24	Shah & Parikh Engineer	**1. Tender Clause Page No.13 Important Conditions Contract 2.i.** All Tenderer/bidder must note that after completion of tender procedure the successful Tenderer/ bidder shall take out necessary Insurance Policy / Policies so as to provide adequate insurance cover for execution of the	We must be permitted to take insurance cover from reputed pvt Insurers also	As per NIT
		2. Tender Clause Page No.15 Important Conditions Contract 2.32.3 Land Availability, Alignment Clearance, and Tender Process Implications (Road Works) The proposed road works are of critical importance and are time-bound in view of the forthcoming SimhastaKumbhamela 2027. The Simhasta Kumbhamela Road Development Project has received formal approval from the Nashik–Trimbakeshwar Kumbhamela Pradhikaran vide letter dated 14/09/2025 and all conditions given below, stipulated in the said letter of the Administrative Approval shall be binding on the tenderer/contractor. In certain stretches of the proposed works, delays or difficulties may arise in acquisition of land,obtaining right-ofway,or securing alignment clearance. Accordingly, all tenderers are strictly advised to visit the site, examine theground conditions, review the proposed alignment, and take into account land availability, right-of-way constraints and all related challenges prior to submission of their bids. Furthermore, in the event that: the required land is not made available, alignment or right-of-way clearance is notgranted, or the Competent Authority proposes changes in the overall treatment, modifies the Administrat ve Approval amount, or reduces the sanctioned length of work, then the tender process may be withheld, cancelled,withdrawn, or reassigned under separate arrangements, as may be decided by the Competent Authority.In all such circumstances, no claim, demand, compensation, or financial liability of any nature whatsoever shall beentertained from any bidder or contractor. Tenderers shall be deemed to have factored in all such risks,dependencies, and conditionalities	Extention of time Limit to be granted in proportion to delays in site handover and local hindrances in R.O.W	As per NIT

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		3.Tender Clause-2.3 Page No.15 Important Conditions Contract 2.3 2.3 Land Availablity, Alignment Clearance, and Tender Process Implications (Road Works) The proposed road works are of critical importance and are time-bound in view of the forthcoming Simhasta Kumbhamela 2027. The Simhasta Kumbhamela Road Development Project has received formal approval from the Nashik–Trimbakeshwar Kumbhamela Pradhikaran vide letter dated 14/09/2025 and all conditions given below, stipulated in the said letter of the Administrative Approval shall be binding on the tenderer/contractor.In certain stretches of the proposed works, delays or difficulties may arise in acquisition of land, obtaining right-ofway,or securing alignment clearance. Accordingly, all tenderers are strictly advised to visit the site, examine theground conditions, review the proposed alignment, and take into account land availability, right-of-way constraints,and all related challenges prior to submission of their bids. Furthermore, in the event that: the required land is not made available, alignment or right-of-way clearance is notgranted, or the Competent Authority proposes changes in the overall treatment, modifies the Administrative Approval amount, or reduces the sanctioned length of work, then the tender process may be withheld, cancelled,withdrawn, or reassigned under separate arrangements, as may be decided by the Competent Authority. In all such circumstances, no claim, demand, compensation, or financial liability of any nature whatsoever shall beentertained from any bidder or contractor. Tenderers shall be deemed to have factored in all such risks, dependencies, and conditionalities	We have to erect plant at 30 km from Rajiv Gandhi Bhavan as mandated in tender.NMC to arrange suitable land for the same.	As per NIT
		4.Tender Clause no.1.1 C a) Page no.11 b) After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shifl, and install his own stationary/mobile Concrete Batch Mix Plant of the above specification and minimum 60 Cu.m. per hour capacity with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder and is located within the specified 30 km limit.	Time for erection and operation of Asphalt plant to be 60 Days From L.O.A	Refer CSD
		5. Royalty charges to be Paid by Contractor 2(viii) on page no 13	Royalty charges on minor mineral consumed in work to be reimbursed as per Govt norms.	As per NIT

B. D. SORATHIA & CO.
PARTNER/AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		6.Asphalt batch mix plant to be owned clause no page no	i) Assured access to Asphalt plant through confirmed lease agreement ii)To permit successful tenderer to procure and Install Asphalt plant within 60 days after L.O.A	Refer CSD
25	saket Infra	1. Tender Clause Page No.13 Important Conditions Contract 2.i . . All Tenderer/bidder must note that after completion of tender procedure the successful Tenderer/ bidder shall take out necessary Insurance Policy / Policies so as to provide adequate insurance cover for execution of the awarded contract work from the "Directorate of Insurance, Maharashtra State Mumbai" only. It's Postal address	Insurance cover to be permitted from private insurers also	As per NIT
		2. Tender Clause Page No.15 Important Conditions Contract 2.3 2.3 Land Availability, Alignment Clearance, and Tender Process Implications (Road Works) The proposed road works are of critical importance and are time-bound in view of the forthcoming SimhastaKumbhamela 2027. The Simhasta Kumbhamela Road Development Project has received formal approval from the Nashik–Trimbakeshwar Kumbhamela Pradhikaran vide letter dated 14/09/2025 and all conditions given below, stipulated in the said letter of the Administrative Approval shall be binding on the tenderer/contractor. In certaln stretches of the proposed works, delays or difficulties may arise in acquisition of land,obtaining right-ofway,or securing alignment clearance. Accordingly, all tenderers are strictly advised to visit the site, examine theground conditions, review the proposed alignment, and take into account land availability, right-of-way constraints and all related challenges prior to submission of their bids. Furthermore, in the event that: the required land is not made available, alignment or right-of-way clearance is notgranted, or the Competent Authority proposes changes in the overall treatment, modifies the Administrative Approval amount, or reduces the sanctioned length of work, then the tender process may be withheld, cancelled,withdrawn, or reassigned under separate arrangements, as may be decided by the Competent Authority.In all such circumstances, no claim, demand, compensation, or financial liability of any nature whatsoever shall beentertained from any bidder or contractor. Tenderers shall be deemed to have factored in all such risks,dependencies,	Proportionate Extention of time Limit to be granted on account of delays in site handover and Third Party obstructions	As per NIT
		3. Tender Clause Page No.59 Important Conditions Contract 69 6.42 Deviation limit Quantities shown in the Tender are approximate and no claim shall be entertained for quantities of work executed being either more or less than those entered in the tender or estimate, to any extent.	Deviation Limit to be Fixed 5% of contract sum and 25 % in Individual Items	As per NIT

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		4. Tender Clause Page No.69 & 70 Important Conditions Contract 6.69.i 6.69.1 MINIMUM CEMENT CONSUMPTION: Minimum cement consumption per cubic meter of concrete for the different grades of concrete shall be as follows	Cement Consumption for various Grade of concrete to be permitted as per mix design attaining Desired Strength as per revelant IS Codes /MORTH specifications.	As per NIT
		5. Tender Clause-2.3 Page No.15 Important Conditions Contract 2.3 2.3 Land Availability, Alignment Clearance, and Tender Process Implications (Road Works) The proposed road works are of critical importance and are time-bound in view of the forthcoming Simhasta Kumbhamela 2027. The Simhasta Kumbhamela Road Development Project has received formal approval from the Nashik–Trimbakeshwar Kumbhamela Pradhikaran vide letter dated 14/09/2025 and all conditions given below, stipulated in the said letter of the Administrative Approval shall be binding on the tenderer/contractor.In certain stretches of the proposed works, delays or difficulties may arise in acquisition of land, obtaining right-ofway,or securing alignment clearance. Accordingly, all tenderers are strictly advised to visit the site, examine theground conditions, review the proposed alignment, and take into account land availability, right-of-way constraints,and all related challenges prior to submission of their bids. Furthermore, in the event that: the required land is not made available, alignment or right-of-way clearance is notgranted, or the Competent Authority proposes changes in the overall treatment, modifies the Administrative Approval amount, or reduces the sanctioned length of work, then the tender process may be withheld, cancelled,withdrawn, or reassigned under separate arrangements, as may be decided by the Competent Authority. In all such circumstances, no claim, demand, compensation, or financial liability of any nature whatsoever shall beentertained from any bidder or contractor. Tenderers shall be deemed to have factored in all such risks, dependencies,	Adequate Land for RMC/Asphalt Plant And Temporary Facilities to be made available within 30 kms fromat Rajiv Gandhi bhawan as mandated in tender	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		6.Tender Clause no.1.1 C a) Page no.11 b) After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shifl, and install his own stationary/mobile Concrete Batch Mix Plant of the above specification and minimum 60 Cu.m. per hour capacity with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA, the tenderer/bidder shall submit a certificate issued by the Executive Engineer. Quality Control Department. Nashik Municipal Corporation. confirming that the said plant has been installed within the stipulated period. is owned outright by the tenderer/bidder and is located within the specified 30 km limit.	Time for erection and operation of RMC /Asphalt plant to be 60 Days From L.C.A	Refere CSD
		7.Royalty charges to be Paid by Contractor 2(viii) on page no 13	Royalty charges on minor mineral consumed in work to be reimbursed as per Govt norms.	As per NIT
26	Aakar Constructions, Nashik	**1.1.a Machinery (1)** Asphalt / RMC Batch Mix Plant : Above said plant shall be located within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from issuance of LOA, the bidder shall be submit certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation	It is our earnest request to consider the Asphalt and RMC plants, which are already in existence within 30 Kms from the Nashik Municipal headquarters, at the time of submission of tenders may only be considered eligible for the tendering process.	As per NIT
		1.1.a Machinery (2) Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled) : Width : 9.00 mtr Mode of availability : Owned	Please allow hire agreement for said machinery (9.00m width) instead of owned paver.	Refer CSD
		Hydraulic Concrete Paver (with SCADA) : Width : 7.5 mtr Mode of availability : Owned	Please allow hire agreement for said machinery (7.50m width) instead of owned paver.	Refer CSD
		1.1.a Machinery (5) Static roller 8 to 10 Tonne/ smooth wheeled power roller	Please permit to use vibratory road roller instead of static roller. Or Please allow hire agreement for said machinery instead of owned.	As per NIT
		1.3 - B BID CAPACITY A statement showing the value of existing commitments and ongoing works (for the next three years) shall be certified by a Chartered Accountant and countersigned by the Engineer-in-Charge not below the rank of Executive Engineer or equivalent.	Please request that the statement showing the value of existing commitments and ongoing works for the next three years be accepted only if it is certified by a Chartered Accountant. and The condition requiring counter signature by an Engineer not below the rank of Executive Engineer or equivalent may kindly be deleted.	Refer CSD

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
		Clause 57, (Note), Page No. 49 As per the guidelines dated 27/09/2018, there is no provision for Price variation, Star rate for this work	Since the fund allocation is not clear, its requested to incorporate price variation clause or star rate.	As per NIT
27	Mahalaxmi Constructions	**Clause 1.1 Eligible Critera, Point 1.2** Satisfactorily executed 30% quantity of following items in one single year in last seven years : 1)WBM+GSB+WMM 2)BM 3)DBM 4)BC/AC	as per earlier tender qualification criteria of NMC there are BM+DBM quantities consider for tender like WBM+GSB+WMM, we hereby request to allow BM+DBM quantities for fare and genuine competition	As per NIT
28	Kranti Constructions	**Detailed E Tender Notice 11), P.No7** Joint Venture: Joint Venture agreement in any form shall not be allowed	Considering the cost & quantum of the work it is requested you to allow the joint venture	
29	Vinod Luthra & Associates		1. Exclusion of Electrical Work The scope of the work includes electrical works along with bituminous road works. We humbly request that the electrical portion be excluded from this tender, as we do not possess adequate expertise in electrical execution. Getting the same executed through sub-contracting will be a challenging task for us. If the electrical works are floated separately, the Nashik Municipal Corporation will benefit from greater competition among qualified electrical contractors across India. This will not only ensure better service, quality, and workmanship but also result in an approximate saving of 15-20% of the electrical contract value.	As per NIT
			2. Aggregate Quality and Mix Design You are aware of the varying quality of stone aggregates available in Nashik district. Hence, we request that a mix design be prepared for every aggregate source from different quarries. The percentage of bitumen required for DBM, AC, and DM layers may accordingly be determined and applied.	As per NIT
			3. Lead Charges for Aggregates We request that lead charges for aggregates be paid as per actuals, duly certified by the Engineer-in-Charge and approved by Quality Control.	As per NIT
			4. Bank Guarantee / Security Bond As per PWD-GR manual and practice, instead of insisting on a bank guarantee, it is requested that the same be replaced with a Security Bond, which will reduce the financial burden on Plot	As per NIT
		Clause 6.34 Mobilisation advance – no mobilisation advance shall be paid under this contract.	5. Mobilization Advance Provision of mobilization advance may kindly be incorporated in the tender form to facilitate smooth commencement of work.	As per NIT
			6. Release of Payment and Security Deposit We request that immediately upon completion of work, the total payment be released without deduction of 10% towarsd security deposit. This will improve cash flow and ease financial stress on contractors.	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
			7 Chartered Accountant Certification Once a certificate is issued by the Executive Engineer, in such cases only acertificate from a Chartered Accountant may be accepted, and no further conditions may be imposed.	As per NIT
			8. Work Balance Certificate We submit these suggestions for your kind consideration in the interest of improving quality, transparancy, and economy of the work.	As per NIT
		Clause 1.1 Eligibility Criteria, Machinery (Page No 8) **Sr. No. 1. After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, meets the required capacity and standards, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for.**	9. Distance Certificate - Requesting that Asphalt and RMC plants within 30 km of Nashik Municipal HQ. be considered valid for tender eligibility.	As per NIT
		Clause 57, (Note), Page No. 49 As per the guidelines dated 27/09/2018, there is no provision for Price variation, Star rate for this work	10. Price Escalation / Star Rate Difference -Asking for provisions in line with Maharashtra Government GR to cover rising costs of cement, steel, labour, etc as there is no provision of funds with NMC for these works.	As per NIT
		Schedule B (Item no 47)	11. Use of Grader / Paver for GSB Work - Seeking clarification if Item 47 (GSB construction) must use a paver, or whether a grader with proper compaction is acceptable (as per MoRTH 401).	As per NIT
		1.1 Eligibility criteria Page no 8	12. Machinery & Equipment - Requesting flexibility to allow contractors to use owned or rented machinery (except Asphalt Batch Mix Plant, which is mandatory) movable machinery like grader & 9 miter paver will be provided during work execution or allow 5.5 miter Sencer paver.	As per NIT except TM
		1.3 Financial Turnover and Bid Capacity Page no 11	13. Additional Point for Consideration: Application of Financial Multiplication Factors (PWD GR) As per the Government of Maharashtra PWD Government Resolution, for bringing financial figures to a common base value, completed works from previous years are to be multiplied by prescribed factors — 1.10 for 1st year, 1.21 for 2nd year, 1.23 for 3rd year, 1.46 for 4th year, and 1.61 for 5th year. In the tender form, this factor has presently been applied only for the annual turnover. However, as per the said Government Resolution, the same multiplication factor is also required to be applied for the executed amount of work completed.	As per CSD

B. B. GOKHALE & CO.
PARMANAND MITTAL MEHTA

Road Tenders				
Sr. No.	Name of Agency	Clause Details	Queries	Response
			As per the PWD Government Resolution and norms, the escalation factor is applicable not only to the turnover but also to the work executed amount. However, in the present tender form, it appears that due to a typographical error or oversight, the words WORK "executed amount" to be considered for escalation have not been included. We therefore request you to kindly rectify this and include the WORK executed amount for application of the escalation factor and index, in line with PWD norms & G.R.	As per NIT
30	ST Kundariya		Dear Madam, In view of the above reference, I, M.S.T. Kundariya, (Electrical Contractor), Nashik, hereby submit that we have the experience of completing the electrical works in Simhasthata in the past in a timely and satisfactory manner. However, since the electrical works have been published in the Simhasthata Works M.N.P. Nashik Construction E-Tender Notice No. 3 for the year 2025-26 (Work No. 1 to 18), the electrical contractor will be the one to complete the electrical works in the said Simhasthata. Please kindly request you that all electrical works of Simhastha Works M.N.P. Nashik Construction E-Tender Notice No.3 Year 2025-26 (Work No. 1 to 18) and onwards should be published as separate tenders by M.N.P. Nashik Electricity Department as usual. Therefore. Electrical contractors and their dependent employees will get employment opportunities and since they are local workers, it will be easy to carry out electrical works and carry out maintenance and repair on time/expeditiously. This is a humble request to get justice from you.	As per NIT
31	F.C.Rodrigues	**Detailed E Tender Notice 11), P.No7** Joint Venture: Joint Venture agreement in any form shall not be allowed	Permission of Joint Venture	As per NIT
		Clause 57, (Note), Page No. 49 As per the guidelines dated 27/09/2018, there is no provision for Price variation, Star rate for this work	**Inclusion of price escalation star rate clause** Given the volatility in the market prices of materials (Such as cement, steel, fuel, bitumen)and labor which may prevail over the contract period, we strongly request the inclusion of a suitable price escalation star rate clause	As per NIT
		6.70 Bituminous Works b) Plant and Machinery, Asphalt Batch mix plant Clarification Regarding Validity and Issuing Authority of Distance Certificate	**Point for the distance certificate** It is our earnest request to consider the Asphalt and RMC plants, which are already in existance within 30 kms from the NMC at the time of submission of tenders may only be considered eligible for the tendering process	As per NIT

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Road Tenders				
Sl. No.	Name of Agency	Clause Details	Queries	Response
32	JB Infrastructure		Firstly, we would like to request exemption from pre-qualification criterion regarding ownership of an asphalt Batch mix Plant as our company has well experience asphalt road work and capable of executing similar quantum of asphalt road work. As per the tender condition in this regard it is requested to accept our MOU signed with the local Asphalt plant owner before starting the work. We believe our expertise and resources make us a suitable candidate for this project,and we would appreciate consideration for exemption from this requirement.	As per NIT
		Schedule B	Item No B6 of tender no-03/05 -Providing and supplying ISI standard MS specials of required thickness with 3 coats of approved make epoxy paint (Shalimar, Ciba or Mahindra & Mahindra make) from inside and outside including all statutory duties & taxes such as GST levied by GOI & GOM in all respect, inspection charges, transportation to stores / site, and stacking. etc. complete. MJP DSR Page no 72 Sr No 7 (d) 0.00 SECTION-I(I) C.I./D.I. PIPES (70) Unit of quantity -killometre(Please clarify)	As per NIT
			Item no.D-15 of tender no-03/08 Supplying, fitting and fixing in position true to line and level Elastomeric Bearing including all accessories as per drawing and technical specifications and IRC:83 (Pt-II) section IX and clause 2005 of MoRTH specifications etc. complete.(SSR Item No-13.07)	As per NIT
			Can we work during monsoon? Time Period of payment after submission of bills.	As per NIT
33	M.G.Nair	Eligibility criteria, machinery	1)Hydraulic paver finisher machine of 6mt wide may be allowed for simhasta project	Refer CSD
			2) motor grader should be allowed on hire basis	As per NIT
34	M.T.Patil	1.3 Certificate of work experience in private sector, joint ventures, and unofficial sub-contracts will not be consider.	Kindly requested all certificate of work experience in Joint Venture should be considered. This procedure to considering experience in joint venture work done certificate. Work completed in joint venture the proportionate cost and experience will be considered as single work. (In proportionate to his % contribution in joint venture agreement) Recently tenders in PWD for Simhasta, joint venture work done allowed for work experience proportionate % contribution.	Refer CSD
35	Rushabh Construction		1. Earnest Money Deposit: We request you to kindly permit the payment of EMD in the form of a Bank Guarantee. minimum screed width up to 5.5 metres)" for wider participation.	As per NIT

परिशिष्ट-अ

Road Tenders

Sr. No.	Name of Agency	Clause Details	Queries	Response
35	Rushabh Construction		1. Earnest Money Deposit: We request you to kindly permit the payment of EMD in the form of a Bank Guarantee. minimum screed width up to 5.5 metres)" for wider participation.	As per NIT
			2. Eligibility Criteria (Machinery List): In point no. 2, the requirement specifies "Hydraulic Paver Finisher (with minimum screed width 9 metres)". We request you to kindly relax this condition to "Hydraulic Paver Finisher (with	Refer CSD
			3. Price Escalation: Considering the large quantities of bitumen and cement involved in the tender, and their fluctuating market rates, we request you to allow Star Rate/Price Escalation provisions.	As per NIT
			4. Bid Capacity: The formula for calculating bid capacity has not been mentioned in tender document	As per NIT
36	Electrical Contractors Association of Maharshtra		For simhasta 2027 electrical work tenders shall be published on e-tender by electrical department NMC instead of PWD NMC	As per NIT
37	Rajson Electrons		In that civil tender near about 33.25 Cr electrical works are included. Further in tender DTP there is no technical criteria mentioned / asked for electrical works, as per government norms it is mandatory to that, all electrical works should be done by Electrical Licensed contractor only. As per tender DTP the DLP period given for all electrical material is 60 Months. Actually in other tenders 60 months DLP period is to be considered only for LED Street light fittings. So we request you to consider the regular DLP period i.e. 12 months for other electrical item like Cable, Pole, Transformer, Conductor etc. It is our humble request you to remove the Electrical works from the above mention 18 civil works and please published separate tender for electrical work for all locations.	As per NIT

Executive Engineer (Works)
Nashik Municipal Corporation, Nashik

Executive Engineer (Works)
Nashik Municipal Corporation, Nashik

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

Nashik Municipal Corporation – Tender Notice No. 03 (2025-26)

Pre-Bid Meeting and Issuance of Addendum/Corrigendum

Nashik Municipal Corporation has invited bids for eight (18) works under Tender Notice No. 03 (2025-26). A Pre-Bid Meeting for the same was conducted online on 01/10/2025 at 16:00 hours. The meeting was attended by the following bidders:

1	B.T. Kadlag Construction Pvt. Ltd.	13	N. K. Varma	25	saket Infra
2	CKA Birla Group	14	Lokmanya Enterprises	26	Aakar Constructions, Nashik
3	Forcon Infra Pvt. Ltd.	15	Anand Construwell Pvt. Ltd	27	Mahalaxmi Constructions
4	N.M. Pekhale Infra Pvt. Ltd.	16	Ajwani Infrastructure Pvt.Ltd	28	Kranti Constructions
5	Rajaram Constructions	17	G.R Constructions	29	Vinod Luthra & Associates-2
6	Pawar Patkar Constructions Pvt. Ltd.	18	B. S. Chopra and associates	30	ST Kundariya
7	SGM Buildcon	19	Alson Electricals	31	F. C. Rodrigues
8	RE Infra Pvt Ltd.	20	SGA Electric Corporation	32	JB Infrastructure
9	SBD Infra Tech Pvt.Ltd	21	Jaquar Group	33	M.G Nair
10	Surya Total Lighting Solutions	22	Suyog Infra	34	M. T. Patil
11	Karyesh Construwell	23	RPS Infraprojects	35	Rushabh Construction
12	Gaurishankar Purohit	24	Shah & Parikh Engineer	36	Electrical Contractor Association of Maharashtra
				37	Rajson electron

Pursuant to discussions during the meeting, the following documents have been issued and shall form an integral part of the tender document:

- **Common Set of Deviations (CSD) – containing clarifications, amendments, and decisions arising from the Pre-Bid Meeting.**

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Nashik Municipal Corporation

परिशिष्ट-ब

COMMON SET OF DEVIATION / CORRIGENDUM / ADDENDUM
For Works Under Tender Notice No:-3 (2025-2026)

<table>
<tr><th>Sr.No</th><th>CLAUSE</th><th>ORIGINAL CLAUSE DETAILS</th><th>SHALL BE READ AS</th></tr>
<tr><td>1</td><td>Detailed Tender Notice, Sr. No.6, Date of Submission of :- Tender</td><td>The bids shall be submitted online through the e-tendering system on www.mahatender.gov. in for above work on or before date 10/10/2025 upto 15.00 hrs.</td><td>The bids shall be submitted online through the e-tendering system on www.mahatender.gov. in for above work on or before date 17/10/2025 upto 17.00 hrs.</td></tr>
<tr><td>2</td><td>Eligibility Criteria</td><td>Certificates of work experience in private sector, joint ventures, and unofficial sub-contracts will not be considered.</td><td>Official joint ventures experience in proportionate to percentage contribution in JV agreement will be considered however, certificates of work experience in private sector, and unofficial sub-contracts will not be considered.</td></tr>
<tr><td>3</td><td>1.3 Financial Turnover and Bid Capacity, A) Financial Turnover</td><td>iii) Escalation factors shall be applied to bring all figures to a common base year, as under:
<table>
<tr><th>Year before</th><th>Financial Year</th><th>Multiplication Factor</th></tr>
<tr><td>One</td><td>2024–25</td><td>1.10</td></tr>
<tr><td>Two</td><td>2023–24</td><td>1.21</td></tr>
<tr><td>Three</td><td>2022–23</td><td>1.33</td></tr>
<tr><td>Four</td><td>2021–22</td><td>1.46</td></tr>
<tr><td>Five</td><td>2020–21</td><td>1.61</td></tr>
</table></td><td>Note: Escalation factors shall be applied to bring all figures related to similar types of work and financial turnover to a common base year, as under:
<table>
<tr><th>Year before</th><th>Financial Year</th><th>Multiplication Factor</th></tr>
<tr><td>One</td><td>2024–25</td><td>1.10</td></tr>
<tr><td>Two</td><td>2023–24</td><td>1.21</td></tr>
<tr><td>Three</td><td>2022–23</td><td>1.33</td></tr>
<tr><td>Four</td><td>2021–22</td><td>1.46</td></tr>
<tr><td>Five</td><td>2020–21</td><td>1.61</td></tr>
</table></td></tr>
<tr><td>4</td><td>1.3 Financial Turnover and Bid Capacity, C) Supporting Documentation</td><td>A statement showing the value of existing commitments and ongoing works (for the next three years) shall be certified by a Chartered Accountant and countersigned by the Engineer-in-Charge not below the rank of Executive Engineer or equivalent.</td><td>A statement showing the value of existing commitments and ongoing works (for the next three years) shall be certified by a Chartered Accountant. Such existing commitments and ongoing works, work done certificates and work orders for such works shall also be submitted along with the certificate certified by a Chartered Accountant.</td></tr>
<tr><td>5</td><td>5.7 Conditions of Contract</td><td>General Provision
Clause – 1 : The person / persons whose tender may be accepted (herein-after called the contractor, which expression shall unless exceeded by or repugnant to the context include his hires, executors, administrators and (assigns) shall within 10 days (which may be extended by the Executive Engineer/ City</td><td>General Provision
Clause – 1: The person / persons whose tender may be accepted (herein-after called the contractor, which expression shall unless exceeded by or repugnant to the context include his hires, executors, administrators and assigns) shall</td></tr>
</table>

		Engineer/ or The Commissioner conceded up to 1month/ 2 months/ 3 months respectively if the Executive Engineer/ City Engineer/ or The Commissioner thinks fit to do so) of the receipt by him of the notification of the acceptance of his tender deposit with the Nashik Municipal Corporation in Cash or Govt. securities endorsed to the Commissioner, Nashik Municipal Corporation (if deposited for more than 12 months) of sum sufficient which will make up the full security deposit specified in the tender or (A) Permit Corporation at the time of making any payment to him for work done under the contract to deduct such as will amount to the percentage mentioned in detailed tender notice of all moneys so payable such deductions to be held by Nashik Municipal Corporation by way of security deposit, provided always that in the event of the contractor depositing a lump sum by way of security deposit as contemplated at (A) above then and in such case, if the sum so deposited shall not amount to the percentage mentioned in detailed tender notice, of the total estimated cost of the work it shall be lawful for Nashik Municipal Corporation at the time of making any payment to the contractor for work done under the contract to make up the full amount of the percentage mentioned in detailed tender notice, by deducting a sufficient sum from every such payment as last aforesaid until the full amount of the security deposit is made up. All compensation or other sums of money payable by the contractor to Nashik Municipal Corporation under the terms of his contract may be deducted from or paid by the sale of sufficient part of his security deposit or from the interest arising there from, or from any sums which may be due or may become due by Nashik Municipal Corporation to the contractor under any other contract or transaction of any nature on any account whatsoever and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall, within 10 days thereafter, make good in cash or	(A) within 10 days (which may be extended by the Executive Engineer/ City Engineer/ or The Commissioner conceded up to 1month/ 2 months/ 3 months respectively if the Executive Engineer/ City Engineer/ or The Commissioner thinks fit to do so) of the receipt by him of the notification of the acceptance of his tender deposit with the Nashik Municipal Corporation in **Cash/DD/ Cheque to the Commissioner, Nashik Municipal Corporation of sum sufficient which will make up the full security deposit specified in the tender** or (B) Permit Corporation at the time of making any payment to him for work done under the contract to deduct such as will amount to the percentage mentioned in detailed tender notice of all moneys so payable such deductions to be held by Nashik Municipal Corporation by way of security deposit, provided always that in the event of the contractor depositing a lump sum by way of security deposit as contemplated at (A) above then and in such case, if the sum so deposited shall not amount to the percentage mentioned in detailed tender notice, of the total estimated cost of the work it shall be lawful for Nashik Municipal Corporation at the time of making any payment to the contractor for work done under the contract to make up the full amount of the percentage mentioned in detailed tender notice, by deducting a sufficient sum from every such payment as last aforesaid until the full amount of the security deposit is made up. All compensation or other sums of money payable by the contractor to Nashik Municipal Corporation under the terms of his contract may be deducted from or paid by the sale of sufficient part of his security deposit or from the interest arising therefrom, or from any sums which may be due or may become due by Nashik Municipal Corporation to the contractor under any other contract or transaction of any nature on any account whatsoever and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall, within 10 days thereafter, make good in cash or Govt. securities endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof. The security deposit referred to, when paid in cash may, at the cost of the depositor be converted into interest bearing securities provided that depositor has expressly desired this in writing. If the amount of the security

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

		Govt. securities endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof. The security deposit referred to, when paid in cash may, at the cost of the depositor be converted into interest bearing securities provided that depositor has expressly desired this in writing. If the amount of the security deposit to be paid in a lumpsum within the period specified at (A) above the tender/contract already accepted shall be considered as cancelled and legal steps taken against the contractor for recovery of the amounts. Security deposit lodged by a contractor shall be refunded as per the details mentioned in Detailed Tender Notice. In the event of the contractor failing or neglecting to complete rectification work within the period up to which the contractor has agreed to maintain the work in good order, then subject to provisions of Clauses 17 & 20 hereof the amount of Security Deposit retained by Nashik Municipal Corporation shall be adjusted towards the cost incurred by department on rectification work.	deposit to be paid in a lumpsum within the period specified at (A) above the tender/contract already accepted shall be considered as cancelled and legal steps taken against the contractor for recovery of the amounts. Security deposit lodged by a contractor shall be refunded as per the details mentioned in Detailed Tender Notice. In the event of the contractor failing or neglecting to complete rectification work within the period up to which the contractor has agreed to maintain the work in good order, then subject to provisions of Clauses 17 & 20 hereof the amount of Security Deposit retained by Nashik Municipal Corporation shall be adjusted towards the cost incurred by department on rectification work.
6	**6.24 Subletting of Work**	Not allowed	1. **For civil works subletting of work is not allowed.** 2. For electrical works, If the construction contractor does not have a license to carry out electrical work and fulfilling all the conditions mentioned as per clause 2.4 (Conditions of Electrical work) in such cases, the construction contractor may enter into subcontract with an electrical contractor holding a license, as per the conditions mentioned in NIT . Such works shall be executed in consultation with Electrical Department, NMC.
7	**2.4 Conditions for Electrical Work**	List Of Approved Makes for Electrical Works Sr. No 1 to 21	In addition to List of Approved Makes for Electrical Works Sr. No 1 To 21, Sr. No 22. Added as: - Octagonal Pole- Bajaj / Valmont /Crompton/ Vakrangee.

Asphalt Roads			
8	Eligibility Criteria, - **Sr No 1 – (b)**	**Asphalt Batch Mix Plant** After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA. The tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for.	**Asphalt Batch Mix Plant** After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. **Within 50 days from the date of LOA**. The tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for. **Note: Already approved distance certificate up to validity period are valid for these tenders.**
9	Eligibility Criteria, **Sr. no. 2, Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled):**	**Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled):** The Electronic Sensor Paver Finisher shall be equipped with an electronic sensing device and shall conform to Clause 504.3.5 of the MORTH Standard Specifications. The machine shall have a minimum 9.00 metres width and shall be capable of laying bituminous layers with a minimum lift thickness of 75 mm.	**Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled):** The Electronic Sensor Paver Finisher shall be equipped with an electronic sensing device and shall conform to Clause 504.3.5 of the MORTH Standard Specifications. The machine shall have paving capacity of **minimum basic 5.5 meter width with extendable arrangement beyond 5.5 meter** in single operation and shall be capable of laying bituminous layers with a minimum lift thickness of 75 mm.
Concrete Roads			
10	Eligibility Criteria, - **Sr No 1 – (b)**	**Concrete Batch Mix Plant** After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Concrete Batch Mix Plant of the above specification and minimum 60 Cu.m. per hour capacity with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming	**Concrete Batch Mix Plant** After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Concrete Batch Mix Plant of the above specification and minimum 60 Cu.m. per hour capacity with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. **Within 50 days from the date of LOA**, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

		that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for compliance.	outright by the tenderer/bidder and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for compliance. **Note: Already approved distance certificate up to validity period are valid for these tenders.**
11	Eligibility Criteria, **Sr. no. 2, Hydraulic Concrete Paver (with SCADA):**	**Hydraulic Concrete Paver (with SCADA):** The slip form paver shall conforming to Clause 602 of MORTH and IRC:SP:64, with automatic electronic sensor control for line, level, and thickness. It shall be capable of laying CC pavement up to 7.5 m width and 300 mm thickness in a single pass, equipped with vibrators for full compaction.	Hydraulic Concrete Paver: The slip form paver shall confirming to Clause 602 of MORTH and IRC: 15/2017, with automatic electronic sensor control for line, level, and thickness with DBI, TBI and TCM. It shall be capable of laying CC pavement **of minimum 5.5 meter width with extendable arrangement and 300 mm thickness** in a single operation, equipped with vibrators for full compaction.
12	Eligibility Criteria, **Machinery**	**Concrete Transit Mixer (with SCADA): 07 Nos, Owned** The Transit Mixer shall be truck-mounted, with a minimum capacity of 6 m^3, conforming to relevant IS standards. It shall be equipped with a water dosing system, revolution counter, and control for monitoring operational parameters such as rotation speed, drum revolutions, transit time, and temperature of concrete, ensuring proper mixing, uniformity, and quality during transportation and placement.	**Concrete Transit Mixer (with SCADA): 07 Nos (05 Owned + 02 hired)** The Transit Mixer shall be truck-mounted, with a minimum capacity of 6 m^3, conforming to relevant IS standards. It shall be equipped with a water dosing system, revolution counter, and control for monitoring operational parameters such as rotation speed, drum revolutions, transit time, and temperature of concrete, ensuring proper mixing, uniformity, and quality during transportation and placement.
Asphalt + Concrete Roads			
13	Eligibility Criteria, - **Sr No 1 – (b)**	**Asphalt Batch Mix Plant** After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA. The tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or	**Asphalt Batch Mix Plant** After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. **Within 50 days from the date of LOA**. The tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for.

		affidavit shall be accepted, and no extension of time shall be granted for.	**Note: Already approved distance certificate up to validity period are valid for these tenders.**
14	Eligibility Criteria, **Sr. no. 2, Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled):**	**Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled):** The Electronic Sensor Paver Finisher shall be equipped with an electronic sensing device and shall conform to Clause 504.3.5 of the MORTH Standard Specifications. The machine shall have a minimum 9.00 metres width and shall be capable of laying bituminous layers with a minimum lift thickness of 75 mm.	**Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled):** The Electronic Sensor Paver Finisher shall be equipped with an electronic sensing device and shall conform to Clause 504.3.5 of the MORTH Standard Specifications. The machine shall have paving capacity of **minimum basic 5.5 meter width with extendable arrangement beyond 5.5 meter** in single operation and shall be capable of laying bituminous layers with a minimum lift thickness of 75 mm.
15	Eligibility Criteria, - **Sr No 1 – (b)**	**Concrete Batch Mix Plant** After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Concrete Batch Mix Plant of the above specification and minimum 60 Cu.m. per hour capacity with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for compliance.	**Concrete Batch Mix Plant** After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Concrete Batch Mix Plant of the above specification and minimum 60 Cu.m. per hour capacity with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. **Within 50 days from the date of LOA**, the tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for compliance. **Note: Already approved distance certificate up to validity period are valid for these tenders.**
16	Eligibility Criteria, **Sr. no. 2, Hydraulic Concrete Paver (with SCADA):**	**Hydraulic Concrete Paver (with SCADA):** The slip form paver shall conforming to Clause 602 of MORTH and IRC:SP:64, with automatic electronic sensor control for line, level, and thickness. It shall be capable of laying CC pavement up to 7.5 m width and 300 mm thickness in a single pass, equipped with vibrators for full compaction.	Hydraulic Concrete Paver: The slip form paver shall confirming to Clause 602 of MORTH and IRC: 15/2017, with automatic electronic sensor control for line, level, and thickness with DBI, TBI and TCM. It shall be capable of laying CC pavement **of minimum 5.5 meter width with extendable arrangement and 300 mm thickness** in a single operation, equipped with vibrators for full compaction.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Nashik Municipal Corporation

परिशिष्ट-ब

17	Eligibility Criteria, **Machinery**	**Concrete Transit Mixer (with SCADA): 07 Nos, Owned** The Transit Mixer shall be truck-mounted, with a minimum capacity of 6 m^3, conforming to relevant IS standards. It shall be equipped with a water dosing system, revolution counter, and control for monitoring operational parameters such as rotation speed, drum revolutions, transit time, and temperature of concrete, ensuring proper mixing, uniformity, and quality during transportation and placement.	**Concrete Transit Mixer (with SCADA): 07 Nos (05 Owned + 02 hired)** The Transit Mixer shall be truck-mounted, with a minimum capacity of 6 m^3, conforming to relevant IS standards. It shall be equipped with a water dosing system, revolution counter, and control for monitoring operational parameters such as rotation speed, drum revolutions, transit time, and temperature of concrete, ensuring proper mixing, uniformity, and quality during transportation and placement.
18	Tender Notice No. 03	13. Development of Trimbak road from Khadkali Signal to Trimbak Naka to ITI Signal (connects both Nashik and Trimbak Kumbha Mela sites/parking) 14. Development of Trimbak Road from ITI Signal to Pimpalgaon Bahula up to NMC limits (connects both Nashik and Trimbak Kumbha sites/parking)	The Tender Process for these Two works has been cancelled.

Note :- The Last date of Tender Submission is being extended till dt. /10/2025.

The Common Set of Deviations (CSD) shall form the part and parcel of the Tender document. The contents of CSD papers will supersede all other conditions what so ever mentioned elsewhere. The bidder should submit these papers of CSD duly signed by authorized person along with tender document as a token of acceptance and scanned copy to upload online in Technical bid. All other terms and conditions remain unchanged.

Executive Engineer
Municipal Corporation

Executive Engineer
Nashik Municipal Corporation

City Engineer
Nashik Municipal Corporation

Additional Commissioner
Nashik Municipal Corporation

Commissioner
Nashik Municipal Corporation

दि. /१०/२०२५

मा.सादर

विषय- सिंहस्थ कुंभमेळा-२०२७ चे अनुषंगाने निविदा सुचना क्र.३ मधील १८ कामांचे Corrigendum / Addendum प्रसिध्द करणे बाबत.

सिंहस्थ कुंभमेळा-२०२७ चे अनुषंगाने नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचे दि.१४/९/२०२५ एकूण २१ कामंन्न प्रशासकीय मंजुरी प्राप्त झाली असून त्यापैकी १८ कामांच्या निविदा प्रसिध्द सुचना क्र.३ (२०२५-२६) अन्वये प्रसिध्द करणेत आल्या आहेत. त्याअनुषंगाने दि.२६/०९/२०२५ रोजी ऑन लाईन पध्दतीने निविदा पुर्व बैठक आयोजित करणेत आली होती. सदर बैठकीच्या अनुषंगाने प्राप्त हरकती / सुचना यास अनुसरून परिशिष्ट-अ तयार करण्यात आले असून त्यामध्ये सर्व हरकती / सुचना व त्यावर नाशिक महानगरपालिकेचा खुलासा नुसार CSD (Commons Set of Deviation) प्रसिध्द करणेत आले होते.

तथापी सदर कामाच्या निविदा अटी शर्ती मध्ये मा.आयुक्त सो. यांनी दुरुस्ती करणे बाबत सुचित केल्याने त्यानुसार सिंहस्थ कुंभमेळा-२०२७ चे अनुषंगाने निविदा सुचना क्र.३ मधील १८ कामांचे Corrigendum / Addendum प्रसिध्द करणेस मंजुरी मिळणेस विनंती.

कार्यकारी अभियंता (बांध)

मा.शहर अभियंता सो.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

NASHIK MUNICIPAL CORPORATION, NASHIK
CORRIGENDUM / ADDENDUM

For All Works Under Tender Notice No:-3 (2025-2026)

Nashik Municipal Corporation has invited bids for eighteen (18) works under Tender Notice No. 03 (2025-26). A Pre-Bid Meeting for the same was conducted online on 1/10/2025 at 16:00 hours. The meeting was attended by the following bidders:

Pursuant to discussions during the meeting, a common set of deviation was issued on 10/10/2025. It is necessary to issue a addendum/ corrigendum to the CSD for the following clause.

STAR RATE FOR BASIC MATERIALS:-

The basic rates (star rates) for **cement, steel, and bitumen** are as given below. For any increase or decrease in these basic rates during the operative period of the contract,the difference between the basic rate and the prevailing market rate shall be paid to or recovered from the Contractor, as applicable.

For determining the rate difference of cement, steel, and bitumen for the quantities used as per work done,the Contractor shall produce sufficient proof of purchase in the form of:

- Manufacturer's authorised challan/gate pass,
- Excise challan mentioning quantity, grade, and date of delivery,
- GST-paid receipts,
- Or refinery's authentic challan (for bitumen).

The Contractor must produce authentic purchase vouchers from the manufacturing company, supported by matching vouchers of the authorised dealer of the same brand and lot,bearing the same date.

The decision of the **Engineer-in-Charge** regarding the authenticity of documents and the determination of the **lowest market operative price** of cement, steel, or refinery rate of bitumen shall be **final and binding** on the Contractor.

No claim shall be entertained for materials purchased from unauthorised dealers or on the basis of unverified or incomplete documents.

(I) Formula for Bitumen Component

$$V1 = QB \times (B1 - Bo)$$

Where:

- **V1** = Amount of cost variation in Rupees for bitumen component
- **QB** = Quantity of bitumen (grade) in metric tonnes used in the works during the period
- **B1** = Current ex-refinery price per metric tonne of bitumen (excluding GST) during the relevant period
- **Bo** = Star rate (basic rate) of bitumen = **₹49,862/- per MT (VG-30 Bulk)**

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

(II) Formula for Cement Component

$$V2 = \frac{Co \times (CI1 - CIo)}{CIo} \times T$$

Where:

- **V2** = Amount of cost variation in Rupees for cement component
- **Co** = ₹6,000/- per MT (basic rate)
- **CI1** = Average Cement Index (RBI Bulletin) for the quarter under consideration
- **CIo** = Average Cement Index (RBI Bulletin) for the quarter preceding the last date of tender submission
- **T** = Tonnage of cement used in permanent works for the quarter under consideration

---

(III) Formula for TMT Steel (Other Plant) Component

$$V3 = \frac{So \times (SI1 - SIo)}{SIo} \times T$$

Where:

- **V3** = Amount of cost variation in Rupees for TMT steel
- **So** = ₹61,000/- per MT (basic rate)
- **SI1** = Average Steel Index (RBI Bulletin) for the quarter under consideration
- **SIo** = Average Steel Index (RBI Bulletin) for the quarter preceding the last date of tender submission
- **T** = Tonnage of steel used in permanent works for the quarter under consideration

---

Additional Conditions

i) Operative Period:

The operative period of the contract shall commence from the date of issue of the Work Order and end on the date of completion of the work as per the contract period, including any extensions of time granted by the Engineer (except where delay is due to the Contractor's default).The decision of the Engineer-in-Charge regarding the operative period shall be **final and binding**.

If compensation for delay or inadequate progress is levied under the relevant clause, the **price adjustment** for the balance of work from the date of levy of such compensation shall be worked out by **pegging indices (L1, M1, C1, P1, B1, S1, C1)** to the level corresponding to the date from which such compensation is levied.

ii) Frequency of Adjustment:

Cost variation shall be determined **quarterly** as per the above formulas.

iii) **Extra Items:**

Price adjustment under this clause shall **not apply** to extra items executed during the course of the work.

iv) **Operative Both Ways:**

This clause shall operate both ways-If variation is on the plus side, payment shall be made to the Contractor; if on the minus side, recovery shall be effected by NMC from the Contractor.

v) **Full Compensation Clause:**

To the extent that full compensation for any rise or fall in cost is not covered under this or other clauses,the unit rates and prices quoted by the Contractor shall be **deemed to include contingencies** for such other actual rises or falls in cost.

All bidders are mandatorily required to upload a signed copy of the Common Set of Deviations (CSD), Addendum, Corrigendum along with their bid as a token of acceptance. Bids submitted without a signed copy of the CSD shall be considered invalid and will be summarily rejected.

City Engineer
Nashik Municipal Corporation,
Nashik

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

NASHIK MUNICIPAL CORPORATION, NASHIK

CORRIGENDUM / ADDENDUM - 3

For All Works Under Tender Notice No:-3 (2025-2026)

Nashik Municipal Corporation has invited bids for eighteen (18) works under Tender Notice No. 03 (2025-26). A Pre-Bid Meeting for the same was conducted online on 1/10/2025 at 16:00 hours.

Pursuant to discussions during the meeting, a common set of deviation was issued on 10/10/2025. It is necessary to issue a addendum/ corrigendum to the CSD for the following.

Sr.No	CLAUSE	ORIGINAL CLAUSE DETAILS	SHALL BE READ AS
1	Detailed Tender Notice, Sr. No.6, Date of Submission of :-Tender	The bids shall be submitted online through the e-tendering system on www.mahatender.gov. in for above work on or before date 10/10/2025 upto 15.00 hrs.	The bids shall be submitted online through the e-tendering system on www.mahatender.gov. in for above work on or before date **17/10/2025 upto 15.00 hrs.**

All bidders are mandatorily required to upload a signed copy of the Common Set of Deviations (CSD), Addendum, Corrigendum along with their bid as a token of acceptance. Bids submitted without a signed copy of the CSD shall be considered invalid and will be summarily rejected.

Executive Engineer
Nashik Municipal Corporation

City Engineer
Nashik Municipal Corporation

Additional Commissioner
Nashik Municipal Corporation

Commissioner
Nashik Municipal Corporation

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

NASHIK MUNICIPAL CORPORATION

Tender Notice No. 03/01 (2025-26)

Tender Document for

Development of road from, Gangapur Road Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)

September 2025

CITY ENGINEER

Public Works Department

Nashik Municipal Corporation

EXECUTIVE ENGINEER

Public Works Department

Nashik Municipal Corporation

Rajiv Gandhi Bhavan, Sharanpur Road, Nashik - 422 002

Tel no. 0253 - 2575631 / 32, 2317366 / Fax no. 0253 - 2573151

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

Disclaimer

This tender document for **Development of road from, Gangapur Road Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)** (hereinafter referred to as the "Project") contains brief information about the scope of work and qualification criteria for the selection of Agency. The purpose of the tender Document is to provide the Agencies (hereinafter referred to as "Agency/s") with information to assist the formulation of their proposals (hereinafter referred to as the "Proposal/s")

This tender is not an agreement and is neither an offer by Nashik Municipal Corporation (hereinafter referred to as the "Client" or "NMC") to the prospective Agency or any other person. The purpose of this tender is to provide interested parties with information that may be useful to them in making their Financial Bids pursuant to this tender. While all efforts have been made to ensure the accuracy of information contained in this tender Document, this document does not purport to contain all the information required by the Agencies. The Agencies should conduct their own independent assessment, investigations and analysis and should check the reliability, accuracy, and completeness of the information at their end and obtain independent advice from relevant sources as required before submission of their Proposal. Client or any of its employees or existing advisors shall incur no liability under any law, statute, rules, or regulations as to the accuracy or completeness of the tender Document. The Client reserves the right to change any or all conditions/ information set in this tender Document by way of revision, deletion, updating or annulment through issuance of appropriate addendum as the Client may deem fit without assigning any reason thereof.

The Client reserves the right to accept or reject any or all Proposals without giving any reasons thereof. The Client will not entertain or be liable for any claim for costs and expenses in relation to the preparation of the Proposals to be submitted in response to this tender Document.

Information provided in this tender to the Agency(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Client accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

Contents

1	Detailed Tender Notice	4
2	Important condition of contract	13
3	Method of submission of tender	20
4	Notice of tender and instruction to tenderers	22
5	General conditions of contract and technical specifications.	24
6	Additional General Conditions and Specifications	53
7	General conditions	82
8	Annexures	92
9	Proforma of submission of tender & proforma for agreeing to G.C.C.	100

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

1 Detailed Tender Notice

DETAILED E- TENDER NOTICE No. 03/01

COMMISSIONER, NASHIK MUNICIPAL CORPORATION, NASHIK, invites sealed tender in B-1 form, from the companies / contractors fulfilling the terms and conditions of tender document with experience of similar type of works for the development of roads in Nashik city.

S.No.	Name of Work	Cost put to tender (RS)	Time Limit
1.	Construction of Asphalt Road: Development of road from, Gangapur Road Bardan Phata to Sula Chowk (linking outer parking to internal parking/Trimbak Road link road)	56,85,78,497.00	Upto 31 March 2027

1)	**EARNEST MONEY DEPOSIT:-**	Rs 0.5% of Cost put to tender EMD will be accepted in the form of Online Payment only by net banking only. Tenderer must submit online EMD receipt along with technical document.
2)	**TIME LIMIT :-**	As per Above Table
3)	**Pre-bid Meeting :-**	Pre-bid meeting will be held on 01/10/2025 at 4.00 pm in online mode only. Google Meet link: https://meet.google.com/fzs-qzby-jys All the bidders shall submit their queries if any before 4.00 pm on 01/10/2025 on the mail ID: nmc_pwd_tenders@nmc.gov.in Outcome of pre-bid meeting i.e. common set of deviation (CSD) issued, if any shall form part & parcel of tender document and the bidder/ tenderer shall upload a signed copy as a token of acceptance of CSD. The queries received after 4.00 pm on 01/10/2025 shall not be entertained.
4)	**Date of Issue of Blank :-Tender Documents**	Tender form is available online for purchase on GoM website www.mahatender.gov.in in from dt. 25/09/2025 to 10/10/2025 upto 3.00 pm.

5)	**Cost of blank tender :- document**	Contract document may be purchased/downloaded from www.mahatender.gov.in for non-refundable fee of Rs. 3631/- in the form of online payment only by net banking.
6)	**Date of Submission of :- Tender**	The bids shall be submitted online through e-tendering system on www.mahatender.gov.in for above work on or **before date 10/10/2025 upto 15.00 hrs.**
7)	**SECURITY DEPOSIT: -**	SECURITY DEPOSIT: - Total 1.00% of cost put to Tender. (a) Initial Security Deposit:- 50% of the total security deposit of approved tender cost in favor of Commissioner, Nashik Municipal Corporation, Nashik and can be paid either in the form of - i) Cash deposited in Nashik Municipal Corporation. ii) Demand Draft in favour of the Commissioner Nashik Municipal Corporation. iii) FDR / Bank Guarantee from any Nationalized/ Scheduled banks those are approved as per GR (संकीर्ण २०२२/प्र.क्र.१२३/२२/कोष-प्रशा५ दिनांक १६ जाने २०२५): in prescribed form in favor of the Commissioner Nashik Municipal Corporation, valid upto after 1 year of successful completion of the work. (b) Remaining amount of Security Deposit: - 50% of the total Security Deposit, as per the cost put to tender, shall be recovered through Running Account (R.A.) bills at the rate of 1% from each R.A. bill until the full balance amount of Security Deposit is recovered, as required under the Work Order.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

		(C) The entire Security Deposit, amounting to 1% of the tender cost, shall be released as under: The amount of the security deposit lodged by a contractor shall be refunded 90% amount after two years completion of work which has DLP more than two years. if the date up to which the contractor has agreed to maintain the work in good order is over. The amount of security deposit lodged by a contractor shall be refunded 90% amount of total Security Deposit only after 2 years from date of completion of work (which has DLP period is more than two years.). The amount of the security deposit retained by the NMC shall be released after expiry of period up to which the contractor has agreed to maintain the work in good order is over. 10% amount of Security Deposit shall be in the form of Nationalised Bank DD/ FDR / BG which mentioned period of one month after the DLP. In the event of the contractor failing or neglecting to complete rectification work within the period up to which the contractor has agreed to maintain the work in good order, then, subject to provisions of clauses 17 and 20 hereof the amount of security deposit retained by Government shall be adjusted towards the excess cost incurred by the Department on rectification work. (As per Govt. Resolution dtd. 29.01.2019)
8)	**DEFECT LIABILITY PERIOD: -**	Defect liability period for the work is Thirty-six (36) Calendar months from the date of completion of the work.
9)	**DATE OF OPENING OF: - TENDER**	The received online bids will be opened on 11/10/2025 at 15.00 hrs (If possible), for scrutiny of qualification of bidders as per eligibility criteria mentioned in of detailed tender notice in the office of Tender Cell, Nashik Municipal Corporation. Rajiv Gandhi Bhavan, Sharanpur Road, Nashik.

10)	**VALIDITY OF OFFER: -**	The offer shall remain valid for one hundred and Twenty (120) days from the date of submission of tender, these offers are considered as valid thereafter till contractor withdraws his offer in writing.
11)	**JOINT VENTURE: -**	Joint Venture Agreement in any form shall not be allowed.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

1.1 Eligibility criteria

1. The tenderer/ bidder must have eligibility in term of work experience as follows:
   1.1. Experience of having successfully completed similar works during last Five years ending last day of month previous to the one in which applications are invited should be either of the following:
      1.1.1. Three similar completed works costing not less than the amount equal to 40% of estimated cost each

      OR

      1.1.2. Two similar completed works costing not less than the amount equal to 50% of estimated cost each

      OR

      1.1.3. One similar completed works costing not less than the amount equal to 80% of estimated cost each

      "Similar works" means Construction of WBM/GSB/WMM and asphalting roads with allied works.

   1.2. Satisfactorily executed following minimum quantities of the items in one single year from works completed in last Seven years.

1	WBM+GSB+WMM	30% Qty. of Schedule ' B'
2	BM	30% Qty. of Schedule ' B'
3	DBM	30% Qty. of Schedule ' B'
4	BC/AC	30% Qty. of Schedule ' B'

   1.3. Certificates of work experience in private sector, joint ventures, and unofficial sub-contracts will not be considered.

2. Each tenderer/bidder should further demonstrate the availability of the following key and critical equipment exclusively for this work at the time of submission of tender. (information is to be uploaded in Statement)

For Asphalt works costing more than 4 Crores. –

Sr. No	Machinery	No of Machinery	Mode of Availability
1	Considering the upcoming Kumbhmela in Nashik, the balance period for completion of work and considering the importance and emergency nature of work - At the time of bidding the tenderer/bidder must have his owned, Asphalt Batch mix Stationary / mobile Plant having minimum Capacity of 80		

	TPH with SCADA, operational anywhere in India, is eligible for bidding. After issuance of the Letter of Acceptance (LOA), it shall be compulsory for the tenderer/bidder to arrange, shift, and install his own stationary/mobile Asphalt Batch Mix Plant having a minimum capacity of 80 TPH with SCADA within 30 km of Rajiv Gandhi Bhavan, Nashik. Within 45 days from the date of LOA. The tenderer/bidder shall submit a certificate issued by the Executive Engineer, Quality Control Department, Nashik Municipal Corporation, confirming that the said plant has been installed within the stipulated period, is owned outright by the tenderer/bidder, and is located within the specified 30 km limit. No arrangement through rent, lease, joint venture, tie-up, or affidavit shall be accepted, and no extension of time shall be granted for. After issuance of LOA it is also compulsory for the tenderer/Bidder to submit, scanned original copy of Plant Verification certificate meeting the required capacity and standards valid for one year certified by Assistant Chief Engineer (Mechanical) P.W.D. Region Nashik for Batch Mix Plant, within 45 days after issue of LOA. In the event of failure to produce either the Distance Certificate or the Plant Verification Certificate within the stipulated time, the Earnest Money Deposit (EMD) shall be forfeited and appropriate action shall be taken by the Competent Authority. The work shall thereafter be offered to the subsequent eligible bidders (L2, L3, L4, etc.) in order of their ranking, subject to their willingness to execute the work at the rates quoted by the L1 bidder. In the event that none of the subsequent bidders agree to match the L1 bidder's rates, the tender shall be recalled.	01	Owned
2	Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled):	01	Owned

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

	The Electronic Sensor Paver Finisher shall be equipped with an electronic sensing device and shall conform to Clause 504.3.5 of the MORTH Standard Specifications. The machine shall have a screed of minimum 9.00 metres width and shall be capable of laying bituminous layers with a minimum lift thickness of 75 mm.		
3	Mechanical truck-mounted or towed type bituminous pressure sprayer, with a minimum capacity of 3 MT, equipped with SCADA control system.	01	Owned
4	Vibratory road roller as per IRC SP97:2013 with amplitude and frequency of vibration desired for Bituminous works with SCADA	02	Owned
5	Static roller 8 to 10 Tonne/ smooth wheeled power roller	02	Owned
6	Truck / Tripper of minimum 10 MT capacity fitted with SCADA	06	Owned
7	Motor grader is essential	01	Owned

2.1. The tenderer/bidder shall upload scanned copy of valid certificate as a compliance required as per latest M.O.R.T.H. & specification from Assistant Chief Engineer (Mechanical) of PWD department (Govt. of. Maharashtra) for batch mix plant, sensor paver, vibratory roller equipped with SCADA system, mechanical bitumen sprayer with SCADA.

2.2. Certificate from PWD authority regarding fitness and location of Asphalt plant as per the terms mentioned at sr.no.1 above.

2.3. All the uploaded scanned copies of the necessary certificates shall be readable. Non readable uploaded scanned copies shall not be considered.

2.4. All these uploaded statement/ form shall be filled in correctly and signed properly. If these forms are found incompletely filled or wrongly filled, contractor's Financial Bid will not be opened.

3. Tenderer/Bidder must submit Distance Certificate of batch mix plant from Executive Engineer, Quality Control Department, Nashik Municipal Corporation, certifying that their plant is situated within 30 km from Rajiv Gandhi Bhavan, within 45 days after issue of LOA.

1.2 Technical Staff

Contractors Technical Staff	Min Qualification needed	Number of Tech. Staff Person
Full Time Technical Staff on site required		
1. Project Manager	B.E. / B tech Civil with minimum experience of 7 years.	1
2. Resident Engineer (Daily)	B.E. / B tech Civil with minimum experience of 5 years.	1
3. Site Engineer (daily)	Diploma Civil with minimum experience of 3 years.	2
4. Plant /SCADA System supervisor (daily)	Diploma / Degree with minimum experience of 7 years.	1
5. Quality Engineer	B.E. / B tech Civil with minimum experience of 5 years.	1
6. Other key personnel with adequate experience as required.	Information to be uploaded in Statement	

B) Successful Tenderer/ bidder must submit the staff details such with their Name, Designation, Qualification and experience before executing agreement for work order.

1.3 Financial Turnover and Bid Capacity

The average annual financial turnover during the last three financial years, ending on 31st March of the previous financial year, shall be at least 30% of the cost put to tender.

ii) The turnover shall be certified by a Chartered Accountant (C.A.) on the basis of audited balance sheets.

iii) Escalation factors shall be applied to bring all figures to a common base year, as under:

Year before	Financial Year	Multiplication Factor
One	2024–25	1.10
Two	2023–24	1.21
Three	2022–23	1.33
Four	2021–22	1.46
Five	2020–21	1.61

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

B) Bid Capacity

i) A tenderer shall be considered qualified only if the assessed Available Bid Capacity is greater than or equal to the estimated cost of the work.

ii) The Bid Capacity shall be calculated strictly based on the Online Bid Capacity Certificate submitted by the bidder.

C) Supporting Documentation

i) Bidders shall furnish bid capacity calculations with supporting documents duly certified by a Chartered Accountant.
ii) An Online Bid Capacity Certificate shall be uploaded as per prevailing Government guidelines.
iii) A statement showing the value of existing commitments and ongoing works (for the next three years) shall be certified by a Chartered Accountant and countersigned by the Engineer-in-Charge not below the rank of Executive Engineer or equivalent.
iv) All prescribed forms/statements shall be properly filled in, signed, and uploaded. Incomplete, unsigned, or incorrectly filled forms will result in disqualification, and Envelope No. 2 (Financial Bid) shall not be opened.

D) Disqualification and Verification

i) Submission of false, fabricated, or misleading information shall lead to immediate rejection and blacklisting as per Government norms.
ii) Even if a bidder meets the above criteria, they are liable to disqualification in case of:
iii) Misrepresentation of facts or fraudulent submissions,
iv) Record of poor performance (abandonment, failure to complete, delays, unsatisfactory quality),
v) Adverse litigation history or proven financial failure.
vi) All certificates submitted towards turnover, similar nature of works, executed quantities, and work completion shall be subject to scrutiny and verification by the Tender Committee.

2 Important condition of contract

a) All Tenderer/bidder must note that after completion of tender procedure the successful Tenderer/ bidder shall take out necessary Insurance Policy / Policies so as to provide adequate insurance cover for execution of the awarded contract work from the "Directorate of Insurance, Maharashtra State Mumbai" only. It's Postal address for correspondence is "264, MHADA, First Floor Opp. Kalanagar, Bandra (East), Mumbai - 400051." Insurance policy/ policies taken out from any other Company will not be accepted. However, if the contractors desire to effect insurance with any of the local officer of any insurance Company, they should be under the coinsurance- cum-servicing arrangement approved by the Directorate of Insurance. If the policy taken out by the contractors is not on coinsurance basis, i.e. G.I.F 60% and insurance Company 40%, the same will not be accepted and the amount of premium calculated by the Directorate of Insurance will be recovered directly from the amount payable to the Contractors for the executed contract work which may please be noted.

   If the above condition regarding insurance policy is not complied, then recovery at the rate 1% of tender amount shall be made through R.A. Bills.

b) All Tenderer must note that after tender procedure completion the successful tenderer has to pay cess of 1% of the tender amount as per "Building and other Construction Act- 1998" in the specified bank account.

c) G.S.T will be paid on contract value as per latest circulars or notification of government.

d) Payments of the work shall be made subject to availability of fund.

e) In the event of delay in intermediate payment, the contractor/ agency shall not delay /stop work; and the work shall be completed in the stipulated time period.

f) As per rule of Employment Provident fund (EFP) Regulation act. 1952, bidder should submit valid PF Registration Certificate. The EPF Registration as per employment provident fund (EPF) Regulation act.1952 is mandatory. Without valid EPF Registration tender will not be considered for opening of financial bid.

g) Royalty Charges should be paid as per circular of revenue & forest department by the contractor regularly to the Government. Contractor should produce the delivery chalan, payment receipt, pakka bill etc. complete along with every RA bill /Final bill as applicable (It is entire responsibility of the contractor to pay the royalty charges to the Govt.)

h) As per Government Resolution No. संकीर्ण 2008/1338/Pr.Kr.171/08/Navi-20 dated 02 March 2009 and Government Resolution No. संकीर्ण -2016/Pr.Kr.335/Navi-33 dated 28 March 2018, it shall be mandatory for the contractor to carry out Third Party Technical Audit through an independent agency at their own cost, unless specifically mentioned in schedule-B.

i) NMC will not bear any expenses other than the cost quoted.

j) All tenderers/bidders shall go through the ordinance and Nashik Trimbakeshwar Kumbhamela Pradhikaran Act, 2025 which are available online. The rules and regulations mentioned therein related to contract are applicable.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

2.1 Approval

i) All work shall be carried out as per the specifications contained in the standard specification published by public works and housing department, Govt. of Maharashtra. In case of the discrepancy decision of the Engineer-In-Charge will be Final.

ii) All type of testing shall be done as per the specification in the presence of representative of NMC & NMC approved third party inspection.

2.2 Additional Security Deposit.

In case of contractors offer is less than 10% of the updated estimate cost.

1) As per the Govt. G.R. No. CAT/2017/PK08/EMA-2 dated - 26/11/2018 the Additional Performance Security Deposit is to be submitted by L-1 bidders to concerned Executive Engineer strictly within 8 days after opening of envelop no.2

2) If the L-1 bidder fails to deposit the Additional Performance Security Deposit within the stipulated period of 8 days, the offer of L-2, L-3, and subsequent bidders may be considered, provided they are willing to execute the work at the rates quoted by the L-1 bidder.

3) Performance Security Deposit shall be as follows

1. Up to 10% -- 1% PSD

2. Up to 15% --- (15% -10%=5%) = 5% PSD= 1+5=6%

3. If the offer is less than 15% then it will be twice the remaining offer

For e.g.

19 - 15=4%

4 x 2 = 8%

And total PSD will be 1 + 5 + 8 = 14%

If the lowest bidder's offer is more than 10% below the estimated cost of the tender, tender calling authority should call of for the written explanation from this bidder with respect to the planning and execution of work as the rate quoted by him. Tender calling authority should assure itself about the feasibility of planning submitted by the bidder with respect to the quoted rates. Submission/Return of PSD Demand Draft / Bank guarantees to be adopted as follow.

a) The FDR / Demand draft / Bank guarantee should be in the name of □The Commissioner NMC.
b) FDR / Demand Draft / Bank guarantee should exclusively of Nationalized bank / Scheduled bank as per GR (संकीर्ण २०२२/प्र.क्र.१२३/२२/कोष-प्रशाप दिनांक १६ जाने २०२५) as per GR 07/03/2019
c) The period of demand draft should be minimum 3 months beyond the date of submission of tender.
d) The bidder should submit the original copy of FDR / demand draft / Bank guarantee in the office of City Engineer.
e) The Demand draft should inclusive of MICR number & IFSC code of the bank.

f) Submission of false/misleading demand drafts / Bank guarantee of any bidder will result in forfeiting of EMD & liable for further action against such bidder.
g) The Executive Engineer shall issue the work order to the successful bidder only after encashment of demand draft / the Bank guarantee of Performance Security deposit. Bank guarantee must be valid for the period of DLP plus one month.
h) The performance security and additional PSD of the successful bidder may be returned after a period of three months from the, satisfactory completion of the work as per tender specifications.

4) The bidder must submit affidavit on Rs. 500/- Stamp Paper stating submitted documents are true, correct & complete. (Annexure I)

(Please Note : Govt. Circular No. CAT/2017/प्र.क्र.127/Building-2, Dt. 28/11/2018)

5) Nashik Municipal Corporation has developed a repository system in collaboration with ICICI Bank. Accordingly, if the lowest bidder is required to submit a Security Deposit or Performance Security Deposit (PSD) in the form of a Bank Guarantee, it is mandatory to mention the IFSC code ICIC0000027. Bank Guarantee without this IFSC code will not be accepted.

2.3 Land Availability, Alignment Clearance, and Tender Process Implications (Road Works)

The proposed road works are of critical importance and are time-bound in view of the forthcoming Simhasta Kumbhamela 2027. The Simhasta Kumbhamela Road Development Project has received formal approval from the Nashik–Trimbakeshwar Kumbhamela Pradhikaran vide letter dated 14/09/2025 and all conditions given below, stipulated in the said letter of the Administrative Approval shall be binding on the tenderer/contractor.

In certain stretches of the proposed works, delays or difficulties may arise in acquisition of land, obtaining right-of-way, or securing alignment clearance. Accordingly, all tenderers are strictly advised to visit the site, examine the ground conditions, review the proposed alignment, and take into account land availability, right-of-way constraints, and all related challenges prior to submission of their bids.

Furthermore, in the event that: the required land is not made available, alignment or right-of-way clearance is not granted, or the Competent Authority proposes changes in the overall treatment, modifies the Administrative Approval amount, or reduces the sanctioned length of work, then the tender process may be withheld, cancelled, withdrawn, or reassigned under separate arrangements, as may be decided by the Competent Authority.

In all such circumstances, no claim, demand, compensation, or financial liability of any nature whatsoever shall be entertained from any bidder or contractor. Tenderers shall be deemed to have factored in all such risks, dependencies, and conditionalities while preparing and submitting their bids.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

अटी व शर्ती:-

१. संबंधित कार्यान्वयीन यंत्रणेला शासनाच्या, संबंधित विभागांच्या आणि इतर सक्षम प्राधिकाऱ्यांच्या (उदा. केंद्रीय सतर्कता आयोग) यांनी वेळोवेळी निर्गमित केलेल्या मार्गदर्शक सूचनांचे पालन करावे लागेल.
२. नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण आणि जिल्हास्तरीय सिंहस्थ कुंभमेळा कार्यकारी समिती, नाशिक यांचे मार्फत वेळोवेळी दिलेल्या निर्देशांचे पालन संबंधित कार्यान्वयीन यंत्रणेला करावं लागेल.
३. नाशिक त्र्यंबकेश्वर कुंभमेळा अधिनियम 2025 मधील सर्व तरतुदी या कामाला लागू राहतील.
४. सदर कामावर नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणामार्फत निर्देशित केल्यानुसार कामाच्या जागेवर माहिती दर्शविणारा फलक लावावा लागेल.
५. सदर काम किंवा त्याचा कोणताही घटक इतर कोणत्याही योजनेत मान्य झाले नाही अथवा करण्यात आले नाही याची खात्री कार्यान्वयीन यंत्रणेने करावी.
६. सदर काम पूर्ण झाल्यावर त्याचा केवळ सार्वजनिक वापर होणार असून कोणत्याही स्वरुपाचा खाजगी वापर होणार नाही याची दक्षता कार्यान्वयीत यंत्रणेने घ्यावी.

७. कार्यान्वयीन यंत्रणा ही सदर कामाचा वापर करणारी आणि देखभाल दुरुस्ती करणारी यंत्रणा नसल्यास, सदर काम पूर्ण झाल्यावर वापर करणारी आणि देखभाल/ दुरुस्ती करणाऱ्या यंत्रणेने काम गुणवत्तापूर्ण झाले आहे किंवा कसे याची खात्री करून ते ताब्यात घ्यावे.
८. खरेदीच्या कामांबाबत शासनाने वेळोवेळी निर्गमित केलेल्या निर्देशांचे पालन करावे, तसेच वस्तूंची अथवा इतर बाबींची खरेदी शासनाच्या GeM पोर्टलवरुन अथवा शासनाच्या इतर मार्गदर्शक सूचनांनुसारच करावी.
९. मंजूर अनुदानापेक्षा (प्रशासकीय मान्यता रकमेपेक्षा) जास्त खर्च करता येणार नाही. तसेच कामाचे भाग पाडून काम करता येणार नाही.
१०. वर दर्शविण्यात आलेली काम पूर्ण करण्याची मुदत ही अंतिम मुदत असून शक्य असल्यास यापेक्षा लवकर काम पूर्ण करण्याचे नियोजन करावे आणि तशी अंमलबजावणी करावी. त्यानुसार निविदा प्रक्रिया राबवावी.
११. सर्व कामांच्या जागांचे कामाचे काम सुरु करण्यापूर्वी कोणतीही जागा सुटणार नाही अशाप्रकारे दिनांक नमूद करून व्हिडिओ शूटिंग करावे आणि जिओ स्टॅम्प्ड आणि जिओ टॅग्ड फोटो काढावेत. त्याचप्रमाणे प्रत्येक कामाचे जास्तीत जास्त एक महिना किंवा त्यापेक्षा कमी या कालावधीमध्ये अशा प्रकारचे व्हिडिओ आणि फोटो पुन्हा काढावेत हे सर्व जतन करून ठेवावेत जेणेकरुन याला भविष्यात योग्य त्या संकेतस्थळावर जाहीररित्या प्रदर्शित करता येईल.
१२. नियोजन विभागाच्या दिनांक 09 जून 2025 रोजीच्या शासन निर्णयानुसार प्रत्येक पायाभूत विकास प्रकल्पांसाठी यूनिक पायाभूत सुविधा आयडी पोर्टल (Jafra ID Portal) कार्यान्वित करणे बाबत दिलेल्या सूचनांचे कार्यान्वयीन यंत्रणेने पालन करावे व त्यानुसार कार्यवाही करावी.
१३. प्रकल्प व्यवस्थापनाच्या दृष्टीने वेळोवेळी दिलेल्या निर्देशानुसार आवश्यक तो माहिती नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाला सादर करावी.
१४. मंजूर करण्यात येत असलेल्या वरील कामांची भविष्यातील देखभाल दुरुस्तीचा खर्च कार्यान्वयीन यंत्रणेने स्वतःच्या निधीतून करावा अथवा हस्तांतरण करून घेणाऱ्या यंत्रणेने करावे.
१५. सदर कामांचा कोणत्याही उपयोगाचे काम इतर कोणत्याही शीर्षे अथवा योजनेतून प्रस्तावित नाही आणि/ किंवा झाले नाही याची खात्री कार्यान्वयीन यंत्रणेने काम सुरु करण्यापूर्वी करावी.
१६. सदर कामांचे सक्षम प्राधिकाऱ्याकडून तांत्रिक मान्यता घेणे बंधनकारक आहे.
१७. सदर कामाचे पर्यवेक्षण आणि नियंत्रण संबंधित कार्यान्वयीन यंत्रणेने करावे.
१८. सदर कामाचा दर्जा/ गुणवत्ता आणि वेग तपासण्यासाठी, त्याचप्रमाणे कार्यान्वयीन यंत्रणेच्या कामकाजाचे मूल्यमापन करण्यासाठी उपरुक्त यंत्रणांमार्फत/ यंत्रणांना वेळोवेळी तपासणी आणि मूल्यमापन करण्यात येईल. यासाठीचा येणारा खर्च या कामाच्या अंदाजपत्रकीय रकमेतून नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणामार्फत थेट संबंधित यंत्रणांना अदा केला जाईल.
१९. वाढ पार्ट इन्स्पेक्शन बाबत आवश्यक ती तरतूद अंदाजपत्रकात करावी.
२०. निविदा प्रक्रियेमध्ये सर्वसाधारण पात्रते (eligibility) संबंधित निकष सर्वसाधारणपणे त्या त्या विभागाचे नेहमीचे जशी असतात त्या पद्धतीने ठेवावे जेणेकरून स्पर्धा चांगली होईल. तथापि दर्जा उत्तम राखण्यासाठी देहात्मक (penalty च्या) तरतुदी अधिक कठोर करायचे असल्यास तशी मुभा संबंधित विभागाला राहील.
२१. काम हाती घेताना शासनाच्या संबंधित विभागाच्या / कार्यालयांच्या मार्गदर्शक सूचना विचारात घ्याव्यात (उदा. अत्यावश्यक सेवा संचालनालय, वैद्यकीय शिक्षण व संशोधन संचालनालय, इ.), तसेच याबाबत इतर मोठ्या शासकीय व निमशासकीय संस्था (उदा. राज्य शासनाचे संबंधित विभाग, केंद्र शासनाचे संबंधित विभाग, मोठ्या महानगरपालिका/ महामंडळे, इ.) यांनी वेळोवेळी निर्गमित केलेल्या मार्गदर्शक सूचना, खरेदी धोरण व निविदांचा देखील अभ्यास निष्पक्षपणे व सखोलपणे करावा, त्याचप्रमाणे या क्षेत्रातील सर्वोत्तम कार्यपद्धतींचा (best practices) चा विचार करावा. तसेच आवश्यकतेनुसार त्या क्षेत्रातील तज्ञ / सल्लागार यांच्या सेवा घ्याव्यात. या प्रकारे पूर्ण काळजी घेवून अशा कामांबाबत/ प्रकल्पांबाबत कार्यवाही करावी. सदरची कामे/ प्रकल्प वेळेत

2.4 Conditions For Electrical Work

After getting work order from Civil department, the Contractor should submit Subcontract agreement on a bond paper of Rs. 500/- with Electrical Contractor and inform to electrical department in writing within 15 days. electrical contractor should have fulfilling following terms.

1)	Name of electrical sub-contractor
2)	Certificate as a registered contractor in electrical category with Maharashtra PWD as class A.
3)	Valid Electrical contractor's license by Govt. of Maharashtra.
4)	Valid PAN & GST registration certificate.
5)	Valid registration certificate under profession tax act.
6)	Valid P.F and ESIC Registration certificate.
7)	Experience Certificate of having Successfully Installation /shifting of HT LT line, HT cable, HT transformer, street light, substation, etc in single work not less than the amount 50 Lakhs. The certificate issued from officer not below rank of Executive Engineer of Govt. /Semi Govt. organization.

Photocopies of all the above documents must be submitted to the Electricity Department.

General conditions for electrical Contractor

1)	All work shall be carried out as per the standard specifications given in the tender. In case of the discrepancy decision of the Engineer-In-Charge will be final.
2)	The Quantity mentioned in schedule 'B' is tentative and may vary as per site condition, MSEDCL site survey, sanction and the same will be paid as per actual quantity measured. The bill amount should not cross the sanctioned amount of electrical work.
3)	The Contractor shall do Liaisoning works in coordination with Electrical Inspection Department & MSEDCL for required permission, sanctioning and testing, any other approval like drawings.
4)	NMC will pay MSEDCL quotation charges for 1.3% supervision.
5)	The Contractor should submit equipment, foundation drawings along with specifications for approval and get approved.
6)	The Contractor should get approved sample of decorative poles from Engineer-in-charge.
7)	The Contractor shall submit the material testing certificate.
8)	The Contractor should arrange third party inspection of material as per specifications in the presence of representatives of NMC and NMC approved third party inspection agency at his own cost.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

9)	The Contractor shall co-ordinate with MSEDCL Officials for shut downs & other related work and also with any related dept. of NMC, Nashik for required road map & line out.
10)	Old dismantled material should be handed over to NMC Godown as per instruction of Engineer-in-charge. Transportation charges will not be paid.
11)	Defect liability period for all Electrical work will be 60 Calendar months (5 Year) from the date of completion certificate. (with on site 5 years comprehensive maintenance)
12)	Payment will be released after actual work done and as per availability of funds.

LIST OF APPROVED MAKES FOR ELECTRICAL WORK		
SR.NO	**MATERIAL**	**MAKE**
1.	WIRES:1100V/660V GRADEFRLS	FINOLEX / POLYCAB / KEI / VISHAL
2.	POWER CABLES 1100V/660V GRADE	FINOLEX / POLYCAB / KEI / VISHAL
3.	MCB's	LEGRAND / SIEMENS / POLYCAB
4.	HT/ LT CABLE	POLYCAB / FINOLEX / KEI / VISHAL
5.	SWITCHGEARS	SCHNEIDER / L&K / SIEMENS
6.	LED FITTINGS	PHILIPS / CROMPTON / BAJAJ /HAVELLS/ OSRAM
7.	HIGHMAST	BAJAJ / VALMONT
8.	HRC SWITCH FUSE UNITS	L&K / SIEMENS /SCHNEIDER
9.	DECORATIVE POLES	KLITE / SUNCITY / VSTP / JAQUAR / CROMPTON / BAJAJ
10.	GI PIPES	TATA / JINDAL / SURYA PRAKASH /APPOLLO
11.	HRC FUSES	L&K / SIMENS / BUSSMANN
12.	FRP BOX	SINTEX / AJAY / NATIONAL
13.	ROLLED STEEL JOIST POLE	NANDAN / SARTHAK / PRIME
14.	FEEDER PILLAR PANELS	MSEDCL APPROVED
15.	TRANSFORMER	MSEDCL APPROVED
16.	CT/PT	HUPHEN / KOYANA / PRASANNA
17.	HT BREAKER	CROMPTON /ABB / SIEMENS / LUCY
18.	AB SWITCH	RUMA / TRITECH / NATIONAL
19.	DO SET	RUMA / TRITECH / NATIONAL
20.	TERMINATION KIT	VCHEM / XYCON / USSEAL
21.	DWC PIPE	FINOLEX / KETRON / ASTRAL

2.5 Declaration of the contractor

I/ We hereby declare that I/ We have made myself / ourselves thoroughly conversant with the local conditions regarding all materials (such as stone, murum, sand etc.) and labour on which I/ We have based my / our rates for this work. The specifications, conditions and lead of materials of this work have been carefully studied and understood by me/ us before submitting this tender. I/ We undertake to use only the best materials complying to schedule B and detailed specifications of said items, and approved by the Engineer in charge, Nashik Municipal Corporation, Nashik or his duly authorized assistant before starting the work and to abide by the decision.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

3 Method of submission of tender

3.1 Method of submission:-

The tenderers desirous of tendering for these works are required to submit their offers online on www.mahatender.gov.in

Technical bid:- All documents as required vide this notice including but not limited to list given below.

i) Scanned from original copy of Registration of firm, partnership deed and Power of Attorney, in case of a registered firm tendering for work.

ii) For private firm (Having no registration in PWD or elsewhere) fulfilling the tender conditions and must not be a black-listed contractor anywhere in execution of any type of work. Affidavit of declaration of this be produced by tenderer.

iii) Form of Bid, Undertaking, Affidavit, Bank Certificate, Declaration etc. be submitted.

iv) Scanned from original copy of affidavit regarding completeness, correctness and truthfulness of documents submitted on Rs. 500/- Stamp paper.

v) Scanned from original copy of Professional Tax Clearance Certificate up-to-date.

vi) Scanned copy of ownership of batch mix plant and other related machinery as stated in Statement.

vii) Scanned copy of verification certificate of Executive Engineer regarding plant Locations given in tender document.

viii) Earnest Money in the form as prescribed in section (1) of this notice.

ix) GST registration certificate.

x) Updated Employee's Provident fund registration certificate.

xi) Common set of deviation conditions/ stipulations issued by this Corporation after the Pre Bid conference duly signed in token of acceptance.

xii) Papers showing eligibility of tenderer as mentioned in section of this notice

a) similar kind of work, b) turnover certificates, c) Bid Capacity, d)certificate of quantities executed.

b) Details of Technical personnel on the roll of the bidder.

xiii) Details of Machinery & Infrastructure available with bidder with name, qualification, designation and experience etc.

If the various documents contained in this envelope do not meet the requirements as stated above, a note will be recorded accordingly by the tender opening authority and the Financial Bid of such Tenderer will not be considered for further action and the same will be rejected. Also tender will be liable for rejection if bidder mention his commercial offer anywhere in the Technical Bid.

The original documents of Technical bid shall be verified before opening financial bid.

Please note that Technical bid & Financial bid both shall be uploaded ONLINE only as specified.

3.2 Opening of tenders:-

On the date specified in the Tender Schedule, following procedure will be adapted for opening of the tender.

3.2.1 Technical Bid (Envelop no. 1)

Technical bid will be submitted online and one hard copy in envelop no. 1.

1. First of all Envelope No.1 of the tender will be opened online to verify its contents as per requirements. Contractor has to procure original documents for verification as required. If the various documents contained in the envelope do not meet the requirements of the tender document, a note will be recorded accordingly by the tender opening authority and the said tenderers' financial bid will not be considered for further action and the same will be rejected.
2. The necessary experience mentioning cost and quantities certificate as mentioned in qualification criteria are required to be obtained from the officer not below the rank of Executive Engineer. In the absence of these certificates financial bid shall not be opened.
3. All must be note that uploading be done one day prior to the date of mentioned to avoid problem in uploading tender documents. No any grievance will be entertained regarding uploading of tender document as it is the official web site and not the Nashik Municipal website.

3.2.2 Financial Bid :- (Envelop No. 2)

Financial Bid will be submitted online only.

The financial bid of technically qualified bidders shall be opened online. The financial bid shall contain the offer based on scope of work, rates, specifications of the items in the tender & shall be inclusive of all taxes, levies, duties & all other charges- expenses **(Excluding GST and Royalty Charges)**. Bidder should not quote the offer anywhere directly or indirectly in Technical bid.

Note : Commissioner Nashik Municipal Corporation reserves full rights to reject any or all tenders without assigning any reason and the same shall be at the entire discretion of Commissioner, NMC and commissioner's decision in this respect shall be final and binding.

Sd/-xxx

Executive Engineer,

Public Works Department

Nashik Municipal Corporation, Nashik

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

4 Notice of tender and instruction to tenderers

If after submitting the tender, the contractor withdraws his offer, or modifies the same, or if, after the acceptance of his tender the contractor fails or neglects to furnish security deposit without prejudice any other rights and powers of the corporation hereunder, or in law, corporation shall be entitled to forfeit the full amount of earnest money deposited by him.

4.1 Acceptance of Tender

1. The Corporation is not bound to accept the lowest or any tender. The corporation reserves the right to reject any or all tenders received, without assigning any reason whatsoever and reserves the right of accepting the whole or any part of the tender and tenderer shall be bound to perform the same at the amount / percentage quoted.

4.2 Visit to Site by Tenderer

1. Tenderers are advised to visit the site sufficiently in advance of the date fixed for receipt of tenders. The tenderers shall be deemed to have full knowledge of all the relevant documents, samples, site conditions etc. whether they inspect them or not.

4.3 Submission of tender :

1. Submission of quoted Tender by a tenderer implies that he had read this notice and all other contract documents and has made himself aware of (I) scope and specifications of the work to be done (ii) local conditions and other factors having any bearing whatsoever in execution of the works.
2. A Tenderer shall submit the tender which satisfies each and every conditions laid down in this tender, failing which, it is liable to be rejected.
3. Notice of tender and these instructions shall form part of the contract.
4. The successful tenderer will be required to produce to the satisfaction of the Municipal Commissioner, NMC a valid and concurrent license, issued in his favour under the provisions of the labour contract before starting the work. On failure to do so, the acceptance of the tender shall be liable to be withdrawn and also the earnest money and initial security deposit shall stand absolutely forfeited.
5. Land required for housing of labour, contractor's and client office, stacking of materials, equipment, casting yard etc. should be indicated in sqm. Office space for Engineer – in – charge and his staff should also be indicated. However, corporation may provide land, if available, at per sqm per month rent. If land is not available with the corporation / less than required is available, then contractor to make his own arrangement at no extra cost to corporation.

4.4 Contractor's All Risk (C.A.R) Policy :

1. The successful contractor shall take out a C.A.R. policy for the entire works covering the entire period of construction (Including all extensions) and also covering the entire defects liability period. The same shall be jointly in the name of NMC and contractor and shall be produced to the Engineer. All amounts / charges towards premium, etc. on this account shall be borne by the contractor.
2. NMC may appoint consultant to assist NMC Engineers of work and advise on all matters pertaining to this project, including tender evaluation and supervision of works including scrutiny of design, quality control

etc. during the entire project. NMC may also appoint proof consultant, if required, for expert advice on specifications and quality control etc. connected with the project.

3. The tenderer is advised to get himself fully acquainted with site conditions as well as with the relevant NMC rules and regulations before submitting the offer. If he desires to have any further information in regard to this project, he may contact the Executive Engineer, NMC, Nashik.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

5 General conditions of contract and technical specifications.

5.1 Additional instructions to persons tendering

1. Persons tendering for the work concerned by the schedule will be required to complete the work tendered for in the period and the dates specified below.

Sr. No	Name of work	To start (date or order to start the works	To complete (Within the period mentioned in the work order)
	As per schedule 'B'		

5.2 Competency of Tenders

The contract will be awarded only to responsible bidders capable of performing the class of work contemplated before award of the contract. Any bidder may be required to show that he has the necessary experience, ability and financial resources to perform the work in a satisfactory manner within the time stipulated. Contractor may require to furnish the department with formal statements as to their experience and their financial status.

The contractor shall make his own arrangements for the work yard/site required for depositing materials, and shall acquire such additional sites and areas as may be necessary for temporary purposes at his own cost.

5.3 Payment

a. The Tenderer must clearly understand that the rates quoted are for the complete and finished work, and shall be deemed to include all costs towards labour, scaffolding,plant, supervision, services, power, etc.
b. The rates shall also cover all contingencies, including night work and work during rains, whenever required.

c. No claim for additional payment beyond the quoted rates shall be entertained under any circumstances.
d. The Tenderer shall not be entitled to make any subsequent claim on the grounds of misrepresentation, or on the basis of having been supplied with information, or given any promise or guarantee by the Nashik Municipal Corporation (N.M.C.) or by any person (whether a Councilor or in the employment of N.M.C. or otherwise).
e. The failure of the Tenderer to obtain all necessary information for the purpose of preparing the tender and fixing rates shall not relieve him of any risks, responsibilities, or liabilities arising out of, or consequent upon, the submission of the tender.

5.4 Tender Forms:

1. Every blank space in the form of tender and the schedule must be filled by the tenderer and must return all the documents with the tender form.
2. Tenderers are hereby informed that no erasures or alterations in the text of the documents issued herewith shall be permitted, and any such erasures or alterations will be disregarded. In the event of any error in writing, overwriting shall not be allowed. Instead, the incorrect word or figure should be struck out neatly and the correct word or figure written above or adjacent to it in an unambiguous manner. Each such correction must be duly initialled by the Tenderer

5.5 Acceptance

The intimation of acceptance of the tender shall be communicated by a letter of acceptance

5.6 FORM B (1)

NASHIK MUNICIPAL CORPORATION, NASHIK PERCENTAGE RATE

TENDER AND CONTRACT FOR WORKS

General Rules and Directions for the Guidance of Contractors

1. All works proposed to be executed will be also published in newspapers and also on Maha tender website.

This form will state the work to be carried out as well as the date for submitting and opening tenders, and the time allowed for carrying out the work, also the amount of earnest money to be deposited, additional performance security deposit, the amount of security deposit to be deposited by the successful tenderer and the percentage, if any to be deducted from bills. Copies of the specifications and estimated rates, scheduled rates and any other information shall be available in the office of the City Engineer during office hours.

Where the works are proposed to be executed according to the specifications recommended by a contractor and approved by a competent authority on behalf of

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

the Municipal Corporation of Nashik, such specification with designs and drawings shall form part of the accepted tender.

2. In the event of the tender being submitted by a partnership firm, it shall be signed separately by each partner thereof. In the absence of any partner, the tender may be signed on his behalf by a person duly authorised under a Power of Attorney empowering him to do so.

3. If, after submitting the tender, the Contractor withdraws his offer or modifies the same or if after the acceptance of this tender the Contractor fails or neglects to furnish the additional performance security deposit or security deposit, without prejudice to any other rights and powers of the Corporation or any law, N.M.C.shall be entitled to forfeit the full amount of the earnest money deposited by him. In such circumstances the offer of L-2, L-3, and subsequent bidders may be considered, provided they are willing to execute the work at the rates quoted by the L-1 bidder.

iii) In the event of the tender not being accepted, the amount of earnest money deposited by the Contractor shall unless it is forfeited under the provisions of sub clause (iii) above, be refunded to him on his passing receipt therefor.

4. The Commissioner or his duly authorised officer shall open tenders in the presence of Contractors who have submitted tenders or their representatives who may be present at the time.

5. The officer competent to dispose off the tenders shall have the right of rejecting all or any of the tender, and the Tenderer shall have no claim whatsoever in this regard.

6. No receipt for any payment alleged to have been made by a Contractor in regard to any matter relating to the tender or the contract shall be valid and binding on N.M.C. unless it is signed by the Engineer-in-charge.

7. All works shall be measured by standard measurements and in accordance with the rules and practices of the N.M.C., without reference to any local customs.

8. Under any circumstances, Contractor shall not be entitled to claim enhanced rates for any items in this contract.

9. All corrections and additions or pasted slips should be initiated

10. The measurements of work shall be taken in accordance with the usual method in practice in the N.M.C., and no proposal for adopting any alternative method shall be entertained. The decision of the Executive Engineer regarding the method in use in the N.M.C. shall be final and binding.

11. The contractor will have to construct a shed for storing controlled and valuable material at the work site having double locking arrangement.

12. The tendering Contractor shall furnish a declaration along with a tender showing all works for which he is already in the contract and the value of the work that remains to be executed in each contract.

13. Every tenderer shall submit along with the tender, information regarding the income-tax circle or ward of district in which he is assessed to income tax. The reference No. of the assessment and his assessment year.

5.6.1 TENDER FOR WORKS

I/We hereby tender for the execution, for the N.M.C. Nashik of the work specified in the underwritten memorandum within the time specified in such memorandum at* (———

——) ————————————————————

---------- percent below/above the estimated rates entered in Schedule 'B' (memorandum showing items of work to be carried out) and in accordance in all respects with the specifications, designs, drawing and instructions in writing referred to in Rule 1 hereof and in clause 12 of the annexed conditions of the contract and agree that when materials for the work are provided by the N.M.C., such materials and the rate to be paid for them shall be as provided in Schedule 'A' hereto.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

5.6.2 MEMORANDUM

A. Name of Work –

B. Estimated cost ... Rs. /-

C. Earnest Money ... Rs. /-

D. Security Deposit

* In figures as well as in words.

a) If several sub works are included they should be detailed in a separate list.

b) The amount of earnest money to be deposited shall be in accordance with the provisions of paras 206 and 207 of the M.P.W. Manual.

c) This deposit shall be in accordance with paras 213 and 214 of the M.P.W. Manual

i) Cash (not less than the amount of earnest money) Rs

ii) To be deducted from current bills. .. Rs.

Total Rs.

d) Percentage, if any, to be deducted from bills so as to make up the total amount required as security deposit by the time, half the work, as measured by the costs, is done. 1(one) %

e) Time allowed for the work from the date of written order to commence

f) This percentage where no security deposit is taken, will vary from 5 % to10 % according to the requirement of the case where security deposit is taken. see note Clause1 of the Conditions of contract.

Give Schedule where necessary showing dates by which the various items are to be completed.

Nashik Municipal Corporation

Receipt No. dated from The N.M.C. in respect of the sum Rs.

Contractor : # _____

_____

Address : _____

_____

Dated : The _____ day of

_____200 _____

(Witness) : $ _____

Amount to be specified in words and figures.

Signature of Contractor before submission of tender

$ Signature of witness to Contractor's signature

_____

Address :

_____

(Occupation):

_____

_____

The above tender is hereby accepted by me for and on behalf of the N.M.C.

Signature of officer by whom accepted.

Executive Engineer

Nashik Municipal Corporation (or his duly authorized Assistant)

Dated _____day of_____200

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

2. I/We agree that the offer shall remain open for acceptance for a minimum period of 120 days from the date fixed for opening the same and thereafter until it is withdrawn by me/us by notice in writing duly addressed to the authority opening the tenders and sent by registered post A.D. or otherwise delivered at the office of such authority. N.M.C.

Receipt No. ----------

_____ date ----------Deposit Call Receipt ----------

In respect to the sum of Rs. representing the earnest money is herewith forwarded. The amount of earnest money shall not bear interest and shall be liable to be forfeited to the N.M.C. should I/We fail to (1) abide by the stipulation to keep the offer open for the period mentioned above or (2) sign and complete the contract documents as required by the Engineer and furnish the security deposit, as specified in item (d) of the memo contained in paragraph (I) above within the time limit laid down in clause (1) of the annexed General Conditions of contract. The amount of earnest money may be adjusted towards the security deposit or refunded to me/us if so desired by me/us in writing, unless the same or any part thereof has been forfeited as aforesaid.

3. Should this tender be accepted I/we hereby agree to abide by & fulfil all the terms and provisions of the conditions of contract annexed hereto so far applicable, and in default thereof to forfeit and pay to N.M.C., the sums of money mentioned in the said conditions.

5.7 Conditions of Contract

Security Deposit Provision given in special conditions of contract shall apply

Clause – 1: The person / persons whose tender may be accepted (herein-after called the contractor, which expression shall unless exceeded by or repugnant to the context include his hires, executors, administrators and assigns) shall within 10 days (which may be extended by the Executive Engineer/ City Engineer/ or The Commissioner conceded up to 1month/ 2 months/ 3 months respectively if the Executive Engineer/ City Engineer/ or The Commissioner thinks fit to do so) of the receipt by him of the notification of the acceptance of his tender deposit with the Nashik Municipal Corporation in Cash or Govt. securities endorsed to the Commissioner, Nashik Municipal Corporation (if deposited for more than 12 months) of sum sufficient which will make up the full security deposit specified in the tender or

(A) Permit Corporation at the time of making any payment to him for work done under the contract to deduct such as will amount to the percentage mentioned in detailed tender notice of all moneys so payable such deductions to be held by Nashik Municipal Corporation by way of security deposit, provided always that in the event of the contractor depositing a lump sum by way of security deposit as contemplated at (A) above then and in such case, if the sum so deposited shall not amount to the percentage mentioned in detailed tender notice, of the total estimated cost of the work it shall be lawful for Nashik Municipal Corporation at the time of making any payment to the contractor for work done under the contract to make up the full amount of the percentage mentioned in detailed tender notice, by deducting a sufficient sum from every such payment as last aforesaid until the full amount of the security deposit is made up. All compensation or other sums of money payable by the contractor to Nashik Municipal Corporation under the terms of his contract may be deducted from or

paid by the sale of sufficient part of his security deposit or from the interest arising therefrom, or from any sums which may be due or may become due by Nashik Municipal Corporation to the contractor under any other contract or transaction of any nature on any account whatsoever and in the event of his security deposit being reduced by reason of any such deduction or sale as aforesaid, the contractor shall, within 10 days thereafter, make good in cash or Govt. securities endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof. The security deposit referred to, when paid in cash may, at the cost of the depositor be converted into interest bearing securities provided that depositor has expressly desired this in writing. If the amount of the security deposit to be paid in a lumpsum within the period specified at (A) above the tender/contract already accepted shall be considered as cancelled and legal steps taken against the contractor for recovery of the amounts.

Security deposit lodged by a contractor shall be refunded as per the details mentioned in Detailed Tender Notice. In the event of the contractor failing or neglecting to complete rectification work within the period up to which the contractor has agreed to maintain the work in good order, then subject to provisions of Clauses 17 & 20 hereof the amount of Security Deposit retained by Nashik Municipal Corporation shall be adjusted towards the cost incurred by the department on rectification work.

Compensation for delay

Clause – 2: The time allowed for carrying out the work as entered in the tender shall be strictly observed by the contractor and shall be reckoned from the date on which the order to commence work is given to the contractor. The work shall throughout stipulated period of the contract be proceeded with, with all due diligence (time being deemed to be of the essence of the contract on the part of the contractor) and the contractor shall pay as compensation an amount equal to one per cent or such smaller amount as the City Engineer (whose decision in writing shall be final) may decide, of the amount of the estimated cost of the whole work as shown by the tenderer for every day that the work remains uncommenced, or unfinished after the proper dates. And further to ensure good progress during execution of the work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month to complete. The contractor should complete the work as per phase period given below

25% of the work in 1/4 of the time

50% of the work in 1/2 of the time

75% of the work in 3/4 of the time

Full of the work in full of the time

Full work will be completed within the period as mentioned in the detailed tender notice.

Note: The quantity of the work to be done within the particular time to be specified above shall be fixed and inserted in the blank space kept for the purpose by the Officer competent to accept the contracts after taking into consideration the circumstances of each case and abide by the programme of detailed progress laid down by the City Engineer. In the event of the contractor failing to comply with this

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

conditions he shall be liable to pay as compensation an amount equal to one percent or such smaller amount as the City Engineer (whose decision in writing shall be final) may decide of the said estimated cost of the whole work for every day that the due quantity of work remains incomplete. Provided always that the total amount of compensation to be paid under the provisions of this clause shall not exceed 10 percent of the estimated cost of the work as shown in tender.

Action when whole of security deposit is forfeited

Clause – 3: In any case in which under any clause or clauses of this whole of this contract the contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit (whether paid in one sum or deducted by installments,) or in the case of abandonment of the work owing to serious illness or death of the contractor or any other cause, the Engineer, on behalf of the Governor of Maharashtra, shall have power to adopt of the following courses, as he may deem best suited to the interest of Nashik Municipal Corporation.

a) To rescind the contract (for which rescission notice in writing to the contractor under the hand of City Engineer shall be conclusive evidence) and in that case the Security deposit of the contractor shall stand forfeited and be absolutely at the disposal of Corporation.

b) To carry out the work or any part of the work departmentally debiting the contractor with the cost of the work, expenditure incurred on tools and plant, and charges on additional supervisory staff including the cost of work charged establishment employed for getting unexecuted part of the work completed and crediting him with the value of the work done departmentally in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the City Engineer as to the costs and other allied expenses so incurred and as to the value of the work so done departmentally shall be final and conclusive against the contractor.

c) To order that work of the contractor be measured up and to take such part thereof as shall be unexecuted out of his hands and to give it to another contractor to be completed, in which case all expenses incurred on advertisement for fixing a new contractor agency, additional supervisory staff including the cost of work charged establishment and cost of the work charge agency will be debited to the contractor and the value of the work done or executed through the new contractor shall be credited to the contractor in all respects and in the same manner and at the same rates as if it has been carried out by the contractor under the terns of his contract. The certificate of the City Engineer as to all the cost of the work and other expenses incurred as aforesaid for or in getting the unexecuted work so done shall be final and conclusive against Contractor.

In case the contract shall be rescinded under clause (a) above the contractor shall not be entitled to recover or be paid any sum for any work therefore actually performed by him under this contract unless and until the City Engineer shall have certified in writing the performance of the such work and the amount payable to him in respect and he shall only be entitled to be paid the amount so certified. In the event of either of the course referred to in clauses (b) or (c) being adopted and the cost of the work

executed departmentally or through the new contractor and other allied expenses exceeding the value if such work credited to the contractors the amount to excess shall be deducted from balance due to the contractor by N.M.C. under the contract or otherwise however or from the Security deposit or the sale proceeds thereof provided., however, that the work/contract shall have no claim against N.M.C. even if the certified value of the work done departmentally or through a new contractor exceeds the certified cost of such work & allied expenses provided always the whichever of the three course mentioned in clause(a) (b) or (c) is adopted by the City Engineer, the contractor shall have no claim to compensation for any loss sustained by him reason of him having purchased, & procured materials or entered into any engagements, or made any advances on account of or with a view to the execution of the work or the performance of the contract.

Action when the progress of any portions of the work is unsatisfactory

Clause No. 4: If the progress of any particular portion of the work is unsatisfactory, the City Engineer shall not withstanding that the general progress of the work is in accordance with the condition mentioned in clause 2, be entitled to take action under clause 3 (b) after giving the contractor 10 days notice in writing. The contractor will have no claim for compensation, or any loss sustained by him owing to such action.

Contractor remains liable to pay compensation if action not taken under Clause 3 and 4

Clause No. 5: In any case in which any of the powers conferred upon the Executive Engineer by clauses 3 and 4 hereof shall have become exercisable and the same shall not have been exercised the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor for which under any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the contractor for past and future compensation shall remain unaffected. In the event of the Executive Engineer taking action under sub-clause (a) or (c) of clause-3, he may,

Power to take possession of or require removal of/or sell contractor's plant.

if he so desires, take possession of all or any tool and plant, materials and stores in or upon the works or the site thereof or belonging to the contractor, or procured by him and intended to be used for the execution of the work or any part thereof, paying or allowing for the same in account at the contract rates, or in the case of contract rates not being applicable at current market rates to be certified by Executive Engineer whose certificate thereof shall be final. In the alternative, the Executive Engineer may, after giving notice in writing to the contractor or his clerk of the work, foreman or other authorised agent require him to remove such tools and plant, materials or stores from the premises within a time to be specified in such notice, and in the event of the contractor failing to comply with any such requisition, the Executive Engineer may remove them at the contractor's expense or sale them by auction or private sale on account of the contractor and at his risk in all respects, and the certificate of the Executive Engineer as to the expense of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the contractor.

B. D. BORATHIA & CO.
PARTNER / AUTH. SIGN.

Extension of time

Clause No. 6: If the contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidably hindered in its execution or on any other ground he shall apply in writing to the Executive Engineer before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he was hindered as aforesaid or on which the cause for asking for extension occurred, whichever is earlier ever and the Executive Engineer, may, with prior approval of the respective authority component to accept the tender if in his opinion, there are reasonable ground for granting an extension, grant such extension as he thinks necessary or proper the decision of the Executive Engineer in this matter shall be final.

Final Certificate

Clause No. 7: On completion of the work the contractor shall be furnished with a certificate by the Executive Engineer (hereinafter called Engineer-in-charge) of such completion; but no such certificate shall be given nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall have been executed all scaffolding, surplus materials and rubbish and shall have cleaned of the dirt from all wood work, doors, windows, walls, floor or other parts of any building in or upon which the work has been executed, or of which he/they may have had possession for the purpose of executing the work, nor until the works shall have been measured by the Engineer-in- charge or where the measurements have been taken by his subordinate until they received the approval of the Engineer-in- charge, the said measurements being binding and concessive against the contractor. If the contractor shall fail to comply with the requirements of this clause as to the removal of scaffolding, surplus, materials and rubbish and cleaning off dirt on or before the date fixed for the completion of the work the Engineer-in-charge may at the expense of the contractor, remove such scaffolding, surplus materials and rubbish and dispose of the same as he thinks fit and clean of such dirt as aforesaid; and the contractor shall forthwith pay the amount of all expenses as incurred but shall have no claim in respect of any such scaffolding or surplus material as aforesaid except for any sum actually realized by the sale thereof.

Payment on intermediate certificate to be regarded as advances

Clause No. 8 : No payment shall be made for any work estimated to cost less than rupees one thousand till after the whole of work shall have been completed and a certificate of completion given. But in the case of works estimated to cost more than rupees one thousand, the contractor shall, on submitting a monthly bill thereof as entitled to receive payment proportionate to the part of the work then approved and passed by the Engineer-in-charge whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the contractor. All such intermediate payments All such shall be regarded as payments by way of advance against the final payments only and not as payments for work actually done and completed and shall not preclude the Engineer-in-charge from requiring any bad, unsound imperfect or unskilful work to be removed or taken away and reconstruction or re-erected nor shall any such payment be considered as an admission of the due performance of the contract or any

part thereof in any respect or the occurring of any claim nor shall it conclude, determine or effect in any other way the powers of the Engineer-in- charge as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or effect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for the completion of the work, otherwise the Engineer-in-charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties.

Payment at reduced rates on account of item of work not accepted as completed, to be at the discretion of the Engineer- in-charge.

Clause No. 9: The rates for several items of work estimated to cost more than Rs. 1000 agreed to within shall be valid only when the item concerned is accepted as having been completed fully in accordance with the sanctioned specifications. In case where the items of work are not accepted as so completed, the Engineer-in- charge may make payment on account of such items at reduced rates as he may consider reasonable in the preparation of final or on account bills.

Bills to be submitted monthly

Clause No. 10 : A bill shall be submitted by the contractor each month on or before the date fixed by the Engineer-in-charge for all work executed in the previous month, and the Engineer-in- charge shall take or cause to be taken the requisite measurement for the purpose of having the same verified, & the claim , so far as it is admissible, shall be adjusted, if possible within ten days from the presentation of the bills, if the contractor does not submit the bill within the time fixed as aforesaid, the Engineer-in-charge may depute a sub-ordinate to measure up the said work in the presence of the contractor or his duly authorised agent whose counter signature to the measurement list shall be sufficient warrant and the Engineer- in-charge may prepare a bill from such list which shall be binding on the contractor in all respect.

Bills to be on printed form

Clause No. 11: The contractor shall submit his bills on his own the printed form. The manner of preparation of bills should be according to the routine official procedure.

Clause No. 12 : If the specification or estimate of the works provides for the use of any special description of materials to be supplied from the store of the Corporation or if it is required that, the contractor shall use certain stores to be provided by the Engineer-in-charge (such materials) and stores, and the prices to be charged therefore as hereinafter mentioned being so far as practicable for convenience of the contractor but not so as in any way to control the meaning or effect of this contractor specified in the Schedule or memorandum hereto annexed, the contractor shall be supplied with such materials and stores as may be required from time to time to be used by him for the purpose of the contract only, and the value of the full quantity of the materials and stores so supplied shall be set off or deducted from any sums then due or thereafter to become due to the contractor under

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

the contract, or otherwise, or from the Security Deposit or the proceeds of sale thereof, if the Security Deposit is held in NMC securities, the same or a sufficient portion thereof shall in that case be held for the purpose. All materials supplied to the contractor shall remain the absolute property of NMC and shall on no account be removed from the site of the work, and shall at all times be open to inspection by the Engineer-in-charge. Any such materials unused and in perfectly good condition at time of completion or determination of the contract shall be returned to the N.M.C. store. If the Engineer-in-charge requires by a notice in writing given under his hand, by the contractor shall not be entitled to return any such materials except with consent of the Engineer- in-charge and he shall have no claim for compensation on account of any such material supplied to him as aforesaid but remaining unused by him or for any wastage in or damage to any such materials.

Work to be executed in accordance with specification drawings orders etc.

Clause No. 13 : The contractor shall execute the whole and every part of the work in the most substantial and workman like manner, and both as regards materials and in every other respect in strict accordance with specifications. The contractor shall also confirm exactly, fully and faithfully to the designs, drawings and instruction in writing relating to the work signed by the Engineer-in-charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or on the site of work during office hours.

Clause No. 13 (a): The contractor will be entitled to receive three sets of contract drawings and working drawings as well as one certified copy of accepted tender alongwith the work order free of cost. Further copies of contract drawings and working drawings if required by him shall be supplied at the rate of Rs. 300 per set of contract drawing and Rs. 150/- per working drawing except where otherwise specified.

Alteration in specifications and designs not to invalidate contract

Clause No. 14 : The Engineer-in-charge shall have power to make any alterations in or additions to the original specifications, drawings designs and instructions that may appear to him to be a necessary or admissible during the progress of the work, and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in writing signed by Engineer-in-charge and such alterations should not invalidate the contract and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same condition in all respects on which he agreed to do the main work and at the same rates as are specified in the tender of main work.

Rates for works not entered for schedule of rates of the district.

And if the additional and altered work includes any class of work for which no rate is specified in this contract such class of work shall be carried out at the sanctioned rates of the D.S.R. If the additional or altered work for which no rate is entered in the schedule of rates the Division is ordered to be carried out before the rates are agreed upon then the contractor shall, within 7 days of the date of receipt by him

of the order to carry out the work, inform the Engineer-in-charge of the rate which his intention to charge for such class of work and if the Engineer-in-charge does not agree to this rate he shall by notice in writing be at liberty to cancel his order to carry out such class of work, and arrange to carry out in such manner as he may consider advisable, provided always that the contractor shall commence work or incur any expenditure in regard thereto before the rates shall have been mentioned as lastly herein before mentioned, then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rates or rate as shall be fixed by the Engineer-in-charge. In the event of dispute, the decision of Commissioner will be final. Where, however the work is to be executed according to the designs drawings and specification recommended by the contractor and accepted by the competent authority the alterations above referred to shall be within the scope of such designs, drawings and specifications appended to the tender.

Extensions of time in consequence of additions or alterations.

The time limit for the completion of the work shall be extended in the proportion that the increases in its cost occasioned by alteration or condition bears to the cost of the original contract work and the certificate of the Engineer-in- charge as to such proportion shall be conclusive.

No Claim to any payments or compensation for alteration In/or restriction of work

Clause No. 15 :

1) If at any time after the execution of the contract documents the Engineer shall for any reason whatsoever (about default on the part of the contractor for which he is entitled to rescind the contract) desire that the whole or any part of the work specified in the tender should be suspended for any period or that the whole or part of the work should not be carried out at all, he shall give to the contractor a notice in writing of such desire and upon the receipt of such notice the contractor shall forthwith, suspend or stop the work wholly or in the part as required after having due regarded to the appropriate stage at which the work should be stopped or suspended so as not cause any damage or injury to the work already done or endanger the safety thereof provided that the decision of the Engineer-in-charge as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the Contractor. The contractor shall have no claim or any payment or compensation what so ever by reason of or in pursuance of any notice as aforesaid on account of any suspension stoppage or curtailment expect to the extent specified hereinafter.

2) Where the total suspension of work ordered as aforesaid for a continuous period exceeding 90 days the contractor shall be at liberty to with-draw from the contractual obligations under the contract so far it pertains to the unexecuted part of the work by giving a 10 day's prior notice in writing to Engineer, within 30 days of the expire of the said period of 90 days of such intention and requiring the Engineer to record the final measurements of the work already done and requiring the Engineer to

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

record the final bill. Upon giving such notice the Contractor shall be deemed to have been discharged from his obligation to complete the remaining unexecuted work under this contract, On receipt of such notice the Engineer shall proceed to complete the measurement and such payment as may be finally due to the contractor within a period of 90 days from the receipt of such notice in respect of the work already done by the contractor, such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.

3) Where the Engineer required the contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate, the contractor shall be entitled to apply to Engineer within 30 days of the resumption of work after such suspension for payment of compensation to the extent of pecuniary loss suffered by him, in respect of working machinery rendered idle on the site or on the account of his having had to pay the salary to wages of or labour engaged by him during the said period of suspension provided always that the contractor shall not be entitled to any claim in respect of any such working machinery, salary or wages for the first 30 days whether consecutive or in the aggregate of such suspension or in what ever consecutive in the aggregate of such suspension or in whatever in the aggregate of such suspension or in respect of any suspension whatever occasioned by unsatisfactory work or any other default on his part. The decision of the Engineer in this regard shall be final and conclusive against the contractor.

No claim to compensation on account of loss due to delay in supply of materials by N.M.Corporation

Clause No. 15 (A): The contractor shall not be entitled to claim any compensation from Nashik Municipal Corporation for the loss suffered by him on account of delay by Nashik Municipal Corporation in the supply of materials entered in Schedule A, where such delay is caused by:

a) Difficulties relating to the supply of railway wagons.

b) Force majeure.

c) Act of God.

d) Act of enemies of the State or any other reasonable cause beyond the control of Nashik Municipal Corporation.

In case of such delay in the supply of materials N.M.C shall grant such extension of time for the completion of the works as shall appear to the City Engineer to be reasonable in accordance with the circumstances of the case. The decision of the City Engineer as to the extension of time shall be accepted as final by the Contractor.

Time limit for unforeseen claim

Clause 16 : Under no circumstances whatever shall the contractor be entitled to any compensation from N.M.C. on any account unless the contractor shall have submitted a claim in writing to the Engineer -in-charge within one month of the cause of such claim occurring.

Action and compensation payable in case of bad work

Clause 17 : If any time before security deposit or any part thereof is refunded to the contractor it shall appear to the Engineer-in-charge or his sub-ordinate in charge of the work, that any work has been executed with unsound, imperfect or unskillful workmanship or with materials of inferior quality, or that any materials or articles provided by him for the execution of the work are unsound, or of a quality inferior to that contracted for, or are otherwise not in accordance with the contract, it shall be lawful for the Engineer-in-charge to intimate this fact in writing to the contractor and then notw ithstanding the fact that The work, materials or articles complained or may have been inadvertently passed, certified and paid for, the contractor shall be bound forthwith to rectify, or remove any reconstruct the work so specified in whole or in part, as the case may require or if so required, shall remove the materials or articles so specified and provided other proper and suitable materials or articles at his own charges and cost. In the event of his failing to do so within a period to be specified by the Engineer - in - charge in the written intimation aforesaid, the contractor shall be liable to pay compensation at the rate of one per cent on the amount of the estimate for everyday not exceeding ten days, during which the failure so continues and in the case of any such failure the Engineer - in - charge may rectify or remove and re-execute the work or remove and replace the materials or articles complained of as the case may be at the risk and expense in all respects of the contractor, should the Engineer- in- charge consider that any such inferior work or materials as described above may be accepted or made use of, it shall be within his desecration to accept the same at such reduced rates as he may fix therefore.

Work to be open to inspection. Contractor or responsible agent to be present

Clause 18 : All works under or in course of execution in pursuance of the contract shall at all-time be open to the inspection & supervision of Engineer-in-charge and his subordinates, and the contractor shall at all times during the usual working hours, and at all other times at which responsible notice of the intention of the Engineer-in-charge or his subordinate to visit the work shall have been given to the contractor either himself be present to receive orders & instructions or have a responsible agent duly accredited in writing present for that purpose. Orders g i v e n to the contractor's duly authorised agent shall be considered to have to same force and effect as if they had been given to the contractor himself.

Notice be given before works is covered up

Clause 19 :The contractor shall give not less than five days' notice in writing to the Engineer-in-charge or his subordinate in charge of the work before covering up or otherwise placing beyond the reach of measurement any work in order that the same may be measured and correct dimensions thereof taken before the same is so covered up or placed beyond the reach of measurement and shall not cover up or place beyond the reach of measurement any work without the consent in writing of the Engineer-in-charge or his subordinate in charge of the work and if any work shall be covered up or placed beyond the reach of measurement without such notice having been given or consent obtained, the

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

same shall be uncovered at the contractor's expense and default thereof payments or allowance shall be made for such work or for the materials with which the same was executed.

Contractor liable for damage done and for imperfections

Clause 20 : If during the defect liability period as mentioned in detailed tender notice, from the date of completion as certified by the Engineer-in-charge pursuant to Clause - 7 of the contract or defect liability period after commissioning the work, whichever is earlier in the opinion of the City Engineer, the said work is defective in any manner, whatsoever, the contractor shall forth-with on receipt of notice in that behalf from the City Engineer, duly commence execution and completely carry out at his costs in every respect all the work that may be necessary for rectifying and setting right the defects specified therein including dismantling and reconstruction of unsafe portions strictly in accordance with and in the manner prescribed and under the supervision of the City Engineer. In the event of the contractor failing or neglecting to commence execution of the said rectification work within the period prescribed therefor in the said notice, and/or to complete the same as aforesaid as required by the said notice, the City Engineer, shall get the same executed and carried out departmentally or by any other agency at the risk on account and at the cost of the contractor shall forth with on demand pay to the Nashik Municipal Corporation the amount of such costs, charges and expenses sustained or incurred by the Nashik Municipal Corporation of which the certificate of the City Engineer shall be final and binding on the contractor. Such costs, charges and expenses shall be deemed to be arrears of property Tax, and in the event of the contractor failing or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and remedies of the Nashik Municipal Corporation, the same may be recovered from the contractor as arrears of Property Tax. The Nashik Municipal Corporation shall also be entitled to deduct the same form any amount which may then be payable, or which may thereafter become payable by the Nashik Municipal Corporation to the contractor either in respect of the said work or any other work whatsoever or from the amount of security Deposit retained by the Nashik Municipal Corporation.

Contractor to supply plant, ladders, scaffolding etc and is liable for damages arising from non- provisions of lights fencing etc

Clause 21: The contractor shall supply at his own cost all materials, (except such special material, if any as may in accordance with the contract, supplied from the N.M.C.Stores), plant, tools, appliances, implements, ladder cordage, tackle, scaffolding and temporary work, requisite or proper for the proper execution of the work, whether in the the original, altered or substituted form and whether included in the specifications or other documents forming part of the contract or referred or in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirements of the Engineer-in-charge as to any matter as to which under these conditions. He is entitled to be satisfied, or which he is entitled to require together with carriage therefor to & from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works and counting, weighting and assisting in the measurement or

examination at any time and from time to time of the work or the materials. Failing which the same may be provided by the Engineer-in-charge at the expense of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The contractor shall provide all necessary fencing and lights required to protect the public from accident, and shall also be bound to bear the expenses or defence of every suit action or other legal proceedings that may be brought by any person for injury sustained owing to neglect of the above precautions, and to pay any damages and costs which may be awarded in and such suit, action or proceeding by any such person, or which may with the consent of the contractor be paid for compromising any claim by any such person.

Clause 21(a) : The contractor shall provide suitable scaffolds and working platforms, gangways and stairways and shall comply with the following regulations in connection therewith.

(a) Suitable scaffolds shall be provided for workman for all works that cannot be safely done from a ladder or by other means.

(b) A scaffold shall not be taken down or substantially altered except.

- (i) Under the supervision of a competent and responsible person and.
- (ii) As far as possible by competent worker possessing adequate experience in this kind of work.

(c) All scaffolds and appliances connected there with, and all ladders shall.

- (i) be of sound material.
- (ii) be of adequate strength having to the loads and strains to which they will be subjected and.
- (iii) Be maintained in proper condition.

(d) Scaffolds shall be so installed that no part thereof can be displaced in consequence of normal use.

(e) Scaffolds shall not be overloaded and so far as practicable shall be taken on ensure the strength and stability of the scaffolding.

(f) Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.

(g) Scaffolds shall be periodically inspected by a competent person.

(h) Before allowing a scaffold to be used by his workmen the contractor shall, whether the scaffold has been erected by his workmen or not, take steps to ensure that it complies fully with the regulation herein specified.

(i) Working platforms, gangways and stairways shall.

- (i) Be so constructed that no part thereof can sag unduly or unequally.
- (ii) Be so constructed maintained, having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping and.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

(iii) Be kept free from any unnecessary obstruction

(j) In the case of working platforms, gangways, working places and stairways at a height exceeding 4 meters (to be specified)

(i) Every working platform and every gangway shall have closely boarded unless other adequate measures are taken to ensure safety.

(ii) every working platform and gangway shall have adequate width and

(iii) Every working platform, gangway, working place and stairway shall suitably fenced.

(k) Every opening in the floor of a building or in working platform shall, except for the time and to the extend required to allow the access or persons or the transport or shifting of materials be provided with suitable means to prevent the persons or materials.

(l) When persons are employed on a roof where there is a danger of falling from a height exceeding 4 meters suitable precautions shall be taken to prevent the fall of persons or material. (to be prescribed).

(m) Suitable precautions shall be taken to prevent persons being struck by articles which might fall from scaffolds or other working places.

(n) Safe means of access shall be provided to all working platforms and other working places.

Clause No. 21 B. (a) The contractor shall comply with the following regulations as regards the Hoisting Appliances to be used by him.

Hoisting machines and tackle, including their attachments, anchorages and supports shall.

be of good mechanical construction, sound materials and adequate strength and free patent defect; and

be kept in good repair and in good working order.

(b) Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defects.

(c) Hosting machines and tackle shall be examined and adequately tested after erection on the site and before use and be re-examined in position at intervals to be prescribed by the Engineer – in – charge.

(d) Every chain ring, hook, shackle, swivel and pulley block used in hoisting or as a means of suspension shall be periodically examined.

(e) crane driver or hoisting appliance operator shall be properly qualified.

(f) No person who is below the age of Eighteen years shall be in control of any hoisting machine including any scaffold which or give signal to the operator.

(g) In the case of every hoisting machine and of every chain ring, hook, shackle, swivel and pulley block used in hoisting or lowering or as a moans of suspension the safe working load shall be ascertained by adequate means.

(h) Every hoisting machine and all gear referred to in proceeding regulation shall be plainly marked with the safe working load.

(i) In the case of a hoisting machine having variable safe working and each safe working load and the conditions under which it is applicable shall be clearly indicated.

(j) No part of any hoisting machine or any gear referred to in regulation (7) above shall be loaded beyond the safe working load except for the purpose of testing.

(k) Motors, gearing, transmissions, electric wiring and other dangerous parts of hoisting appliance shall be provided with efficient safeguards.

(l) Hoisting appliance shall be provided with such means as will reduce to a minimum the risk of the accidental descent of the load.

(m) Adequate precaution shall be taken in reduce to a minimum the risk of any part of a suspended load becoming accidentally displaced.

Measures for prevention of fire

Clause No. 22: The contractor shall not set fire to any standing jungle trees brushwood or grass without a written permit from the City Engineer. When such permit is given and also in all cases when destroying cut or dug up trees, brushwood; grass, etc. by fire, the contractor shall take necessary measure to prevent such fire spreading to or otherwise damaging surrounding property.

The contractor shall make his own arrangements for drinking water for the labor employed by him.

Liability of contractor for any damage done in or outside work area

Clause 23: Compensation for all damage done intentionally or unintentionally by contractor's labour whether in or beyond the limits of Government property including any damage caused by the spreading of fire mentioned in clause 22 shall be estimated by the Engineer-in-charge or such other officer as he may appoint and the estimate of the Engineer-in-charge subject to the decision of the commissioner N.M.C. on appeal shall be final and the contractor shall be bound to pay the amount of the assessed compensation on demand failing which the same will be recovered from the contractor as damage in the manner prescribed in clause for reduced by the Engineer-in-charge from any sums that may be due or become due in Government to the contractor under his contract court in or otherwise.

The contractor shall bear the expenses of defending any action or other legal proceedings that may be brought by any person for injury sustained by him owing to neglect of precautions to prevent the spread of fire and he shall pay any damages and cost that may be awarded by the court in consequence.

Employment of female labour

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN

Clause 24: The employment of female labourers on works in the neighbourhood of soldiers barracks should avoided as far as possible.

Clause 25: No work shall be done on a Sunday without the sanction in writing of the Engineer-in-charge.

Deleted

Work not to be sublet

Clause 26: The contract shall not be assigned or sublet without the written approval of the Engineer-in-charge. And if the contractor shall assign or sublet his contract or attempt to do so or become insolvent or commence any proceeding to get himself adjudicated and

Deleted

Contract may be rescinded and security deposit forfetid for subletting it without approval of for bribing a public officer or if contractor becomes insolvent

The contract shall not be insolvent of make & composition with his creditors, or attempts so to do or if any bribe, gratuity, gift, loan, perquisite, reward or advantage pecuniary or otherwise shall either directly or indirectly be given, promised, offered by the contractor or any of his servants or agents or agent to any public officer or person in the employment of N.M.C. in any way for relating to his office or employment or if any such officer or person shall become in any way directly or indirectly interested in the contract the Engineer-in-charge may thereupon by notice in writing rescind the contract and the security deposit of the contractor shall there upon stand forfeited and be absolutely at the disposal of N.M.C. and the same consequences shall ensure as if the contract had been rescinded under clause 3 hereof and in addition the contractor shall not be entitled to recover or be paid for any work there for actually performed under the contract.

Sum payable by way of compensation to be considered as reasonable compensation without reference to actual loss

Clause 27: All sum payable by a contractor by way of compensation under any of these condition shall be considered as a reasonable compensation to be applied to the use of N.M.C. without reference to the actual loss or damage sustained and whether any damage has or not been sustained.

Charges in the constitution of firm to be notified

Clause 28 – In the case of tender by partners any change in the constitution of a firm shall be forthwith notified by the contractor to the Engineer-in-charge for his information. The power of attorney shall vest in the name of the same person until the work is completed.

Works to be under direction of the Commissioner of N.M.C.

Clause 29 – All work to the executed under the contract shall be executed under the direction and subject to the approval in all respects of the commissioner for the time being, who shall be entitled to direct at what point or point and in what manner they are to be commenced, and from time to time carried on.

Decision of the Commissioner of N.M.C. to be final

Clause 30 (1): Except where otherwise specified in the contract and subject to the powers delegated to him by N.M.C. under the code, rules then in force. The decision of the City Engineer of N.M.C. for the time being shall be final, conclusive, and binding on all parties to the contract upon all question relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work, or as to any other question claim, right, matter or things whatsoever, if any way arising out of, relating to the contract, designs, drawings, specifications estimates, instructions, orders or these conditions, or otherwise concerning the work, or the execution, or failure to execute the same, whether arising, during the progress of the work, or after the completion or abandonment thereof.

Clause 30 (2): The contractor may within 30 days of receipt by him of any order passed by the City Engineer of the NMC as aforesaid appeal against it to the Additional Commissioner, concerned with the contract, work or project provided that-

(a) The accepted value of the contract exceeds Rs.10 Lakhs (Rs. Ten Lakhs)

(b) Amount of claim is not less than Rs.1.00 lakh (Rupees one lakh)

Clause 30 (3): If the contractor is not satisfied with the order passed by the Additional Commissioner as aforesaid the contractor may, within thirty days of receipt by him of any such order, appeal against it to the Commissioner, Nashik Municipal Corporation who's decision is final and binding.

Stores of European or American manufacture to be obtained from N.M.C.

Clause 31 – The contractor shall obtain from the N.M.C. stores and articles of European or American manufacture which may be required for the work, or any part thereof or in making up any article required therefor or in connection herewith unless he has obtained permission in writing from the Engineer-in-charge to obtain such stores and articles elsewhere. The value of such store and article as may be supplied to the contractor by the Engineer-in-charge will be debited to the contractor in his account at the rates shown in the schedule, in Form A attached to the contract and if they are not entered in the said schedule they shall be debited to him at cost price which for the purpose of this contract shall include the cost of carriage and all other expenses, whatsoever, which shall have been incurred in obtaining delivery of the same at the stores aforesaid.

Lump sums in estimates

Clause 32 – When the estimate on which a tender is made includes lump sums in respect of parts of the work the contractor shall be entitled to payment in respect of their items of works in evolved or the part of the work in question at the same rates as are payable under this contract for each items, or if the part of work in question is not in the opinion of the Engineer-in-charge capable of measurement Engineer-in-charge may at his discretion pay the lumpsum amount entered in the estimate and the certificate in

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

writing of the Engineer-in-charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provision of this clause.

Action where no specification

Clause 33 – In the case of any work for which there is no such specification as is mentioned in Rule 1 such work shall be carried out in accordance with the Divisional Specifications then and in the event of there being no Divisional Specifications, and in the event of there being no Divisional Specifications, then in such case the work shall be carried out as per directions of the Engineer-in-charge.

Definition of work

Clause 34 - The expression "Works" or "Work" where used in these conditions shall unless there be something in the subject or context repugnant to such construction be construed to mean the work or works contracted to be executed under or in virtue of the contract, whether temporary or permanent and whether original, altered, substituted or additional.

Contractor's percentage whether applied to net or gross amounts of bill

Clause 35 – The percentage referred to in the tender shall be deducted from or added to the gross amount of the bill before deduction the value of any stock issued.

Quarry fees and royalties

Clause 36 - All quarry fees, royalties and ground rent for stacking materials, if any, should be paid by the contractor. No claim will be entertained by N.M.C.

Compensation under the workmen's compensation Act.

Clause 37 – The contractor shall be responsible for and shall pay any compensation to his workmen payable under the workmen's compensation Act.1923 (VIII OF 1923), (hereinafter called the said Act.) for injuries caused to the workmen. If compensation is payable/paid by N.M.C. as principal under subsection (1) of section 12 of the said Act on behalf of the contractor, it shall be recoverable by N.M.C. from the contractor under sub section (2) of the said section. Such compensation shall be recovered in the manner laid down in clause 1 above.

Clause 37 A – The contractor shall be responsible for and Shall pay the expenses of providing medical aid to any workmen who may suffer a bodily injury as a result of accident. If such expenses are incurred by Government the same shall be recoverable from the contractor forthwith and deducted without prejudice to any other remedy of Government/ NMC from any amount due to the contractor.

Clause 37 B – The contractor shall provide all necessary personal safety equipment and first aid apparatus available for the use of the persons employed on the site shall maintain the same

condition suitable for immediate use at any time and shall comply with the following regulations in connection therewith:-

a) The workers shall be required to use the equipment so provided by the contractor and the contractor shall take adequate steps to ensure proper use of the equipment by those concerned.

b) When work is carried out in proximity to any place where there is a risk of drowning, all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of nay person in danger.

c) Adequate provision shall be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

Clause 37 C – The contractor shall duly comply with the provisions of 'The Apprentices Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said rules and on his failure or neglect to do so, he shall be subject to all the liabilities and penalties provided by the said act the said the said rule.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Clause 38 – (1) Employment or famine labour etc

Quantities in respect of the several items shown in the tender are approximate and no revision in the tendered rate shall be permitted in respect of any of the items so long as, subject to any special provision contained in the specifications prescribing a different percentage of permissible variation, the quantities of the items does not exceed the tender quantity by more than 25 % and so long as the value of the excess quantity beyond this limit, at the rate of the item specified in the tender, is not more than Rs. 5000/-

(2) The contractor shall if ordered in writing by the Engineer, so to do also Contractor NO. of Correction Executive Engineer 88 carry out any quantities in excess of the limit mentioned in sub-clause (1) hereof on the same conditions as and in accordance with specifications in the tender and at the rates (i) derived from the rates entered in the current schedule of rates and in the absence of such rates (ii) at the rate prevailing in the market the said rates being increased or decreased as the case may be, by the percentage which the total tendered amount bears to the estimated cost of the work as put to tender, based upon the schedule of rates applicable to the year in which the tenders were invited.

(3) Claims arising out of reduction in the tendered quantity of any item beyond 25 % will be governed by the provisions of clause 1[illegible] only when the amount of such reduction beyond 25 % at the rate of the item specified in the tender is more than Rs. 5000/-.

(Ref. : 1) Govt. Circular No. संकीर्ण -2004/प्र.क्र. 85/[illegible]स्ते -1दि. 11.06.2004 /03.08.2018 2) Govt. Circular No. CAT/2017 / प्र.क्र..8/ ईमा.-२ दि. २२.१०.२०१८.

Clause 39 – The contractor shall employ any famine convict or other labour of a particular kind or class if ordered in writing to do so by the Engineer in charge.

Claims for com pension for delay in starting the work.

Clause 40 - No compensation shall be allowed for any delay caused in the starting of the work on account of land acquisition, encroachment removal, tree cutting, alignment issues, court matters/stay orders, clearance of works, or delay in according to sanction to estimates, or for any other reasons beyond the control of Nashik Municipal Corporation.

Claims for compensation for delay in execution of work

Clause 41 – No compensation shall be allowed for any delay in the execution of the work on account of water standing in borrow pits or compartments, hard or cracked soil, excavations in mud, sub-soil water,

encroachment removal, tree cutting, alignment issues, court matters/stay orders, or land acquisition. The rates are inclusive of all such contingencies and no claim for an extra rate shall be entertained unless otherwise expressly specified.

Entering upon or commencing any portion of work.

Clause 42 – The contractor shall not enter upon or commence any portion of work except with the written authority and instructions of the Engineer-in-charge or his subordinate in charge of the work Failing such authority the contractor shall have no claim to ask for measurement of work or payment of work.

Minimum age of person employed the employment of donkey and/ or other animals and the payment of fair wages.

Clause 43 – Sub-clause VI The contractor shall provide drinking water facilities to the workers.

(i) No contractor shall employ any person who is under age of 12 years.

(ii) No contractor shall employ donkey or other animals with breaching or string or thin rope. The breaching must be of least three inches wide and should be tape (Nawar.)

(iii) No animal suffering from stores, lame ness or emaciation or which is immature shall be employed on the work.

(iv) The Engineer-in-charge or his Agent is authorised to remove from the work any person or animal found working which does not satisfy these condition and no responsibility shall be accepted by N.M.C. for any delay caused in the work by such removal.

(v) The contractor shall pay fair and reasonable wages to the workmen employed by him in the contract undertaken by him. In the event of any dispute arising between the contractor and his workmen on he grounds that the wages paid are not fair and reasonable the dispute shall be referred with out delay to the Executive Engineer (p) shall decide the same. The decision of the Executive Engineer (P) who shall be conclusive and binding on the contractor but such decision shall not in any way affect the condition of the contract regarding the payments to be made by N.M.C. at the sanctioned tender rates.

(vi) contractor shall provide drinking water facilities to the workers.

(vii) Contractor to take precaution against accidents which take place on account of labour using loose garments while working near machinery.

Method of payment

Clause 44 – Payment to contractors shall be made by cheque drawn on any treasury provided the amount exceeds Rs.10/- Amount not exceeding Rs.10 will be paid in cash.

Acceptance of conditions compulsory before tendering for work.

Clause 45: Any contractor who does not accept these conditions shall not allowed to tender for works.
Employment of scarcity labour.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Clause 46: If Government declares a state of scarcity or famine to exist in any village situated within 16 kms. of the work, the Contractor shall employ upon such parts of the work, as are suitable for unskilled labour, any person certified to him by the Executive Engineer, or by any person to whom the Executive Engineer may have delegated this duty in writing to be in need of relief and shall be bound to pay to such persons wages not below the minimum which Government may have fixed in this behalf. Any disputes which may arise in connection with the implementation of this clause shall be decided by the Executive Engineer whose decision shall be final and binding on the contractor.

Clause- 47: The price quoted by the contractor shall not in any case exceed the control price, if any, fixed by Government or reasonable price which it is permissible for him to charge a private purchaser for the same class and description the controlled price or the price permissible under Hoarding and Profiteering Ordinance, 1943 as amended from time to time. If the price quoted exceeds the controlled price or the price permissible under Hoarding and Profiteering Prevention Ordinance, the contractor will specifically mention this fact in his tender along with the reasons for quoting such higher prices. The purchaser at his discretion will in such case exercise the right of revising the price at any stage so as to conform with the controlled price on the permissible under the Hoarding and Profiteering Prevention Ordinance. This discretion will be exercised without prejudice to any other action that may be taken against the contractor.

Clause 47 A – The Rates of Items in schedule "B"/ (BOQ) of NIT are exclusive of Taxes, in respect of sale by transfer of property in goods involved in the execution of a Works Contract under the provision of rule 51 of the Maharashtra Goods and Services Act. 2017.

Clause 48 – GST shall be payable on the accepted contract value at prevailing rates seperately. Contractor shall quote his rates excluding GST.

• Amount of GST @2% i.e.1% C.G.S.T. + 1% S.G.S.T. will be deducted at source (TDS)

Clause 49 - In case of materials that may remain surplus with the contractor from those issued for the work contracted for the date of ascertainment of the materials being surplus will be taken as the date of sale for the purpose of sales tax and the sales tax be recovered on such sale.

Clause - 50: The contractor shall employ unskilled labour to be employed by him on the said work only from locally available labours and shall give preference to those persons enrolled under Maharashtra Government and Self Employment Department's Scheme. Provided, however, that if the required unskilled labour are not available locally, the contractor shall in the first instance employ such number of persons as is available and thereafter may with previous permission in writing of the Executive Engineer-in-charge of the said work, obtain the rest of his requirement of unskilled labour from outside the above scheme.

Clause - 51: Wages to be paid to the skilled and unskilled labours engaged by the contractor. The contractor shall pay the labours skilled and unskilled according to the wages prescribed by the Minimum Wages Act 1948 applicable to the area in which the work of the contractor is located.

Clause - 52 : All amounts whatsoever which the contractor is liable to pay to the Government in connection with the execution of the work including the amount payable in respect of (i) materials and / or stores supplied / issued hereunder by the Government to the Contractor (ii) hire charges in respect of heavy plant, machinery and equipment given on hire by the Government to the contractor for execution by him of the work and/or on which the advances have been given by the Government to the contractor shall be deemed to be Arrears of Land Revenue and the Government may without prejudice to any other rights and remedies of the Government recover the same from the contractor as arrears of land revenue.

Clause - 53 : The contractor shall duly comply with all the provisions of the Contract Labour (Regulation and Abolition) Act 1970, (37 of 1970) and the Maharashtra Contract Labour (Regulation and Abolition) Rules, 1971 as amended from time to time and all other relevant statutes and statutory provision concerning payment of wages particularly to workmen employed by the contractor and working on the site of the work. In particular the contractor shall pay wages to each worker employed by him on the site of the work at the rates prescribed under the Maharashtra Contract Labour (Regulation And Abolition) Rules 1971. If the contractor fails or neglects to pay wages at the said rates or makes short payment and the Government makes such payment of wages in full or part thereof less paid by the contractor, as the case may be, the amount so paid by the Government to such works shall be deemed to be an arrears of land revenue and Government shall be entitled or deduct the same from the amount payable by the Govt. to the contractor here under or from any other amounts payable to him by the Government.

Clause - 54: The Contractor shall engage apprentices such as bricks layers, carpenters, wiremen, plumber as well as black-smith as recommended by the State Apprenticeship Advisor, Director of Technical Education, Dhobi Talao, Mumbai-1 on the construction work.

Clause - 55: (A) The antimalaria and other health measures shall be as directed by the Joint Director (Malaria and Filaria) of Health Services, Pune.

(B) Contractor shall see that mosquito genic conditions are not created so as to keep vector populations to the minimum level.

(C) Contractor shall carry out anti- malaria measures in the area as per guidelines prescribed under National Malaria Eradication Programme and as directed by the Joint Director (M & F) of Health Services, Pune.

(D) In case of default in carrying out prescribed antimalaria measure resulting increasing in malaria incidence contractor shall be liable to pay to Government the amount pent by Government on antimalaria measures to control the situation in addition to fine.

(E) RELATION WITH PUBLIC AUTHORITIES:

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

The contractor shall make sufficient arrangement for draining away the sullage water as well as water coming from the bathing and washing places and shall dispose off this water in such a way as not to cause any nuisance. He shall also keep the premises clean by employing sufficient number of sweepers. The contractor shall comply with all rules regulation, byelaws and direction given time to time by any local or public authority in connection with this work and shall pay fees or charges which are leviable on him without any extra cost to Government.

Clause 56: - INSURANCE OF CONTRACT WORK

i) Contractor shall take out necessary Insurance Policy / Policies (viz. Contractor's All Risks Insurance Policy. Erection All Risks Insurance Policy etc. as decided by the Directorate of Insurance) so as to provide adequate insurance cover for execution of the awarded contract work for total contract value and complete contract period compulsorily from the Directorate of Insurance, Maharashtra State, Mumbai " Its postal address for correspondence is " 264, MHADA, First Floor, Opp. Kalanagar, Bandra (E), Mumbai-400 051". (Telephone Nos. 2659 0403/ 2659 0690 and Fax Nos. 2659 2461/ 2659 0403). Similarly all workmen's appointed to complete the contract work are required to be insured under workmen's compensation Insurance Policy, Insurance Policy / Policies taken out from any other Company will not be accepted. If any Contractor has effected Insurance with any Insurance Company, the same will not be accepted and the amount of premium calculated by the Government Insurance fund will be recovered directly from the amount payable to the Contractor for the executed contract work and paid to the Directorate of Insurance Fund, Maharashtra State, Mumbai. The Director of Insurance reserves the right to distribute the risks of insurance among the other insurers.

ii) The Contractor shall produce the work insurance policy, the same will be reimbursed to the contractor. If contractor fails to produce the work insurance policy, Concerned Executive Engineer shall draw the policy, the amount two times amount of expenditure incurred for drawing the policy shall be recovered from the 1st R.A. Bill of the contractor as penalty to the contractor.

iii) If completion period of work is Extended, then period of work Insurance must be renewed / Extended as per requirement.

Clause 57: As per building and other construction workers (Resolution of employment and condition of service) Act 1996 and the Building and other construction workers welfare cess Act 1996 and Government of Maharashtra GR. No. BCA 2009/C.No.108/Labour A dt. 17.6.2010 cess of 1% on cost of work shall be recovered from bills payable to the contractor.

Note: As per the guidelines dated 27/09/2018, there is no provision for Price variation, Star rate for this work.

6 Additional General Conditions and Specifications

6.1 Contractor's obligations:

The work shall be performed at the place named over the head of the specification or near such place as may be approved by the Engineer and the contractor shall unless in cases other than specially approved, make any payments at his own expense for supervision and labour which the Engineer may consider necessary for the execution of the work and for performing obligations of the contract under the contract of which the NMC would have and to take, do or supply, had they themselves carried over the construction of the work.

6.2 Inspection of the work:

The contractor shall inform, by writing in advance to the Engineer-in- charge, if he wants that work should be inspected by the Engineer-in-charge, or if he wants some decision, checking, clarification etc. from Engineer-in-charge.

The instructions on site by Engineer-in-charge shall be recorded in appropriate visit register. The compliance along with the note shall be brought up in the office documents of the work.

Notwithstanding anything contained in the article, the Engineer-in-charge is empowered to visit, inspect the work without giving notice to the contractor at any time (surprise visit or so) for which the contractor shall not take any objection. All the compliance, rectification, repair etc. shall be done by the contractor, as soon as they are brought to his notice, unless which the payment shall not be made (of the items concerned)

6.3 Information regarding labour:

The contractor shall submit daily reports to the Engineer-in-charge regarding the strength of labour employed by him in both skilled and unskilled category in the prescribed statement supplied by the Engineer-in- charge from time to time. The contractor if directed by the Engineer-in- charge shall increase the strength of both skilled and unskilled labour.

6.4 Programme:

The Engineer-in-charge may at any time give directions as to the order and manner in which the several parts of work shall be carried out and the contractor shall at all times subject to the approval of the Engineer, strictly observe such directions.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

6.5 Indemnity:

The contractor shall indemnify the NMC of all actions, suits, claims and demands brought or made against NMC in respect of any matter or thing done or omitted and being done by the Contractor and loss or damage to the NMC covering consequences of any action or suits being brought against the information of the works of this contract.

6.6 Methods for carrying out the work:

The contractor shall furnish for the approval of the Engineer-in-charge a schedule giving the programme of the works giving details of the method of execution proposed to be adopted. No work shall be carried out by any other method except that approved by the Engineer-in-charge. The Engineer-in-charge may suggest suitable modifications in the programme and method prepared by the Contractor. Additional any such changes will not entitle the contractor for claiming any extra rate.

6.7 Relations with public authorities:

The contractor shall abide by all proper and legal orders and directions given from time to time by any local or public authorities and shall pay money, fees or charges to which he may be liable.

6.8 Explosives:

The contractor shall at his own expenses construct and maintain magazines if such are required for the storage of explosive for use in connection with the works, such magazines being suitably constructed and maintained in accordance with the Govt. rules applicable.

The contractor shall at his own expenses obtain such license or licenses as may be necessary for storing and using explosives. The NMC shall not incur any responsibility whatsoever in connection with the stores and use of explosive on the site or any accident or occurrence whatsoever which shall is be at the risk of the contractor and on his sole responsibility and the contractor shall give the NMC absolute indemnity in respect thereof.

6.9 Damage by floods and accidents:

The contractor shall take all precautions against damages by flood or from accidents. No compensation will be allowed to the contractor for his plant and materials, centering for R.C.C. works etc. lost or damaged by floods or from any other cause. The contractor shall be liable to make good any plant or materials belonging to NMC lost or damaged by floods or from any other cause while in charge of the

contractor. Correcting and repairing any damage which may be suffered from floods or any other natural calamity or accident at any part of the site during construction shall not be paid to the contractor.

6.10 Treasure trove:

In the event of the discovery by the contractor or by his employees during the progress of the work of any treasure minerals or other articles, or other things of interest, the Contractor shall give immediate notice thereof to the Engineer-in-charge and forthwith hand-over the Engineer-in-charge such treasure or other articles which shall be the property of the Corporation.

6.11 Returns:

The Contractors shall furnish to the Engineer-in-charge every week during the progress of the work classified weekly returns of the number of the people employed on the work during the work.

a) A weekly medical report showing the health of contract labour, the number or persons ill and the nature of their illness.

b) A report within 24 hours of its occurrence of any accident on site.

6.12 Trespass:

The Contractor shall at all times, be responsible for any damages trespasses committed by his agent and works-people in carrying out of work, unless such damage or trespasses is authorized by the Engineer-in- charge in writing.

6.13 Occupation of additional lands:

In cases where it becomes necessary, for the due fulfillment of the contract, for the Contractor to occupy land either within or outside the N.M.C. limits for temporary purposes such as work sites, yards, storage, or other ancillary requirements, the Contractor shall make his own arrangements with the respective landowners and shall pay such fees, rents, or charges as may be mutually agreed between them.

The N.M.C. shall not be responsible for acquiring land on behalf of the Contractor. However, the Corporation will provide all reasonable assistance to enable the Contractor to obtain such land for temporary use.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

6.14 Police protection:

If special protection of his camp of workpeople is asked for by the contractor, the NMC will arrange for such protection as far as possible from the authorities concerned and the full cost of such protection shall be debited to the contractor and recovered from his bills.

6.15 Controlled materials:

i. The N.M.C. will supply materials as mentioned in Schedule 'A' only required for the construction of the work in question to the contractor. The rates at which these materials will be charged to the contractor the places where they will be delivered to the contractor have been mentioned in the schedule 'A' of B-2 form attached in the tender documents.

ii. As regards controlled materials NMC will issue only permits to the contractor for the same and will be co-operated with the contractor in obtaining the material. NMC does not accept any responsibility for any delay or loss on account of delay caused for in obtaining the materials.

iii. The contractor shall submit monthly returns in the prescribed form as to the receipt of any actual quantities used for to central charge at the close of every calendar month.

iv. The contractor shall permit the engineer-in-charge or his representative to inspect the stock of the controlled materials stored by him at any time whenever Engineer-in-charge or his representative desires.

6.16 Permits and licences:

The contractor shall secure at his own expenses all permits and licenses and pay all charges and fees and give all notices necessary and due in connection with the lawful execution of the work.

6.17 Returned devices, material and progress:

Whenever the contractor desires to use any design device, material or processes covered by letters of patent or copyright, the right and the name shall be secured by suitable legal agreement with the patentee or owner. Copy or their agreement shall be filed with Engineer-in-charge.

6.18 Temporary quarters:

The contractor shall be required to make his own arrangement for the housing of all his staff on work. The contractor shall maintain at his own expenses, efficient supervising staff as may be

required by the Engineer-in-charge. Suitable fire prevention measures to the satisfaction of the Engineer, shall be taken by the contractor.

6.19 Plant:

The contractor must fulfil the condition as mentioned in detailed tender notice at his own expenses, the contractor shall also install the plant for other material to perform the work within the time agreed into the contract and keep it in working condition. He must also at his own expenses extend or improve it, when required by written request of the Engineer-in-charge.

All unused material and all tents and implements not removed by the contractor within two months of the completion date shall become the property of NMC and the contractor shall respect thereof.

6.20 Medical and sanitary arrangement:

Conditions regarding medical and sanitary arrangement to be provided for labour employed in the construction of the work by the contractor.

1. The contractor shall provide supply of pure and wholesome water for the use of labour. This provision shall be at the rate of not less than 50 liters per head. No provision may be made where there is suitable flowing nalla, river or well within 500 meters of the camp.
2. The contractor shall construct trench of semi-permanent latrines for the use of the labour. Such latrines shall be on the scale of not less than five per hundred persons in the camp. Separate latrines shall be provided for men and women.The labour may at their option be allowed to use either trench system or the latrine system.
3. Hutments:

Contractor shall build a sufficient number of huts on suitable plot in land for the use of the labour according to the following specification-

i. Huts of bamboo and grass may be constructed.
ii. A good site shall be selected on high ground removed from jungle, but well provided with trees. Whenever it is available the neighborhood of jungle grass or weeds should be particularly avoided. Camps should not be established close to large cuttings or earthwork.
iii. The lines of huts shall have spaces of at least 10 yards between two rows. When a good natural site cannot be provided, particular attention should be given to the drainage.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

iv. There should be no over crowding, floor space at the rate of 30 Sq. Ft. per head shall be provided. Care should be taken to see that huts are kept clean and in good order.

v. The contractor must find his own land and if he wants Municipal land he should apply for and pay assessment for it.

4. The contractor shall construct a sufficient number of bathing places. One unit per 20 person shall be provided. Such bathing place should be suitably screened and separate places should be provided for the purpose of washing clothes.

5. The contractor shall engage a medical officer with a mobile dispensary for a camp of 500 persons, if there is no municipal or other private dispensary situated within one kilometer from the camp.

6. The contractor shall make sufficient arrangement for draining sewage water from the bathing or washing place, and shall dispose off wastewater in such a way as not to cause nuisance.

7. The contractor shall provide the necessary staff for effecting satisfactory conservancy and clean lines of the camp upto the satisfaction of the Corporation's Engineer. At least one sweeper per two hundred persons should be engaged.

8. M.O.H. of NMC shall be consulted before opening a labour camp and as per his instructions on the matter such as the water supply, sanitary convenience at the campsite, accommodation and food supply to be followed by the contractor.

9. The contractor shall make arrangements for all ultimate measures to be provided for the labour employed on the work. The anti-malaria measures shall be taken as directed by the Asstt. Director of Public Health.

6.21 Wages to be paid to the skilled and unskilled labour:

The contractor or his representative shall pay the labour, skilled and unskilled, according to the wages prescribed by the Minimum Wages Act applicable to the area in which the work of the contractor is in progress.

6.22 Books of reference:

The work included in this contract shall be carried out in accordance with the specifications, rules and regulations laid down in the books mentioned below in order of the priority.

i) Ministry of Road Transport & Highways - specifications for Road & Bridge works

ii) Indian Road Congress Specification

iii) Codes of Indian standard Institute

iv) Standard Specifications- Vol. I. & Vol – II published by Public Works Department, Govt. of Maharashtra

v) British Standard Specifications

vi) American Standard Specifications

vii) P.W.D. Hand Book of Govt. of Maharashtra

viii) Any Other Standard Specifications approved by the Engineer or as directed by the Engineer .

If the reference books quoted above are short for the items quoted in the Schedule of this contract, reference shall be made to the higher authorities and decision of whom shall be final. It will be presumed that the contractor has tendered for the work full knowledge of the terms, conditions and specifications mentioned. The std. specifications, the plans and the special provision and all supplementary documents are essential parts of the contract.

6.23 Contract drawings:

The Contractor shall execute the whole of the work in the most substantial and workmen like manner and both as regards materials and in every other respects in strict accordance with specifications. The Contractor shall also confirm exactly, fully and faithfully to the designs, drawings and instructions in writing relating to the work sites by the Engineer-in-charge and lodged in his office and to which the Contractor shall be entitled to have access for the purpose of inspection at such office or on the site of work during office hours. The Contractor will be entitled to received three sets of scrutinized and certified drawings.

6.24 Subletting of work: Not allowed

6.25 Foreman, watchman and workman:

The Contractor shall employ only competent and experienced foremen, watchmen, and workmen for the execution of the work. The Engineer of the Corporation shall, at all times, have the authority to order the removal from the site of any foreman, watchman, or workman whose

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

conduct, behavior, or lack of competence is, in the opinion of the Engineer, unsatisfactory or detrimental to the progress and quality of the work. The Contractor shall be bound to replace such persons immediately at his own cost without any claim against Corporation.

6.26 Examination plans and locations:

Statements as to the conditions under which the work is to be performed including plans, survey measurements, dimensions, calculations, estimates, bearing etc. are made solely to furnish basis of comparison of tenders and the Corporation does not guarantee or represent that they are even approximately correct. The contractor must satisfy himself by his own investigation and research regarding all conditions affecting the work to be done and labour and materials needed and make his bid in sole reliance thereon.

6.27 Co- ordination of specifications, plans and special provisions

The standard specifications, plans, special provisions, and all supplementary documents shall be deemed essential parts of the contract, and each requirement therein shall be as binding as if fully set forth in all. These documents are intended to be complementary and shall be read together to ensure the execution of a complete and proper work. In case of any discrepancy or disagreement: The Plans shall prevail over the standard specifications. The Special Provisions shall prevail over both the Plans and the standard specifications. Written figures and dimensions shall prevail over scaled dimensions. Any such discrepancies or variations shall be finally resolved by the Engineer-in-Charge, whose decision shall be binding on the the Engineer-in-charge.

6.28 Inspection of work and materials:

1. The Engineer and other authorized employees of the Corporation shall have the right, at any time and for any purpose, to enter upon the work site and any premises used by the Contractor. The Contractor shall provide all necessary, safe, and proper facilities to enable such entry.
2. Inspection of works or of payments made to workers shall not relieve the Contractor of his full responsibility and obligation to perform the works in accordance with the terms of the Contract, the approved Plans, Specifications, and all other prescribed conditions.
3. The Contractor shall provide the Engineer-in-Charge or his authorized representative with all reasonable facilities and assistance to ascertain whether the works are being executed in accordance with the requirements and instructions of the Plans and

Specifications. If so directed, the Contractor shall, at any stage before or after execution, uncover, dismantle, or remove any portion of the completed work for inspection at his own cost. After inspection, the Contractor shall reinstate such work in conformity with the Specifications at his own cost.

4. The Contractor shall, in writing, furnish the Engineer-in-Charge with details of the regional sources of supply and the date of manufacture of all materials procured or manufactured outside the work site.
5. To ensure proper scheduling and timely inspection/approval, such information shall generally be furnished four weeks in advance, and in no case later than two weeks prior to the proposed use or incorporation of such materials in the works.

6.29 Samples and tests:

Tests of materials shall be carried out regularly as per specifications, and also whenever specifically directed by the Engineer or the Quality Control Department of NMC. The Contractor shall provide all necessary facilities required by the Engineer for collection, handling, and forwarding of samples. The Contractor shall not make use of, or incorporate in the works, any material represented by such samples until the required tests have been conducted and the materials are duly accepted.

The Contractor shall, in all cases, furnish the required samples free of charge and shall also bear the full cost of testing, including conveyance of samples to and from the approved laboratory, unless otherwise specifically provided in Schedule–B. The directions, certification, or approval of the Quality Control Department of NMC shall be binding in this regard.

6.30 Testing of materials:

All materials to be used in the works, such as cement, aggregates, concrete, mild steel reinforcement, structural steel, TOR steel, etc., shall strictly comply with the requirements of the Engineer-in-Charge and the Quality Control Department of NMC. Such materials shall be subject to tests and analysis as required by the Engineer-in-Charge, in accordance with the relevant specifications of the Indian Roads Congress (IRC), Indian Standards (IS), or other recognized and authorized specifications, as applicable.

The Contractor shall, at his own risk and cost, make all necessary arrangements and provide all facilities as may be required by the Engineer-in-Charge or the Quality Control Department for

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

collecting, preparing, and forwarding the required number of samples for testing or analysis, at such times and to such laboratories or places as directed.

The Contractor shall, whenever required, submit representative samples of materials proposed to be used in the works. If so directed, he shall not use or incorporate any such material in the works until the prescribed tests or analysis have been completed and the material has been duly approved by the Engineer-in-Charge.

The site of the proposed work is indicated on the drawings. The exact position shall be set out and aligned by the Contractor at his own cost, to the satisfaction of the Engineer-in-Charge, prior to the commencement of work. Such reference points shall be carefully preserved by the Contractor throughout the execution of the works.

6.31 Character of site:

Section of the ground including trial pit (or bore) results as indicated on the drawings are approximate and cannot be guaranteed nor can it be promised that the ground (or water level) will be as at present shown when the work is started.

The Contractor before tendering should visit the site and satisfy himself as to the nature of the ground etc. and also carry out and ascertain the subsoil strata for working and also under ground water.

6.32 Testing of superstructure:

If there are reasonable doubts as to the quality of workmanship or of materials in the construction, the City Engineer, on the recommendation of the Engineer-in-charge may order the Contractor to satisfy the Corporation by carrying out suitable load test or tests of the structure parts hereof in the manner as may be approved by him. In the event of insufficiency being noticed as the load test or tests and dismantling and reconstruction or strengthening where necessary as above shall be carried out by the Contractor entirely at his risk and cost and to the entire satisfaction of the Engineer-in-charge and till then the work shall not be considered to have been completed.

6.33 Rate analysis

Contractor shall supply the rate analysis when the question of E.I.R.L. arises. In case of extra items the Contractor shall invariably supply rate analysis based on labour and materials along with quotations in support of the rates if called for and start the work of extra items only after the work is approved by the competent authority.

6.34 Mobilisation advance – No Mobilisation advance shall be paid under this contract.

6.35 Material and works specification

All the materials to be used and works to be executed under this contract shall confirm to **"SPECIFICATIONS FOR ROAD WORKS"** (latest revision) issued by the Ministry of Road Transport and highways published by Indian Road congress.

Where reference is made in the contract to specific standards codes to be met by the materials, plant and other supplies to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards as on date of tender and codes in effect shall apply, unless, otherwise expressly stated in the contract.

6.36 Access:

The Contractor should verify the site details including access to work site, the place where water and electrical energy is energy is available, the places for dumping stores and materials and places for erection of site offices. The contractors are deemed to have considered for all contingencies connected with work site and access to it. The contractors are deemed to have considered for all contingencies connected in access for operation and movement of machinery to be used for this project viz. Sensor pavers, pneumatic – vibratory rollers, bitumen sprayers, JCB, Poclain, Motor graders, transit mixer etc. the contractors shall provide approaches to the site of works at their own cost and maintain till completion of the work. No claim whatsoever shall be entertained on this account.

6.37 Bills and payments:

Normally, one running, payment will be allowed monthly. Two running payments in a month may be permitted depending on the progress of work executed and as decided by the Executive Engineer. Printed copies of the bill forms as per this format shall be arranged by the contractor at his cost. The bills in five copies shall be submitted to the concerned Engineer in the standard Proforma only.

6.38 Production of vouchers

The contractor shall, when required by the Engineer, produce all quotations, invoices, challans, royalty charges challan, vouchers and accounts or receipts etc. to prove that the materials supplied by him are in conformity with the specification laid down in the contract.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

6.39 No interest for delayed payment

No claim for interest or damage will be entertained by the Municipal Corporation with respect to any money, or balances which may be in his hands owing to any dispute or difference, or misunderstanding between the Corporation's offices on one hand and the contractor on the other, or with respect to any delay on the part of the Municipal Corporation in making periodical or final payments, or in any other respect whatever.

Any interim certificate given relating to work done or material delivered may be modified or corrected by any subsequent interim certificate or by the final certificate. No certificate of the Engineer supporting an interim payment shall if itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract.

6.40 Payment of final bill

The contractor shall submit the final bill within three months from the date of issue of the Completion Certificate. After submission, no further claims shall be entertained, and all such claims shall be deemed to have been waived and extinguished.

Payment shall be made for all undisputed items in the bill, and for disputed items to the extent of quantities and rates as approved by the City Engineer, NMC, within a reasonable period necessary for verification and certification.

Payment of the final bill shall be deemed as full and final settlement of all dues and claims under the contract, except for such items as the contractor may specifically dispute in writing within ninety (90) days from the date of payment. Any claims not raised in this manner and within this period shall be treated as extinguished and shall not be admissible thereafter.

6.41 Alterations, additions and omissions

a. The Engineer shall make any variation of the form , quality or quantity of the works of any part thereof that may in his opinion, be necessary and for that purpose, or if for any other reason it shall, in his opinion, be appropriate, he shall have the authority to instruct the contractor to do and the contractor shall do any of the following.

   i. Increase or decrease the scope of work included in the contract,

   ii. Omit any such work (but not if the omitted work is to be carried out by the Corporation)

   iii. Change the character or quality or kind of any such work,

   iv. Change the levels, lines, position and dimensions of any part of the works,

v. Execute additional work of any kind necessary for the completion of the works.

vi. Change any specified sequence or timing of construction of any part of the works.

No such variation shall in any way vitiate or invalidate the contract, but the effect, if any, of all such variations shall be valued in accordance with the relevant clause of General conditions of contract / special conditions of contract / additional special conditions of contract.

6.42 Deviation limit

Quantities shown in the Tender are approximate and no claim shall be entertained for quantities of work executed being either more or less than those entered in the tender or estimate, to any extent.

6.43 Disputes

Disputes (if any) raised is subject to jurisdiction of Civil court of Nashik only.

6.44 Completion certificate:

The work shall not be deemed complete under this contract until the Engineer has, in writing, certified it to be so. Any approval, acceptance, or inspection of materials, workmanship, or portions of the work during execution shall not bind the Engineer, nor shall it prevent him from subsequently rejecting the work, in whole or in part, if found unsatisfactory.

The Engineer shall be fully empowered to withhold the Certificate of Completion until all alterations, modifications, or reconstructions as directed by him have been carried out by the Contractor, entirely at the Contractor's cost, to the satisfaction of the Corporation. The Contractor shall have no claim for completion or payment until such certification is issued.

6.45 Defect liability period and maintenance liability

The contractor shall be responsible for rectification of defects for a period as mentioned in detailed tender notice from the certified date of completion by the Corporation. This period shall be known as defects liability period, subsequent to taking over of the works and after it has been in use, its (their) maintenance would be the responsibility of the contractor. Any defects or failures during this period shall be rectified by the contractor within reasonable time notified in writing by the corporation. If the same is not carried out in the stipulated time, corporation shall have the right to get it repaired departmentally or through any other agency. The direct and

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

indirect cost incurred as decided by NMC shall be recovered from the any payment due to the contractor towards NMC or from security deposit.

6.46 Performance/ maintenance guarantee:

The contractors shall be required to execute an indemnity bond for satisfactory performance / maintenance of entire project, on a stamp paper of requisite value as per the format in tender. This indemnity bond shall remain in force till completion of defect liability period after completion of the project.

6.47 Electric supply :

No electrical power connection shall be provided by Corporation. The contractor shall make his own arrangement for electrical power as may be required.

6.48 Quarries:

The contractor shall arrange for quarrying of metal, sand, earth etc. at his own cost including royalties from quarries approved by NMC.

Only approved materials from these quarries shall be used on work. The test results of these materials should satisfy the requirements as per specifications. The responsibility for arranging and obtaining the land for borrowing or exploitation in any other way shall rest with the contractor, who shall ensure smooth and uninterrupted supply of material of the required quality and quantity during construction period.

6.49 General arrangement of traffic during construction

The contractor shall carry out work creating least interference to the flow of traffic. The road work area will be made available to the contractor by the department. The contractor shall take prior approval of the Engineer regarding traffic arrangements during construction. For diversion of traffic, contractor also has to take necessary approval from the City Traffic Police department. The contractor shall have to prepare a detailed traffic diversion plan as per the requirement of traffic authorities and get it approved from the traffic authorities. The contractor shall have to carry out the modifications in the traffic diversion at various stages of work as required. The contractor will have to maintain liaison with the City Traffic Police authorities so as to ensure smooth flow of traffic at all stages of the work without causing inconvenience to the traffic.

The contractor shall take necessary precautions for the safety of traffic during construction by providing, erecting and maintaining traffic barricading, fencing, signs, blinkers, flasher boards, rotors, directive boards, red flags etc. Necessary phased programme of construction, if required shall be drawn and got approved from the engineer. Following scheme is suggested.

The contractor may adopt a suitable scheme for construction which shall be got approved from the traffic Department, etc. The responsibility of obtaining the permissions for scheme to be adopted from concerned authorities e.g. traffic shall be that of the contractor.

6.50 Road barricading:

The contractor to provide the barricades, fencing erected on either side of the portion of carriageway closed to traffic and also to cordon off the working area shall be strong to resist vibration and painted with alternate black and white oil painted sufficient numbers of stripes, Blinkers or flashers either electrically operated or battery operated shall be provided on the barricades to have nighttime warning to the vehicle operators. The type of barricades and drawings, i.e. M.S. collapsible barricades, M.S. fencing, M.S. / G.I. pipe railing shall be as approved by the Engineer.

6.51 Traffic signs of boards:

Traffic sings and traffic regulatory boards shall be reflectorised and shall be in accordance with IRC-67 The traffic cautionary and regulatory boards shall be prepared as per the approved drawings and as directed by the Engineer. These signs and boards shall be fixed in position at the places shown by engineer in cement concrete and shall be suitably braced. The traffic signs and boards shall be proposed on the basis of MOST clause No. 801 and in accordance with relevant IS & IRC codes. On each approach at least two signs and cautionary boards shall be fixed, One at close to the point where transition of carriageway begins and other at about 100 m away.

6.52 Road delineators:

Road Delineators as per IRC 79 and as per the relevant drawing and as directed by the Engineer shall be fixed at suitable intervals to have a suitable guidance to the road user at the night time to follow the passage. Delineators shall be fixed firmly in the ground. In addition to above, contractor shall provide red flags at suitable intervals on the barricades and also fix cat eyes along the barricading to have night time guidance. Contractor shall also make an

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

alternative arrangements and providing red lanterns on the barricading in case of failure of electricity or failure of batteries provided to blinkers, flashers etc.

6.53 Maintenance of traffic safety and control devices:

Traffic signs, cautionary and mandatory boards, blinkers, flashers, barricading, fencing, and retro reflectors shall be provided and maintained in satisfactory condition until completion of the work or as directed by the Engineer.

The Contractor shall have to do all excavation with great care by providing shoring and strutting wherever necessary. The excavated material shall not be dumped on the road surface. The contractor shall take all care to plan the stages of work in such a manner that the work shall be brought to safe level before onset of monsoon, so that the traffic will not be jeopardized during monsoon. The contractor shall immediately bring to the notice of the Engineer or his authorized agent at site, if any service line (eg. Telephone cables, electric cables, water supply pipe lines, sewerage lines etc.) is met with during the course of excavation.

The traffic could be plying through the stretch of road during the progress of construction. The suitable arrangement for diversion of traffic avoiding the use of area under construction shall be made by the contractor. The work will have to be phased accordingly by the contractor.

6.54 Avoidance of damage to roads:

The Contractor shall use every reasonable means to prevent any of the roads or bridges communicating with or on the routes to the site from being damaged or injured by any traffic of the contractor or any of his subcontractors and in particular, shall select routes, choose and use vehicles and restrict and distribute loads so that any such extraordinary traffic as will inevitably arise from the moving of materials, plant, contractor's Equipment or Temporary works from and to the site shall be limited, as far as reasonably possible, and so that no unnecessary damage or injury may be occasioned to such roads and bridges.

It is necessary for the contractor to move one or more loads of heavy constructional plant and equipment, materials or pre constructed units or parts of units of work over roads, highways, bridges on which such oversized and overweight items are not normally allowed to be moved, the contractor shall obtain prior permission from the concerned authorities. Payment for complying with the requirements, if any, for protection of or strengthening of the roads, highways or bridges

shall be made by the contractor and such expenses shall be deemed to be included in his tender rates, and/or contract price.

6.55 Transport of materials or plant

If, during the execution of the works or at any time thereafter, the concerned authorities make any claim in respect of damage or injury to roads, highways, or bridges arising out of transport of materials or plant to the contractor or corporation, then the contractor shall settle the claim forthwith. In case of failure of the contractor in settling the claim, and in case the corporation is held responsible for payment to the authorities, then the corporation shall settle the claim and the corporation's expenses in this regard, as certified by the Engineer, shall be deducted from the contractor's dues.

6.56 Services:

Various utility service lines such as water supply, sewerage, electric cables, street light cables, traffic signal cables, gas, coaxial, petroleum pipes, water pipes, telephone etc. running parallel to the road or across the road either underground or overground may exist at the site of work. Arrangements for shifting of telephone lines, street light cables, electric supply lines which could be easily and conveniently rehabilitated before starting the work have been made. Some service lines will have to be shifted / rehabilitated during the progress of the work only. Taking these facts into account due care will have to be taken not to damage any service line in the process of excavation. If during the course of execution of the work, any such service lines is met with, then the contractor shall execute work as per the modified working system to avoid shifting of the utility or he shall shift the utility as directed by the Engineer.

The contractor should co-ordinate with concerned Authorities in consolation with the Engineer in case the existing utility service lines are required to be shifted.

6.57 Inspection by statutory authorities and approvals / permission etc.

The contractor shall also give facility to the authorised representative of statutory agencies to inspect the works whensoever required and shall observe and abide by any instructions given by the Engineer in regard to the use of plant, equipment and temporary works whether in respect of fire hazards or general safety and to any restrictions on smoking or the use of naked lights by persons employed by the contractor. Compliance of such requirements shall not be used as the basis of claim against corporation.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Before commencing the execution of work, the contractor shall obtain at his own cost all information required for obtaining statutory sanctions/ approvals / permissions etc. which has a bearing on the quoted rates vis-à- vis completion. Neither extension of time limit nor revision in rates shall be permissible for any delay on this account.

6.58 Works of corporation and others

The ordinary business and works of the corporation and others as carried out on/ in the vicinity of the site will be continued during the construction, completion and maintenance of the works and the contract shall be conducted in such a way so as to avoid interference with traffic of every kind and with any other works in progress in the vicinity.

6.59 Work to the satisfaction of engineer:

The contractor shall execute and maintain the works in strict accordance with the provisions of the Contract, to the complete satisfaction of the Engineer. The Contractor shall comply with and strictly adhere to all instructions and directions issued by the Engineer on any matter connected with the works, whether explicitly stated in the contract or not.

All materials shall be tested in the site laboratory to the satisfaction of the Engineer. Tests which cannot be carried out in the site laboratory shall be conducted at approved institutions such as MERI–Nashik, Government Polytechnic, College of Engineering Pune, Quality Control Department of NMC, or any other laboratory approved by the Engineer-in-charge.

The testing of materials and works shall be carried out strictly in accordance with the frequency and standards specified in MoRTH Specifications, IRC Codes, IS Codes, and other relevant specifications. The Contractor shall also fully cooperate with inspections and testing to be undertaken by the Quality Control Department of NMC, Third Party Quality Check agencies, Third Party Quality Auditors, and/or Independent Testing Firms (ITF) as may be appointed by the Corporation, Kumbhmela Pradhikaran. Their directions, findings, and certifications shall be final and binding.

All facilities, arrangements, manpower, and samples required for testing shall be provided by the Contractor at his own risk and cost. The Contractor shall also bear the entire cost of such testing and quality checks unless otherwise specifically provided in Schedule–B.

6.60 Programme of works:

a. PERT / CPM CHART

The contractor shall submit to the Engineer for his approval a programme in the form of detailed Bar/ CPM/ PERT chart inclusive of resources (materials, labours, equipments and machineries) showing the order and procedure in which he proposed to carry out the works. The contractor shall whenever required by the Engineer also provide in writing for his information a general description of the arrangements and methods which the contractor proposed to adopt for the execution of works. The periods of completion of various items shall tally with the periods indicated in the bar chart.

b. Revised Programme

If at any time it should appear to the Engineer that the actual progress of the works does not conform to the approved programme referred to in sub-clause (a) of this clause, the contractor shall produce, at the request of the Engineer, a revised programme showing the modifications to the approved programme necessary to ensure completion of the works within the stipulated time for completion of the works including programme for procurement of materials required at site for the work.

The submission to and approval by the Engineer of such programmes or the furnishing of such particulars shall not relieve the contractor of any of his duties, responsibilities and all obligations under the contract.

The contractor shall seek the Engineer's permission to do any work at night or on Sundays, such permission shall not be unreasonably refused.

c. Progress Report:

The contractor shall submit to the Engineer on the first day of each week a progress report of the preceding week showing up-to-date progress during the previous period of all important items of each section or portion of the works.

6.61 Quality assurance and maintenance manual

1. To ensure the specified quality of work which will also include necessary surveys, temporary work etc. the contractor shall engage a qualified and an experienced senior engineer with team of supporting Engineers on the work who shall prepare a quality assurance plan and get the same approved from the Engineer within one month, from the date of work

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

order. For this, the contractor shall submit an organisation chart of his technical personnel to be employed on the work alongwith their qualifications, job descriptions defining the functions of reporting, supervising, inspecting and approving. The contractor shall also submit a list of tools, equipment and the machinery and instrumentation which he proposes to be used for the construction and for testing in the field and/or in the laboratory and monitoring. The contractor shall modify and supplement the organisation chart and the list of machinery, equipment etc. as per directions of the Executive Engineer and shall deploy the personnel and equipment on the field as per the approved chart and list respectively. The contractor shall submit written method statements detailing his exact proposals of execution of the work in accordance with the specification. He will have to get these approved from the Engineer. The quality of the work shall be properly documented through certificates, records, checklists and logbooks of results etc. such records shall be compiled from the beginning of the work and be continuously updated and supplemented and this will be the responsibility of the contractor. The forms should be got approved from the concern Executive Engineer.

2. No equipment and personnel will be removed from the site without the permission of the Engineer – in – charge.
3. The contractor shall also prepare and submit a maintenance manual giving procedure for maintenance with the periodicity of maintenance works including inspection, tools and equipment to be used, means of accessibility for all parts of the structure etc. he shall also include in the manual, the specification for maintenance works. The maintenance work of road will be carried out in conformity with the manual for maintenance of Roads" And ' Code of practice for maintenance for bituminous surfaces of highways, IRC 82 – 1982,and section 3000 of M.O.R.T & H specification. Any damage to the wearing coat will be repaired with the bituminous concrete layer and any potholes to the road surface will be repaired with the bituminous macadam followed by bituminous concrete layer etc. Wherever the specification is not clear, good engineering practice shall be adopted in the maintenance of roads to the specification of the Engineer – in – charge. The contractor is fully responsible for their pairs and rectification to all those changes / defects of the road surface coursed during the defect liability period except damages caused by the works, prior permission of NMC. After repair of road surface above during defect liability period if aesthetics look of road surface gets disagree at it will be binding on contractor to relay wearing coat to full width so such an extent that over all look of road will be harmony &

homogeneity look and required roughness index must be provided. In this regards the decision of City Engineer will be binding. This manual shall be submitted within the contract period.

6.62 Site office for the client and engineer.

The Contractor shall provide separate & independent site office of semi-permanent type structure with attached toilet, with electric & water supply, etc.

6.63 Field laboratory

The contractor shall provide and maintain adequately equipped as mentioned below field laboratory is required for site control on the quality of materials and the works. It shall have adequate area and shall be provided with amenities like water supply, electrical supply etc. The contractor shall engage a well experienced lab – in – charge (bio data to be approved by Engineer – in – charge for conducting day - to –day test as per MoRT & H. All the equipment should be calibrated to the latest date.

S.No.	Description	Unit	Specification	Qty
	Site Laboratory			
	A) General Equipment	Nos.		
1.	Balance ordinary, 10 kg with weights	Nos.		2
2.	Balance ordinary, 20 kg with weights	Nos.		2
3.	Electronic balance 5kg.	Nos.		1
4.	Thermometer (Dial Type)	Nos.		2
5.	Hot plate	Nos.		2
6	Glassware, spatulas, wire gauges, steel scales, measuring tape etc.	Nos.		1
7	Set of IS sieve	Nos.		
7-a	GI sieve, 450 mm dia 125mm, 100mm, 90 mm, 80mm, 63mm, 53mm, 50mm, 40 mm, 37.5mm, 26.5mm, 25mm, 22.4mm, 20mm, 19mm, 13.2 mm, 11.2mm. 9.50mm, 4.75mm, 4.25mm, 6.3 mm, 6mm, with lid and pan.	Nos.		1 set of 23 units

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

7-b	Brass sieves, 200 mm dia 2.8mm, 2.36mm, 1.18mm, 0.60mm, 0.30mm, 0.15mm, 0.075mm, 425 micron, 300 micron, 150 micron, 90 micron, 75 micron with lid and pan.	Nos.		1 set of 13 units
8	Dry bulk density test apparatus (sand pouring cylinder, tray, can etc)			
8-a.	Sand replacement method, 100mm, dia. Cylinder tray with hole & calibration equipment	Nos.		2
8-b.	Sand replacement method, 200mm, dia. Cylinder tray with hole & calibration equipment	Nos.		2
9	Speedy moisture meter	Nos.		2
10	Core cutter apparatus with doly & rammer	Nos.		1
11	Flakiness and elongation gauage	Nos.		1
12	Standard measures of 30, 15 and 3 liters	Nos.		1
13	Centrifuge type bitumen extractor hand operated complete with commercial benzene	Nos.		1
14	Field density basket with cutting tray, chisel, hammer and standard sand.	Nos.		1
15	Camber plate	Nos.		2
	for cement and cement concrete			
16	Slump testing apparatus	Nos.		3
17	Needle vibrator 40 mm & 60 mm	Nos.		1
18	Sieve shaker, electrically operated for 20cms & 45 cms sieves.	Nos.		1
19	Concrete cube moulds 150 x 150 x 150	Nos.		18

Note: It shall be mandatory for the Contractor to obtain the Mix Design from an approved laboratory/engineering college, as approved by the Engineer-in-Charge of N.M.C. It shall further be mandatory for the Contractor to get the said Mix Design verified and approved by the Engineer in charge of N.M.C. prior to commencement of actual execution. The entire cost of obtaining and verifying the Mix Design shall be borne by the Contractor, unless a separate provision for such payment is specifically made in Schedule 'B.

6.64 Samples:

The Contractor shall furnish to the Engineer, for approval, adequate samples of all materials proposed to be used in the work and shall permit such tests and examinations thereof as may be required. All materials used in the work shall strictly conform to the approved samples. The choice and approval of materials, as best suited for the work, shall rest with the Corporation unless otherwise specified. Further, whenever deemed necessary, the Contractor shall also obtain quarry approval from the Engineer in charge of N.M.C., and no materials from any quarry shall be used without such approval. The entire cost of furnishing samples, conducting tests, and obtaining approvals, including quarry approval, shall be borne by the Contractor unless a separate provision for such payment is specifically made in Schedule 'B'.

6.65 Inspection and testing of materials:

1. All Materials and workmanship shall be subject to such tests as are specified in the MORTH Specifications, relevant IRC Standards, or as the Engineer may direct. All materials, except those which must necessarily be tested at the works of the Contractor or manufacturers, shall be delivered to the site sufficiently in advance of their use to enable the Engineer to have such tests made as may be considered necessary.
2. The samples of cement, steel, bitumen, bituminous mixes, paving blocks, kerb/median stones, R.C.C. pipes, aggregates, sand, road metal, precast water table stones, or any other material of each consignment shall be got tested from a laboratory approved by the Engineer or from the Quality Control Department of N.M.C., as directed.
3. The frequency and type of tests on various materials and completed items shall be as per MORTH specifications. The sub-workwise testing requirements are detailed in the tender documents.The contractor shall furnish all information as to quality, weight, constituent substances, dimensions, levels, strength and description of the materials and works and give the Engineer such other particulars as may be required.
4. The Contractor shall give the Engineer written notice of the workshops, factories, or places where work is being or about to be prepared, or from which materials or manufactured articles are being or are to be supplied. The Contractor shall also keep the Engineer informed of the times when such materials will be ready for inspection so that such inspection may take place without delaying dispatch of the materials to the site. Such notices shall be given at such times as will permit inspection during all stages of manufacture, not merely upon completion of materials for dispatch.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

5. The Engineer shall be entitled to attend all works of the manufacturers and subcontractors to test materials and workmanship. Every facility shall be provided by the Contractor for such inspections and tests. The Quality Control Department of N.M.C. may also carry out inspection and testing as deemed necessary.
6. All expenses towards such visits, inspections, and testing shall be borne by the Contractor, at his own cost, unless a separate provision for such payment is specifically made in Schedule–B.

6.66 Quality of materials and workmanship

1. The whole of materials and workmanship of the works shall be in accordance with the contract documents , conform to the dimensions specified or shown on the drawings, of best standard and quality of their respective kinds, passing all the specified tests and they shall at all times be subject to the approval of the Engineer who shall have the right to inspect, test and reject if necessary and order the removal, replacement and reconstruction of the materials and work at every stage of the progress of works.
2. The Contractor shall guarantee the strength and quality of all materials and workmanship, and he shall not be relieved of his obligations with respect to the sufficiency of the materials or workmanship by reason of no objection having been thereto during the progress of the operation by the Engineer although the same may have been inspected by them in regular course.

6.67 Testing charges:

Testing of material procured by the Contractor shall be arranged by him at his own cost and at the required frequency as specified in the MORTH / IRC Specifications and as directed by the Engineer. Testing shall be carried out in the presence of the authorised representative of the Engineer at the field laboratory, at the nearest approved laboratory, or at the factory itself, wherever such testing facilities are available.

If additional testing, other than that prescribed in the specifications, is ordered, the testing charges shall be borne by the Corporation if the test results are found satisfactory, and by the Contractor if the test results are not satisfactory.

The Quality Control Department of N.M.C. shall have the authority to carry out or verify such tests as and when found necessary. All such testing, inspections, or verifications shall be at the cost of the Contractor, unless a separate provision for payment is specifically made in Schedule-B.

6.68 Cement concrete:

10. The contractor shall carry out all preliminary tests to work out grading and proportioning of aggregates in order to obtain and maintain uniform quality of work. The contractor shall supply all materials, labour and bear charges for preparing and testing samples as required by the Engineer, unless otherwise specified in the detailed item wise specifications. The minimum frequency of sampling of concrete of each grade shall be as per clause No. 1716 of MOST specifications for road & bridge works (4th revision, 2001) subject to a minimum of six test cubes per day of concrete. The contractor shall make field arrangements for silt content, moisture content, sieve analysis, slump test, density and bulkage testing and also prepare concrete cube 15cm x 15 cm x 15cm for testing compressive strength at his cost. The cubes shall be got tested at approved laboratory and the test result shall not fall below those prescribed in the relevant codes or as laid done in the specification. The cost of cubes and testing charges shall be entirely borne by the contractor.
11. For controlled concrete work tests shall be taken accordance with relevant code specifications.
12. The concrete shall be mechanically vibrated for proper compaction by the method approved by the Engineer. The precast kerb/ median stones should be manufactured by mechanically vibrated plat form to receive the finish as good as factory finish.
13. The concrete shall be cured only by fresh potable water upto the minimum period specified in the relevant code, after the time of its placement or as may be directed by the Engineer.
14. Only fresh potable water duly tested shall be used for concrete works.

6.69 Mix design

Contractor shall have to submit for all concrete mixes having a strength of M–20 (200 kg/cm²) and above. Every mix design shall be repeated twice during each working season, or as directed by the Engineer.

The mix design shall be carried out through an approved laboratory / engineering college / testing institute, and the same shall be checked and approved by the Engineer in charge of N.M.C. before commencement of actual execution. The entire cost of preparing, testing, checking, and obtaining approval of mix designs shall be borne by the Contractor, unless a separate provision for such payment is specifically made in Schedule-B.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

6.69.1 Minimum cement consumption:

Minimum cement consumption per cubic meter of concrete for the different grades of concrete shall be as follows

Grade	R.C.C.
M-10	220
M-15	305
M-20	360
M-25	425
M-30	460
M-35	475
M-40	490
M-45	510

6.69.2 Admixture:

Calcium / chloride shall not be used. Air-entraining agents, workability aids and retarding agents may be used if permitted by the Engineer provided that suitable precautions are taken and it can be shown by test that the product to be added will produce the required effect without in any way changing the other qualities required in the concrete or damaging the steel.

6.69.3 Form work

The formwork used shall be made by steel/ marine plywood properly stiffened such as DOKA /PERI Type.

6.70 Bituminous works

The contractor should strictly follow the following conditions:

a) Materials

i) The contractor shall make his own arrangement for supply of materials including bitumen VG10, VG30, VG 40, Emulsion and RCC pipes, collars. The contractor shall be responsible for all transportation and storage of the materials at site and shall bear all the related costs. The Engineer shall be entitled at any time to inspect or examine all such materials. The contractor shall provide reasonable assistance for such inspection or examination as may be required.

ii) The contractor shall keep an accurate record of use of materials like bitumen VG10, VG30, VG 40, emulsion, cement, steel and the other required material used in the works in a manner prescribed by the Engineer as per IRC, MOT&H specifications and relevant IS code.

iii) After receiving the bitumen, the authorized challan / gate pass should be obtained from the refinery mentioning the quantity of bitumen, grade of bitumen, date and time of delivery etc. and its should be handed over to Department for each consignment.

iv) Bitumen of required category shall be procured only from Hindustan Petroleum corporation Ltd., (HPCL), Bharat Petroleum corporation Ltd. (BPCL) and Indian Oil Corporation Ltd. (IOC) refinery only.

v) If there is any doubt regarding the materials received the same should be got tested from the Govt. laboratory at the cost of the contractor and if the results are substandard, the materials or the work executed with such materials will be rejected.

vi) The day – to – day record of the receipt / utility / balance of materials should be kept by the contractor at plant site / site of work / store and the same will be checked by the Engineer – in – charge or authorized Engineer at any time.

vii) The minimum frequency of sampling and testing of bituminous work of each type shall be as per section 900 of MORT & H specifications for road. The testing charges shall be borne by the contractor.

viii) The contractor shall obtain prior approval of all materials from the Engineer-in-Charge and shall use such materials only after satisfactory Job Mix Formula (JMF) results have been obtained. For preparation of the job mix, representative samples shall be collected through an approved sampling system. The samples for job mix shall be taken directly from the bins of the batch mix plant by operating the plant without addition of asphalt, so as to ensure accurate and uncontaminated material representation.

ix) The source of aggregates shall be approved by the Engineer-in-Charge prior to use. In the event of any variation in the required properties of aggregates, the contractor shall immediately notify the Engineer-in-Charge and obtain approval for an alternate source. Aggregates shall be tested on a daily basis for water absorption and other specified properties to ensure compliance with the required standards.

b) Plant and Machinery

All the bituminous work shall be carried out with the help of following machineries

i) **Asphalt Batch mix plant**:

Considering the upcoming Kumbhmela in Nashik, the balance period for completion of work and considering the importance and emergency nature of work

A) It is compulsory to have, Asphalt Batch mix Plant having minimum Capacity of 80 TPH with SCADA.

B) Tenderer/Bidder must submit Distance Certificate of batch mix plant from Executive Engineer, Quality Control Department, Nashik Municipal Corporation, certifying that their plant is situated within 30 km from Rajiv Gandhi Bhavan, within 45 days after issue of LOA.

C) In the event of failure to produce the distance certificate, the EMD will be forfeited and action deemed fit will by the appropriate authority and the work be allotted to subsequent L2,L3,L4, - - - bidders, if he is ready with the L1 bidder's offer. In the event if none of the

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

subsequent bidders are ready to negotiate at L1 bidder's offer then the tender will be recalled.

ii) **Mechanical Sprayer:** Truck mounted or towed type bituminous pressure sprayer of minimum 3 M.T. capacity with SCADA.

iii) Hydraulic Paver Finisher with Automatic Electronic Sensor Device (SCADA enabled): The Electronic Sensor Paver Finisher shall be equipped with an electronic sensing device and shall conform to Clause 504.3.5 of the MORTH Standard Specifications. The machine shall have a screed of minimum 9.00 metres width and shall be capable of laying bituminous layers with a minimum lift thickness of 75 mm, should be used.

iv) Vibratory Tandem Roller: of 8 to 10 tonne static weight with amplitude and frequency of vibration desired for bituminous & other work.

v) Pneumatic Tyred roller (PTR) – (For bituminous work only) operting wight not less than 8 ton, minimum 8 tyres with self-inflating system

vi) W.M.M. Mixing plant (Pug Mill) – 200 Ton per hrs.

vii) W, M.M. Paver – hydraulic screed with 4.5 Mtr. wide & 250 mm lift.

viii) Motor Grader – Engine output above 150 kw.

ix) Truck and Tipper- The material carring vehical (trucks, tippers) with min 10 MT capacity with SCADA enabled.

x) Mechanical broomer, air jet pressure compressor, asphalt saw cutting machine shall be used.

All equipments provided should be of proven efficiency and shall be operated and maintained at all times in a manner acceptable to the engineer.

6.71 Subletting of works:

The Contractor shall not assign, transfer, or sublet the whole or any portion of the works under this contract to any Subcontractor, firm, or individual. Engagement of subcontractors of any kind shall be strictly prohibited.

6.72 Roll of P.M.C. / Consultants / Third party

1. **Project Management Consultants, Third Party Inspection & Audit**

NMC may, at its sole discretion, appoint Project Management Consultants (PMC) to assist NMC Engineers in all matters pertaining to this project, including but not limited to tender evaluation, supervision of works, quality control, quantity measurement, verification of records, and certification of bills during the entire execution period.

2. NMC may also, at any stage, engage independent experts, Third Party Inspection (TPI) agencies, Third Party Technical Auditors (TPA), Independent Testing Firms (ITF), or any

other agency as directed by the Kumbhmela Pradhikaran for scrutiny, inspection, supervision, or quality/technical audit of the works.

3. All decisions, remarks, observations, and directions issued by such PMC/experts/TPI/TPA/ITF or other agencies shall be binding upon the Contractor, who shall be fully responsible for compliance without delay or dispute.
4. The intermediate payments and final bill of the work shall be routed through the PMC/Consultant for verification and approval, and payments will only be released after such approvals are obtained.
5. The cost of PMC shall be borne by Nashik Municipal Corporation. However, all expenses related to TPI, TPA, ITF, third-party testing, or quality audits shall be borne entirely by the Contractor and deemed to be included in the quoted rates. No separate claim on this account shall be entertained.
6. If the Contractor fails to carry out the prescribed third-party inspections, tests, or audits within the stipulated time, NMC shall have the right to get the same conducted at the Contractor's risk and cost. The actual expenses incurred shall be recovered from the Contractor's running or final bills without any objection or dispute.
7. The Programme for inspection for inspection and testing shall be fixed by mutual discussions between contractor and testing agency well in advance and shall be intimated to Engineer – in – charge.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

7 General conditions

1. The rates quoted by the Contractor include clearance of site prior to commencement of work and at its close, in all respect and whole good for work under all conditions, site, moisture, weather etc.

2. The demarcation or fixing of alignment etc. shall at all times be done by the contractor and he shall provide all labour and material for such demarcation, checking it at all time till the completion of the work. This shall be done at the contractor's cost.

3. The Contractor shall have to make all necessary arrangements for regulating traffic day and night during the period of the construction. The contractor shall have to provide necessary caution boards, barricades, flag red lights, night watchman, traffic regulators etc. so as to comply with the latest motor vehicles rules and regulations. The Contractor shall make his own arrangements to construct and maintain the diversion to facilitate the passage of traffic as per instruction of the Engineer-in-charge, if not provided in the tender separately.

4. Before starting of any important item, the contractor should take prior permission in writing at least four days before from the Engineer-in-charge.

5. A work order book shall be maintained at the work site by the Contractor and the Contractor, or his authorized representative will see the order book and sign it when the instructions are given. Failure to see the order book, or to sign, will be no excuse for not attending to the order or remarks. Non- compliance of remarks to the satisfaction of the Engineer-in-charge, who gave in writing orders or remarks, shall lead to total rejection of work and the payment being suspended arbitrarily and shall not be modified by any subsequent representations against the action.

6. Watering will be carried through daytime without any break during lunch break and to the entire satisfaction of the Engineer-in-charge or supervision staff. All tools and plants required for proper watering to any height will be used by the Contractor without any extra charges for the same.

7.1 Insurance policy

Contractor shall take out necessary insurance policy / policies so as to provide adequate insurance cover for execution of the awarded contract work from the "Director of Insurance,

Maharashtra State, Mumbai" only. (Its address is '264, MHADA, First Floor, opp. Kalanagar, Bandra (East), Mumbai 400 051. Insurance policy / policies taken out from any other company shall not be accepted. However if the contractor desires to effect insurance with any of the local offices of any insurance company, it should be under the co-insurance-cum-servicing agreement approved by the Directorate of Insurance. If the policy taken out by the contractor is not on the co-insurance basis, i.e. G. I. F. 60% and Insurance Company 40%, the same will not be accepted and the amount of premium calculated by the Directorate of Insurance shall be recovered directly from the amount payable to the contractor for executed contract work.

7.2 Additional general specifications for ordinary high grade and prestressed concrete

a) The work included in this contract shall be carried out in addition to the specification detailed therein, in accordance with the specification, rates and regulation as laid down in the latest revisions of following standard specification.

IS: 269 –1958	Specification for ordinary, rapid hardening & low heat Portland cements
IS: 383 -1963	Specification for coarse and fine aggregates from natural sources for concrete.
IS: 432-1990 -	Specification for mild steel and high tensile bars and hard drawn steel wire for concrete reinforcement.
IS: 456-1978 -	Code of practice for plain and reinforced concrete for general building construction (Revised).
IS: 1343 -1960	Code of practice for pre-stressed concrete for Indian Standard record in the above Indian Standards.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

If the standard specifications quoted above fall short for the item quoted in the schedules of this contract, references shall be made to the latest British Standard Specifications, if any. If the items of this contract do no fall in reference quoted above, the decision and specifications as directed by the Engineer shall be final.

b) The Contractor shall establish a field laboratory to carry out all preliminary tests to work out grading and proportioning of aggregates in order to obtain and maintain uniform quality of work. The Contractor shall supply all materials, labour and testing machine for preparing and testing samples as required by the Engineer. Unless otherwise specified in the detailed item- wise specifications. Number of cubes to the taken and tested shall be as per IRC: 21-2000, Code of Practice for Road Bridges, Section III, for R.C.C. and IRC: 18-2000, Design Criteria for Pre-stressed Concrete, for P.S.C. work.

Note: These are to apply as additional instructions and conditions, unless otherwise already provided for contract elsewhere in this contract.

7.3 Definitions

Definitions: Unless excluded by or repugnant to the context.

a) The expression ***Corporation*** as used in the tender papers shall mean the Nashik Municipal Corporation.

b) The ***Commissioner*** means the Commissioner of NMC

c) The expression ***Engineer*** or ***Engineer-in-Charge*** as used in the tender papers shall mean the Corporation's authorized "Engineer-in-Charge" of the work for the time being.

d) The expression ***Contractor*** as used in the tender papers shall mean the successful tenderer whose tender has been accepted and who has been authorized to proceed with the work.

e) The term ***Contract*** as used in the tender papers shall mean the deed of contract together with its original accompaniments and those later incorporated in it by mutual consent.

f) Expression ***Plant*** as used in the tender papers shall mean, every temporary and accessory means necessary or considered necessary by the Engineer to execute, construct, complete and maintain the works and used in altered, modified, substituted

and additional work ordered in the time and the manner herein provided and all temporary materials and special and other articles, appliance of every sort, kind and description whatsoever intended or used therefore.

g) ***Drawing*** shall mean the drawings referred to in the specifications and any modifications of such drawings approved in writing by Engineer and such other drawings as may from time to time furnished or approved in writing by the Engineer.

h) ***Engineer's Representative*** shall mean an assistant of the Engineer notified in writing to the Contractor by the Engineer.

i) ***Provisional*** Sum or ***Provisional Lump-Sum*** shall mean a lump sum included by the Corporation in the Tender documents and shall represent the estimated value of work for which details are not available at the time of issue of tender.

j) ***Provisional Items*** shall mean items of which approximate quantities have been included in the tender documents.

7.4 General conditions and specifications to be observed by the contractor

1. The Contractor should quote his lump sum cost inclusive of all leads, taxes, royalties, town duties etc.

2. The Contractor will make his own arrangements for quarries of rubble stone, murum, sand lime etc.

3. De-watering of foundations during excavation and construction of foundation masonry or required shall be made by the Contractor without claiming extra cost.

4. The contractor will abide by the (P. W. & H.) Department Contractor Labour Regulation.

5. The Contractor shall be required to pay compensation for any loss of physical damage received by a labour disabling him permanently as per Workman's Compensation Act.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Schedule 'A'

Name of work :

Sr.No.	Particular	Quantity	Rate	Unit	Amount
		NIL			

Note : The person or firm submitting tender should see that the rates in the above schedule are filled up by Corporation Engineer, on the issue of the form prior to the submission of the tender.

1) All materials in Schedule 'A' as may be required for the work shall be taken from the Department only. Outside materials in lieu of those mentioned in schedule 'A' shall not be allowed partially or full prior to approval of the Corporation Engineer.

2) The contractor shall have to construct a shed for storing controlled and valuable materials issued to him, under schedule 'A' of agreement on work site having double locking arrangement. The material will be taken for the use in presence of Department persons. No material will be allowed to be removed from the site of the work.

3) Unused controlled material shall be returned by the contractor on completion of work subject to prior approval of the corporation Engineer in items of clause No. 2 of the agreement. In case of failure to do so the contractor shall pay cost of unused

controlled materials at double rates at which these materials were issued to him. And the contractor shall be liable to pay sales and general tax as applicable on the value of such surplus materials to this corporation.

4) All materials will be available for the delivery during hours to be arranged mutually by contractor between himself and the store keeper or the corporation's Engineer from time to time.

5) The contractor must give an account of all materials used by him. The materials that cannot be accounted for will be recovered from him as per rates decided by competent authority.

6) The quantities noted in Schedule 'A' are only approximate and may vary accordingly to actual and bonafide use.

7) The contractor shall furnish account of material issued and consumed by replacing further demands from the corporation and furnish full account of materials issued to him. On completion of the work he shall return all surplus materials to the corporation. In case of failure of returning recovery at the rate of twice the rate will be effected from the contractor.

8) Sales Tax and general Tax as per Government rates shall be recovered from the contractor over the cost of the surplus materials unreturned.

9) Issue rate of the material are inclusive of sales tax and general tax.

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

SCHEDULE 'B'

Memorandum showing items of work to be carried out

Item No.	Quantities estimated but maybe more or less	Item of work	Estimated rates		Unit	Total amount according to quantities
			In figures	In words		
		SEPARATELY ATTACHED				

Note 1 : All work shall be carried out as per Maharashtra Public Works Department Handbook and other specifications as directed.

Note 2 : All the columns in the schedule be filled in ink and the total of the entries in the last column should be struck by the contractor under his signature.

Note 3 : Rates quoted included clearance of site (prior to commencement of work and at its close) in all respects and hold good for work under all conditions, site moisture weather etc.

Note 4 : To be continued on additional sheets if found necessary.

7.4.1 Additional special specifications

In addition to the detailed specifications, following general specifications are also applicable wherever required without giving additional payment.

1) The sand to be used on the work shall necessarily be free of silt (washed if required) and stored on platform before using in the work.

2) The platform for mixing of mortar shall be non-absorbing and shall be covered with a shed.

3) All metal aggregates shall be wetted before using in concrete.

4) Vertical pin headers should be provided for RCC walls thicker than '60' cm.

5) The basic drawing shows general arrangements and layout. For specifications and requirements of item tender paper may be referred to.

6) The pointing should not be spread on the large area of the stones, but should be cut to the specified thickness of the joints.

7) The measurements and quantities shown on the General Arrangement Plan and given in the estimate are approximate and are likely to vary during the execution for various reasons as below :

a) The dimensions (length & breadth) may vary as per requirement or as directed.

b) The average depth is calculated by taking few levels of the existing ground. However before execution levels shall be taken at closer intervals whereby the depth is least likely to vary.

c) The classification of the strata and the depths of foundations have been ascertained by taking trial pits. However the same are likely to vary.

d) To achieve suitable strata, the depths of concrete, masonry items and other items are likely to vary.

e) Due to change in design and drawing in the sanctioned Plans and estimates the

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN

quantities are likely to vary.

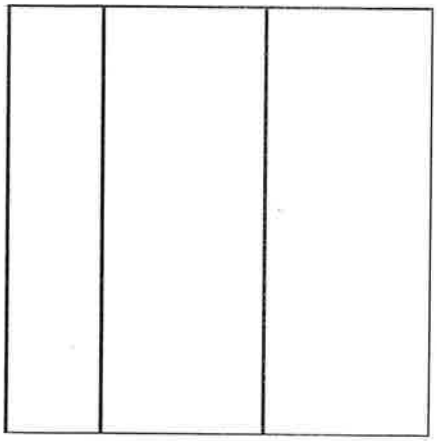
f) In view of the above facts or due to any other reason or reasons coming to notice during the execution, the quantity of the tender items are likely to increase, decrease for which no extra claims shall be entertained on any account.

g) The basic drawing shows general arrangements and layout for specifications and requirements of item tender paper may be referred to

7.4.2 **Statement showing the availability of Machinery for the work**

Sr. No.	Name of Machinery	Hire Rate	Remarks
	NIL		

SCHEDULE – B



I am / we are ready to execute the work ..... % (.....

.....percent) above / below the estimated rates entered in Schedule 'B'

(The offer quoted in percentage excludes item of Royalty charges)

Contractors Seal

B. D. SORATHIA & CO.
Parshit.
PARTNER / AUTH. SIGN.

8 Annexures

ANNEXURE-I
Affidavit
(On Rs. 500/-)

Name of Work :

I _____ age _____ Address _____ (Authorized signatory to sign the contract), hereby submit, vide this affidavit in truth, that I am the owner of the contracting firm _____ / authorized signatory and I am submitting the document in envelope no. 1 for the purpose of scrutiny of the contract. I hereby agree to the condition mentioned below:-

1. I am liable for action under Indian Penal Code for submission of any false / fraudulent paper / information submitted in envelope no. 1.
2. I am liable for action under Indian Penal Code if during contract period and defect liability period, any false information, false bill of purchases supporting proof of purchase, proof of testing submitted by my staff, submitting company or any by myself, I will be liable for action under Indian Penal Code.
3. I am liable for action under Indian Penal Code if any paper is found false / fraudulent during contract period and even after the completion of contract (Finalization of Final bill).

(Signature of Contractor)

(Seal of Company)

ANNEXURE-II

STATEMENT SHOWING QUANTITIES OF WORK EXECUTED IN ANY ONE YEAR DURING LAST SEVEN YEARS

(i.e. 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24, 2024-25)

Sr. No.	Name of Work	Year	Work Done Certificate No. & Date	Quantity of work Performed					Remarks (Indicate contract Reference)
1	2	3	4	5	6	7	8		9
		2018-19							
		2019-20							
		2020-21	Sample Form						
		2021-22							
		2022-23							
		2023-24							
		2024-25							

Note - The Contractor must upload supporting documents showing above executed quantities.

Signature of Contractor

Executive Engineer, Nashik Municipal Corporation

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT FACILITIES

BANK CERTIFICATE

This is to certify that M/s. _____ is a reputed company with a good financial standing.

If the contract for the work, namely _____ is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs _____ to meet their working capital requirements for executing the above contact during the contract period.

_____ (Signature)

Name of Bank

Senior Bank Manager

Address of the Bank

(Not required for works costing less than Rs. 5 Crores)

AFFIDAVIT

1) I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.

2) The undersigned also hereby certifies that neither our firm M/s---------- -- have abandoned any work on Building/Bridges/Roads etc. nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.

3) The undersigned hereby authorize (s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding my (our) competence and general reputation.

4) The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department, Project implementing agency.

(Signed by an Authorised Officer of the Firm)

---------- ***Title of Officer***

Name of Firm

DATE

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

Nashik Municipal Corporation

UNDERTAKING

Name of Work :.

1. I, the undersigned do hereby undertake that our firm M/s. _____ _____ agree to abide by our offer which is valid for one hundred and twenty (120) days from the date of submission of tender or till we withdraw the offer in writing after 120 days of submission of tender.

_____

(Signed by an Authorized Officer of the Firm)

_____

Title of Officer

_____

Name of Firm

_____

DATE

PERFORMANCE BANK GUARANTEE

To,

_____ [Name of Employer]

_____ [Address of Employer]

WHEREAS, _____ [Name and Address of Contractor] (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____, to execute the work of _____ [Name of Contract and brief description of Works] (hereinafter called "the Contract").

AND WHEREAS, we _____ [Name and Address of Bank] have agreed to furnish a Performance Bank Guarantee in favour of the Employer.

NOW THEREFORE, we hereby irrevocably affirm and undertake that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total sum of _____ [Amount of Guarantee in figures and words], such sum being payable in the currency(ies) in which the Contract Price is payable.

We further undertake to pay you, upon your first written demand and without demur, reservation, contest, recourse, or protest, and without reference to the Contractor, any sum or sums within the limits of _____ [Amount of Guarantee] as aforesaid, without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby expressly waive the necessity of your demanding the said debt from the Contractor before

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.

presenting us with the demand.

We further agree that no change, addition, or modification of the terms of the Contract, or of the Works to be performed thereunder, or of any of the Contract documents, which may be made between you and the Contractor, shall in any way release us from any liability under this Guarantee, and we hereby expressly waive notice of any such change, addition, or modification.

This Guarantee shall remain valid up to 28 (twenty-eight) days beyond the expiry of the Defect Liability Period stipulated under the Contract.

IN WITNESS WHEREOF, this Guarantee has been executed on this ____ day of _____, 20.

Signature and Seal of the Guarantor: _____

Name of Bank: _____

Address: _____

Date: _____

Note: The Guarantee amount shall represent the percentage of the Contract Price specified in the Contract (including any additional security for unbalanced bids, if applicable), and shall be denominated in Indian Rupees

DECLARATION

I/We hereby declare that I/We have thoroughly acquainted myself/ourselves with the local conditions relating to availability of materials, labour, and all other factors on which I/We have based the rates quoted in this tender. I/We have carefully studied and understood the specifications, drawings, and lead statements pertaining to this work before submitting the tender.

I/We further undertake to use only the best quality materials, duly approved by the Engineer-in-Charge or his authorised representative, during the execution of the work, and to abide by their decisions and directions in all respects.

I/We also agree and confirm that no claim whatsoever shall be made by me/us at any later stage on account of lack of knowledge of site conditions, specifications, or any other circumstances affecting the execution of the work.

Place: _____

Date: _____

Signature of the Tenderer/Authorized Signatory

(With Seal/Stamp)

Name: _____

Designation: _____

Address: _____

B. D. SORATHIA & CO.

PARTNER / AUTH. SIGN.

9 Proforma of submission of tender & proforma for agreeing to G.C.C.

PROFORMA OF SUBMISSION OF TENDER

Ref No. Dated :

The Commissioner,

Nashik Municipal Corporation,
Rajiv Gandhi Bhavan, Sharanpur Road,

Nashik

Sub : (Name of work.)

Dear Sir,

1. Having obtained tender documents for the work under reference and having examined specifications and conditions of contract, we hereby offer to perform, provide, execute, complete the work in conformity with the Tender notice, instructions to the tenderer, General Conditions of Contract, Special Conditions of contract, Technical Specifications, drawings, CSD and the price-bid/ amount as quoted in the tender documents, within the stipulated time.
2. We have satisfied ourselves as to the location of the site and working conditions examined the requirements of NMC and have obtained all the information necessary for the successful timely completion of the work.
3. We also agree to submit a detailed work programme to complete the work in stipulated period
4. We have deposited earnest money deposit with you, which shall not to bear any interest. We hereby agree that this amount shall stand forfeited in the event of our tender being acceptance and our failure t to execute the contract when called upon to do so within stipulated time. During the validity period of offer, if we withdraw or modify our offer, then Corporation (NMC) would be at liberty to forfeit Earnest Money deposited by us. We also hereby agree to treat the sum as a part of security deposit on our signing the contract.

5. We understand you are not bound to accept the lowest tender or are you required to assign any reasons for rejection of our tender. We understand that our offer is valid for one hundred and twenty (120) days from the date of submission of tender or till we withdraw the offer in writing after 120 days of submission of tender.

Thanking you,

Yours faithfully

Date :

Signature of Tenderer With seal and address

B. D. SORATHIA & CO.
PARTNER / AUTH. SIGN.