[illegible]



NASHIK MUNICIPAL CORPORATION-::NASHIK
Estimate Summary Budget Codewise

STATUS	A	B	C	D	E	F
DATE						29.01.2026

4097

S420409707 SINHASTHA KUMBHMELA - 2027

Estimate No. 1820016280	Work Name: Proposed Developmg of AMrut Miravnuk marg at NMC, Nashik
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	3,527,000.00
3.	Amount of Workorders Issued	29,579,000.00
4.	Amount of Tenders Sanction	10,523,039,645.37
5.	Amount of Administrative Approvals Given	4,260,054,206.00
6.	Amount of Administrative Approvals Pending	653,541,451.00
7.	Totals of Expenditures and Liabilities (2+3+4+5+6)	15,469,741,302.37
8.	Budget Provision Available (1-7)	17,306,058,697.63
9.	Proposed Current Estimate	249,995,421.00

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.

दिनांक: -

कामाचे नाव: - अमृत मिरवणूक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे

सविनय सादर,

प्रस्तावना: -

नाशिक हे भारतातील महत्वाचे व पौराणिक शहर असून नाशिक येथे दर 12 वर्षांनी सिंहस्थ कुंभमेळा आयोजित होत असतो. आगामी सिंहस्थ कुंभमेळा सन 2027 मध्ये होणार असून सिंहस्थ कुंभमेळ्यासाठी जगभरातून असंख्य भाविक व साधुसंत नाशिक, त्र्यंबकेश्वर येथे येत असतात.

सदरचा रस्ता हा सिंहस्थ पर्वणीकरीता पारंपारीक शाही मार्ग आहे. साधुग्राम येथे अनेक आखाड्यांची सोय करणेत येते व साधुग्राम मधुन पर्वणीच्या दिवशी रामकुंडामध्ये पवित्र स्नान करणेसाठी सर्व आराखडयातील साधु-संत या पारंपारीक शाही मार्गाचा वापर करतात. सदर मार्गावरून विविध आखाड्यांची मिरवणुकद्वारे शाही स्नान करीता साधु-संत मार्गक्रमण करतात. तपोवन साधुग्राम-जनार्दन स्वामी मठ-संभाजीनगररोड ते रा.म.क्र.३ - नविन आडगाव नाका-काटयामारुती चौक—गणेशवाडी रोड-गाडगेमहाराज पुल-रामकुंड या रस्त्यांची रुंदी आराखडयात ९मी/१२मी/१८मी/३०मी अशी आहे. तसेच रामकुंड येथे शाही स्नान झालेनंतर मिरवणुकीचा परतीचा मार्ग आहे. सदरचा रस्ता हा रामकुंड ते पंचवटी कारंजा ते निमाणी ते जुना आडगाव नाका ते संभाजीनगर रोड ते जनार्दनस्वामी मठ ते तपोवन पर्यंत आहे. सदरच्या रस्त्याची रुंदी विकास योजना नकाशानुसार १२, १८ व ३० मी. इतकी आहे. त्यामुळे सदरचा रस्ता दुरुस्ती करून सुस्थितीत ठेवणे आवश्यक आहे. त्यामुळे सदर रस्ता सिंहस्थ कुंभमेळ्याच्या दृष्टीने महत्वाचा आहे. सदर रस्ता हा सुस्थितीत राहणेसाठी आवश्यकते प्रमाणे अस्तरीकरण / काँक्रीटीकरण केल्यामुळे चांगली सोय उपलब्ध होणार आहे.

शाही मार्गाचे पादचारी मार्गावर दुतर्फा भाविक मोठया संख्येने उभे राहून मिरवणुक व साधु-संतांचे दर्शन घेतात. त्यामुळे सदर रस्त्याचे रुंदीकरण व अस्तरीकरण करणे अत्यंत आवश्यक आहे. बहुतांश साधु-संत हे पायी चालत असल्याने सदर रस्त्याचा पृष्ठभाग चांगला असणे आवश्यक आहे. त्यामुळे सदर रस्ता सिंहस्थ कुंभमेळ्याच्या दृष्टीने महत्वाचा आहे.

कपिला संगम ते लक्ष्मीनारायण मंदिर. -

➤ **रस्त्याची सद्यः स्थिती:-**

सदर रस्ता हा डांबरी असून सुमारे ४५० मी. लांबी व सुमारे १२ मी. रुंदीचा आहे. सद्यः स्थितीत काही ठिकाणी रस्ता खराब झालेला असून पृष्ठभाग निघाला आहे. बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळ्या केलेल्या आहेत. उर्वरित रस्ता हा सुस्थितीत असल्याने जागेवर पाहणी करून आवश्यकते प्रमाणे अस्तरीकरण करणे अत्यंत आवश्यक आहे. सदरचा रस्ता अंदाजे १५ वर्षांपूर्वी तयार करणेत आला होता.

➤ **प्रस्तावित कामाचा वाव-**

प्रस्तावित कामामध्ये डांबर करणे, पावसाचे पाणी निचरा करणेसाठी खोदाई, पाईप, चेंबर बांधणे, टँक कोट, पुर्ण क्षेत्रावर ४.५% DBM, ६.२५% BC, पेव्हिंग ब्लॉक, रोड फर्निचर, फुटपाथ करीता खोदाई, मुरुम, M-१५ PCC, पेव्हिंग ब्लॉक, कर्ब स्टोन, बीम, स्टील ई दुभाजक इ. अनुषंगिक बाबींचा समावेश आहे.

लक्ष्मीनारायण मंदिर ते रा.म.क्र.३.-

➤ **रस्त्याची सद्यः स्थिती:-**

सदर रस्ता हा कॉंक्रीट असून सुमारे १०५० मी. लांबी व सुमारे ७.५० मी. रुंदीचा आहे. सदर रस्त्यावर बऱ्याच ठिकाणी पृष्ठभाग खराब झालेला असून खडे पडण्यास सुरुवात झालेली आहे. बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळ्या केलेल्या आहेत. येत्या सिंहस्थ काळात सदर रस्ता जास्त खराब होण्याची शक्यता असल्यामुळे जागेवर पाहणी करून आवश्यकते प्रमाणे ८% क्षेत्रातील जुने कॉंक्रीट काढून नवीन कॉंक्रीट करणे आवश्यक आहे. फक्त पृष्ठभाग खराब झाल्यामुळे जुने कॉंक्रीट काढून नवीन कॉंक्रीट करणेचा प्रस्ताव आहे. खोदाई व खडीकरण करणेची आवश्यकता नाही.

➤ **प्रस्तावित कामाचा वाव-**

प्रस्तावित कामामध्ये कॉंक्रीट काढणे, नवीन M-40 कॉंक्रीट टाकणे, रोड फर्निचर, फुटपाथ करीता खोदाई, मुरुम, M-१५ PCC, पेव्हिंग ब्लॉक, कर्ब स्टोन, दुभाजक इ. अनुषंगिक बाबींचा समावेश आहे.

रा.म.क्र.३ ते पंचमुखी हनुमान मंदिर

➤ **रस्त्याची सद्यः स्थिती:-**

सदर रस्ता हा कॉंक्रीट असून सुमारे ३०० मी. लांबी व सुमारे ७.५० मी. रुंदीचा आहे. सदर रस्त्यावर रा.म.क्र.३ लगत मोठा खड्डा असून आईस फॅक्टरी समोर देखील मोठ्या प्रमाणात खडे पडलेले आहे. बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळ्या केलेल्या आहेत. त्यामुळे येत्या सिंहस्थ दरम्यान संपूर्ण रस्ता खडे पडून खराब होण्याची दाट शक्यता आहे. सदर शाही मिरवणुकीचा मार्ग असल्यामुळे जागेवर पाहणी करून आवश्यकते १०% क्षेत्रातील प्रमाणे जुने कॉंक्रीट काढून नवीन कॉंक्रीट रस्ता करणे अत्यंत आवश्यक आहे.

➤ **प्रस्तावित कामाचा वाव-**

प्रस्तावित कामामध्ये कॉंक्रीट काढणे, खोदाई, मुरुम, GSB, लीन कॉंक्रीट, M-40 कॉंक्रीट, इ. अनुषंगिक बाबींचा समावेश आहे.

काट्या मारुती चौक ते देवी मंदिर

➤ **रस्त्याची सद्यः स्थिती:-**

सदरचा रस्ता हा मंजूर विकास आराखड्यानुसार १८ मी. रुंद विकास योजना रस्ता आहे. सुमारे ३१० मी. लांबी व ११.०० मी. रुंदीचा जुना कॉंक्रीट रस्ता आहे. सदर ठिकाणी अनेक ठिकाणी पृष्ठभाग खराब झाला आहे. बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळ्या केलेल्या आहेत. सदरचा चौक हा परतीचा शाही मिरवणुकीचा मार्ग असल्यामुळे सिंहस्थ कुंभमेळा दरम्यान अजून तुटफुट होऊन रस्ता खराब होण्याची दाट शक्यता आहे. त्यामुळे जागेवर पाहणी करून आवश्यकते प्रमाणे ४०% क्षेत्रातील व ६ मीटर रुंदीचा जुने कॉंक्रीट काढून नवीन कॉंक्रीट करणे आवश्यक आहे. तसेच पेव्हिंग ब्लॉक चौकावर डांबरी पॅच मारणे आवश्यक आहे. सदर कॉंक्रीटीकरणामुळे भाविकांना/साधुसंतांना चांगली सोय होणार आहे.

➤ **प्रस्तावित कामाचा वाव-**

सदर रस्त्यातील ४०% क्षेत्रातील जुने कॉंक्रीट काढणे, नवीन एम-४० कॉंक्रीट करणे, टॅक कोट, ४.५% DBM, ६.२५% BC, रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश करणेत आलेला आहे.

देवी मंदिर ते टाळकुटेश्वर मंदिर

➤ **रस्त्याची सद्यः स्थिती:-**

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सदर रस्ता हा कॉंक्रीट असून सुमारे ६०० मी. लांबी व सुमारे ९ मी. रुंदीचा जुना रस्ता आहे. सदर रस्त्याचा अनेक ठिकाणी पृष्ठभाग खराब झालेला आहे. बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळ्या केलेल्या आहेत. त्यामुळे येत्या सिंहस्थ कुंभमेळा दरम्यान सदर खराब झालेला पृष्ठभागात मोठ्या प्रमाणात खडे पडण्याची दाट शक्यता आहे. सदर रस्ता हा शाही मिरवणुकीचा मार्ग असल्यामुळे जागेवर पाहणी करून आवश्यकते प्रमाणे केवळ खराब झालेल्या ४५% क्षेत्रावरील जुने कॉंक्रीट काढून नवीन कॉंक्रीट रस्ता करणे आवश्यक आहे. तसेच पेविंग ब्लॉक चौकावर डांबरी पॅच मारणे आवश्यक आहे. खोदाई व खडीकरण करणेची आवश्यकता नाही.

➤ **प्रस्तावित कामाचा वाव-**

प्रस्तावित कामामध्ये ४५% क्षेत्रावरील जुने कॉंक्रीट काढणे, M-40 कॉंक्रीट, टॅक कोट, ४.५% DBM, ६.२५% BC, रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश करणे आलेला आहे.

गणेशवाडी देवी मंदिर ते आयुर्वेदीक कॉलेज ते गाडगेमहाराज पुल

➤ **रस्त्याची सद्यः स्थिती:-**

सदर रस्ता हा कॉंक्रीट असून सुमारे ६०५ मी. लांबी व सुमारे ९ मी. रुंदीचा जुना रस्ता आहे. सदर रस्त्याचा पृष्ठभाग अनेक ठिकाणी खराब झालेला असून बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळ्या केलेल्या आहेत. तसेच येत्या सिंहस्थ कुंभमेळा दरम्यान सदर रस्ता अजून खराब होऊन खडे पडण्याची दाट शक्यता आहे. त्यामुळे जागेवर पाहणी करून आवश्यकते प्रमाणे एकुण क्षेत्राच्या १०% क्षेत्रावरील जुने कॉंक्रीट काढून नवीन कॉंक्रीट रस्ता करणे आवश्यक आहे. खोदाई व खडीकरण करणेची आवश्यकता नाही. सदर रस्त्याचे काम केल्यामुळे शाही मार्ग सुव्यवस्थीत राहणार आहे.

➤ **प्रस्तावित कामाचा वाव-**

प्रस्तावित कामामध्ये १०% क्षेत्रावरील जुने कॉंक्रीट काढणे, विन M-40 कॉंक्रीट, रोड फर्निचर, फुटपाथ करीता खोदाई, मुरुम, M-१५ PCC, पेव्हिंग ब्लॉक, कर्ब स्टोन, दुभाजक इ. अनुषंगिक बाबींचा समावेश आहे.

होळकर पूल ते मालेगाव स्टॅंड

➤ **रस्त्याची सद्यः स्थिती:-**

सदर रस्ता हा विकास आराखड्यानुसार १८ मी. विकासयोजना रस्ता आहे. सदरचा रस्ता हा डांबरी असून सुमारे १८० मी. लांबी व सुमारे १८ मी. रुंदीचा रस्ता आहे. सद्यः स्थितीत सदर रस्त्याचा पृष्ठभाग बऱ्याच ठिकाणी खराब झालेला असून. आगामी सिंहस्थ कुंभमेळा दरम्यान सदर रस्त्याला खडे पडून रस्ता खराब होण्याची दाट शक्यता आहे. बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळ्या केलेल्या आहेत. सदर रस्ता हा परतीचा शाही मार्ग आहे. त्यामुळे सदर रस्त्याचे अस्तरीकरण करणे अत्यंत आवश्यक आहे.

➤ **प्रस्तावित कामाचा वाव-**

प्रस्तावित कामामध्ये अस्तरीकरण करणे प्रस्तावित असून MPM, टॅक कोट, ४.५% DBM व ६.२५% BM इ. अनुषंगिक बाबींचा समावेश आहे.

(6)

मालेगाव स्टॅड चौक

➤ रस्त्याची सद्यः स्थिती:-

सदरचा चौक हा सद्यः स्थितीत काँक्रीट/पेव्हिंग ब्लॉक चा आहे. सुमारे ८५ मी. लांबी व १८ मी. रुंदीचा जुना चौक आहे. सदर ठिकाणी अनेक ठिकाणी पृष्ठभाग खराब झाला आहे. बऱ्याच ठिकाणी खडे पडले आहेत. काही ठिकाणी सेटलमेंट होऊन रस्ता खचला आहे. सदर चौक हा सिंहस्थ कुंभमेळासाठी अत्यंत महत्वाचा आहे. सदर चौक हा शाही मिरवणुक मार्गातील मोठा व महत्वाचा चौक आहे. त्यामुळे सदर चौक सुस्थितीत राखणे अत्यंत अनावश्यक आहे. त्यामुळे सदर चौक सुस्थितीत राखणे अत्यंत आवश्यक आहे. आगामी सिंहस्थ कुंभमेळा दरम्यान सदर महत्वाचा चौक असल्याने रस्त्याचे अस्तरीकरण करणे अत्यंत आवश्यक आहे.

प्रस्तावित कामाचा वाव-

प्रस्तावित कामामध्ये अस्तरीकरण करणे प्रस्तावित असून MPM, टॅक कोट, ४.५% DBM व ६.२५% BM, रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश करणेत आलेला आहे.

मालेगाव स्टॅड ते पंचवटी कारंजा ते पुरिया पार्क

➤ रस्त्याची सद्यः स्थिती:-

सदर रस्ता हा विकास आराखड्यानुसार १५ मी. विकासयोजना रस्ता आहे. सदरचा रस्ता हा काँक्रीट असून सुमारे ४७० मी. लांबी व सुमारे १५ मी. रुंदीचा रस्ता आहे. सद्यः स्थितीत सदरील रस्ता बऱ्यापैकी सुस्थितीत असून काही ठिकाणी रस्त्याचा पृष्ठभाग खराब झालेला आहे. आगामी सिंहस्थ कुंभमेळा दरम्यान काही ठिकाणी खडे पडून रस्ता खराब होण्याची दाट शक्यता आहे. बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळत्या केलेल्या आहेत. सदरील रस्त्याची जागेवर पाहणी करून आवश्यकते प्रमाणे केवळ खराब झालेल्या १०% क्षेत्रावरील खराब झालेले जुने काँक्रीट काढून तेथे नवीन काँक्रीट रस्ता करणेची आवश्यकता आहे. खोदाई व खडीकरण इ. करणेची आवश्यकता नाही. तसेच, चौकातील पेव्हिंग ब्लॉकची तुटफुट झालेली असून अनेक ठिकाणी सेटलमेंट झाली आहे.

➤ प्रस्तावित कामाचा वाव-

सदर रस्त्यामधील १०% क्षेत्रावरील जुने काँक्रीट काढणे, नविन M-40 काँक्रीट टाकणे, रोड फर्निचर तसेच, पूर्ण लांबी व दोन्ही बाजूने फुटपाथसाठी खोदाई, मुरुम, GSB, WBM, ग्रेड-१ व २, M-१५, काँक्रीट, पेव्हिंग ब्लॉक, RCC Beam, कर्बस्टोन, दुभाजक इ. अनुषंगिक बाबींचा समावेश करणेत आलेला आहे.

पुरिया पार्क ते निमाणी चौका पर्यंत

➤ रस्त्याची सद्यः स्थिती:-

सदरचा रस्ता हा मंजूर विकास आराखड्यानुसार १८ मी. रुंद विकाया योजना रस्ता आहे. सुमारे २८० मी. लांबी व सुमारे १८ मी. रुंदीचा आहे. जुना काँक्रीट रस्ता आहे. सदर रस्ता हा शाही मिरवणुक मधील परतीचा मार्ग आहे. त्यामुळे सदर रस्ता सुस्थितीत असणे अत्यंत आवश्यक आहे. सदर रस्त्याचा पृष्ठभाग बऱ्याच ठिकाणी खराब झाला असून खडे पडले आहे. आगामी सिंहस्थ कुंभमेळा दरम्यान सदर रस्ता जास्त खराब होण्याची दाट शक्यता आहे. त्यामुळे त्यामुळे सदर रस्त्याचे अस्तरीकरण करणे, फुटपाथ करणे आवश्यक आहे. भाविकांना नागरिकांना पायी चालणेसाठी फुटपाथ करणे आवश्यक आहे.

➤ प्रस्तावित कामाचा वाव-

➤ प्रस्तावित कामामध्ये अस्तरीकरण करणे प्रस्तावित असून MPM, टॅक कोट, ४.५% DBM व ६.२५% BM, फुटपाथ, व पावसाळी करीता खोदाई, मुरुम, GSB, WBM ग्रेड-१ व २, RCC पाईप, चेंबर, M-१५, PCC, पेव्हिंग ब्लॉक, कर्बस्टोन इ. अनुषंगिक बाबींचा समावेश करणेत आलेला आहे.

निमाणी चौक मे काट्या मारुती चौक ते रा.म.क्र.३

➤ रस्त्याची सद्यः स्थिती:-

सदरचा रस्ता हा मंजूर विकास आराखड्यानुसार १५ मी. रुंद विकाया योजना रस्ता आहे. सुमारे ६०० मी. लांबी व सुमारे १५.० मी. रुंदीचा आहे. जुना काँक्रीट रस्ता आहे. सदर रस्ता हा शाही मिरवणुक मधील परतीचा मार्ग आहे. त्यामुळे सदर रस्ता सुस्थितीत असणे अत्यंत आवश्यक आहे. सदर रस्त्याचा पृष्ठभाग बऱ्याच ठिकाणी खराब झाला असून खडे पडले आहे. आगामी सिंहस्थ कुंभमेळा दरम्यान सदर रस्ता जास्त खराब होण्याची दाट शक्यता आहे. त्यामुळे आवश्यकतेप्रमाणे जास्त खराब झालेला एकुण १०% क्षेत्रावरील जुने काँक्रीट काढून नविन काँक्रीट टाकणे, फुटपाथ करणे आवश्यक आहे. भाविकांना नागरिकांना पायी चालणेसाठी फुटपाथ करणे आवश्यक आहे.

➤ प्रस्तावित कामाचा वाव-

सदर रस्त्यातील जुने १०% क्षेत्रावरील जुने काँक्रीट काढणे खोदाई, मुरुम, GSB, लीन काँक्रीट, M-४०, फुटपाथ करीता खोदाई, मुरुम, GSB, WBM ग्रेड-१ व २, M-१५ PCC, पेव्हिंग ब्लॉक, कर्बस्टोन इ. अनुषंगिक बाबींचा समावेश करणेत आलेला आहे.

काट्या मारुती चौक

➤ रस्त्याची सद्यः स्थिती:-

सदरचा चौक हा सद्यः स्थितीत काँक्रीट/पेव्हिंग ब्लॉक चा आहे. सुमारे ८० मी. लांबी व ३० मी. रुंदीचा जुना चौक आहे. सदर ठिकाणी अनेक ठिकाणी पृष्ठभाग खराब झाला आहे. बऱ्याच ठिकाणी खडे पडले आहेत. काही ठिकाणी सेटलमेंट होऊन रस्ता खचला आहे. सदर चौक हा सिंहस्थ कुंभमेळासाठी अत्यंत महत्वाचा आहे. सदर चौक हा शाही मिरवणुक मार्गातील मोठा व महत्वाचा चौक आहे. त्यामुळे सदर चौक सुस्थितीत राखणे अत्यंत अनावश्यक आहे. त्यामुळे सदर चौक सुस्थितीत राखणे अत्यंत आवश्यक आहे. आगामी सिंहस्थ कुंभमेळा दरम्यान सदर महत्वाचा चौक असल्याने रस्त्याचे अस्तरीकरण करणे अत्यंत आवश्यक आहे.

प्रस्तावित कामाचा वाव-

प्रस्तावित कामामध्ये अस्तरीकरण करणे प्रस्तावित असून MPM, टॅक कोट, ४.५% DBM व ६.२५% BM, रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश करणेत आलेला आहे.

काट्या मारुती चौक ते रा म क्रं ३

➤ रस्त्याची सद्यः स्थिती:-

सदरचा रस्ता हा मंजूर विकास आराखड्यानुसार १८ मी. रुंद विकास योजना रस्ता आहे. सुमारे ३८० मी. लांबी व १८ मी. रुंदीचा जुना काँक्रीट रस्ता आहे. सदर ठिकाणी अनेक ठिकाणी पृष्ठभाग खराब झाला आहे. बऱ्याच ठिकाणी नागरिकांनी नळकनेक्शन, गटार, पाणी जोडणी करीता रस्त्यामध्ये ओघळ्या केलेल्या आहेत. सदरचा चौक हा परतीचा शाही गिरवणुकीचा मार्ग असल्यामुळे सिंहस्थ कुंभमेळा दरम्यान अजून तुटफुट होऊन रस्ता खराब होण्याची दाट शक्यता आहे. त्यामुळे जागेवर पाहणी करून आवश्यकते प्रमाणे १०% क्षेत्रातील जुने काँक्रीट काढून नवीन काँक्रीट करणे आवश्यक आहे. सदर काँक्रीटीकरणामुळे भाविकांना/साधुसंतांना चांगली सोय होणार आहे.

➤ **प्रस्तावित कामाचा वाव-**

सदर रस्त्यातील १०% क्षेत्रातील जुने काँक्रीट काढणे, नविन एम-४० काँक्रीट करणे, फुटपाथ करीता खोदाई, मुरुम, GSB, WBM ग्रेड-१ व २, M-१५ PCC, पेंडिंग ब्लॉक, कर्बस्टोन, रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश करणेत आलेला आहे.

रा.म.क्र.३ अप्रोच

➤ **रस्त्याची सद्यः स्थिती:-**

सदरचा चौक हा सद्यः स्थितीत काँक्रीट/पेंडिंग ब्लॉक चा आहे. सुमारे ५०० मी. लांबी व ३० मी. रुंदीचा जुना चौक आहे. सदर ठिकाणी अनेक ठिकाणी पृष्ठभाग खराब झाला आहे. बऱ्याच ठिकाणी खड्डे पडले आहेत. काही ठिकाणी सेटलमेंट होऊन रस्ता खचला आहे. सदर चौक हा सिंहस्थ कुंभमेळासाठी अत्यंत महत्वाचा आहे. सदर चौक हा शाही गिरवणुक मार्गातील मोठा व महत्वाचा चौक आहे. त्यामुळे सदर चौक सुस्थितीत राखणे अत्यंत अनावश्यक आहे. त्यामुळे सदर चौक सुस्थितीत राखणे अत्यंत आवश्यक आहे. आगामी सिंहस्थ कुंभमेळा दरम्यान सदर महत्वाचा चौक असल्याने रस्त्याचे अस्तरीकरण करणे अत्यंत आवश्यक आहे.

प्रस्तावित कामाचा वाव-

प्रस्तावित कामामध्ये अस्तरीकरण करणे प्रस्तावित असून MPM, टॅक कोट, ४.५% DBM व ६.२५% BM, फुटपाथ करीता खोदाई, मुरुम, GSB, WBM ग्रेड-१ व २, रोड फर्निचर इ. अनुषंगिक बाबींचा समावेश करणेत आलेला 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

सबब, उपरोक्त कामासाठीचे राज्य दरसुची २०२२-२३ नुसार सविस्तर प्राकलन तयार करणेत आले असून अ) **स्थापत्य विषयक** कामासाठी र.रु २१,७०,१८,४३०/- व ब) **विद्युत विषयक** कामासाठी र.रु ३,२९,७६,९९१/- असे **एकूण र.रु २४,९९,९५,४२१/-** (अक्षरी रुपये - चौवीस कोटी नव्यान्नव लक्ष पंचाण्णव हजार चारशे एकवीस) इतके झाले आहे. त्यानुसार उपरोक्त प्राकलनास तांत्रिक, प्रशासकीय व वित्तीय मंजूरी मिळणेस्तव प्रस्ताव स. सादर.

उप अभियंता (प्रकल्प)

उपअभियंता

(सा. बां. विभाग) पंचवटी

आपला नांव: अमृत शिवगुण मार्ल (थोपला व पलोला) मार्ल
विकसीत बाण

दि. १०/१०/२०२३

विषयाधीन कामाच्या पाठवनात Part (A)

Civil work हे PWD SSR year 2022-23 welf dt 28/7/2022

व MJP SSR year 2023-24 welf dt 20/6/2023

व विभागाचे सेवा जोडलेल्या दुरुपचारण गुप्तार

तपासते फुल्ल ब्योम शर्विवाहिसादी निर्गवास्तव सादर.


उप माकिवता (प्र.)

~~मा. शर्विकारी अकिवता -~~

प्रस्तुत प्रकरणी 'अ' मध्ये तमुद

केलंगुमार भावगेमाव मादर.



~~मा. शहर भावियता~~

~~मा. शर्विकारी अकिवता -~~
मा. शर्विकारी अकिवता - (प्र.)



विषय- नाशिक पंचवटी विभागातील अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे तसेच विद्युत विभागाकडून पथदिप सुधारणा करणे, सुशोभीकरण करणे, रस्त्यात अडथळा ठरणारे MSEDCL पोल शिफ्ट करणे.

दिनांक- / / २०२५

सिंहस्थ कुंभमेळा २०२७-२८ चे अनुषंगाने सार्वजनिक बांधकाम विभाग मनपा मार्फत नाशिक पंचवटी विभागातील अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग हा रस्ता विकसीत करण्यात येत आहे. सदर रस्त्यावर विद्युत विषयक कामाचे प्राकलन व तांत्रिक मान्यता मिळणेकामी मनपा सा.बां.विभागाकडून 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/मिनीपिलर स्थलांतरीत करणे, ओव्हरहेड लाईन भुमिगत करणे इ. विद्युत विषयक कामाचे प्राकलन महाराष्ट्र शासन सी.एस.आर. २०२३-२४ चे मंजूर दराप्रमाणे व ज्या बाबींचा समावेश महाराष्ट्र शासनमान्य सी.एस.आर. मध्ये नाही अशा बाबींचा बाजार भावाप्रमाणे प्राकलन तयार केले असता ते र.रु.३,२९,७६,९९१/- (GST सह) (अक्षरी र.रु. तीन कोटी एकोणतीस लाख शहात्तर हजार नऊशे एक्यान्नव फक्त) होत आहे.

- सदर कामाकरीता येणारा खर्चाचे नियोजन सार्वजनिक बांधकाम विभाग, मनपा, नाशिक यांचेमार्फत करणेत यावा.
- सदर कामात वापरण्यात येणारे साहित्याचे IIIrd Party Inspection करणे, विद्युत निरीक्षक तपासणी अहवाल प्राप्त करून 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 प्राकलनात बाबींच्या संख्येत बदल होण्याची शक्यता आहे. परंतु प्राकलन रकमे पावेतो एकुण खर्च करणे बंधनकारक राहील.

उपरोक्त अटी शर्तीस अधिन राहून प्राकलन र.रु.३,२९,७६,९९१/- (GST सह) यास तांत्रिक मान्यता देण्यात येत आहे. सदर कामाचे निवीदा मागवितांना खालील बाबींचा निविदेत समावेश होणे आवश्यक आहे.

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

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

सहा. अधिक्षक

सहा.क./क. अभियंता (वि.)

मा. उपअभियंता (वि.)

मा. कार्यकारी अभियंता (वि.)

(ए. एस. गायकवाड)

मा. अधिक्षक अभियंता (वि./यां.)

(ए. व्ही. धनाईत)

मा. शहर अभियंता —



विषय:- अमृत मिरवणूक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे (काँक्रीट)

(प्राकलन र.रु. २४,९९,९५,४२१/-)

(नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १५.११.२०२५ रोजीच्या प्र.मा. आदेशातील अ.क्र. ०३ चे काम)

सविनय सादर,

१. सद्यस्थितीत नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १५.११.२०२५ रोजीच्या आदेशानुसार प्रशासकीय मान्यता मिळाली असल्याने “सिंहस्थ 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. १५.११.२०२५ रोजीच्या प्रशासकीय मान्यता आदेशातील नमुद अ. क्र. ०३ नुसार सदर कामास र.रु. २५.०० कोटीच्या खर्चास प्रशासकीय मान्यता देणेत आलेली आहे त्यानुसार प्राप्त प्रशासकीय मान्यतेनुसार शासन निधीतून कामासाठी उपलब्ध तरतुदीच्या मर्यादेत सदर कामाचा खर्च करण्याची जबाबदारी कार्यकारी विभागाची राहिल.
३. कार्यकारी विभागाने नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १५.११.२०२५ रोजीच्या प्रशासकीय मान्यता आदेशातील अटी व शर्ती क्र. १ ते ३१ चे पालन करणे आवश्यक राहिल.
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 “सिंहस्थ कुंभमेळा कामे २०२७” संगणक कोड क्र. “४०९७” या लेखाशिर्षात कुंभमेळा प्राधिकरण यांचेकडील दि. १५.११.२०२५ रोजीच्या आदेशानुसार सदर कामास तरतुद उपलब्ध करून देणेत आलेली आहे.
६. सदर कामाची तांत्रिक मान्यता सार्व. बांधकाम विभागाने र.रु. २१,७०,१८,४३०/- व सार्व. आरोग्य अभि. विद्युत व्यवस्थापन विभागाने र.रु. ३,२९,७६,९९१/- 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 “सिंहस्थ कुंभमेळा कामे २०२७” संगणक कोड क्र. “४०९७” या लेखाशिर्षामधून हाती घेण्यात येणाऱ्या कामांचा समावेश करून त्यासाठी मनपा हिस्सापोटी येणाऱ्या खर्चासाठी तरतुद करणेची दक्षता कार्यकारी विभागाने घ्यावी.
९. नाशिक मनपा मार्फत सिंहस्थच्या दृष्टीने विविध प्रशासकीय विभागा अंतर्गत केंद्र व राज्य योजनांमध्ये जसे की अमृत २.० (मलनिःस्सारण व प्राणीपुरवठा), 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 विशिष्ट 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.

(12)

सबब सदर बाबतीत कार्यकारी विभागाने प्रमाणित करून प्रस्तावित केलेप्रमाणे येणारा खर्च २४,९९,९५,४२९/- (अक्षरी र.रु. चौवीस कोटी नव्याण्णव लक्ष पंचाण्णव हजार चारशे एकवीस 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.

उपलेखापाल (जयेश सु.अत्रे)-



प्र.उपमुख्यलेखाधिकारी (एस.एम.पाटील)-



मा.मु.ले.व वित्त अधिकारी सो. (दत्तात्रय झा.पाथरुट) -



मा.मुलेप

(13)

सविनयसादर,

प्रस्ताव.मा.CityEngineerयांच्याकडूनसादर

विषय:- PROPOSED DEVELOPING OF AMRUT MIRAVANUK MARG NMC NASHIK..निवीदा काढणे व प्रशासकिय मंजूरी बाबत आहे.

1)प्राकलन र. रू.25.00,CR./-इतकेआहे.यास जा.क्र.२०२५/१५३ दि.15/11/2025 अनुवे नाशिक त्रबेक्षेश्वर कुभामेला प्राधीकरण सामिलीची मानेता आहे,व आदेशात नमूदकेल्या प्रमाणे विभागाने कार्यवाही करणेआवश्यक आहे.

2)प्राकलन र. रू.24,99,95,421/-इतकेआहे.

3) विभागाने कामाची निकड पृष्ठ क्र.1 ते 10 वर नमुद केली आहे.

4)सदर कामाचे प्राकलनातील रक्कम व प्राकलनातील बाबीचे तांत्रिक विभागाने तपासणी करून प्रमाणित केलेआहे.

5)लेखा व वित्तविभागाचा पृष्ठ क्र,11,12. वरील अभिप्राया नुसार कार्यवाही होणे आवश्यक आहे.

6) शिल्लक तरतुद व दायीत्वा बाबत विभागानेअभिप्राय नमुद करणेआवश्यकआहे.

7) मंजुर तरतुदीच्याआत खर्च होईल याबाबत विभागा दक्षता घेण्यात यावी.

8) मा.आयुक्त सोयां चे कडील 111 दिनांक 06/06/2024 चे 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 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.

विभागाने प्रस्तावित केलेनुसार व शिफारशीनुसार प्रस्ताव प्रशासकिय मंजुरिच्या पुढील निर्णयास्तव सादर वलेप-कृष्णाआर. पडोळ

मा.उपमुले (प्र) किरण धारणकर

मा.मुख्य लेखापरिक्षक (बी. जे. गायकवाड)

मा City Engineer

49

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11

12

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14

eProcurement System Government of Maharashtra

Created By: Ravindra Bagul

Created Date/Time: 23-Jan-2026 10:53 AM

Tender Title: Development of Amrut Miravanuk Marg (Both directions), Nashik

Tender ID: 2026_NMC_1267470_1

Tender Inviting Authority: Executive Engineer

Name of Work: Development of Amrut Miravanuk Marg (Both directions), Nashik

Contract No: NMC/E-tender Cell/60/1/2025-26

SCHEDULE OF WORK / ITEM(S)					
Sl.No	Bidder Name	Estimated Rate	Quoted Percentage	Quoted Rate in Figures and Words (Iteration 0)	Amount
1.00	Bitcon India Infrastructure Developers Pvt Ltd (GSTN-27AADCB4094K1ZF) BID ID -7152065	208360587.00	-16.990	172960123.2	Seventeen Crore Twenty Nine Lakh Sixty Thousand One
2.00	F C RODRIGUES LLP (GSTN-27AAOFM3122H1ZB) BID ID -7160911	208360587.00	-18.690	169417993.2	Sixteen Crore Ninety Four Lakh Seventeen Thousand
				90	Nine Hundred and Ninety Three
Lowest Amount Quoted By: F C RODRIGUES LLP(169417993.290)					

Executive Engineer
E-Tender Cell
Nashik Municipal Corporation, Nashik

BOQ Summary Details

Tender Title: Development of Amrut Miravanuk Marg (Both directions), Nashik
Tender ID: 2026_NMC_1267470_1

Sheet Name	SI.No	Bidder Name	Amount	Bid Rank
BoQ1	1	F C RODRIGUES LLP (BID ID -7160911)	169417993.290	L1
	2	Bitcon India Infrastructure Developers Pvt Ltd (BID ID - 7152065)	172960123.269	L2



**NASHIK MUNICIPAL CORPORATION::NASHIK
TENDER PROCESS REPORT
AS ON 29.01.2026**

(12)

File/Work Name - Proposed Developmg of AMrut Miravnuk marg at NMC, Nashik

Nature of the Work-CAPITAL EXPENDITURE

Prabhag No. GNR

Estimate No.-1820016280 NMC Tender No.-1267470-1 ERP Tender No.-20260193344 Op Date-08.01.2026

Line Item No.- 10

STATUS	A	B	C	D	E	F
Date			23.01.2026	08.01.2026	15.11.2025	17.10.2025
Spill Amount						

Budget/Comp Code 4097

ERP BUDGET CODE S420409707

Account Head-

	Approving Body	Approval No.	Approval Date	Approval Amount
Technical Approval	Supretendent Eng[HOD]	29	17.10.2025	249,995,421.00
Admin Approval	HOD Order No	153	15.11.2025	250,000,000.00
Financial Approval				

Contractor No.	Contractor Name	Bidding Amount	1st Negotiation	2nd Negotiation	Final Tender Amount
1600029	F.C.RODRIQUES	169,417,993.00	169,417,993.00	0.00	204,043,160.16

Contractor Selected for Tender - F.C.RODRIQUES

PAN- AAOFM3122H

GST- 27AAOFM3122H1ZB



NASHIK MUNICIPAL CORPORATION::NASHIK
TENDER PROCESS REPORT
AS ON 29.01.2026

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Sno.	Particulars	Amount in Rs.
1	Budgetary Provision (2025-2026)	32775800,000.0
2	Current Estimate	249,995,421.00
3	Royalty Amount	4,129,928.37
4	GST Amount	37,504,906.26
5	Architecture Fee Amount	0.00
6	Net Estimate (2 - (3 + 4 + 5))	208,360,586.37
7	Tender %	18.6900 % BELOW
8	Tender Amount(Excl. Royalty + Final GST + Arch. Fee)	169,417,993.00
9	Royalty Amount	4,129,928.37
10	Final GST Amount	30,495,238.79
11	Architecture Fee Amount	0.00
12	Final Tender Amt (Incl. Royalty + Final GST + Arch. Fee)	204,043,160.16
13	Outstanding Tender Amount	10,523,039,645.00
14	Total Outstanding (12 + 13)	10,727,082,805.16
15	Current Year Payments	3,527,000.00
16	Balance Budget (1-(14+15))	22045190,194.84

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.

सविनय सादर,

विषय : अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (क्रॉक्रीट) (फेरनिविदा)

संदर्भ : १) मा.महासभा ठराव क्रमांक.३२१ दिनांक. ०४/०९/२०२५

२) ई- निविदा सु.क्र.६०/०१ (सन २०२५-२६)

३) नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांच्याकडील प्रशासकीय मान्यता आदेश दि.१५/११/२०२५.

नाशिक-त्र्यंबकेश्वर येथे सन-२०२७ होणारा सिंहस्थ कुंभमेळा पुर्व तयारी दृष्टीकोनातून वाहतुक व्यवस्था सुधारणे आदी दृष्टीकोनातून रस्त्याचा कामाची यादी तयार करून 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 त्याच्याकडील दि.२८/०७/२०२५ व दि.०९/०९/२०२५ चा पत्रान्वये प्रधान्यक्रम कळविला आहे. त्यास अनुसरून नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणा मार्फत दि.१५/११/२०२५ अन्वये प्रशासकीय मान्यता प्राप्त झालेली आहे. तसेच स्थापत्य विषयक कामास तांत्रिक मान्यता क्रमांक NMC/PWD/TS/२९/२०२५ दिनांक १७/१०/२०२५ अन्वये मा.शहर अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे. तसेच विद्युत विभाग यांचे कडील नं. TS/९८/२०२५ दिनांक १७/११/२०२५ अन्वये मा.अधिक्षक अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे.

सदर कामाचे सविस्तर प्राकलन अ) स्थापत्य विषयक र.र.२१,७०,१८,४३०/- ब) विद्युत विषयक र.र.३,२९,७६,९९१/- असे जीएसटी, टेस्टींग चार्जेस, रॉयल्टी चार्जेस सह एकुण र.रु.२४,९९,९५,४२१/- (अक्षरी - अकरा कोटी चौसष्ठ लक्ष चोवीस हजार नऊशे फक्त) इतके झालेले आहे.

त्यानुसार सदर कामाची ई-निविदा सुचना क्र.६०/०१ (२०२५-२६) निविदा नोटीस मा.राज्य शासनाचे संकेत स्थळ (Website) www.mahatenders.gov.in वर निविदा प्रसिध्द करून ऑनलाईन निविदा मागविल्या असता अंतिम मुदतीत एकुण तीन (०३) निविदाधारकांनी निविदा सादर केलेल्या आहेत. सदर प्राप्त निविदांच्या तांत्रिक कागदपत्रांची छाननी केली असता दोन (०२) निविदा तांत्रिकदृष्ट्या पात्र ठरल्या असून दि.२३/०१/२०२५ रोजी आर्थिक देकार उघडण्यात आले आहेत. त्यानुसार मक्तेदार मे.एफ.सी.रॉड्रीक्स,नाशिक यांची निविदा प्राकलन दरापेक्षा १८.६९० % कमी दराची तुलनात्मकदृष्ट्या सर्वात कमी दराची प्राप्त झालेली आहे. असा अहवाल मध्यवर्ती निविदा कक्षाकडून प्राप्त झाला असून तो सोबत जोडला आहे.

मक्तेदार मे.एफ.सी.रॉड्रीक्स,नाशिक यांना लेखी पत्र देऊन वाटाघाटी व दरपृथ्थकरण सादर करणेबाबत विचारणा केली असता, मक्तेदार यांनी लेखी पत्र देऊन सदरचे काम प्राकलन दरापेक्षा १८.६९० % कमी दर रास्त असून त्याच दराने प्रस्ताव मंजूर करणेची विनंती केली आहे. तसेच मक्तेदार यांनी अतिरिक्त सुरक्षा अनामत रक्कमेपोटी बँक ऑफ महाराष्ट्र या बँकेची B.G.No- 60436741378 दि.२८/०१/२०२६ र.रु.३,३४,५०,०००/- सादर केलेली आहे. सोबत न्युनतम मक्तेदार यांची तांत्रिक कागदपत्रे जोडले आहे.

(28)

विषयाधीन कामास संदर्भ क्र.३ अन्वये नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची प्रशासकीय मंजूरी प्राप्त झाली असून, प्रशासकीय मान्यता रक्कम रु.२५.०० कोटी आहे. शासन निधीतून कामासाठी उपलब्ध तरतुदी मधुन सदरचा खर्च करण्यात येईल.

सदर प्रशासकीय मान्यतेनुसार न्यूनतम निविदाधारक मक्तेदार मे.एफ.सी.रॉड्रीक्स,नाशिक यांचेकडून प्राकलन दरापेक्षा १८.६९० % कमी दराने र.रु.१६,९४,१७,९९३/- अधिक (र.रु.३,०४,९५,२३९/- जी.एस.टी. + र.रु.४१,२९,९२८/- रॉयल्टी व टेस्टिंग चार्जेस सह) अशी एकुण र.रु.२०,४०,४३,१६०/- (अक्षरी र.रु.वीस कोटी चाळीस लाख त्रेचाळीस हजार एकशे साठ मात्र) पावेतोच्या खर्चास मंजूरी मिळणेस व करारनामा करणेस स्थायी समितीच्या मंजूरीसाठी सोबत डॉकेट तयार करुन जोडले असून मान्य असल्यास त्यावर स्वाक्षरी होणेस विनंती.



(प्रशांत पगार)

कार्यकारी अभियंता (बांध)

(संजय अग्रवाल)

मा. शहर अभियंता

मुख्य लेखा व वित्त अधिकारी

(21)

सिंहस्थ शासन निधी

विषय:- अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (क्राकीट+डांबरीकरण)

(निविदा र.रु. २०,४०,४३,१६०/-)

(नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १५.११.२०२५ रोजीच्या प्र.मा. आदेशातील अ.क्र. ०३ चे काम)

सविनय सादर,

१. सद्यस्थितीत नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १५.११.२०२५ रोजीच्या आदेशानुसार प्रशासकीय मान्यता मिळाली असल्याने “सिंहस्थ 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. १५.११.२०२५ रोजीच्या प्रशासकीय मान्यता आदेशातील नमुद अ. क्र. ०३ नुसार सदर कामास र.रु. २५.०० कोटीच्या खर्चास व मा. महासभा ठराव क्र. ३२१ दि. ०४.०९.२०२५ नुसार र.रु. २५.०० कोटी इतक्या रकमेस प्रशासकीय मान्यता देणेत आलेली आहे त्यानुसार प्राप्त प्रशासकीय मान्यतेनुसार शासन निधीतून कामासाठी उपलब्ध तरतुदीच्या मर्यादेत सदर कामाचा खर्च करण्याची जबाबदारी कार्यकारी विभागाची राहिल.

३. कार्यकारी विभागाने नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील दि. १५.११.२०२५ रोजीच्या प्रशासकीय मान्यता आदेशातील अटी व शर्ती क्र. १ ते ३१ चे पालन करणे आवश्यक राहिल.

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. सदर कामाची तांत्रिक मान्यता सार्व. बांधकाम विभागाने र.रु. २१,७०,१८,४३०/- व सार्वजनिक आरोग्य अभियांत्रिकी विद्युत व्यवस्थापन विभागाने र.रु. ३,२९,७६,९९१/- रकमेची सक्षम प्राधिकरणाने प्रमाणित करून दिलेली आहे.

६. विषयांकित कामाचे प्राकलन र.रु. २४,९९,९५,४२१/- निविदा मागविली असता अंतिम मुदतीत ०३ निविदाधारकांनी निविदा सादर केलेल्या आहेत सदर प्राप्त निविदांच्या तांत्रिक कागदपत्रांची छाननी केली असता ०२ निविदा तांत्रिकदृष्ट्या पात्र ठरल्या असून त्यातील L-१ मे. F C Rodriques, Nashik. यांची निविदा प्राकलन दरापेक्षा १८.६९०% कमी दराची निविदा प्राप्त झाली असून सदर निविदा दराबाबत झालेल्या चर्चेनुसार विषयांकित काम निविदा दरापेक्षा १८.६९०% कमी दरानेच मंजूर करण्याची मक्तेदाराने विनंती केल्याचे विभागाने नमुद केले आहे.

७. प्रस्तावित प्रकरणी प्राकलन रक्कमेपेक्षा निविदा रक्कम १८.६९०% कमी असल्याकारणाने बँक ऑफ महाराष्ट्र या बँकेची अतिरिक्त सुरक्षा अनामत B.G. NO. ६०४३६७४१३७८ दि. २८.०१.२०२६ अन्वये र.रु. ३,३४,५०,०००/- समवेत सादर केलेली आहे.

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

९. 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 “सिंहस्थ कुंभमेळा कामे २०२७” संगणक कोड क्र. “४०९७” या लेखाशिर्षामधून हाती घेण्यात येणाऱ्या कामांचा समावेश करून त्यासाठी मनपा हिस्सापोटी येणाऱ्या खर्चासाठी तरतूद करणेची दक्षता कार्यकारी विभागाने घ्यावी.

(22)

विषय:- अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (क्राकीट+डांबरीकरण)

(निविदा र.रु. २०,४०,४३,९६०/-)

११. नाशिक मनपा मार्फत सिंहस्थच्या दृष्टीने विविध प्रशासकीय विभागा अंतर्गत केंद्र व राज्य योजनांमध्ये जसे की अमृत २.० (मलनिःस्सारण 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 विशिष्ट 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.

उपरोक्त प्रमाणे विभागाने प्रस्तावित व प्रमाणित केल्यानुसार मक्तेदार मे. F C Rodrigues, Nashik. यांची निविदा प्राकलन दरापेक्षा १८.६९०% कमी दराने र.रु. २०,४०,४३,९६०/- (अक्षरी र.रु. वीस कोटी चाळीस लक्ष तेचाळीस हजार एकशे साठ मात्र) इतक्या रक्कमेपर्यंत काम करून 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.

उपलेखापाल (वैभव अं. मोटकरी)-



प्र.उपमुख्यलेखाधिकारी (साहेबराव मा. पाटील)-



मा.मु.ले.व वित्त अधिकारी सो. (दत्तात्रय झा. पाथरुट) -

मा.मुलेप

प्रस्ताव CITY ENGINEER यांच्याकडून सादर

Name.of.work- PROPOSED DEELOPMENT OF AMRUT MIRAVANUK MARG NMC NASHIK.

खा विभागाने पान क्र.21,22 वर अभिप्राय नमुद केला आहे. त्यानुसार विभागाने कार्यवाही करावी.

- निविदा मागविले असता मुदतीत 2 निविदे पैकी न्युनतम दर निविदा धारक F C RODRIQUES..चीनिविदा प्राकलन रक्कमे पेक्षा 18.690%Below.वाटाघाटीअंती 18.690%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.19,20 वर प्रमाणीत करून त्या प्रमाणे अभिप्राय नोदविलेला आहे.
 - प्राकलनात 18% GST धरण्यात आलेला आहे. सदर मक्तेदारस नियमानुसार GST अदा करणेत येईल. केंद्र शासनाने व राज्य शासनाने GST माफ केल्यास GST देय होणार नाही. याची विभागाने दक्षता घेण्यात यावी.
 - मा.मुलेप सो. यांचे परिपत्रक क्र. ५९९ दिनांक 0१/0७/२0२५ रोजीच्या आदेशात नमुद केल्याबाबीं (Stamp Duty) सुधारित दराने वसुली बाबत विभागाने दक्षता घेण्यात यावी.
 - THE MAHARASHTRA 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,20,40,43,160/-इतक्या रक्कमेस प्रस्ताव रक्कमेस मा. स्थायी समितीच्या मान्यतेच्या पुढील निर्णयास्तव सादर.
- वलेप - कृष्णा रामु पडोळ

मा.उपमुलेप (प्र.)- किरण धारणकर

मा. मुलेप - बी.जे. गायकवाड

मा. CITY ENG

सादर

सौजन्य अनुमति भक्तेश्वरचा प्रभाव सादर केला आहे.

सौजन्य अनुमतिचा स्वीकार मंजुरी मिळालेली नसल्याने
कारणाना कारणाने मा. स्थायी समितीचे मंजुरीवर
आदेश सादर केला आहे. माध्यम साधने वाचकांस विनंती

म. व.
(कार्य आभार)

मा. शहर आभारता.

म. व.

मा. व. मा. व. मा. व.

प्रकाश मात्र करणेस हरकत नाही

म. व.

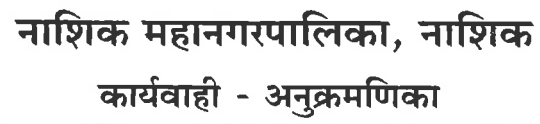
मा. व. मा. व.

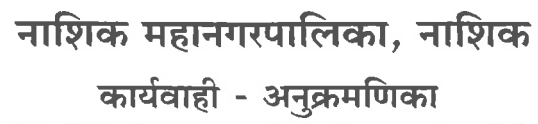




वि-भा-ज-क

नाशिक महानगरपालिका

[illegible]

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NASHIK MUNICIPAL
CORPORATION



ABSTRACT
SHEET



CIVIL TECH INDIA PVT LTD

Nashik Municipal Corporation, Nashik.
Public Works Department

Facesheet

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
		Total Civil Cost		28708.85	217,018,430	7,559.29	Sq.m
		Electrical Work			32,976,991		
		Total cost of Project (Civil+ Electrical)		28708.85	249,995,421	8,707.96	Sq.m
		Total Civil Cost in Cr.			25.00		



Deputy Engineer PWD
Nashik Municipal Corporation, Nashik





Executive Engineer (Works)
Nashik Municipal Corporation, Nashik

Nashik Municipal Corporation
Panchavati Division
Public Works Department

Fund Head :-

**ESTIMATE Prepared by Jr/Asst/Sec.
Engineer :-**

Mr. S.F. Gholap/ P.A. Bapte / B.V.Jadhav

Deputy Engineer :-

Mr. S.A.Rakte / N.S. Rajput

Executive Engineer :-

Mr. P. D. Pagar

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Estimate Cost :-

217,018,431.00

**Note:- The Estimate is prepared on the basis of MJP DSR 2023-2024 & PWD
SSR-2022-2023**

Jr. Engineer

Nashik Municipal Corporation

Dy. Engineer

Nashik Municipal Corporation

Executive Engineer

Nashik Municipal Corporation

Technical Sanction

Jr. Engineer (Project)

Nashik Municipal Corporation

Dy. Engineer (Project)

Nashik Municipal Corporation

Technically

sanctioned for

/-

In Words

Rs. 21,70,18,430/-

**Twenty one Crore Seventy lakh eighteen thousand
four hundred thirty only.**

Vide No.NMC/PWD/ TS / 25/2025

Dt:- 17 / 10 /2025

APPROVED

CITY ENGINEER
NASHIK MUNICIPAL CORPORATION

Nashik Municipal Corporation, Nashik.
Public Works Department

Facesheet

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

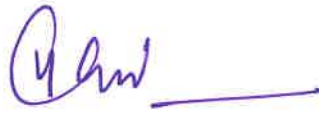
Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
1	A	Dismantling			4,542,978	/	
2	B	Strom Water / Service line / Utility Du	-		24,261,173	/	
3	C	Road Work (Construction of Bituminious or Concrete Road Items)			135,399,241	/	
4	D	Miscellaneous Items for Repairing Work	-		6,361,642	/	
5	E	Road Furniture	-		8,167,422	/	
6	F	Providing Public Utilities			40,875	/	
7	G	Water Supply			1,640,654	/	
		Civil Work Total Cost		28708.85	180,413,985	✓ 6,284.26	Sq.m
		GST 18%	18%		32,474,517		
		Total Cost with GST		28708.85	212,888,502	7,415.43	Sq.m
		Royalty			3,171,718	/	
		Quality Control Testing Charges			958,210	/	
		Total Civil Cost		28708.85	217,018,430	7,559.29	Sq.m
		Total Civil Cost in Cr.			21.70		

DPR Consultant

Authorized signatory
CivilTech India Pvt, Ltd.


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


Deputy Engineer
PWD Panchavati, NMC Nashik.


Executive Engineer
PWD Panchavati, NMC Nashik.

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

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.	5.44	6830.30	Km	37156.83
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.	2194.00	451.50	Cum	990591.00
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.	1994.82	1454.30	Cum	2901072.72
	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	20.00	389.60	No	7792.00
5	46.09	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc.	20.00	351.80	Cum	7036.00
6	46.11	Dismantling stone masonry in lime or cement mortar including stacking the materials as directed with all leads, lifts etc.	20.00	399.00	Cum	7980.00
7	46.12	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc. complete	20.00	585.90	Cum	11718.00
8	46.13	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc. complete	20.00	976.50	Cum	19530.00
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	20.00	47.30	Sqm	946.00
10	46.25	Removing wire fencing with iron/ C.C. fencing post and stacking the materials as directed with all leads, lifts etc. complete.	20.00	70.30	Rmt	1406.00
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	12072.50	46.20	Sqm	557749.50
	A Dismantling			Total Rs		4542978.06
B	Strom Water / Service line / Utility Duct					
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	3925.00	2.00	Rmt	7850.00
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	3007.04	181.50	Cum	545778.21
	b)	Lift upto 1.50 to 3.0 m depth	5.22	198.00	Cum	1033.56

No	SSR No.	Description	Qty	Rate	Per	Amount
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 dewatering, 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	6002.61	232.10	Cum	1393205.78
		Lift upto 1.50 to 3.0 m depth	3.57	248.60	Cum	887.50
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	3007.04	691.90	Cum	2080572.71
	b	Lift upto 1.50 to 3.0 m depth	3.57	722.70	Cum	2580.04
	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	3007.04	1230.90	Cum	3701368.61
	b	Lift upto 1.50 to 3.0 m depth	2.55	1261.70	Cum	3217.34
	c	Lift up to 3.0 to 4.5 m depth	1.38	1292.50	Cum	1783.65
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-F-16)	338.53	96.60	Cum	32702.12
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 Engineer-in-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, I,d,e,f,2)Page No. 94,95,96				
	b	R.C.C.NP-III Class (MJP, SSR 2023-24,Sec-I-(VI)-1-e.)				0.00
		i) for 150 mm dia	20.00	509.80	Rmt	10196.00
		ii)for 200 mm dia	10.00	581.10	Rmt	5811.00
		iii) for 250 mm dia	10.00	788.60	Rmt	7886.00
		iv)for 300 mm dia	9322.00	1078.00	Rmt	10049116.00
		vii) for 450 mm dia	691.50	2005.60	Rmt	1386872.40
		ix) for 600 mm dia	10.00	2886.20	Rmt	28862.00
	c	R.C.C.NP-IV Class (MJP, SSR 2023-24,Sec-I-(VI)-1-e.)				
		xii) for 900 mm dia	5.00	5323.00	Rmt	26615.00
		xiii) for 1000 mm dia	5.00	5875.30	Rmt	29376.50
		xiv)for 1200 mm dia	5.00	11138.30	Rmt	55691.50

No	SSR No.	Description	Qty	Rate	Per	Amount
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.)	25.00	17055.30	No	426382.50
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.)	7.00	30138.60	No	210970.20
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.)	4.00	82847.30	No	331389.20
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 reinforcement 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 reinforcement 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.)	2.00	273164.60	No	546329.20

No	SSR No.	Description	Qty	Rate	Per	Amount
23	MJP-21 S I	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 1:6 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 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.)	10.00	10326.40	No	103264.00
24	MJP-21 T I	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.)	24.00	16803.50	No	403284.00
25	MJP-22 a I	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.)	20.00	12238.90	Rmt	244778.00
26	MJP-22 b I	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.)	5.25	7549.90	Rmt	39636.98
27	MJP-22 c I	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.)	3.00	16411.90	Rmt	49235.70
28	MJP-22 f I	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.)	2.50	35216.60	Rmt	88041.50
29	MJP-22 s I	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.)	5.00	5208.70	Rmt	26043.50

No	SSR No.	Description	Qty	Rate	Per	Amount
30	MJP-22 t I	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.)	12.00	13415.60	Rmt	160987.20
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)	11280.02	96.60	Cum	1089649.99
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)				0.00
		(MJP, SSR 2023-24, Sec-I(XX)-17,)				0.00
		i) 540 Dia.	25.00	3665.60	No	91640.00
		ii) 560 Dia.	25.00	4797.50	No	119937.50
		iii) 90x45 cm	10.00	3665.60	No	36656.00
		iv) 90x60 cm	15.00	3973.20	No	59598.00
		v) 60 x 60 cm	5.00	3628.80	No	18144.00
		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 material upto a distance of 50.0M for all lifts as directed by Engineer-in-charge.etc. complete	79.48	234.20	Cum	18614.51
34	MJP-35	Cleaning the R.C.C. choked up pipes of diameter from 200 mm to 450 mm including removing material upto adistance of 50.0M for all lifts as directed by Engineer-in-charge.	350.00	54.50	Rmt	19075.00
35	MJP-36	Cleaning the R.C.C. choked up pipes by using bucket machine and rodding machine including removing material 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 machinery 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)				0.00
	a)	For 200mm to 600mm dia RCC drain line	1500.00	158.70	Rmt	238050.00
	b)	For above 600mm to 1000mm dia RCC drain line	1200.00	238.10	Rmt	285720.00
	c)	For above 1000mm dia RCC drain line	840.00	317.40	Rmt	266616.00
	B	Strom Water / Service line		Total Rs		24261172.89
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.	3849.00	125.00	Cum	481125.00
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	2566.00	145.90	Cum	374379.40

No	SSR No.	Description	Qty	Rate	Per	Amount
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.	76.98	185.80	/ Cum	14302.88
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.	38.49	1490.00	/ Cum	57350.10
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.	10.00	125.00	/ Cum	1250.00
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 excavation to the site of deposition as directed.	10290.48	264.80	/ Cum	2724918.28
42	2.27	Providing Earth work in embankment with approved material obtained from Govt. land with 50 m lead, by using laying in layers, breaking clods, dressing to required lines curves grade, and section watering and compaction complete. (a) 95% proctor density. Spec.No. : M.O.S.T. 1995 Cl.No.305	10.00	236.30	/ Cum	2363.00
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)	1140.00	1263.20	/ Cum	1440048.00
44	2.29a	Supplying hard murum/ kankar at the road site, including conveying and stacking complete. Sp. No. Rd. 23 P.No. 202	2566.00	925.10	/ Cum	2373806.60
45	2.3	Spreading hard murum for side width etc. complete	2566.00	83.00	/ Cum	212978.00
46	2.31	Compacting the hard murum side widths including laying in layers on each side with power roller including artificial watering etc. complete.	12830.00	22.10	/ Sqm	283543.00
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	2566.00	2740.50	/ Cum	7032123.00
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)	1914.50	3059.60	/ Cum	5857604.20
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)	1245.75	3005.60	/ Cum	3744226.20

No	SSR No.	Description	Qty	Rate	Per	Amount
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.	50.00	2765.50	Cum	138275.00
51	14.58	Providing and laying in PCCM 15 grade leveling course below approach slab complete with fully automatic micro process or PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (panmixer) as per drawing sand Technical specifications etc.complete with fine aggregates of required specifications (VSI sand finely washed etc)	1894.50	6924.80	Cum	13119033.60
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.	1271.16	4492.00	Cum	5710031.77
53	25.50	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)	31.05	13505.60	Cum	419348.88
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.	1.50	94188.10	MT	141282.15
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.	8474.37	31.50	Sqm	266942.71
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.	2221.62	8974.80	Cum	19938632.20

No	SSR No.	Description	Qty	Rate	Per	Amount
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	6600.50	564.90	No	3728622.45
58	5.16	Providing and fixing in position TMT FE 500, tie bars precoated with anticorrosive epoxy paint of 12 mmdia. 70 cms. long and at 30.00 cm. C/C and wherever directed including handling, straightening wrapping with paper of approved quality for half length, necessary cutting, handling, straightening, supported by assembly of TMT FE500, chairs with proper alignment etc. complete.	1938.33	321.30	No	622786.50
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.	7564.00	79.80	Rmt	
60	5.18	Providing to contraction joints polysuphide sealent (Pouring grade) conforming 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 (approx. 25% larger than the initial 3 mOne Metric Tonnoe 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)	7564.00	326.60	Rmt	2470402.40
61	14.33	Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete.	15.00	1140.30	Sqm	17104.50
62	7.03	Providing and casting insitu or precast tapering R.C.C.M-20 Mountable type Kerb without gutter (as per 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 in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	10.00	516.60	Rmt	5166.00
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.)				0.00
	a	Size- Length 300 mm, Height 750mm, Top Width 125 mm, Bottom width 200 mm, Chamfer Height 300 mm	2616.00	1618.50	Rmt	4233996.00
	b	Size- Length 400 mm, Height 450mm, Width 125mm, Chamfer Height 450 mm	15156.00	788.00	Rmt	11942928.00
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	9472.50	978.60	Sqm	9269788.50
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	3157.50	1238.00	Sqm	3908985.00

No	SSR No.	Description	Qty	Rate	Per	Amount
66	3.35	Providing and laying 75mm thick compacted Modified Penetration 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.	50.00	362.60	Sqm	18130.00
67	3.36	Providing and laying 75mm thick compacted Modified Penetration 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.	15012.45	361.20	Sqm	5422496.94
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	44248.95	33.60	Sqm	1486764.72
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.	100.00	60.80	Sqm	6080.00
71	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)	50.00	8496.20	Cum	424810.00
72	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.	50.00	9095.60	Cum	454780.00
73	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.	1327.47	11105.50	Cum	14742201.43

No	SSR No.	Description	Qty	Rate	Per	Amount
74	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 for 30/40 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	884.98	13468.80	Cum	11919605.16
75	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 15 percent 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
76	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.	266.01	1470.00	kg	391029.35
C Road Work				Total Rs		135399240.91
D	Miscellaneous Items for Repairing Work					
77		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	15.00	279.30	Rmt	4189.50
	42.57	25 mm	15.00	393.80	Rmt	5907.00
	42.58	32 mm	15.00	452.60	Rmt	6789.00
	42.59	40 mm	15.00	566.00	Rmt	8490.00
	42.60	50mm	15.00	778.00	Rmt	11670.00
78	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.	10.00	1310.40	No	13104.00
79	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
80		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 as bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete.				0.00

No	SSR No.	Description	Qty	Rate	Per	Amount
	43.30	110mm	25.00	343.40	Rmt	8585.00
	43.31	160mm	25.00	533.40	Rmt	13335.00
81	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	20.00	7917.10	Cum	158342.00
82	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	20.00	13152.80	Cum	263056.00
83	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.	20.00	6140.90	Cum	122818.00
84	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)	80.50	8172.60	Cum	657894.30
85	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.	250.00	438.30	Sqm	109575.00
86	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.	500.00	722.00	Sqm	361000.00
87	35.21	Providing and applying priming coat on concrete/ masonry/ 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.	11870.25	37.80	Sqm	448695.45
88	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	2870.25	309.80	Sqm	889203.45
89	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.	2967.56	89.30	Sqm	265003.33
90	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	8902.69	92.40	Sqm	822608.33
91	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.	20.00	1251.90	Sqm	25038.00

No	SSR No.	Description	Qty	Rate	Per	Amount
92	40.05	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentric Deleted 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.	20.00	962.90	Rmt	19258.00
93	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.	20.00	2936.80	Rmt	58736.00
94	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 horizontal 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 rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering/formwork will not be allowed).	20.00	2623.90	Rmt	52478.00
95	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, cement 6.40 bags/cum)	20.00	8236.30	Cum	164726.00
96	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.	1.00	106936.20	MT	106936.20
97	21.38	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	26.22	2049.00	Cum	53724.78
98	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 as per 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 automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	20.00	8584.20	Cum	171684.00
99	33.68	Providing and laying telephone black / Amba White / Cadbury brown / 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	20.00	4616.10	Sqm	92322.00

No	SSR No.	Description	Qty	Rate	Per	Amount
100	46.39	Providing and erecting chain link fencing 1.6M. height with G.I. chain link of size 50 x 50mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40x40x6 mm size, including 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 16mm dia as hold fast including welding link with angle frame at 30cm/c with nuts 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.	20.68	2728.00	Rmt	56412.04
101	44.10	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.	20.00	3349.50	Sqm	66990.00
102	40.01	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/ One Square Metre as per drawing including fixtures, necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.	20.00	2201.80	Sqm	44036.00
103	21.02	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	121.13	217.40	cum	26332.58
104	24.04	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/granite/quartzite/gneiss metal for foundation and bedding / steps including steel centering, 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 honey combed 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)	17.10	7327.00	Cum	125291.70
105	25.11	Providing and laying in situ /Ready Mix cement concrete M 20 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, Steel centering formwork, laying/pumping cover blocks, 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 fine aggregate (Crushed sand VSI Grade)	51.30	8082.30	Cum	414621.99
106	11.29	Providing cast in situ / ready mix M20 grade cement concrete for head walls of CD work / retaining walls etc. including necessary form work, compaction, finishing and curing etc. complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with Natural / VSI standard Artificial Sand, cement 7.00 bags/cumt)	57.00	10857.50	Cum	618877.50
D		Miscellaneous Items for Repairing Work		Total Rs		6361642.14
E		Road Furniture				
107	6.12	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.	4153.60	699.30	Sqm	2904612.48

No	SSR No.	Description	Qty	Rate	Per	Amount
108	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.	4562.00	384.30	No	1753176.60
109	6.17 (From Old SSR)	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.	250.00	4189.50	No	1047375.00
110	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.	726.00	480.90	No	349133.40

No	SSR No.	Description	Qty	Rate	Per	Amount
111	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 conforming to I.R.C. 79 and the drawings	20.00	863.10	No	17262.00
112	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	20.00	1056.30	No	21126.00
113	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 retroreflective specified back ground, border and back side retroreflective 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	5.00	5665.80	No	28329.00
	d	750 mm dia made out of 4mm aluminum composite material	5.00	7519.10	No	37595.50
114	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 retroreflective specified back ground, border and back side retroreflective 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	5.00	4524.40	No	22622.00
	d	750 mm made out of 4mm aluminum composite material	5.00	5205.90	No	26029.50
	f	900 mm made out of 4mm aluminum composite material	5.00	6647.60	No	33238.00

No	SSR No.	Description	Qty	Rate	Per	Amount
115	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 retoreflective 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	8.10	13891.50	Sqm	112521.15
116	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 retoreflective 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	12.96	16722.30	Sqm	216721.01

No	SSR No.	Description	Qty	Rate	Per	Amount
117	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 retoreflexive specified back ground, border and back side retoreflexive 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	12.96	10839.10	Sqm	140474.74
118	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 dip process, 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 section 150x75x5 mm, 330 mm long complete as per clause 810)""	27.00	5157.60	Rmt	139255.20
119	7.21	Providing and Constructing gabion structure 1Meter high or required section made up of soft mechanically woven hexagonal shaped G.I. wire conforming to IS 16014:2012 having zinc plus PVC coating of overall diameter of 3.7mm and tying lacing wire of 3.2 mm with edge wire conforming to overall diameter 4.4 mm edges being mechanically selvage 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)	250.00	5271.80	cum	1317950.00
	E	Road Furniture		Total Rs		8167421.57
	F	Providing Public Utilities				
120	51.44	Public Seating Chair. - 3 Seater Providing and Fixing 3 seater Public seating chair made of complete metal with Legs in Chrome finish and seats in silver powder coating finish.	1.00	18958.80	No	18958.80
121	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)	1.00	21916.65	No	21916.65
	F	Providing Public Utilities		Total Rs		40875.45
	G	Water Supply				1640653.77
		Total Rs	A+B+C+D+E+F+G			180,413,984.79
			Add GST	18%	Rs	32474517.26
		Total Rs With GST Road work				212888502.06

Executive Engineer
PWD Panchavati, NMC Nashik.

NASHIK MUNICIPAL
CORPORATION



MEASUREMENT
SHEET



Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Sr	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	5440.000	Rmt		5.440	Km
				Total Qty		5.440	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.						
	Area of Ex Asphalt	1	10970.00	sqm	0.200	2194.00	
				Total Qty		2194.00	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.						
	Ramshrushti chowk paving blocks	1	1890	sqm	0.08	151.20	
	Panel Replacement	1	6584.37	sqm	0.280	1843.62	
						1994.82	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						
						20.00	
				Total Qty		20.00	No
5	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc.						
						20.00	
				Total Qty		20.00	Cum
6	Dismantling stone masonry in lime or cement mortar including stacking the materials as directed with all leads, lifts etc.						
						20.00	
				Total Qty		20.00	Cum
7	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc, complete						
	PR item					20.00	
				Total Qty		20.00	Cum
8	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete						
						20.00	
				Total Qty		20.00	Cum
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						
						20.00	
	PR item			Total Qty		20.00	Sqm

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
10	Removing wire fencing with iron/ C.C. fencing post and stacking the materials as directed with all leads, lifts etc. complete.						20.00	
	PR item				Total Qty		20.00	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							
	Existing Holkar Bridge Area	1	1	3240.00	sqm		3240.00	
		50%	1	17665.00	sqm		8832.50	
					Total Qty		12072.50	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	2	1962.50			3925.00	
							3925.00	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 at 300 m c/c	1	7	1326.00	1.00	0.300	2784.60	
	for strom water line							
	for 450 mm dia	1	1	611.50	1.15	0.300	210.97	
	for 600 mm dia	1	1	10.00	1.30	0.300	3.90	
	for 900 mm dia	1	1	5.00	1.60	0.300	2.40	
	for 1000 mm dia	1	1	5.00	1.70	0.300	2.55	
	for 1200 mm dia	1	1	5.00	1.75	0.300	2.63	
	Total length			1962.50			3007.04	Cum
b	Lift upto 1.50 to 3.0 m depth							
	Provisional Quantity	1	1	12.00	1.45	0.300	5.22	
							5.22	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 dewatering, 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	7	1326.00	1	0.6	5569.20	
	for strom water line 450 mm dia							
	for 450 mm dia	1	1	611.5	1.15	0.6	421.94	
	for 600 mm dia	1	1	10	1.3	0.6	3.9	
	for 900 mm dia	1	1	5	1.6	0.6	2.4	
	for 1000 mm dia	1	1	5	1.7	0.6	2.55	
	for 1200 mm dia	1	1	5	1.75	0.6	2.625	
	Provisional Quantity			1962.50			6002.61	Cum
	Lift upto 1.50 to 3.0 m depth							
		1	0.5	12.00	1.70	0.350	3.57	
	Provisional Quantity						3.57	Cum

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
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	7	1326.00	1	0.3	2784.60	
	for strom water line 450 mm dia							
	for 450 mm dia	1	1	611.5	1.15	0.3	210.97	
	for 600 mm dia	1	1	10	1.3	0.3	3.9	
	for 900 mm dia	1	1	5	1.6	0.3	2.4	
	for 1000 mm dia	1	1	5	1.7	0.3	2.55	
	for 1200 mm dia	1	1	5	1.75	0.3	2.625	
		Total length		1962.50			3007.04	Cum
	Lift upto 1.50 to 3.0 m depth							
	Provisional Quantity	1	0.5	12.00	1.70	0.350	3.57	
							3.57	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	7	1326.00	1	0.3	2784.60	
	for strom water line 450 mm dia							
	for 450 mm dia	1	1	611.5	1.15	0.3	210.97	
	for 600 mm dia	1	1	10	1.3	0.3	3.9	
	for 900 mm dia	1	1	5	1.6	0.3	2.4	
	for 1000 mm dia	1	1	5	1.7	0.3	2.55	
	for 1200 mm dia	1	1	5	1.75	0.3	2.625	
		Total length		1962.50			3007.04	Cum
	Lift upto 1.50 to 3.0 m depth							
	for provisinal Qty	1	0.5	12.00	1.70	0.250	2.55	
							2.55	Cum
	Lift up to 3.0 to 4.5 m depth							
	for provisinal Qty	1	0.5	12.00	2.30	0.100	1.38	
							1.38	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)							
	Qty As Per Item No 13	1	1	1962.50	1.15	0.150	338.53	
							338.53	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							

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
	i) for 150 mm dia							
		1	2	10.00			20.00	
							20.00	Rmt
	ii)for 200 mm dia							
		1	1	10.00			10.00	
							10.00	Rmt
	iii) for 250 mm dia							
		1	1	10.00			10.00	
							10.00	Rmt
	iv)for 300 mm dia							
	service line	1	7	1326.00			9282.00	
	for drainage provisional Qty	1	1	20.00			20.00	
	catch pit	2	1	10.00			20.00	
							9322.00	Rmt
	vii) for 450 mm dia							
	storm line	1	1	611.50			611.50	
	for drainage provisional Qty	1	2	20.00			40.00	
	catch pit	2	2	10.00			40.00	
							691.50	Rmt
	ix) for 600 mm dia							
	crossing	1	1	10.00			10.00	
							10.00	Rmt
	xii) for 900 mm dia							
		1	1	5.00			5.00	
							5.00	Rmt
	xiii) for 1000 mm dia							
		1	1	5.00			5.00	
							5.00	Rmt
	xiv)for 1200 mm dia							
		1	1	5.00			5.00	
							5.00	Rmt
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	25				25.00	
							25.00	No

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
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	1	7				7.00	
							7.00	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.)							
	1500mm dia	1	4				4.00	
							4.00	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 reinforcement 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 reinforcement 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.)							
	1800mm dia						2.00	
							2.00	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.)							
	600x450 mm						10.00	
							10.00	No

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
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.)							
	Service line	2	7				14.00	
	catch pit	2	5				10.00	
							24.00	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.)							
	900mm dia	1	40.00	0.50			20.00	
							20.00	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.)							
	1200 mm dia	1	7.00	0.75			5.25	
							5.25	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	4.00	0.75			3.00	
							3.00	Rmt
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	10.00	0.25			2.50	
							2.50	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	10.00	0.50			5.00	
							5.00	Rmt

NASHIK MUNICIPAL CORPORATION
MESURMENT SHEET



Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
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.)							
	600x900 mm	1	24.00	0.50			12.00	
							12.00	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						15040.03	
	deduction foe pipe and chember volume		25%				-3760.01	
							11280.02	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	25				25.00	No
	ii) 560 Dia.	1	25				25.00	No
	iii) 90x45 cm	1	10				10.00	No
	iv) 90x60 cm	1	15				15.00	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							
		0.785	250	0.90	0.90	0.500	79.48	
							79.48	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	350.00			350.00	
							350.00	Rmt
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							
		5	6	50.00			1500.00	
							1500.00	Rmt
b)	For above 600mm to 1000mm dia RCC drain line							
		4	6	50.00			1200.00	
							1200.00	Rmt
c)	For above 1000mm dia RCC drain line							
		4	6	35.00			840.00	
							840.00	Rmt
C	Road Work (Construction of Bituminious or Concrete Road Items)							

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
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.							
						avg		
	WBM For Asphalt	1	1	0.00	sqm	0.300	0.00	
	WBM For PQC	1	1	0.00	sqm	0.300	0.00	
	WBM For Widening	1	1	0.00	sqm	0.300	0.00	
	For Paved Footpath	1	1	12630.00	sqm	0.300	3789.00	
	for Treated Footpath	1	1	200.00	sqm	0.300	60.00	
							3849.00	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							
	WBM For Asphalt	1	1	0	sqm	0.50	0.00	
	WBM For PQC	1	1	0	sqm	0.50	0.00	
	WBM For Widening	1	1	0	sqm	0.50	0.00	
	For Paved Footpath	1	1	12630	sqm	0.200	2526.00	
	for Treated Footpath	1	1	200	sqm	0.200	40.00	
						Total Qty	2566.00	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 35 @ 2%						76.98	
						Total Qty	76.98	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 35 @ 1%						38.49	
						Total Qty	38.49	Cum
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						10.00	
							10.00	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.31		1	3760.01	Cum		3760.01	
	Quatity from Item No.35		1	3849.00	Cum		3849.00	
	Quatity from Item No.36		1	2566.00	Cum		2566.00	
	Quatity from Item No.37		1	76.98	Cum		76.98	
	Quatity from Item No.38		1	38.49	Cum		38.49	
							10290.48	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							

[illegible]

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
				Grade (I)				
	For Paved Footpath	1	1	12630.00	Sqm	0.150	1894.50	
	for Treated Footpath	1	1	200.00	sqm	0.100	20.00	
							1914.50	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)				
	Ramshrushti chowk		2	1890.00	Sqm	0.075	283.50	
	For Paved Footpath	1	1	12630.00	Sqm	0.075	947.25	
	for Treated Footpath	1	1	200.00	sqm	0.075	15.00	
							1245.75	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 Provisinal Qty						50.00	
							50.00	Cum
51	Providing and laying in PCCM 15 grade leveling course below approach slab complete with fully automatic micro process or PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (panmixer) as per drawing sand Technical specifications etc.complete with fine aggregates of required specifications (VSI sand finely washed etc)							
	For Paved Footpath	1	1	12630.00	sqm	0.150	1894.50	
							1894.50	Cum
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.							
	Ramshrushti chowk		1	1890.00	sqm	0.150	283.50	
	For PQC		1	6584.37	sqm	0.150	987.66	
							1271.16	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	1	2	150.00	0.23	0.450	31.05	
							31.05	Cum

Sr	Item	No.	Length	Breadth	Depth	Quantity	Total
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					1500.00	Kg
						1.50	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	6584.37	sqm		6584.37	
	Ramshrushti chowk	1	1890.00	sqm		1890.00	
				Total Qty		8474.37	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.						
	For PQC	1	6584.37	sqm	0.280	1843.62	
	Ramshrushti chowk	1	1890.00	sqm	0.200	378.00	
				Total Qty		2221.62	Cum
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						
			Long. bar No.	Trans. Bar No.			
	Laxminarayan temple to NH3 (10% Panel Replacement)	10%	233	25.00		583	
	NH3 to panchmukhi hanuman temple	1	67	25.00		1675	
	Devi Temple to Talkuteshwar Temple (50% Panel Replacement)	50%	133	32.00		2128	
	Ganeshwadi devi temple to ayurvedic College Road Gadgemaharaj Bridge (10% Panel Replacement)	10%	134	30.00		402	
	M stand chauk	10%	19	60.00		114	
	M stand chauk to Panchavati Karanja to Puriya park	10%	105	50.00		525	
	Nimani to Katya maruti	10%	134	50.00		670	
	Katya maruti chauk to NH3	10%	84	60.00		504	
				Total Qty		6600.50	No

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
58	Providing and fixing in position TMT FE 500, tie bars precoated with anticorrosive epoxy paint of 12 mmdia. 70 cms. long and at 30.00 cm. C/C and wherever directed including handling, straightening wrapping with paper of approved quality for half length, necessary cutting, handling, straightening, supported by assembly of TMT FE500, chairs with proper alignment etc. complete.							
	Laxminarayan temple to NH3 (10% Panel Replacement)	0	1	1750			175	
	NH3 to panchmukhi hanuman temple	10%	1	500			50	
	Devi Temple to Talkuteshwar Temple (50% Panel Replacement)	1	2	1000			1000	
	Ganeshwadi devi temple to ayurvedic College Road Gadgemaharaj Bridge (10% Panel Replacement)	10%	2	1008			202	
	M stand chauk	10%	2	142			28	
	M stand chauk to Panchavati Karanja to Puriya park	10%	2	783			157	
	Nimani to Katya maruti	10%	2	1000			200	
	Katya maruti chauk to NH3	10%	2	633			127	
						Total Qty	1938.33	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.							
	Logitudinal joints		No.	L				
	Laxminarayan temple to NH3 (10% Panel Replacement)	10%	1	1050			105	
	Ramshrushti chowk	1	5	20			100	
	NH3 to panchmukhi hanuman temple	1	1	300			300	
	Devi Temple to Talkuteshwar Temple (50% Panel Replacement)	50%	2	600			600	
	Ganeshwadi devi temple to ayurvedic College Road Gadgemaharaj Bridge (10% Panel Replacement)	10%	2	605			121	
	M stand chauk	10%	2	85			17	
	M stand chauk to Panchavati Karanja to Puriya park	10%	2	470			94	
	Nimani to Katya maruti	10%	2	600			120	

**NASHIK MUNICIPAL CORPORATION
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Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
	Katya maruti chauk to NH3	10%	2	380			76	
	Transverse joints							
		2	263	8			3938	
	Laxminarayan temple to NH3 (10% Panel Replacement)	10%	233	8			175	
	Ramshrushti chowk	1	6	20			120	
	NH3 to panchmukhi hanuman temple	1	67	8			503	
	Devi Temple to Talkuteshwar Temple (50% Panel Replacement)	50%	133	10			632	
	Ganeshwadi devi temple to ayurvedic College Road Gadgemaharaj Bridge (10% Panel Replacement)	10%	134	9			121	
	M stand chauk	10%	19	18			34	
	M stand chauk to Panchavati Karanja to Puriya park	10%	105	15			158	
	Nimani to Katya maruti	10%	134	15			201	
	Katya maruti chauk to NH3	10%	84	18			151	
						Total Qty	7564.00	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. 59						7564.00	
						Total Qty	7564.00	Rmt
61	Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete.							
		1					15.00	
						Total Qty	15.00	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 in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant							
		1	1	10.00			10.00	
							10.00	Rmt

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Sr	Item	No.	Length	Breadth	Depth	Quantity	Total
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.)						
a	Size- Length 300 mm, Height 750mm, Top Width 125 mm, Bottom width 200 mm, Chamfer Height 300 mm						
		60%	2	2180.00		2616.00	
					Total Qty	2616.00	Rmt
b	Size- Length 400 mm, Height 450mm, Width 125mm, Chamfer Height 450 mm						
	for Treated Footpath	60%	2	12630.00		15156.00	
					Total Qty	15156.00	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						
		1	1	9472.50	sqm	9472.50	
						9472.50	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	3157.50	sqm	3157.50	
					Total Qty	3157.50	Sqm
66	Providing and laying 75mm thick compacted Modified Penetration 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	50.00	1.00	50.00	
						50.00	Sqm
67	Providing and laying 75mm thick compacted Modified Penetration 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	15012.45	1.00	15012.45	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	2	15012.45		30024.90	
		1	2	7112.03		14224.05	
						44248.95	Sqm

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MESURMENT SHEET



Sr	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.							
	for Provisinal Qty	1	1	50	2		100.00	
							100.00	Sqm
71	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)							
							50.00	
							50.00	Cum
72	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		
							50.00	
							50.00	Cum
73	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	15012.45	sqm	0.06	900.75	
		1	1	7112.03	sqm	0.06	426.72	
							1327.47	Cum
74	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 for 30/40 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	15012	sqm	0.0400	600.50	
		1	1	7112	sqm	0.0400	284.48	
							884.98	Cum

Sr	Item	No.	Length	Breadth	Depth	Quantity	Total
75	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 15 percent 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						
	White Topping	1	1	0.00	sqm	0.175	0.00
						0.00	Cum
76	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	50.00		3.30	
	BM - 3.5%		0.0770	50.00		3.85	
	DBM - 4.5%		0.0990	1327.47		131.42	
	BC - 6.25%		0.1440	884.98		127.44	
						266.01	kg
D	Miscellaneous Items for Repairing Work						
77	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	1		15.00		15.00	Rmt
B	25 mm Dia	1		15.00		15.00	Rmt
C	32 mm Dia	1		15.00		15.00	Rmt
D	40 mm Dia	1		15.00		15.00	Rmt
E	50 mm Dia	1		15.00		15.00	Rmt
78	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.						
						10.00	
					Total Qty	10.00	No
79	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	
					Total Qty	10.00	No

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
80	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	5		5.00		25.00	Rmt
B	160 mm Dia	1	5		5.00		25.00	Rmt
81	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							
							20.00	
						Total Qty	20.00	Cum
82	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							
							20.00	
						Total Qty	20.00	Cum
83	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.							
							20.00	
						Total Qty	20.00	Cum
84	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)							
	Kapila Sangam to Laxminarayan temple	1	450.00	0.45	0.20		40.50	
	LS						15.00	
							25.00	
						Total Qty	80.50	Cum
85	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.							
							250.00	
						Total Qty	250.00	Cum
86	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.							
							500.00	
						Total Qty	500.00	Sqm

Sr	Item	No.	Length	Breadth	Depth	Quantity	Total
87	Providing and applying priming coat on concrete/ masonry/ 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 EX Divider, Railing, Sidewall					11870.25	
					Total Qty	11870.25	Sqm
88	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						
	Kaputa Sangam to Laxminarayan temple	2	450	0.45		405.00	
		1	450	0.30		135.00	
		1	315	1.20		378.00	
		1	315	0.45		141.75	
		1	165	1.60		264.00	
		1	30	0.75		22.50	
		1	30	0.45		13.50	
	Laxminarayan temple to NH3	4	30	0.75		90.00	
		4	30	0.45		54.00	
	NH3 to panchmukhi hanuman temple	1	30	1.60		48.00	
		1	25	0.90		22.50	
	Katya maruti to devi mandir	1	155	6.00		930.00	
						0.00	
						0.00	
	Devi Temple to Talkuteshwar Temple	1	150	1.20		180.00	
	Ganeswadi devi temple to ayurvedic	1	100	0.90		90.00	
	College Road Gadamaharji Bridge	1	60	1.60		96.00	
					Total Qty	2870.25	Sqm
89	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.						
						2967.56	
					Total Qty	2967.56	Sqm
90	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						
	Qty same as Item No.85					8902.69	
					Total Qty	8902.69	Sqm
91	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.						
						20.00	
					Total Qty	20.00	Sqm
92	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentric Deleted 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.						
						20.00	
					Total Qty	20.00	Rmt

Sr	Item	No.	Length	Breadth	Depth	Quantity	Total
93	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.					20.00	
						Total Qty	20.00
							Rmt
94	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 horizontal 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 rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering/formwork will not be allowed).					20.00	
						Total Qty	20.00
							Rmt
95	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, cement 6.40 bags/cumt)					20.00	
						20.00	Cum
96	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.					1000.00	kg
						1.00	MT
97	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.						
	Retaining Wall at Mari Mata Mandir Road	1	95.00	1.20	0.23	26.22	
						26.22	Cum
98	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 as per 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 automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.					20.00	
						20.00	Cum
99	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					20.00	
						20.00	Sqm

Sr	Item	No.	Length	Breadth	Depth	Quantity	Total
100	Providing and erecting chain link fencing 1.6M. height with G.I. chain link of size 50 x 50mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40x40x6 mm size, including 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 16mm dia as hold fast including welding link with angle frame at 30cm/c with nuts 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.					20.68	
						20.68	Rmt
101	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.					20.00	
						20.00	Sqm
102	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/ One Square Metre as per drawing including fixtures, necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting complete.					20.00	
						20.00	Sqm
103	Excavation for foundation in earth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means						
	Retaining Wall at Mari Mata Mandir Road	1	95.00	1.50	0.85	121.13	
						121.13	Cum
104	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/granite/quartzite/gneiss metal for foundation and bedding / steps including steel centering, 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 honey combed 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)						
	Retaining Wall at Mari Mata Mandir Road	1	95.00	1.20	0.15	17.10	
						17.10	Cum
105	Providing and laying insitu /Ready Mix cement concrete M 20 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, Steel centering formwork, laying/pumping cover blocks, 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 fine aggregate (Crushed sand VSI Grade)						
	Retaining Wall at Mari Mata Mandir Road	1	95.00	1.20	0.45	51.30	
						51.30	Cum
106	Providing cast in situ / ready mix M20 grade cement concrete for head walls of CD work / retaining walls etc. including necessary form work, compaction, finishing and curing etc. complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with Natural / VSI standard Artificial Sand, cement 7.00 bags/cumt)						



Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
	Retaining Wall at Mari Mata Mandir Road		1.00	95.00	0.20	3.00	57.00	
							57.00	Cum
E	Road Furniture							
107	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	5440	0.15		1632.00	
	footpath line	1	2	5440	0.15		1632.00	
	center line 1 m c/c	1	2	2720	0.10		544.00	
	Zebra	16	4	12	0.30		230.40	
	Stop line	16	2	12	0.30		115.20	
							4153.60	Sqm
108	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.							
	Divider Line	1	2	605.00			1210.00	
	footpath line	1	2	605.00			1210.00	
	center line 1 m c/c	1	2	303.00			606.00	
	Zebra	16	4	16.00			1024.00	
	Stop line	16	2	16.00			512.00	
							4562.00	No
109	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.							
							250	
						Total Qty	250.00	No

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
110	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.							
		2	363				726.00	
							Total Qty	726.00
								No
111	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							
		1	20				20.00	
							Total Qty	20.00
								No.
112	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	1			20.00	20.00	
							Total Qty	20.00
								No.
113	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 retroreflective specified back ground, border and back side retroreflective 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 _____							
b	600 mm dia made out of 3mm aluminum composite material						5.00	No.
d	750 mm dia made out of 4mm aluminum composite material						5.00	No.

Sr	Item	No.	Length	Breadth	Depth	Quantity	Total
114	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 retoreflective 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						
b	600 mm made out of 3mm aluminum composite material	1		5.00		5.00	No.
d	750 mm made out of 4mm aluminum composite material	1		5.00		5.00	No.
f	900 mm made out of 4mm aluminum composite material	1		5.00		5.00	No.
115	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 retoreflective 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	5	1.20	0.90	5.40	
		1	5	0.90	0.60	2.70	
				Total Qty		8.10	Sqm
116	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 retoreflective 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 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	8	1.20	0.90	8.64	

Sr	Item		No.	Length	Breadth	Depth	Quantity	Total
		1	8	0.90	0.60		4.32	
					Total Qty		12.96	Sqm
117	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 retoreflective 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 is							
d	4mm aluminum composite material Class C							
		2	4	1.20	0.90		8.64	
		2	4	0.90	0.60		4.32	
					Total Qty		12.96	Sqm
118	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 section 150x75x5 mm, 330 mm long complete as per clause 810)""							
							27.00	
					Total Qty		27.00	Rmt
119	Providing and Constructing gabion structure 1Meter hight or required section made up of soft mechanically woven hexagonal shaped G.I. wire confirming to IS 16014:2012 having zinc plus PVC coating of overall diameter of 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)							
							250.00	
					Total Qty		250.00	Cum
F	Providing Public Utilities							
120	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	1	1				1.00	
							1.00	No
121	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	1	1				1.00	
							1.00	No

NASHIK MUNICIPAL CORPORATION
MESURMENT SHEET



Sr	Item	No.	Length	Breadth	Depth	Quantity	Total
122	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	40.00		1.160	46.40	
b	Earth work Embankment	Sr. No.43	1140.00		1.250	1425.00	
c	Supplying hard murum/ kankar at the road site, including conveying and stacking complete. Sp. No. Rd. 23 P.No. 202	Sr. No.44	12830.00		1.000	12830.00	
d	for Rubble	Sr. No.95	276.22		1.250	345.28	
						14646.68	Cum
e	for Sand	Sr. No.85	250.00		0.025	6.25	
	for Sand	Sr. No.86	500.00		0.033	16.50	
						22.75	Cum


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


Deputy Engineer
PWD Panchavati, NMC Nashik.


Executive Engineer
PWD Panchavati, NMC Nashik.

1-A3

NASHIK MUNICIPAL
CORPORATION



AREA
STATEMENT

1-13

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Area Statement

Road no.	Span	Name of colony / Area road	Length (L) in M	Width As Per DP in M	Ext. road Width			Ext. Area (M2)	Proposed Road Width							Proposed road area							Footpath			Treated side shoulder area murum, GR-I, GR-II				storm water line		divider		
					W1	W2	Wavg		Asphalt	Reinforcing	PQC	White Topping	WBM Area For Asphalt	WBM Area for PQC	WBM Area for Widening	Area of Asphalt	Area of PQC	Area of Topping Area (L x 16)	Width	Nos.	length	Total pavement for both side	width for one side	area for both side	NO.	length	width	length for one side						
1.1		Kapila Sangam to Laxminarayana temple	450	18	12	12	12.00	5400	12									0	0	0	0	0	0	0	0						1.5	450		
1.2		Laxminarayana temple to NH3 (10% Panel Replacement)	1050	18	7.5	7.5	7.5	7875			7.5							0	0	0	0	590.6	0.0	0.0	0.0	2	2	1050	4200		0		0	
1.3		NH3 to pandimabhi banuman temple	300	12	7.5	7.5	7.5	2250										0	0	0	0	225.0	0.0	0.0	0.0				0		0	0		
1.4		Kalya maruti chowk to Devi mandir (gachhewadi)	310	18	12	10	11	3410	12	0	6							0	0	0	0	372.0	0.0	744.0	0.0				0		0	0		
1.5		Devi Temple to Tuljeshwar Temple (50% Panel Replacement)	600	18	9	9	9	5400	12	0	6							0	0	0	0	360.0	0.0	1620.0	0.0				0		0	0		
1.6		Ganeshwadi devi temple to survedic College Road Gadghatnagar Bridge (10% Panel Replacement)	605	12	9	9	9	5445	12									0	0	0	0	363.0	0.0	544.5	0.0	1	2	605	1210		0		0	
1.7		Holkar Bridge To M stand	180	18	18	18	18.00	3240.0		18								0	0	0	0	0	0	0	0	0	0	180.00	0		*	*	*	
1.8		M stand chawak	85	18	18	18	18.00	1530.0		18								0	0	0	0	0	0	0	0	0	85.00	0		*	*	*		
1.9		M stand chawak to Panchavali Karanja to Puriya park	470	15	15	15	15.00	7050.0			15.00							0	0	0	0	0	0	705.0	0.0	2	2	470.00	1880	*	*	*	1.2	470.00
1.10		Puriya park Chawak to Nimani	280	18	18	18	18.00	5040.0		18								0	0	0	0	0	0	5040.0	0.0	2	2	280.00	1120	*	*	*	1.2	280.00
1.11		Nimani to Kalya maruti	600	15	15	15	15.00	9000.0			15.00							0	0	0	0	0	0	900.0	0.0	1.5	2	600.00	1800	*	*	*	1.2	600.00
1.12		Kalya maruti chawak	80	30	30	30	30.00	2400.0		30								0	0	0	0	0	0	2400.0	0.0	0	0	80.00	0		*	*	*	
1.13		Kalya maruti chawak to NH3	380	18	18	18	18.00	6840.0			18.00							0	0	0	0	0	0	684.0	0.0	2	2	380.00	1520	*	*	*	1.2	380.00
1.14		NH 3 Approach	50	30	30	30	30.00	1500.0		30								0	0	0	0	0	0	1500.0	0.0	0	0	50.00	0	2	2	200		
		Total	5440.00		9084.00			66380.00										0.00	0.00	0.00	0.00	6495.00	13710.00	6812.13	0.00	0.00	0.00	4230.00	12620.00		200.00		200.00	2180.00
10% Finishing Area			0.00															0.00				617.03	1302.45	571.25										
		Total	5440.00		9084.00	Sqm		66380.00										0.00				7112.03	15012.45	6584.37	*	0.00		4230.00	12630.00		200.00		2180.00	

JE/AE-/Sect Engineer
PWD Panchavati, NMC Nashik

Executive Engineer
PWD Panchavati, NMC Nashik

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

No	SSR No.	Description	Qty	Rate	Per	Amount
B	Water Supply Lines					
I	R.A.	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 & IS: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)				
		D.I. K - 7				
		i) 100 mm Dia.	8.00	1209.00	Rmt	9672.00
		ii) 150 mm Dia.	8.00	1686.00	Rmt	13488.00
		iii) 200 mm Dia.	8.00	2236.00	Rmt	17888.00
		iv) 250 mm Dia.	8.00	2906.00	Rmt	23248.00
		v) 300 mm Dia.	8.00	3571.00	Rmt	28568.00
		vi) 350 mm Dia.	8.00	4465.00	Rmt	35720.00
		vii) 400 mm Dia.	8.00	5328.00	Rmt	42624.00
		viii) 450 mm Dia.	8.00	6346.00	Rmt	50768.00
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	200.00	88.00	kg	17600.00
		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 statutory 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.	8.00	1311.00	No	10488.00
		100 mm Dia.	8.00	1430.00	No	11440.00
		125 mm Dia.	8.00	1800.00	No	14400.00
		150 mm Dia.	8.00	2574.00	No	20592.00
		200 mm Dia.	8.00	3335.00	No	26680.00
		250 mm Dia.	8.00	5031.00	No	40248.00
		300 mm Dia.	8.00	5632.00	No	45056.00
		350 mm Dia.	8.00	7427.00	No	59416.00
		400mm Dia.	8.00	9694.00	No	77552.00

**NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET**



No	SSR No.	Description	Qty	Rate	Per	Amount
		450mm Dia.	8.00	11380.00	No	91040.00
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 statutory duties and taxes such as GST levied by Gol and GoM in all respect,MJP DSR Page No. 143 Sr.No. 2				
		SECTION-I(XIII) MECHANICLA JOINTS / FITTING (161)				
		80 mm Dia.	8.00	826.00	No	6608.00
		100 mm Dia.	8.00	886.00	No	7088.00
		125 mm Dia.	8.00	1181.00	No	9448.00
		150 mm Dia.	8.00	1593.00	No	12744.00
		200 mm Dia.	8.00	1818.00	No	14544.00
		250 mm Dia.	8.00	2914.00	No	23312.00
		300 mm Dia.	8.00	3729.00	No	29832.00
		350 mm Dia.	8.00	4597.00	No	36776.00
		400 mm Dia.	8.00	7154.00	No	57232.00
		450 mm Dia.	8.00	8033.00	No	64264.00
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)				
			35.00	93.45	Bhp/hr	3270.75
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 diameters	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.	8.00	331.80	Joint	2654.40
		100 mm Dia.	8.00	571.20	Joint	4569.60
		150 mm Dia.	8.00	1146.60	Joint	9172.80
		200 mm Dia.	8.00	1188.60	Joint	9508.80
		250 mm Dia.	8.00	1703.10	Joint	13624.80
		300 mm Dia.	8.00	1769.25	Joint	14154.00
		450 mm Dia.	8.00	3508.05	Joint	28064.40
		600 mm Dia.	8.00	3898.65	Joint	31189.20
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.				
		SECTION-I(I)C.I./D.I.PIPES (71)				
		80 mm Dia.	8.00	265.44	Joint	2123.52

**NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET**



No	SSR No.	Description	Qty	Rate	Per	Amount
		100 mm Dia.	8.00	456.96	Joint	3655.68
		150 mm Dia.	8.00	917.28	Joint	7338.24
		200 mm Dia.	8.00	950.88	Joint	7607.04
		300 mm Dia.	8.00	1415.40	Joint	11323.20
		450 mm Dia.	8.00	2806.44	Joint	22451.52
		600 mm Dia.	8.00	3118.92	Joint	24951.36
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.	2.00	52.50	No.	105.00
		100 mm Dia.	2.00	60.90	No.	121.80
		150 mm Dia.	2.00	94.50	No.	189.00
		200 mm Dia.	2.00	118.65	No.	237.30
		300 mm Dia.	2.00	202.65	No.	405.30
		450 mm Dia.	2.00	306.60	No.	613.20
		600 mm Dia.	2.00	447.30	No.	894.60
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	15.00	61.95	Rmt	929.25
		100mm	10.00	75.60	Rmt	756.00
		150mm	10.00	100.80	Rmt	1008.00
		200mm	8.00	133.35	Rmt	1066.80
		300mm	8.00	189.02	Rmt	1512.16
		450mm	8.00	283.50	Rmt	2268.00
		600mm	8.00	429.45	Rmt	3435.60
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				
		b) Medium				
		15mm Dia.	5.00	105.00	Rmt	525.00
		20mm Dia.	5.00	135.00	Rmt	675.00
		25 mm Dia.	5.00	206.00	Rmt	1030.00
		40 mm Dia.	5.00	299.00	Rmt	1495.00
		50 mm Dia.	5.00	413.00	Rmt	2065.00
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)				
			2.00	1484.70	Rmt	2969.40
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	2.00	156.45	Rmt	312.90
		10 to 14mm thickness	2.00	200.55	Rmt	401.10

**NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET**



No	SSR No.	Description	Qty	Rate	Per	Amount
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 Proportion Valve Chamber with Precast steel fibre reinforced concrete (S.F.R.C.) frame & covers. MJP DSR Page No. 235 Sr.No. 3				
		90x60x120 cm	5.00	16139.55	No	80697.75
		increase in depth of 30Cm	5.00	2048.55	30cm depth	10242.75
		90x90x120 cm	5.00	20466.60	No	102333.00
		increase in depth of 30Cm	5.00	2397.15	30cm depth	11985.75
		120x120x120 cm	5.00	25321.80	No	126609.00
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	8.00	3665.55	No	29324.40
		90x60 cm	8.00	3973.20	No	31785.60
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				
		15mm Dia.	8.00	36.75	Rmt	294.00
		20mm Dia.	8.00	39.90	Rmt	319.20
		25 mm Dia.	8.00	48.30	Rmt	386.40
		40 mm Dia.	8.00	72.45	Rmt	579.60
		50 mm Dia.	8.00	85.05	Rmt	680.40
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.	8.00	1310.40	No.	10483.20
		25 mm Dia.	8.00	2642.80	No.	21142.40
		50 mm Dia.	8.00	9391.20	No.	75129.60
	B	Water Supply Lines		Total Rs		1640653.77


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


Deputy Engineer
PWD Panchavati, NMC Nashik.


Executive Engineer
PWD Panchavati, NMC Nashik.

NASHIK MUNICIPAL CORPORATION
MESURMENT SHEET

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Sr	Item	no	Length	Breadth	Depth	Quantity	Total
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						
	D.I. K - 7						
	i) 100 mm Dia.	1	8			8.00	Rmt
	ii) 150 mm Dia.	1	8			8.00	Rmt
	iii) 200 mm Dia.	1	8			8.00	Rmt
	iv) 250 mm Dia.	1	8			8.00	Rmt
	v) 300 mm Dia.	1	8			8.00	Rmt
	vi) 350 mm Dia.	1	8			8.00	Rmt
	vii) 400 mm Dia.	1	8			8.00	Rmt
	viii) 450 mm Dia.	1	8			8.00	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	200			200	kg
	Above 350 mm upto 600 mm dia.	1	200			200	kg
						400.00	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 statutory 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.	8				8	No
	100 mm Dia.	8				8	No
	125 mm Dia.	8				8	No
	150 mm Dia.	8				8	No
	200 mm Dia.	8				8	No
	250 mm Dia.	8				8	No
	300 mm Dia.	8				8	No
	350 mm Dia.	8				8	No
	400mm Dia.	8				8	No
	450mm Dia.	8				8	No

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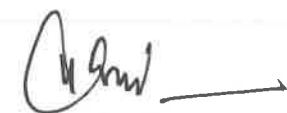
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NASHIK MUNICIPAL CORPORATION
MESURMENT SHEET

Sr	Item	no	Length	Breadth	Depth	Quantity	Total
	SECTION-I(XVI) M. S. PIPE LAYING (186)						
		2				2.00	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	2				2.00	Rmt
	10 to 14mm thickness	2				2.00	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 Proportion Valve Chamber with Precast steel fibre reinforced concrete (S.F.R.C.) frame & covers. MJP DSR Page No. 235 Sr.No. 3						
	90x60x120 cm	5				5.00	No
	increase in depth of 30Cm	5				5.00	30cm depth
	90x90x120 cm	5				5.00	No
	increase in depth of 30Cm	5				5.00	30cm depth
	120x120x120 cm	5				5.00	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	8				8.00	No
	90x60 cm	8				8.00	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.	8				8.00	Rmt
	20mm Dia.	8				8.00	Rmt
	25 mm Dia.	8				8.00	Rmt
	40 mm Dia.	8				8.00	Rmt
	50 mm Dia.	8				8.00	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.	8				8.00	No.
	25 mm Dia.	8				8.00	No.
	50 mm Dia.	8				8.00	No.


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


Deputy Engineer
PWD Panchavati, NMC Nashik.


Executive Engineer
PWD Panchavati, NMC Nashik.

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Quality Control

Sr.No	Item in brief	Estimated		Material	Standard Consumption	Utilised Quantity of Ingradients	Tests	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit							
1	2	3	4	5	6	7	8	10	11	12
1	Providing earthwork Departmental Land.	25.00	Cubic Metre	Earth	1.00000	25.00	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
					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
2	Providing earthwork from Other sources.	1140.00	Cubic Metre	Earth	1.00000	1140.00	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
					0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	3	2730.00	8190.00
					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
3	Supplying Hard Murum	2566.00	Cubic Metre		0.0000	0.00	SOIL / MURUM Sieve Analysis test.	7	725.00	5075.00
				Murum	1.0000	2566.00	SOIL / MURUM Liquid limit & plastic Limit test.	7	1230.00	8610.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
4	G.S.B. with Gr.I close graded Material by Plant Mix Method.	2566.00	Cubic Metre		0.0000	0.00	G.S.B. Mix Design test.	1	17065.00	17065.00

					Cr.Metal	1.2800	3284.48	BASIC TEST OF AGGREGATE. Sieve Analysis test.	7	725.00	5075.00
						0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	7	1230.00	8610.00
								SOIL / MURUM Compaction Test (Proctor Density).	18	1955.00	35190.00
								SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00
								SOIL / MURUM C.B.R. test (Field determination test)	33	2730.00	90090.00
5	W.B.M. with Screening Type-A	Grading-I.Using	1914.50	Cubic Metre	Murum	0.08000	153.16	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	3	2730.00	8190.00
					Cr.Metal	0.2700	516.92	BASIC TEST OF AGGREGATE. Sieve Analysis test.	12	725.00	8700.00
						0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	6	895.00	5370.00
					Metal	1.2100	2316.55	SOIL / MURUM Sieve Analysis test.	1	725.00	725.00
								SOIL / MURUM Liquid limit & plastic Limit test.	4	1230.00	4920.00
6	W.B.M.with Screening Type-B.	Grading-II.Using	1245.75	Cubic Metre	Murum	0.08000	99.66	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	2	2730.00	5460.00

						Cr.Metal	0.2400	298.98	BASIC TEST OF AGGREGATE. Sieve Analysis test.	8	725.00	5800.00
							0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	4	895.00	3580.00
						Metal	1.2100	1507.36	SOIL / MURUM Sieve Analysis test.	1	725.00	725.00
									SOIL / MURUM Liquid limit & plastic Limit test.	2	1230.00	2460.00
7	Wet Mix Macadam	25.00	Cubic Metre				0.0000	0.00	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
						Cr.Metal	1.2100	30.25	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
							0.0000		Wet Mix Macadam Mix Design test.	1	17065.00	17065.00
									SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
									SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00

8	Providing and laying plain cement concrete Mix-15 grade leveling course below approach slab complete as per drawing and Technical specification, with fully automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible drum type mixer/ concrete batch mix plant (pan mixer) as per drawings and Technical specifications etc. complete (VSI sand finely washed etc.)	1894.50	Cubic Metre	Cement	0.33000	625.19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	41	725.00	29725.00
				Sand	0.4500	852.53	BASIC TEST OF AGGREGATE. Sieve Analysis test.	9	725.00	6525.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	9	895.00	8055.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	1	1450.00	1450.00
							BASIC TEST OF CEMENT. Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	5	3960.00	19800.00
9	Dry Lean Cement Concrete	1499.72	Cubic Metre	Cement	0.22000	329.94	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	33	725.00	23925.00
				Sand	0.4700	704.87	BASIC TEST OF AGGREGATE. Sieve Analysis test.	8	725.00	5800.00

					0.0000			BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	8	895.00	7160.00
								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	31.05	Cubic Metre	Cement	0.35000	10.87		CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	4	725.00	2900.00
				Sand	0.4250	13.20		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
11	TMT FE-500 bar reinforcement for R.C.C.	1.00	Metric Tonne	Steel	1.00000	1.00		STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1	1340.00	1340.00
					0.0000	0.00		STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Re bend Test, Proof Stress).	1	1675.00	1675.00

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 millimetre at bottom and 40 millimetre at top with depth of 75 millimetre and maintaining the same throughout curing period/ by any other method approved by Engineer-in-charge	2270.27	Cubic Metre	Cement	0.42500	964.86	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	48	725.00	34800.00
				Ct.Metal	0.8500	1929.73	Concrete Mix Design (With all Tests on basic materials).	5	14445.00	72225.00
				Sand	0.4000	908.11	BASIC TEST OF AGGREGATE. Sieve Analysis test.	10	725.00	7250.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	10	895.00	8950.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	1	1450.00	1450.00
							CONCRETE Flexural strength of Beam test.	32	780.00	24960.00
13	Providing and fixing 12 mm dia. HYSD tie bars.	1938.33	Number		0.0000	0.00	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1	1340.00	1340.00

14	Coloured Paving Blocks 60 mm thick.	9472.50	Square Metre		0.0000	0.00	CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test (Set of 8 Blocks).	13	2620.00	34060.00
15	Providing and fixing heavy duty interlocking concrete Coloured paving blocks of 80 millimetre 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 millimetre thick including skirting joints and cleaning etc. complete	3157.50	Square Metre		0.0000	0.00	CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test (Set of 8 Blocks).	5	2620.00	13100.00
16	75 mm M.P.M. on W.B.M. with 70% Hand Broken Metal.	50.00	Square Metre	Bitumen	0.00200	0.10	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
				Cr. Metal	0.0450	2.25	BASIC TEST OF AGGREGATE, Sieve Analysis test.	2	725.00	1450.00
				Metal	0.0630	3.15	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	1	895.00	895.00
							BASIC TEST OF AGGREGATE, Stripping Value test.	1	780.00	780.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							BITUMEN Viscosity test.	1	2005.00	2005.00
17	75 mm M.P.M. on B.T. with 70% Hand Broken Metal.	15081.00	Square Metre	Bitumen	0.00230	34.69	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
				Cr. Metal	0.0450	678.65	BASIC TEST OF AGGREGATE, Sieve Analysis test.	17	725.00	12325.00

				Metal	0.0630	950.10	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	9	895.00	8055.00
							BASIC TEST OF AGGREGATE. Stripping Value test.	1	780.00	780.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	4	3290.00	13160.00
							BITUMEN Viscosity test.	4	2005.00	8020.00
18	Tack Coat using Bitumen VG-30 at 2.50 Kg /10 Sq.m	Square Metre	30162.70	Bitumen	0.00025	7.54				
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							BITUMEN Viscosity test.	1	2005.00	2005.00
19	B.M. Gr-1 with Batch Mix SCADA with 3.3% Bitumen VG-30.	Cubic Metre	50.00	Bitumen	0.07260	3.63	B.M.Job Mix Design with all Tests on aggregate (Excluding bitumen).	1	7865.00	7865.00
				Cr.Metal	1.4100	70.50	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
					0.0000		BASIC TEST OF AGGREGATE. Stripping Value test.	1	780.00	780.00
				Bituminous Mix	1.4100	70.50	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity,Impact Value Crushing Value test.	1	2730.00	2730.00
							Density test of Bituminous Core.	2	665.00	1330.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							BITUMEN Viscosity test.	1	2005.00	2005.00
							BITUMEN Extraction Test.	2	1675.00	3350.00
							BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00

20	B.M. Gr-I 3.3% PLC Drum Mix SCADA, VTS, Sensor Paver with VG 30.	50.00	Cubic Metre	Bitumen	0.07260	3.63	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
				Bitumen	0.07260	3.63	B.M.Joh Mix Design with all Tests on aggregate (Excluding bitumen).	1	7865.00	7865.00
				Cr.Metal	1.4100	70.50	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	1	895.00	895.00
					0.0000		BASIC TEST OF AGGREGATE, Stripping Value test.	1	780.00	780.00
				Bituminous Mix	1.4100	70.50	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
							Density test of Bituminous Core.	2	665.00	1330.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							BITUMEN Viscosity test.	1	2005.00	2005.00
							BITUMEN Extraction Test.	2	1675.00	3350.00
							BASIC TEST OF AGGREGATE, Sieve Analysis test.	2	725.00	1450.00
							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
21	D.B.M. Gr-I SCADA Batch Mix with VG-30 and Stone Dust Filler.	904.86	Cubic Metre	Bitumen	0.10350	93.65	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	4	2730.00	10920.00
				Cr.Metal	1.5280	1382.63	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	4	895.00	3580.00

					0.0000				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
									Density test of Bituminous Core.	26	665.00	17290.00
									Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/BC/SMA.	1	17065.00	17065.00
									BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	10	3290.00	32900.00
									BITUMEN Viscosity test.	10	2005.00	20050.00
									BITUMEN Extraction Test.	5	1675.00	8375.00
									Marshall Stability & Flow measurement test. (Set of 3 moulds).	5	1170.00	5850.00
22	B.C. Gr-1 Drum Mix SCADA, VTS, Sensor Paver with 5.4% VG 30.	603.24	Cubic Metre	Bitumen	0.12960	78.18			BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	3	2730.00	8190.00
				Cr.Metal	1.5720	948.29			BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	3	895.00	2685.00
					0.0000				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
									Density test of Bituminous Core.	18	665.00	11970.00
									Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/BC/SMA.	1	17065.00	17065.00
									BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	8	3290.00	26320.00
									BITUMEN Viscosity test.	8	2005.00	16040.00
									BITUMEN Extraction Test.	4	1675.00	6700.00
									Marshall Stability & Flow measurement test. (Set of 3 moulds).	4	1170.00	4680.00
23	Road Marking with Hot Applied Thermoplastic Compound.	4153.60	Square Metre		0.0000	0.00			PAINT / THERMO-PLASTIC PAINT Glass bead contents & grading analysis Test.	1	4070.00	4070.00

					0.0000	0.00	PAINT / THERMO-PLASTIC PAINT Reflectance & yellowness index Test.	1	1170.00	1170.00
					0.0000		PAINT / THERMO-PLASTIC PAINT Flowability (Percentage residue) Test.	1	1170.00	1170.00
					0.0000		PAINT / THERMO-PLASTIC PAINT Softening Point (Ring & ball method) Test.	1	1060.00	1060.00
							PAINT / THERMO-PLASTIC PAINT Drying Time Test.	1	835.00	835.00
							Total Quality Control Testing Charges			Rs.958,210.00

Executive Engineer (Works)
Nashik Municipal Corporation
Nashik

Deputy Engineer (Works)
Public Works Department
Divisional Office, Panchavati

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control												
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges	
		Quantity	Unit									
1	2	3	4	5	6	7	8	9	10	11	12	
1	Providing earthwork Departmental Land	5.00	Cubic Metre	Earth	1.00000	5.00	SOIL / MURUM Compaction Test (Proctor Density).	2 Test for 3000 Cum. For filling in Plinth 1 test per 1000 Cum.	1	1955.00	1955.00	
	Road Subgrade				0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	1 Test for 3000 sqm For GSB/WMM 1 Test for 1000 sqm for every layer For filling in Plinth 1 test per 250 Sqm.	1	2730.00	2730.00	
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	For WBM Binding Material -1 Test for 50 cum. For WBM Screening -1 Test for 100 cum. For Earth Work/ Shoulders -2 Tests for 3000 cum. For GSB-1 Test for 400 cum. For Filling in Plinth -1 Test for 1000 Sqm.	1	1230.00	1230.00	
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	As Required 1 Test per 3000 Cum.	1	7250.00	7250.00	
2	Providing earthwork from Other sources.	5.00	Cubic Metre	Earth	1.00000	5.00	SOIL / MURUM Compaction Test (Proctor Density).	2 Test for 3000 Cum. For filling in Plinth 1 test per 1000 Cum.	1	1955.00	1955.00	
	Road Subgrade				0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	1 Test for 3000 sqm For GSB/WMM 1 Test for 1000 sqm for every layer For filling in Plinth 1 test per 250 Sqm.	1	2730.00	2730.00	
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	For WBM Binding Material -1 Test for 50 cum. For WBM Screening -1 Test for 100 cum. For Earth Work/ Shoulders -2 Tests for 3000 cum. For GSB-1 Test for 400 cum. For Filling in Plinth -1 Test for 1000 Sqm.	1	1230.00	1230.00	
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	As Required 1 Test per 3000 Cum.	1	7250.00	7250.00	
3	Supplying Hard Murum	4019.06	Cubic Metre		0.0000	0.00	SOIL / MURUM C.B.R. Test (Lab) with compaction test SOIL / MURUM Sieve Analysis test.	As Required 1 Test per 3000 Cum. 1 Test for 400 cum	11	725.00	7975.00	

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajani Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control											
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	Road Subgrade	3	4	5 Murum	6 1.0000	7 4010.58	8 SOIL / MURUM Liquid limit & plastic Limit test.	9 For WBM Binding Material -1 Test for 50 cum. For WBM Screening -1 Test for 100 cum. For Earth Work/ Shoulders -2 Tests for 3000 cum. For GSB-1 Test for 400 cum. For Filling in Plinth -1 Test for 1000 Sqm.	10 11	11 1230.00	12 13530.00
4	GSB with Gr I close graded Material by Plant Mix Method	11653.27	Cubic Metre		0.0000	0.00	SOIL / MURUM C.B.R. Test (Lab) with compaction test. G.S.B. Mix Design test.	As Required 1 Test per 3000 Cum. GSB- 1 Test	2 1	7250.00 17065.00	14500.00 17065.00
	Road Sub Base & Base Course			Cr Metal	1.2800	14618.27	BASIC TEST OF AGGREGATE. Sieve Analysis test	For Concrete- 1 Test per 200 Cum. For W.B.M.- 1 Test per 250 cum For M.P.M./BUSG - 1 Test per 100 cum For B.T.- 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M.- 1 Test per 200 cum	30	725.00	21750.00
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	For WBM Binding Material -1 Test for 50 cum. For WBM Screening -1 Test for 100 cum For Earth Work/ Shoulders -2 Tests for 3000 cum. For GSB-1 Test for 400 cum. For Filling in Plinth -1 Test for 1000 Sqm.	30	1230.00	36900.00
							SOIL / MURUM Compaction Test (Proctor Density).	2 Test for 3000 Cum. For filling in Plinth 1 test per 1000 Cum.	75	1955.00	146625.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	As Required 1 Test per 3000 Cum.	1	7250.00	7250.00
							SOIL / MURUM C.B.R. test (Field determination test)	1 Test for 3000 sqm For GSB/WMM 1 Test for 1000 sqm for every layer For filling in Plinth 1 test per 250 Sqm.	145	2730.00	395850.00
5	W B M with Screening Type-A	229.05	Cubic Metre	Murum	0.08000	20.53	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	For W.B.M./W.M.M.- 1 Test per 1000 cum For B.T.- 1 Test per Source For BUSG.- 1 Test per 200 cum	1	2730.00	2730.00

Name of Work:-	Proposed	Developing of	Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control											
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	Road Sub Base & Base Course	3	4	5 Cr Metal	6 0.2700	7 69.28	8 BASIC TEST OF AGGREGATE, Sieve Analysis test.	9 For Concrete- 1 Test per 200 Cum. For W.B.M.- 1 Test per 250 cum For M.P.M./BUGS - 1 Test per 100 cum For B.T.- 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M.- 1 Test per 200 cum	10 2	11 725.00	12 1450.00
					0.0000		BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUGS- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00	895.00
				Metal	1.2100	310.47	SOIL / MURUM Sieve Analysis test	1 Test for 400 cum	1	725.00	725.00
							SOIL / MURUM Liquid limit & plastic Limit test.	For WBM Binding Material -1 Test for 50 cum. For WBM Screening -1 Test for 100 cum For Earth Work/ Shoulders -2 Tests for 3000 cum. For GSB-1 Test for 400 cum. For Filling in Plinth -1 Test for 1000 Sqm.	1	1230.00	1230.00
6	W.B.M with Grading-II Using Screening Type-B	163.46	Cubic Metre	Murum	0.08000	14.61	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	For W.B.M./W.M.M.- 1 Test per 1000 cum For B.T.- 1 Test per Source For BUGS.- 1 Test per 200 cum	1	2730.00	2730.00
	Road Sub Base & Base Course			Cr Metal	0.2400	43.83	BASIC TEST OF AGGREGATE, Sieve Analysis test	For Concrete- 1 Test per 200 Cum. For W.B.M.- 1 Test per 250 cum For M.P.M./BUGS - 1 Test per 100 cum For B.T.- 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M.- 1 Test per 200 cum	2	725.00	1450.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajani Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control											
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	10	11	12
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00	895.00
				Metal	1.2100	220.99	SOIL / MURUM Sieve Analysis test.	1 Test for 400 cum	1	725.00	725.00
							SOIL / MURUM Liquid limit & plastic Limit test.	For WBM Binding Material -1 Test for 50 cum. For WBM Screening -1 Test for 100 cum. For Earth Work/ Shoulders -2 Tests for 3000 cum. For GSB-1 Test for 400 cum. For Filling in Plinth -1 Test for 1000 Sqm.	1	1230.00	1230.00
7	Wet Mix Macadam	20.00	Cubic Metre		0.0000	0.00	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	For W.B.M./W.M.M.- 1Test per 1000 cum For B.T.- 1Test per Source For BUSG- 1Test per 200 cum	1	2730.00	2730.00
	Road Sub Base & Base Course			Cr Metal	1.2100	24.20	BASIC TEST OF AGGREGATE. Sieve Analysis test.	For Concrete- 1 Test per 200 Cum. For W.B.M.- 1Test per 250 cum For M.P.M./BUSG - 1Test per 100 cum For B.T.- 2 Test per day per plant (Before and After Mix) For GSB- 1Test per 400 cum For W.M.M.- 1Test per 200 cum	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00	895.00
					0.0000		Wet Mix Macadam Mix Design test.	W.M.M.- 1Test per 500 cum	1	17065.00	17065.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control											
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	10	11	12
							SOIL / MURUM Liquid limit & plastic Limit test.	For WBM Binding Material -1 Test for 50 cum. For WBM Screening -1 Test for 100 cum. For Earth Work/ Shoulders -2 Tests for 3000 cum. For GSB-1 Test for 400 cum. For Filling in Plinth -1 Test for 1000 Sqm.	1	1230.00	1230.00
							SOIL / MURUM C B R test (Field determination test)	1 Test for 3000 sqm For GSB/WMM 1 Test for 1000 sqm for every layer For filling in Plinth 1 test per 250 Sqm.	1	2730.00	2730.00
8	Providing and laying in PCCM 1:5 grade leveling course below approach slab complete with fully automatic micro process or PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (panmixer) as per drawing sand Technical specifications etc complete with fine aggregates of required specifications (VSI sand finely washed etc)	293.63	Cubic Metre	Cement	0.30000	589.82	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	Upto 5 Cum. -1 Set 6-15 Cum. - 2 Sets 16-30 Cum. - 3 Sets 31-50 Cum. - 4 Sets Above 51 Cum. 1 additional set for every additional 50 Cum.	40	725.00	29000.00
				Sand	0.4400	865.06	BASIC TEST OF AGGREGATE, Sieve Analysis test.	For Concrete- 1 Test per 200 Cum. For W.B.M.- 1Test per 250 cum For M.P.M./BUSG - 1Test per 100 cum For B.T. - 2 Test per day per plant (Before and After Mix) For GSB- 1Test per 400 cum For W.M.M.- 1Test per 200 cum	8	725.00	5800.00
					0.0000		BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum Sand - 1Test per Source	7	895.00	6265.00
							FINE AGGREGATES, Fineness Modulus (Sieve Analysis), Silt & Clay Content test.		1	1450.00	1450.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajani Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control

Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	10	11	12
9	Dry Lean Cement Concrete	1682.60	Cubic Metre	Cement	0.22000	1.10	BASIC TEST OF CEMENT: Standard Consistency, Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	Cement - 1 Test per 150 MT	4	3960.00	15840.00
							CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	Upto 5 Cum. - 1 Set 6-15 Cum. - 2 Sets 16-30 Cum. - 3 Sets 31-50 Cum. - 4 Sets Above 51 Cum. 1 additional set for every additional 50 Cum.	0	725.00	0.00
				Sand	0.4700	2.35	BASIC TEST OF AGGREGATE: Sieve Analysis test.	For Concrete- 1 Test per 200 Cum. For W.B.M. - 1 Test per 250 cum For M.P.M./BUSG - 1 Test per 100 cum For B.T. - 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M. - 1 Test per 200 cum	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE: Flakiness Index/ Elongation Index test	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00	895.00
							FINE AGGREGATES: Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	Sand - 1 Test per Source	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	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	Upto 5 Cum. - 1 Set 6-15 Cum. - 2 Sets 16-30 Cum. - 3 Sets 31-50 Cum. - 4 Sets Above 51 Cum. 1 additional set for every additional 50 Cum.	0	725.00	0.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control											
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	10	11	12
				Sand	0.4250	2.13	BASIC TEST OF AGGREGATE. Sieve Analysis test.	For Concrete- 1 Test per 200 Cum. For W.B M.- 1Test per 250 cum For M.P.M./BUSG - 1Test per 100 cum For B.T - 2 Test per day per plant (Before and After Mix) For GSB- 1Test per 400 cum For W.M.M.- 1Test per 200 cum	1	725.00	725.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00	895.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis),Silt & Clay Content test.	Sand - 1Test per Source	1	1450.00	1450.00
11	TMT FE-500 bar reinforcement for R C C	1.00	Metric Tonne	Steel	1.00000	1.00	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1 Test per 5 M.T.	1	1340.00	1340.00
	5-Bd-F REINFORCED CEMENT CONCRETE				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).	1 Test per 10 M.T. (1 for each Dia.)	1	1675.00	1675.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajani Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control											
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
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 Tilling 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 millimetre at bottom and 40 millimetre at top with depth of 75 millimetre and maintaining the same throughout curing period/ by any other method approved by Engineer-in-charge	4286.88	Cubic Metre	5 Cement	6 0.42500	7 1394.02	8 CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	9 Upto 5 Cum. - 1 Set 6-15 Cum. - 2 Sets 16-30 Cum. - 3 Sets 31-50 Cum. - 4 Sets Above 51 Cum, 1 additional set for every additional 50 Cum.	10 45	11 725.00	12 32625.00
	Rigid Pavement			Cr Metal	0.8500	2788.04	Concrete Mix Design (With all Tests on basic materials)	Mix Design - 1 Test for 500 cum	6	14445.00	86670.00
							Concrete Mix Design PQC/DLC by Normal curing method	Mix Design - 1 Test for 500 cum	1	17065.00	17065.00
				Sand	0.4000	1312.02	BASIC TEST OF AGGREGATE, Sieve Analysis test.	For Concrete- 1 Test per 200 Cum, For W.B.M.- 1 Test per 250 cum For M.P.M./BUSG - 1 Test per 100 cum For B.T.- 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M.- 1 Test per 200 cum	10	725.00	7250.00
					0.0000		BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum, For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	10	895.00	8950.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajani Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control

Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	10	11	12
							FINE AGGREGATES: Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	Sand - 1 Test per Source	1	1450.00	1450.00
							CONCRETE Flexural strength of Beam test.	For Rigid Pavement- 2 Tests for 150 cum.	35	780.00	27300.00
13	Coloured Paving Blocks 60 mm thick.	978.75	Square Metre		0.0000	0.00	CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test (Set of 8 Blocks).	1 Set per 50,000 No.	2	2620.00	5240.00
14	Providing and fixing heavy duty inter locking concrete Coloured paving blocks of 80 millimetre 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 millimetre thick including skirting joints and cleaning etc complete	978.75	Square Metre		0.0000	0.00	CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test (Set of 8 Blocks).	1 Set per 50,000 No.	2	2620.00	5240.00
15	75 mm M.P.M. on W.B.M. with 70% Hand Broken Metal.	5.00	Square Metre	Bitumen	0.00200	0.01	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	For W.B.M./W.M.M. - 1 Test per 1000 cum For B.T. - 1 Test per Source For BUSG - 1 Test per 200 cum	1	2730.00	2730.00
	Road Sub Base & Base Course			Cr Metal	0.0450	0.23	BASIC TEST OF AGGREGATE, Sieve Analysis test.	For Concrete- 1 Test per 200 Cum. For W.B.M. - 1 Test per 250 cum For M.P.M./BUSG - 1 Test per 100 cum For B.T. - 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M. - 1 Test per 200 cum	2	725.00	1450.00
				Metal	0.0630	0.32	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00	895.00
							BASIC TEST OF AGGREGATE, Stripping Value test.	For W.B.M. - Not Req. For B.T. - 1 Test for Source.	1	780.00	780.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control											
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	2	3	4	5	6	7	8	9	10	11	12
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1 Test per Bouzer	1	3290.00	3290.00
							BITUMEN Viscosity test.	1 Test per Bouzer	1	2005.00	2005.00
16	75 mm M P M on B.T. with 70% Hand Broken Metal	5.00	Square Metre	Bitumen	0.00230	0.01	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	For W.B.M./W.M.M. - 1 Test per 1000 cum For B.T. - 1 Test per Source For BUSG - 1 Test per 200 cum	1	2730.00	2730.00
	Road Sub Base & Base Course			Cr. Metal	0.0450	0.23	BASIC TEST OF AGGREGATE, Sieve Analysis test.	For Concrete- 1 Test per 200 Cum. For W.B.M. - 1 Test per 250 cum For M.P.M./BUSG - 1 Test per 100 cum For B.T. - 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M. - 1 Test per 200 cum	2	725.00	1450.00
				Metal	0.0630	0.32	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00	895.00
							BASIC TEST OF AGGREGATE, Stripping Value test.	For W.B.M. - Not Reqd. For B.T. - 1 Test for Source.	1	780.00	780.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1 Test per Bouzer	1	3290.00	3290.00
							BITUMEN Viscosity test.	1 Test per Bouzer	1	2005.00	2005.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1 Test per Bouzer	1	3290.00	3290.00
							BITUMEN Viscosity test.	1 Test per Bouzer	1	2005.00	2005.00
17	B.M. Gr-I with Batch Mix SCAIDA with 3.0% Bitumen VG-30.	12.00	Cubic Metre	Bitumen	0.07260	0.73	B.M. Mix Design with all Tests on aggregate and bitumen	1 Test	1	11155.00	11155.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control

Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
1	Road Sub Base & Base Course	3	4	5 Cr Metal	6 1.4100	7 14.10	8 BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	9 For concrete 1 Test 200 Cum. For GSB/W B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	10 1	11 895.00	12 895.00
					0.0000		BASIC TEST OF AGGREGATE, Stripping Value test.	For W.B.M. - Not Reqd. For B.T. - 1 Test for Source.	1	780.00	780.00
				Bituminous Mix	1.4100	14.10	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	For W.B.M./W.M.M. - 1 Test per 1000 cum For B.T. - 1 Test per Source For BUSG - 1 Test per 200 cum	1	2730.00	2730.00
							Density test of Bituminous Core.	1 Test per 700 Sqm.	1	665.00	665.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1 Test per Bouzer	1	3290.00	3290.00
							BITUMEN Viscosity test	1 Test per Bouzer	1	2005.00	2005.00
							BITUMEN Extraction Test.	Max. of 2 Test per Day for O.G.C. For DBM/BC 1 Tests per 400 MT	2	1675.00	3350.00
							BASIC TEST OF AGGREGATE, Sieve Analysis test.	For Concrete- 1 Test per 200 Cum. For W.B.M. - 1 Test per 250 cum For M.P.M./BUSG - 1 Test per 100 cum For B.T. - 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M. - 1 Test per 200 cum	2	725.00	1450.00
							Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	1 Test	2	4125.00	8250.00
18	B.M. Gr-I 3.5% PLC Batch Mix SCADA. VTS. Sensor Paver with VG 30	3.60	Cubic Metre	Bitumen	0.07260	0.22	B.M. Mix Design with all Tests on aggregate and bitumen	1 Test	1	11155.00	11155.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control

Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges	
		Quantity	Unit								10	11
1	Road Sub Base & Base Course	3	4	5	6	7	8	9	10	11	12	
				Cr. Metal	1.4100	4.23	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00		895.00
					0.0000		BASIC TEST OF AGGREGATE. Stripping Value test.	For W.B.M.- Not Reqd. For B.T.- 1 Test for Source.	1	780.00		780.00
				Bituminous Mix	1.4100	4.23	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	For W.B.M./W.M.M. - 1 Test per 1000 cum For B.T. - 1 Test per Source For BUSG - 1 Test per 200 cum	1	2730.00		2730.00
							Density test of Bituminous Core.	1 Test per 700 Sqm.	1	665.00		665.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1 Test per Bouzer	1	3290.00		3290.00
							BITUMEN Viscosity test.	1 Test per Bouzer	1	2005.00		2005.00
							BITUMEN Extraction Test.	Max. of 2 Test per Day for O.G.C. For DBM/BC 1 Tests per 400 MT	2	1675.00		3350.00
							BASIC TEST OF AGGREGATE. Sieve Analysis test.	For Concrete- 1 Test per 200 Cum. For W.B.M.- 1 Test per 250 cum For M.P.M./BUSG - 1 Test per 100 cum For B.T. - 2 Test per day per plant (Before and After Mix) For GSB- 1 Test per 400 cum For W.M.M. - 1 Test per 200 cum	2	725.00		1450.00
							Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	1 Test	2	4125.00		8250.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control

Sr No.	Item in brief	Estimated Unit		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges	
		Quantity	3								10	11
19	DBM 4 5% SCADA Batch Mix with VG-30 and Stone Dust Filler	107.73	Cubic Metre	Bitumen	0.10350	8.94	8 BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	9 For W.B.M./W.M.M. - 1 Test per 1000 cum For B.T. - 1 Test per Source For BUSG - 1 Test per 200 cum	1	2730.00	12	2730.00
	Road Sub Base & Base Course			Cr. Metal	1.5280	132.02	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00		895.00
					0.0000		Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	1 Test	2	4125.00		8250.00
							Density test of Bituminous Core.	1 Test per 700 Sqm.	3	665.00		1995.00
							Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/AC	1 Test	1	20355.00		20355.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1 Test per Bouzer	1	3290.00		3290.00
							BITUMEN Viscosity test.	1 Test per Bouzer	1	2005.00		2005.00
							BITUMEN Extraction Test.	Max. of 2 Test per Day for O.G.C. For DBM/BC 1 Tests per 400 MT	1	1675.00		1675.00
							Marshall Stability & Flow measurement test. (Set of 3 moulds)	For DBM/BC 1 Test per 400 M.T. of Mix/ Min. 2 Tests per day	1	1170.00		1170.00

Name of Work:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Quality Control											
Sr No.	Item in brief	Estimated		Material	Standard Consumpt	Utilised Quantity	Tests	Norms	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit								
20	B.C Batch Mix SCADA. VTS. Sensor Paverwith 6.25% VG 30.	71.82	Cubic Metre	Bitumen	0.12960	7.46	8 BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	9 For W.B.M./W.M.M.- 1 Test per 1000 cum For B.T.- 1 Test per Source For BUSG- 1 Test per 200 cum	10 1	2730.00	2730.00
	Road Sub Base & Base Course			Cr Metal	1.5720	90.55	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	For concrete 1 Test 200 Cum. For GSB/W.B.M./W.M.M. 1 Test per 500 cum For M.P.M./BUSG- 1 Test per 200 cum For BM/DBM/BC - 1 Test per 350 cum	1	895.00	895.00
					0.0000		Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	1 Test	2	4125.00	8250.00
							Density test of Bituminous Core.	1 Test per 700 Sqm.	2	665.00	1330.00
							Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/AC	1 Test	1	20355.00	20355.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1 Test per Bouzer	1	3290.00	3290.00
							BITUMEN Viscosity test.	1 Test per Bouzer	1	2005.00	2005.00
							BITUMEN Extraction Test.	Max. of 2 Test per Day for O.G.C. For DBM/BC 1 Tests per 400 MT	1	1675.00	1675.00
							Marshall Stability & Flow measurement test. (Set of 3	For DBM/BC 1 Test per 400 M.T. of Mix/ Min 2 Tests per day	1	1170.00	1170.00
21	Road Marking with Hot Applied Thermoplastic Compound.	1458.60	Square Metre		0.0000	0.00	PAINT / THERMO-PLASTIC PAINT Glass bead contents & grading analysis Test.	1 Test	1	4070.00	4070.00

Quality Control

Total Quality Control Testing Charges

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

Deputy Engineer
PWD Panchavati, NMC Nashik.

Executive Engineer
PWD Panchavati, NMC Nashik

2-A3

NASHIK MUNICIPAL CORPORATION



TYPICAL CROSS SECTION (TCS)



2-A3

D

C

B

A

30

30

20

20

FORMATION WIDTH 10500

EXISTING CARRIAGE WAY

PROPOSED WORK SCOPE

Bituminous Concrete (B. C) 40 MM thick
60MM thick DBM Layer

G.L.

EXISTING CRUST

G.L.

ON EXISTING PORTION

- 1) 40mm Bituminous Concrete (B. C)
- 2) 60mm DBM Layer
- 3) 50% BM as correction layer

NOTE :- ALL DIMENSIONS ARE IN MM

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

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

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

TCS 1

10

10

REMARK	NO	DATE	REMARK	CLIENT:	DPR CONSULTANT:	PREPARED BY:	PROJECT NAME:
				 NASHIK MUNICIPAL CORPORATION Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra	 CIVILTECH INDIA PVT.LTD. Plot No. B-45 , NICE Industrial Area, MIDC, Satpur NASHIK - 422007 CALL - (0253)3508900,(0253)2575282 MOB - 8600134999	LAXMI L. SURYAWANSHI	Proposed Developing of Road from Ramkund to sarvajanik vachnalaya to panvchavati kranja ti nimani chowk to katyamaruti chowk to NH3. , NMC, Nashik.
						CHECKED BY: MADHUMATI HERAKAL	
						APPROVED BY:	
							TITLE: Ramkund to Sarvajanik Vachnalaya TYPICAL CROSS SECTION
							REVISION RO

D

C

B

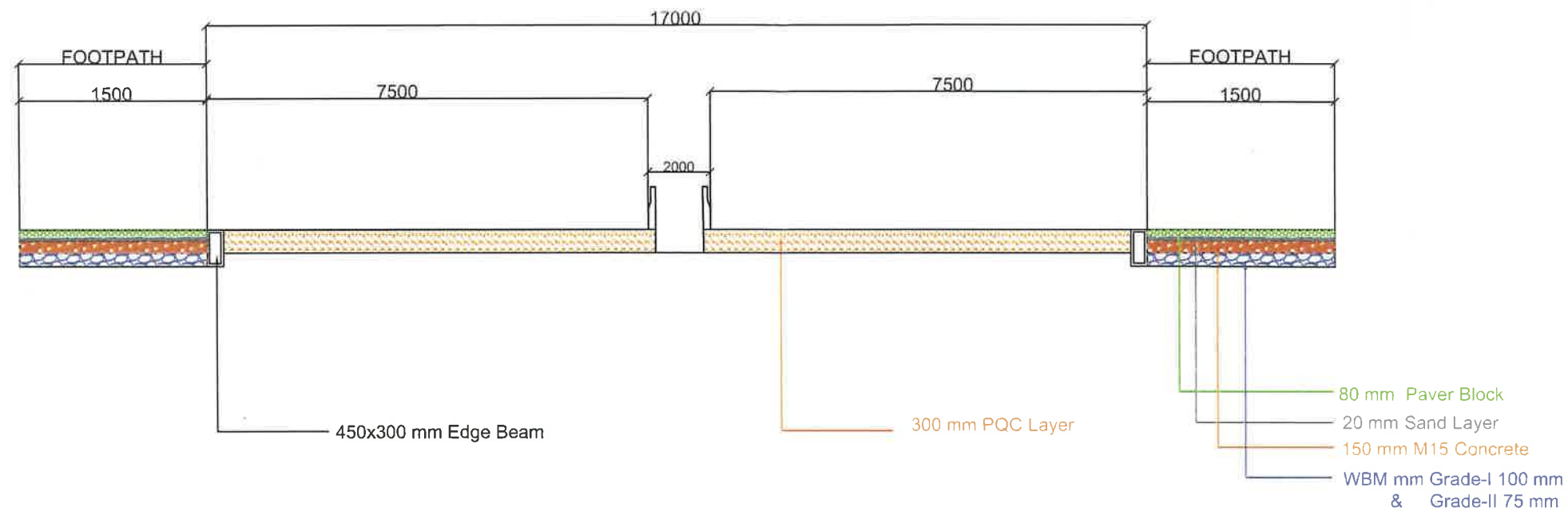
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B

A



ROAD MEDIAN CROSS SECTION

Panel Replacenment (10%)

TCS 2

JE/AE/Sect. Engineer,
Public Work Division Panchavati
Nashik Muncpal Corpoation,Nashik

Divisional Engineer,
Public Work Division Panchavati
Nashik Muncpal Corporation,Nashik

Executive Engineer,
Public Work Division Panchavati
Nashik Muncpal Corporation,Nashik

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: Proposed Developing of Road from Ramkund to sarvajanik
vachnalaya to panvchavati kranja ti nimani chowk to
katyamaruti chowk to NH3. , NMC, Nashik.

TITLE: Sarvajanik Vachnalaya to Panchavati Karanja to
Nimani Chowk

TYPICAL CROSS SECTION

REVISION

RO

D

C

B

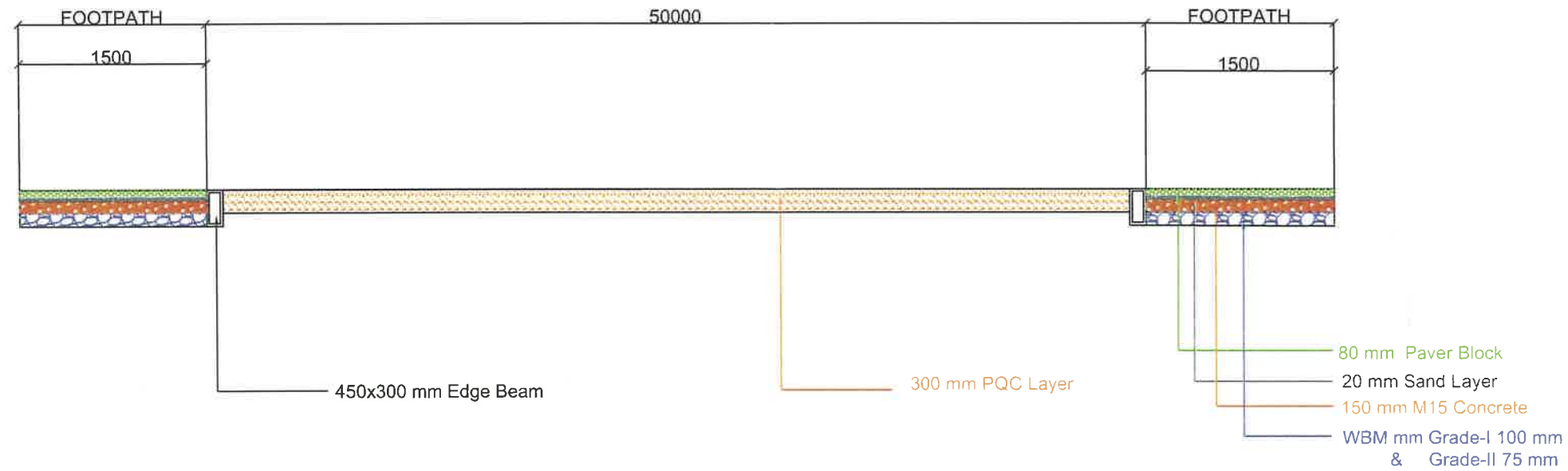
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Panel Replacenment

JE/AE-I/Sect. Engineer,
Public Work Division Panchavati
Nashik Municipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation,Nashik

Executive Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation,Nashik

TCS 3

10

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	PROJECT NAME: Proposed Developing of Road from Ramkund to sarvajanik vachnalaya to panvchavati kranja ti nimani chowk to katyamaruti chowk to NH3. , NMC, Nashik.		
						CHECKED BY: MADHUMATI HERAKAL			
						APPROVED BY:	TITLE: Nimani Chowk		REVISION
							TYPICAL CROSS SECTION		RO

D

C

B

A

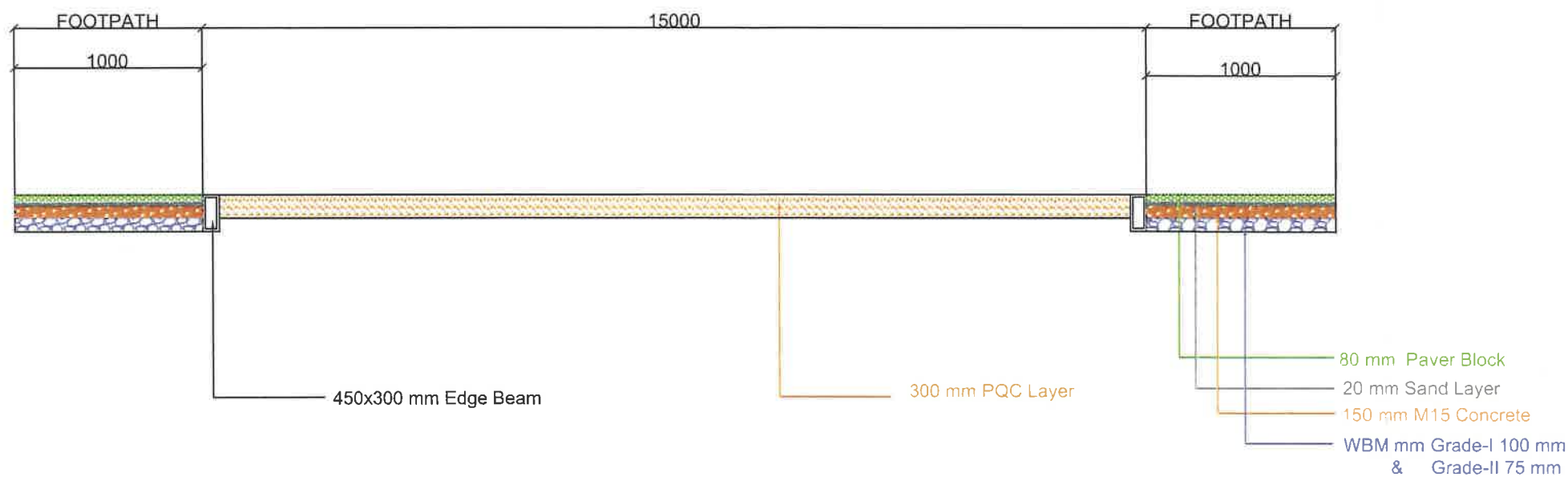
10

D

C

B

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Panel Replacenment (25%)

TCS 4

JE/AE-I/Sect. Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation, Nashik

Divisional Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation, Nashik

Executive Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation, Nashik

10

REMARK	NO	DATE	REMARK	CLIENT:	DPR CONSULTANT:	PREPARED BY:	PROJECT NAME:	TITLE:	REVISION
				 NASHIK MUNICIPAL CORPORATION Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005, Maharashtra	 CIVIL TECH INDIA PVT. LTD. Plot No. B-45, NICE Industrial Area, MIDC, Satpur NASHIK - 422007 CALL - (0253)3508900, (0253)2575282 MOB - 8600134999	LAXMI L. SURYAWANSHI CHECKED BY: MADHUMATI HERAKAL APPROVED BY:	Proposed Developing of Road from Ramkund to sarvajanik vachnalaya to panvchavati kranja ti nimani chowk to katyamaruti chowk to NH3., NMC, Nashik.	Puriya parl to RP Vidyalaya TYPICAL CROSS SECTION	RO

D

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D

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B

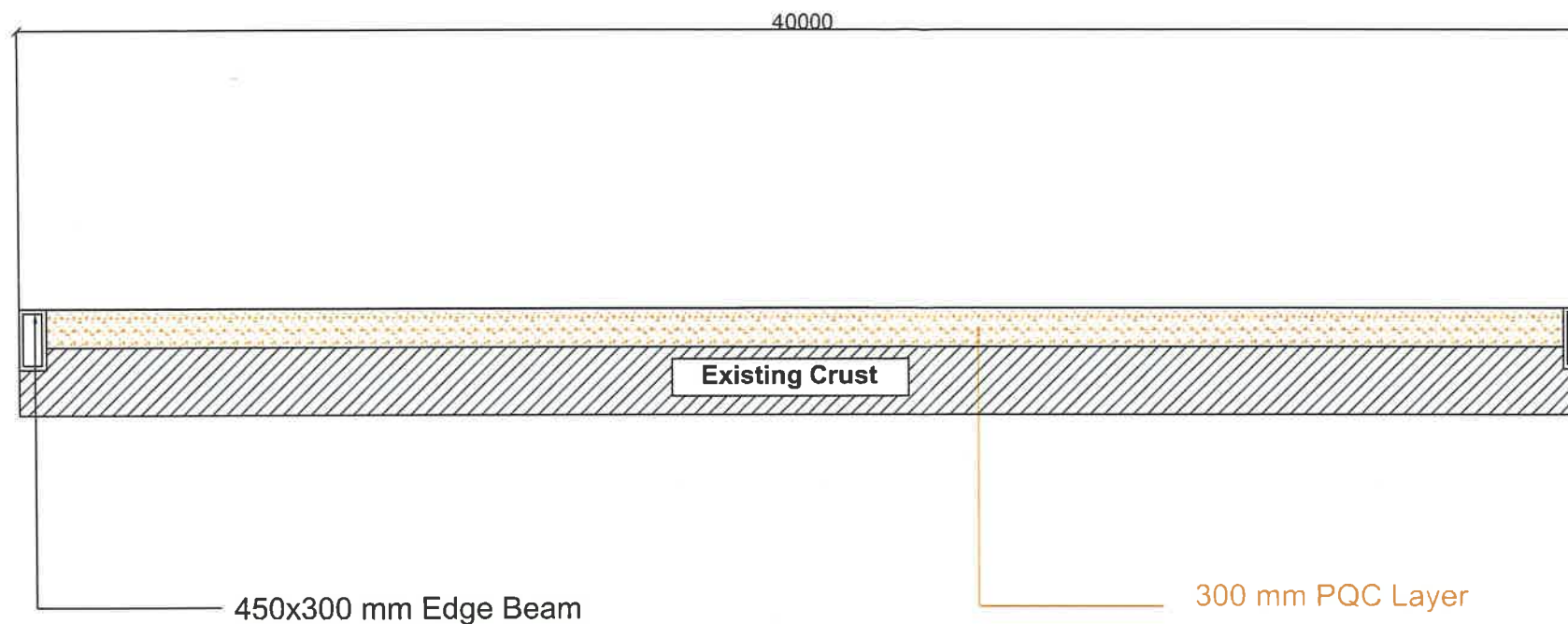
A

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20

20



Panel Replacenment

TCS 5

JE/AE-I/Sect. Engineer,
Public Work Division Panchavati
Nashik Muncpal Corpoation,Nashik

Divisional Engineer,
Public Work Division Panchavati
Nashik Muncpal Corporation,Nashik

Executive Engineer,
Public Work Division Panchavati
Nashik Muncpal Corporation,Nashik

10

10

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	PROJECT NAME: Proposed Developing of Road from Ramkund to sarvajanik vachnalaya to panvchavati kranja ti nimani chowk to katyamaruti chowk to NH3. , NMC, Nashik.			
								CHECKED BY: MADHUMATI HERAKAL	TITLE: Nimani Busstand TYPICAL CROSS SECTION	
								APPROVED BY:		
									RO	

D

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B

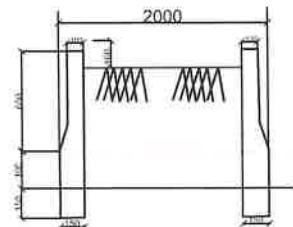
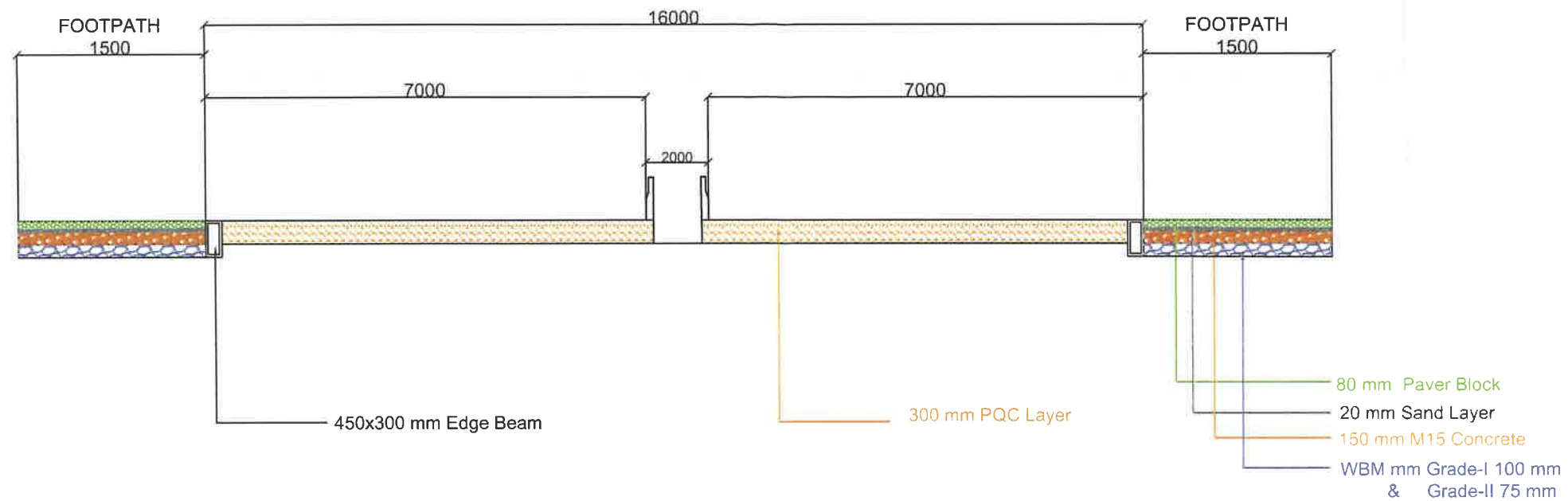
A

D

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A



ROAD MEDIAN CROSS SECTION

Panel Replacenment (20%)**TCS**

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

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

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

10

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: Proposed Developing of Road from Ramkund to sarvajanik vachnalaya to panvchavati kranja ti nimani chowk to katyamaruti chowk to NH3. , NMC, Nashik.	
							TITLE: Nimani to Katayamaruti Chowk to NH3 TYPICAL CROSS SECTION	REVISION
								RO

D

C

B

A

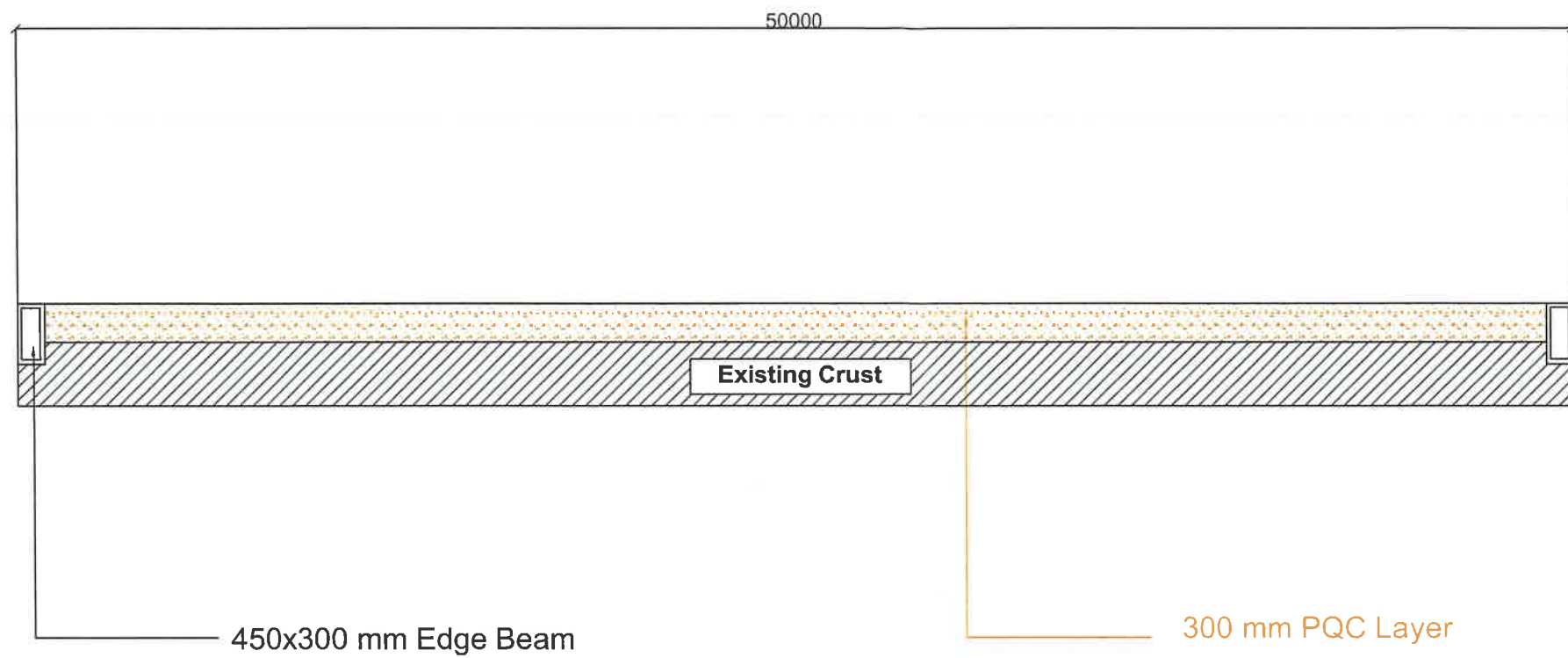
10

D

C

B

A



Panel Replacenment

JE/AE-II/Sect. Engineer,
Public Work Division Panchavati
Nashik Municipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation,Nashik

Executive Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation,Nashik

TCS 7

10

REMARK	NO	DATE	REMARK	CLIENT:	DPR CONSULTANT:	PREPARED BY:	PROJECT NAME:	
				 NASHIK MUNICIPAL CORPORATION Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra	 CIVILTECH INDIA PVT.LTD. Plot No. B-45 , NICE Industrial Area, MIDC, Satpur NASHIK - 422007 CALL - (0253)3508900,(0253)2575282 MOB - 8600134999	LAXMI L. SURYAWANSHI	Proposed Developing of Road from Ramkund to sarvajanik vachnalaya to panvchavati kranja ti nimani chowk to katyamaruti chowk to NH3. , NMC, Nashik.	
						CHECKED BY:		
						MADHUMATI HERAKAL		
						APPROVED BY:		
						TITLE: Katyamaruti Chowk		
						TYPICAL CROSS SECTION		
						REVISION		
						RO		

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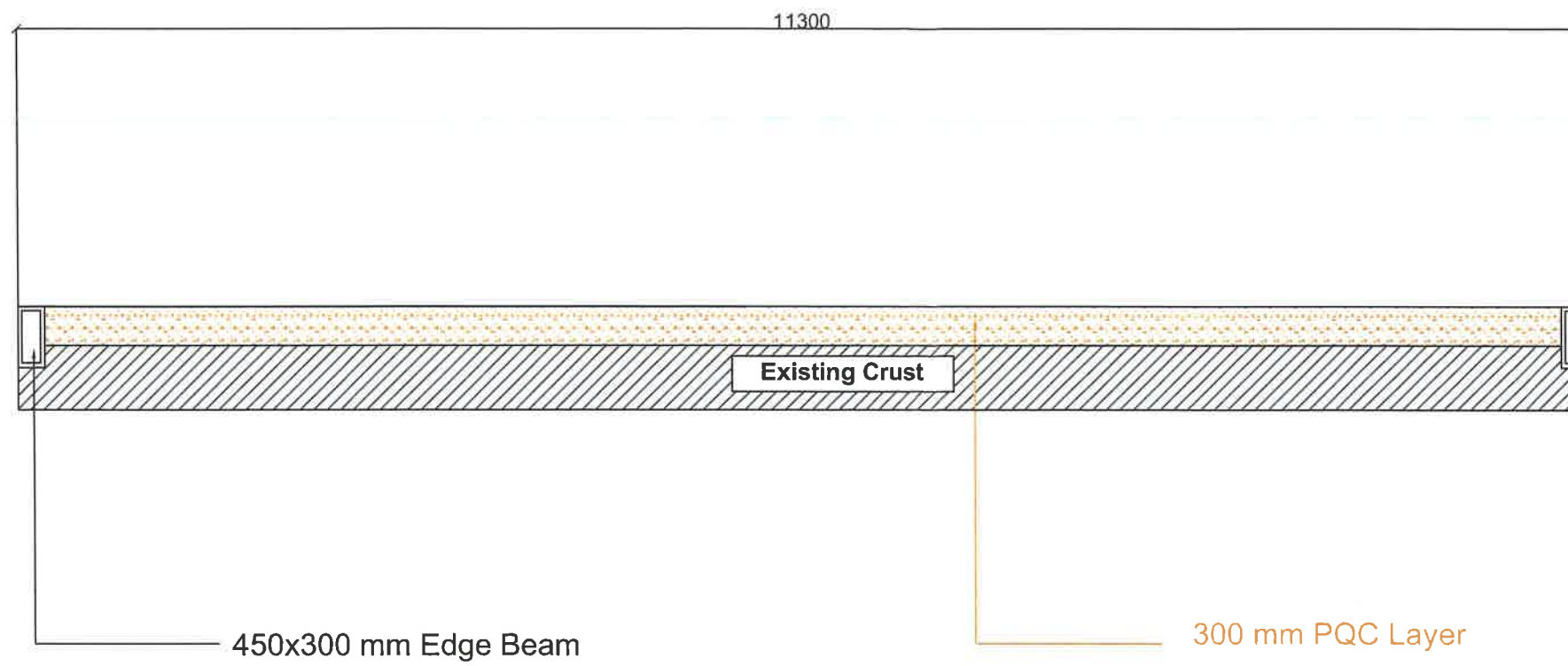
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Panel Replacenment (70%)

TCS 7

JE/AE-I/Sect. Engineer,
Public Work Division Panchavati
Nashik Municipal Corpoation,Nashik

Divisional Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation,Nashik

Executive Engineer,
Public Work Division Panchavati
Nashik Municipal Corporation,Nashik

10

REMARK	NO	DATE	REMARK	CLIENT:	DPR CONSULTANT:	PREPARED BY:	PROJECT NAME:	TITLE:	REVISION
				 NASHIK MUNICIPAL CORPORATION Office Address: Nashik Municipal Corporation Rajiv Gandhi Bhavan, 3rd Floor, Nashik, Sharanpur Road, Nashik 422005,Maharashtra	 CIVILTECH INDIA PVT.LTD. Plot No. B-45 , NICE Industrial Area, MIDC, Satpur NASHIK - 422007 CALL - (0253)3508900,(0253)2575282 MOB - 8600134999	LAXMI L. SURYAWANSHI	Proposed Developing of Road from Ramkund to sarvajanjik vachnalaya to panvchavati kranja ti nimani chowk to katyamaruti chowk to NH3. , NMC, Nashik.	Katyamaruti Chowk to Devi Temple TYPICAL CROSS SECTION	RO
						CHECKED BY:			
						MADHUMATI HERAKAL			
						APPROVED BY:			

D

C

B

A

10



महाराष्ट्र शासन

नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण

मध्यवर्ती प्रशासकीय इमारत, नाशिक रोड, नाशिक - 422101

दुरध्वनी क्र. 0253-2461909

Email- kumbhmela.2027@mah.gov.in

जा.क्र. नात्र्यंकुंप्रा/प्रमा/मनपारस्ते/2025/153

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. नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची बैठक दिनांक 12/09/2025 ठराव क्रमांक 02.

5. मा. आयुक्त, नाशिक महानगरपालिका, नाशिक यांचे पत्र क्रमांक साबांवि/डेस्क - 8/05/2025 दिनांक 16/10/2025.

6. मा. आयुक्त, नाशिक महानगरपालिका, नाशिक यांचे पत्र क्रमांक साबांवि/डेस्क- 8 /09/2025 दिनांक 30/10/2025.

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	नाशिक रोड येथील मालधक्का रोड व रेल्वेस्टेशन जोडरस्ते विकसित करणे. (काँक्रीट + डांबरीकरण)	10.05	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
2	नाशिक रोड येथील छत्रपती शिवाजी महाराज पुतळा ते डाँ बाबासाहेब आंबेडकर चौक ते	11.65	मार्च 2027 पर्यंत	नाशिक महानगरपालिका

अ.क्र.	कामांचे नाव	प्रशासकीय मान्यता रक्कम (रुपये कोटी)	काम पूर्ण करण्याची मुदत	कार्यान्वयन यंत्रणा
	सत्कार पॉइंट रस्ता सुधारणा करणे. (कोंक्रीट + डांबरीकरण)			
3	अमृत मिरवणूक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (कोंक्रीट)	25.00	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
4	मुंबई नाका ते गडकरी सिग्नल ते त्र्यंबक नाकापर्यंत रस्ता विकसित करणे. (व्हाईट टॉपिंग)	14.43	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
5	चांदशी पूल ते जेहान सर्कल ते एबीबी सर्कल ते सिटी सेंटर मॉल पूल (नंदिनी नदी) पर्यंतचा मध्य रिंग रोड विकसित करणे. (डांबरीकरण)	59.59	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
6	सिटी सेंटर मॉल पुल ते इंदिरा नगर अंडर पास पावेतो रस्ता विकसित करणे. (डांबरीकरण)	13.19	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
7	अ) टाकळी मलनिःसारण केंद्र पुल ते निलगिरी बाग ते राष्ट्रीय महामार्ग क्र. 3 पावेतोचा रस्ता विकसित करणे. (डांबरीकरण) ब) रासबिहारी शाळा रा.म. क्रमांक 3 ते राजस्वीट चौक, दिंडोरी रोड ते आरटीओ कार्यालय पेठ रोड ते मखमलाबाद रोड पावेतोचा रस्ता विकसित करणे. (कोंक्रीट)	129.23	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
8	पिंपळगाव खांब फाटा ते वडनेर गेट पावेतोचा रस्ता विकसित करणे. (डांबरीकरण)	18.00	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
9	नाशिक पाथर्डी फाटा ते पाथर्डी गाव ते पिंपळगाव खांब फाटा पावेतो रस्ता विकसित करणे. (डांबरीकरण)	17.41	मार्च 2027 पर्यंत	नाशिक महानगरपालिका
	एकूण	298.55		

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 आठ वर नमूद पिंपळगाव खांब फाटा ते वडनेर गेट पावेतोचा रस्ता विकसित करणे 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 शासन, संबंधित विभाग आणि इतर सक्षम प्राधिकारी (उदा. केंद्रीय सतर्कता आयोग) व मा. न्यायालय व न्यायाधीकरणे (उदा. राष्ट्रीय हरीत न्यायाधीकरण) यांनी वेळोवेळी निर्गमित केलेल्या मार्गदर्शक सूचनांचे आणि आदेशांचे पालन करावे लागेल.
२. संबंधित कार्यान्वयीन यंत्रणेला शासनाच्या, संबंधित विभागांच्या आणि इतर सक्षम प्राधिकार्यांच्या (उदा. केंद्रीय सतर्कता आयोग) यांनी वेळोवेळी निर्गमित केलेल्या मार्गदर्शक सूचनांचे पालन करावे लागेल.
३. नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण आणि जिल्हास्तरीय सिंहस्थ कुंभमेळा कार्यकारी समिती, नाशिक यांचे मार्फत वेळोवेळी दिलेल्या निर्देशांचे पालन संबंधित कार्यान्वयीन यंत्रणेला करावं लागेल.
४. नाशिक त्र्यंबकेश्वर कुंभमेळा अधिनियम २०२५ मधील सर्व तरतूदी या कामाला लागू राहतील.
५. सदर कामावर नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणामार्फत निर्देशित केल्यानुसार कामाच्या जागेवर माहिती दर्शविणारा फलक लावावा लागेल.
६. सदर काम किंवा त्याचा कोणताही घटक इतर कोणत्याही योजनेत मान्य झाले नाही अथवा करण्यात आले नाही याची खात्री कार्यान्वयीन यंत्रणेने करावी.
७. सदर काम पूर्ण झाल्यावर त्याचा केवळ सार्वजनिक वापर होणार असून कोणत्याही स्वरूपाचा खाजगी वापर होणार नाही याची दक्षता कार्यान्वयीत यंत्रणेने घ्यावी.
८. 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.
९. खरेदीच्या कामांबाबत शासनाने वेळोवेळी निर्गमित केलेल्या निर्देशांचे पालन करावे. तसेच वस्तुंची अथवा इतर बाबींची खरेदी शासनाच्या GeM पोर्टलवरून अथवा शासनाच्या इतर मार्गदर्शक सूचनांनुसारच करावी.
१०. मंजूर अनुदानापेक्षा (प्रशासकीय मान्यता रकमेपेक्षा) जास्त खर्च करता येणार नाही. तसेच कामाचे भाग पाडून काम करता येणार नाही.
११. 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.
१२. सर्व कामांच्या जागांचे कामाचे काम सुरू करण्यापूर्वी कोणतीही जागा सुटणार नाही अशाप्रकारे दिनांक नमूद करून व्हिडिओ शूटिंग करावे आणि जियो स्टॅम्प आणि जियो टॅग 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 जेणेकरून याला भविष्यात योग्य त्या संकेतस्थळावर जाहीररित्या प्रदर्शित करता येईल.

१३. नियोजन विभागाच्या दिनांक 09 जून 2025 रोजीच्या शासन निर्णयानुसार प्रत्येक पायाभूत विकास प्रकल्पांसाठी युनिक पायाभूत सुविधा आयडी पोर्टल (Infra ID Portal) कार्यान्वित करणे बाबत दिलेल्या सूचनांचे कार्यान्वयीन यंत्रणेने पालन करावे व त्यानुसार कार्यवाही करावी.
१४. प्रकल्प व्यवस्थापनाच्या दृष्टीने वेळोवेळी दिलेल्या निर्देशानुसार आवश्यक ती माहिती नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाला सादर करावी.
१५. मंजूर करण्यात येत असलेल्या वरील कामांची भविष्यातील देखभाल दुरुस्तीचा खर्च कार्यान्वयीन यंत्रणेने स्वतःच्या निधीतून करावा अथवा हस्तांतरण करून घेणाऱ्या यंत्रणेने करावे.
१६. सदर कामांचा कोणत्याही उपांगांचे काम इतर कोणत्याही शीर्ष अथवा योजनेतून प्रस्तावित नाही आणि/ किंवा झाले नाही याची खात्री कार्यान्वयीन यंत्रणेने काम सुरु करण्यापूर्वी करावी.
१७. सदर कामांची संक्षम प्राधिकाऱ्याकडून तांत्रिक मान्यता घेणे बंधनकारक आहे.
१८. सदर कामाचे पर्यवेक्षण आणि नियंत्रण संबंधित कार्यान्वयीन यंत्रणेने करावे.
१९. सदर कामाचा दर्जा/ गुणवत्ता आणि वेग तपासण्यासाठी, त्याचप्रमाणे कार्यान्वयीन यंत्रणेच्या कामकाजाचे मूल्यमापन करण्यासाठी त्रयस्थ 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.
२०. थर्ड पार्टी इन्स्पेक्शन बदल आवश्यक ती तरतूद अंदाजपत्रकात करावी.
२१. निविदा प्रक्रियेमध्ये सर्वसाधारण पात्रते (eligibility) संबंधात निकष सर्वसाधारणपणे त्या त्या विभागाचे नेहमीचे जशी असतात त्या पद्धतीने ठेवावे जेणेकरून स्पर्धा चांगली होईल. तथापि दर्जा उत्तम राखण्यासाठी दंडात्मक (penalty च्या) तरतुदी अधिक कठोर करायचे असल्यास तशी मुभा संबंधित विभागाला राहिल.
२२. कामे हाती घेताना शासनाच्या संबंधित विभागाच्या / कार्यालयांच्या मार्गदर्शक सूचना विचारात घ्याव्यात (उदा. अग्नीशमन 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 आणि गुणवत्तेनुसार पार पाडण्याची जबाबदारी संबंधित कार्यान्वयीन यंत्रणेच्या कार्यालय प्रमुखाची राहिल याची नोंद घ्यावी.
२३. सदर कामांची प्रस्तावित रक्कम ही कामे पूर्ण करून ती कुंभमेळ्यासाठी प्रत्यक्षात उपयोगाला येण्याच्या दृष्टीने आणि कार्यान्वित होण्याच्या दृष्टीने परिपूर्ण प्रकारे प्रस्तावित केली आहे, असे गृहीत धरण्यातून ही प्रक्रिया करण्यात येत आहे. उदा. एखाद्या कामासाठी भूसंपादन किंवा तिथे पोहचण्यासाठी अप्रोच रोड किंवा फर्निचर/ विद्युतीकरण ते या कामाचा भाग आहे, असे गृहीत धरण्यात येत आहे. तसेच कामाशी निगडित नसलेली कामे घेतलेले नाही (उदा. कार्यालयीन गाड्यांचे भाडे) असे गृहीत धरण्यात येत आहे याची नोंद कार्यान्वयीन यंत्रणेने घ्यावी.
२४. सदर कामाचे आवश्यक ते अभिलेख तयार करण्याची आणि अभिलेख जतन करण्याची जबाबदारी संबंधित कार्यान्वयीन यंत्रणेची राहिल.

२५. या कामाबाबत उद्भवणाऱ्या न्यायालयीन, कायदेशीर आणि लेखापरीक्षण विषयक बाबींसाठी संबंधित कार्यान्वयीन यंत्रणा जबाबदार आहे.
२६. काम पूर्ण झाल्यानंतर कामाच्या पूर्णत्वाचा दाखला व कामावर केलेल्या खर्चाचे उपयोगीता प्रमाणपत्र 30 दिवसात सादर करावे.
२७. या कामांवर होणारा खर्चाचा हिशेब स्वतंत्रपणे ठेवण्यात यावा. तसेच कामावर झालेला खर्च वजा जाता शिल्लक रक्कम या कार्यालयाकडे 15 दिवसात वर्ग करावी. कामावर झालेली बचत इतर कामांवर वळती करण्यात येवू नये.
२८. सदर कामासाठी आवश्यक असलेली जागा कायदेशीररित्या ताब्यात घेण्याची जबाबदारी संबंधित कार्यान्वयीन यंत्रणेची राहिल.
२९. सदर काम करीत असताना आवश्यक असणाऱ्या केंद्र शासन, राज्य शासन, स्थानिक स्वराज्य संस्था किंवा कोणत्याही प्राधिकार्याच्या आवश्यक असणाऱ्या, कायदेशीर व इतर परवानग्या प्राप्त करून घेण्याची जबाबदारी संबंधित कार्यान्वित यंत्रणेची राहिल.
३०. सदरचा प्रशासकीय मान्यतेचा आदेश नगर विकास विभागाच्या मागणी क्र.एफ-2, मुख्य लेखाशिर्ष 2217B357, 191, स्थानिक संस्था, महानगरपालिका, नगरविकास प्राधिकरणे, शहर सुधार मंडळे, इत्यादींना सहाय्य, 31 सहायक अनुदाने (वेतनेतर) (00) (00) (97) सिंहस्थ कुंभमेळ्याचे नियोजन व अंमलबजावणी यावरील खर्चाकरिता सहायक अनुदान (कार्यक्रम) कुंभमेळा निधी संबंधित शीर्षातून देण्यात येत आहे. तथापि शासनस्तरावर किंवा प्राधिकरणात इतर शीर्षातून किंवा योजनेतून सदरचा खर्च करण्याचा निर्णय झाल्यास त्याप्रमाणे निधी उपलब्ध केला जाईल.
३१. नाशिक महानगरपालिकेने कुंभमेळा संबंधित कामांवर त्यांच्या निधीतील किती टक्के वाटा उचलायचा हे ठरलेले नाही. याबाबत शासनस्तरावर होणारा निर्णय महानगरपालिकेला बंधनकारक राहिल आणि त्यानुसार तसा वाटा त्यांना उचलणे बंधनकारक राहिल.

Signed by

Ayush Prasad (विभागीय आयुक्त)

Date: 15-11-2025 21:47:00
अध्यक्ष, नाशिक ज्येष्ठ नगरपालिका, कुंभमेळा प्राधिकरण, नाशिक
विभागीय आयुक्त, नाशिक

प्रति,

आयुक्त, नाशिक महानगरपालिका, नाशिक.



नाशिक महानगरपालिका, नाशिक.



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जा.क्र.साबांवि/डेस्क-८/२१ /२०२६

दि.३०/०९/२०२६

प्रति

मे.एफ.सी.रॉड्रीक्स

नाशिक

विषय- अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणए

उपरोक्त कामास दि. / /२०२६ अन्वये मंजुर झालेले असल्याने सदरचे पत्र मिळाले पासून २ दिवसांचे आत कागदपत्रांची पूर्तता करावी.

१. रक्कम रुपये १०,२०,५०० /- (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 ६,१२,०००/- स्टॅम्प पेपर व रुपये २०/- रुपये चे कोर्ट फी स्टॅम्प फी सादर करावी.

वरील कागदपत्रांची करारनामा करणे कामी त्वरीत पूर्तता करावी, मुदतीत पूर्तता न केल्यास आपणास काम करावयाचे नाही असे समजून पुढील कार्यवाही करण्यात येईल याची नोंद घ्यावी.

कार्यकारी अभियंता

सार्वजनिक बांधकाम विभाग

नाशिक महानगरपालिका, नाशिक



नाशिक महानगरपालिका
Nashik Municipal Corporation

Rajeev Gandhi Bhavan, Sharanpur Road (Post Box No.१२), Nashik — ४२२ ००२

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जा.क्र.साबांवि/डेस्क-२/२०१/२०२६
दिनांक-२३/०१/२०२६

प्रति,

मे.एफ.सी.रॉड्रीक्स एलएलपी,
निविदाधारक, नाशिक

विषय :- अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (क्रॉक्रीट)
(फेरनिविदा)

संदर्भ :- १) ई-निविदा सु.क्र.६०/०१ 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 १८.६९० % इतक्या कमी** दराची निविदा दाखल केली आहे. तुम्ही दाखल केलेल्या निविदेच्या दराबाबत चर्चा करावयाची असून पुढील निर्णय घ्यावयाचा आहे. मा.आयुक्त सो.यांचा निर्देशानुसार, कुंभमेळा दृष्टीकोनातून महत्वपूर्ण सदर रस्त्याच्या कामा संबंधाने वाटाघाटी करून आपण सादर केलेला देकार अजून कमी करावा. त्याच बरोबर सादर केलेल्या दराबाबत योग्य ते **दरपृथःकरण** लेखी स्वरूपात सादर करावे ही विनंती.

कार्यकारी अभियंता (बांधकाम)

नाशिक महानगरपालिका, नाशिक



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Date: 23/ 01/ 2026

प्रति,
मा. कार्यकारी अभियंता,
सार्वजनिक बांधकाम विभाग,
नाशिक महानगरपालिका,
नाशिक.

कामाचे नाव :- अमृत मिरवणूक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे.
संदर्भ :- जा. क्र. साबांवि/डेस्क-२/२९९/२०२६ दिनांक- २३/०१/२०२६.

मा. महोदय,

वरील कामाच्या संदर्भानुसार आम्ही सादर केलेल्या कामाची निविदा १८.६९% कमी दराने भरलेली आहे.

आम्ही सादर केलेल्या विषयांकित कामाच्या निविदेचा दर हा प्राकलन दरापेक्षा १८.६९% इतका कमी असून तो सादर करताना खालील सर्व बाबी विचारात घेतल्या आहेत.

१) जवळपासच्या क्षेत्रात आमची इतरही कामे चालू असल्याने सदर कामासाठी लागणाऱ्या बांधकाम साहित्याचे दर संबंधित लोकांशी चर्चा करून तुलनात्मक कमी पकडलेले आहेत, तसेच स्वतःच्या मालकीची मशिनरी जसे की अद्यावत RMC Plant, Hot Mix Plant, Hydraulic Paver इत्यादि सद्यस्थितीत कमी अंतरावर उपलब्ध असल्याने मशिनरी मोबिलायझेशन व साहित्य वाहतूक खर्च कमी पकडला आहे.

२) जवळपासच्या क्षेत्रात इतर कामासाठी कामावर असलेले अतिरिक्त मनुष्यबळ या कामासाठी त्वरित उपलब्ध करण्यायोग्य आहे. सदरील कामाचे कार्यारंभ आदेश लवकर मिळाल्यास सदर काम लगेच सुरू करून मुदतीपूर्वी पूर्ण करण्याचे आमचे नियोजन आहे. त्यामुळे कामावर ओव्हर हेड शुल्क देखील आम्ही कमी प्रमाणात धरलेले आहेत.

वरील सर्व गोष्टींचा विचार करूनच आम्ही सादर कामाच्या निवेदेचा दर हा प्राकलन दरापेक्षा १८.६९% इतका कमी केला असून, तो अजून कमी करणे शक्य नाही. तरी कृपया आम्ही सादर केलेली निविदा आहे तशी स्वीकारण्यात येऊन लवकरात-लवकर पुढील निविदा प्रक्रिया पूर्ण करावी ही नम्र विनंती.

आपला विश्वासू
F. C. RODRIGUES LLP

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जा.क्र.साबांवि/डेस्क-२/३०१/२०२६
दिनांक - २३/०१/२०२६

प्रति,

मे.एफ.सी.रॉड्रीक्स एलएलपी,
निविदाधारक, नाशिक

विषय :- अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (क्रॉक्रीट)
(फेरनिविदा)

संदर्भ :- १) ई-निविदा सु.क्र.६०/०१ सन २०२५-२६

२) आपणास दिलेले पत्र जा.क्र.साबांवि/डेस्क-२/२९९/२०२६ दि.२३/०१/२०२६

३) मक्तेदार यांनी दि.२३/०१/२०२६ 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 १८.६९० %** इतक्या कमी दराची निविदा दाखल केली आहे. मा.आयुक्त सो. यांच्या निर्देशानुसार, कुंभमेळा दृष्टीकोनातून महत्वापूर्ण सदर रस्त्याचा कामासंबंधाने वाटाघाटी करून आपण सादर केलेला देकार अजून कमी करावा. याबाबत संदर्भ क्र.०२ अन्वये आपणास लेखी विनंती करण्यात आली होती. तथापी त्यापेक्षा अधीक कमी दर करणे शक्य नसल्यामुळे विषयांकीत काम **निविदा दरापेक्षा १८.६९० % कमी** दरानेच संजुर करण्याची आपण विनंती केली आहे.

यास्तव कामाचे महत्व व कालमर्यादा लक्षात घेऊन निविदा अटी व शर्ती क्र.२.२ नुसार **मा.आयुक्त नाशिक महानगरपालिका, नाशिक या नावे अतिरिक्त सुरक्षा अनामत रक्कमे पोटी र.रु.३,३४,५०,०००/-** इतक्या रक्कमेची राष्ट्रीय कृत बँकेच्या एफ.डी.आर/ बँक गॅरंटी, अथवा रोख स्वरूपात मनपा खजिन्यात भरणा करून त्याची पावती ८ दिवसांचे आत इकडील कार्यालयात सादर करावी. विहीत मुदतीत अतिरिक्त सुरक्षा अनामत रक्कमेची पूर्तता न केल्यास निविदा अटी व शर्ती क्र.२.२ (२) नुसार पुढील कार्यवाही करणेत येईल याची कुमक नोंद घ्यावी.

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कार्यकारी अभियंता (वांधकाम)
नाशिक महानगरपालिका, नाशिक

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नाशिक महानगरपालिका, नाशिक

राजीव गांधी भवन, शरणपुर रोड, (पोस्ट बॉक्स नं. १२) नाशिक -४२२००२



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नाशिक महानगरपालिका, नाशिक
जा.क्र.मनपा/साबांवि/डेस्क-८/२६/ २०२६
दिनांक :- ०९/०२/२०२६

कार्यारंभ आदेश

प्रति

मे.एफ.सी.रॉड्रीक्स एल.एल.पी

६-७ किर अपार्टमेंट, रसोई हॉटेल जवळ

गुरुनानक हौ.सोसा,

मुंबई -आग्रारोड, नाशिक

विषय- अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे

संदर्भ :- १) नाशिक त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांचेकडील प्रशासकीय मंजूरी दिनांक १५/११/२०२५.
२) दि. ०९/०२/२०२६ रोजी आपण करून दिलेला करारनामा .

प्रशासकीय ठराव / आदेश सिंहस्थ कुंभमेळा प्राधिकरण यांचेकडील दि.१५/११/२०२५	ई निविदा सुचना क्र.३३ दि.१९/११/२०२५	मा.स्थायी समिती ठराव क्र.५५४ दि.३०/०१/२०२६
करारनामा पत्र क्र.-२१ दि.३०/११/२०२६	अतिरिक्त सुरक्षा अनामत र.रु.३४,५०,०००/-	सुरक्षा अनामत र.रु.१०,२०,५००/-
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 १८.६९० % कमी दराने र.रु.१६,९४,१७,९९३/- अधिक (र.रु.३,०४,९५,२३९/- जी.एस.टी. + र.रु.४१,२९,९२८/- रॉयल्टी व टेस्टिंग चार्जेस सह) अशी एकुण र.रु. २०,४०,४३,१६०/- (अक्षरी र.रु.वीसकोटी चाळीस लक्ष त्रेचाळीसहजार एकशेसाठ मात्र) इतक्या रक्कमेपर्यंत करणेस मंजूरी मिळालेली आहे. सदरचे काम मुदतीत करारनाम्याच्या अटीशर्ती नुसार पूर्ण दि.०९/०२/२०२६ ते दि.३१/०३/२०२७ पावेतो करण्यासाठी खालील अटी शर्तीस अधिन राहून कार्यारंभ आदेश देण्यात येत आहे.

- १) सदर कामाची मुदत ही पावसाळा हंगाम धरून असून 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 टॅम्ड 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 जेणेकरून याला भविष्यात योग्य त्या संकेतस्थळावर जाहीररित्या प्रदर्शित करता येईल.
- ५) सदर कामासाठी युनिक पायाभूत सुविधा आयझी 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 सूचना, परिपत्रक/ निर्देश यांचे पालन करणे बंधनकारक आहे.
- ९) नाशिक महानगरपालिका, सिंहस्थ कुंभमेळा प्राधिकरण याच्या प्रकल्प व्यवस्थापन प्रणालीवर वेळोवेळी फोटोग्राफ, व्हिडिओ रेकॉर्डिंग करून 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 राखून ठरवून दिलेल्या कालावधीमध्ये पुर्ण करणेची जबाबदारी आपली राही
- १२) कामासाठी गौण खनिजातील स्वामित्वधन शासनास भरणे आवश्यक आहे. त्यासाठी योग्य त्या प्राधिकरणाकडे स्वामित्वधन 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 यांचेकडूनच 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 देयकातून करण्यात येईल, याची नोंद घ्यावी.

- १४) भविष्य निर्वाह निधी कायदा १९५२ व दिनांक ०८/०१/२०११ ची अधिसूचना अन्वये मक्तेदाराने कामावर नियुक्त केलेल्या कर्मचाऱ्यांचा भविष्य निर्वाह निधी भरलेबाबतची चलने बिलासोबत सादर करावी. मक्तेदाराने शासन निर्णयाप्रमाणे करासंबंधित जी.एस.टी.चे रजिस्ट्रेशन करून जी.एस.टी. कर भरणे बंधनकारक आहे. तसेच दिनांक ०१/०७/२०१७ पासून जी.एस.टी. कर प्रणाली लागू 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 चालू असतांना कोणी जखमी अथवा अपघात होवून जिवितहानी झाल्यास त्याची नुकसान भरपाई कायदेशीर बाबींची जबाबदारी सर्वस्वी मक्तेदाराची राहिल.
- १७) काम करतांना युटीलीटी सर्विसेस (विद्युत 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 पूर्तता करून घेणेत यावी.
- ४) स्थळप्रत.

DESIGN REPORT FOR OVERLAY, NEW SECTION

PROJECT NAME:

Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3.

NMC, Nashik.

CLIENT:

Executive Engineer, Panchvati Division NMC Nashik,



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1.1. INTRODUCTION

1.1.1 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 software 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.

1.1.2 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.

1.1.3 Vision

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

1.1.4 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**

1.2. PROJECT DESCRIPTION

1.2.1 General

As part of work "Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik."

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 26-07-2025 and completed accordingly.

Sr. No.	Field	Details
1.	Project Name	Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.
2.	Project Stretch	0.000 to 0.150
3.	Lane Configuration	Two Lane
4.	Survey Date	26/07/2025.

Table: 1.2.1 Project Description

1.2.2 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: 1.2.1 On Site Photos

1.3. 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.

1.3.1 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.

1.3.2 Flow Chart For FWD Analysis

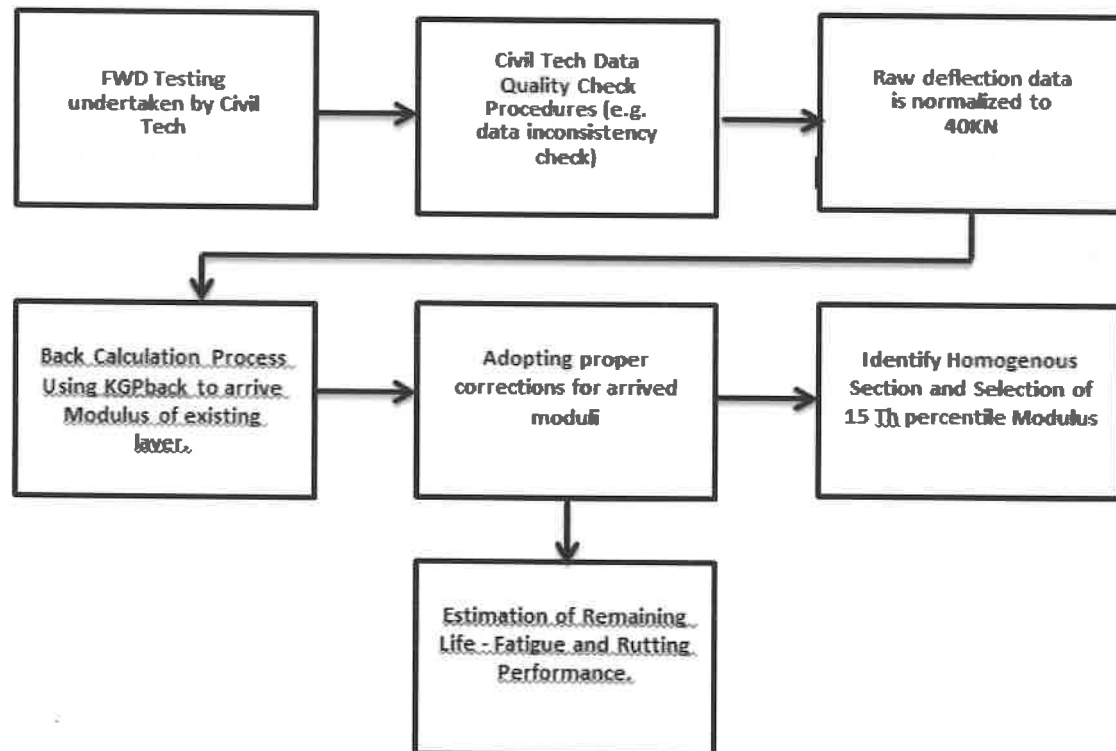


Figure: 1.3.1 Process flow for FWD Analysis

1.3.3 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 1.3.1 Range of Moduli

1.3.4 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:
 - For BT Construction BT-0.5, Granular-0.4, Subgrade-0.4

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```
Y:\SAKSHI\FWD\DPR WOR X + -
*****
* KGPBACK PROGRAM IS BASED ON GENETIC ALGORITHM *
* IT USES ELASTIC LAYERED PROGRAM FOR FORWARD *
* CALCULATION OF SURFACE DEFLECTIONS. *
*
* IMPORTANT NOTE: FOR GOOD BACKCALCULATION RESULTS *
* THE MODULI RANGES HAVE TO BE SELECTED JUDICIOUSLY *
*****

!!!! 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.
0.575,0.487,0.358,0.330,0.225,0.117,0.098
GIVE THE PAVEMENT RELATED INPUTS (3-LAYER SYSTEM)
TYPE EACH LAYER THICKNESS(mm). START FROM TOP
100
200

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
66.5
266

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

Figure: 1.3.2 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)
= .57500 .48700 .35800 .33000 .22500 .11700 .09800
Radial distances from centre of load(mm) = .0 200.0 300.0 450.0 600.0 900.0 1500.0
Layer thickness (mm)         = 100.00 200.00
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                = 66.5 266.0

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

Backcalculated Layer Moduli are:
Surface (MPa) = 1469.9
Base (MPa)    = 249.4
Subgrade (MPa) = 86.4

```

Figure: 1.3.3 KGPback Data Output

1.3.5 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.

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

$$\lambda = 1 - 0.238 \ln T1 / 1 - 0.238 \ln T2 \dots\dots\dots \text{Eq 5, IRC115:2014}$$

Where,

- | | | |
|-----------|---|--|
| λ | - | Temperature Correction factor. |
| E_{T1} | - | Back calculated Modulus (MPa) at Temperature T1. |
| E_{T2} | - | Back calculated Modulus (MPa) at Temperature T2. |

1.3.6 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.

1.3.7 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. Overlay stretch

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.

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

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.

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

Where,

N_f = Fatigue life in standard axle load repetitions;

ϵ_t = Tensile strain at the bottom of bituminous Layer;

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

N_r = Rutting life in standard axle load repetitions;

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

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

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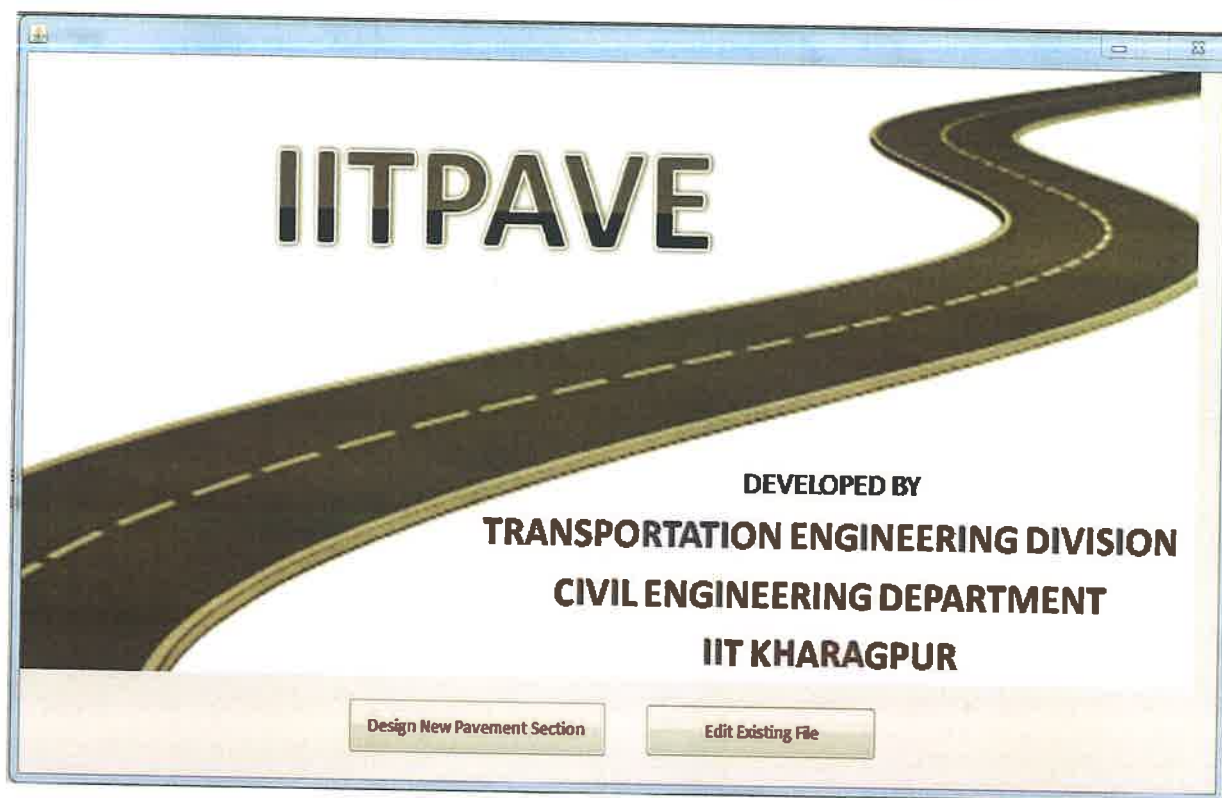
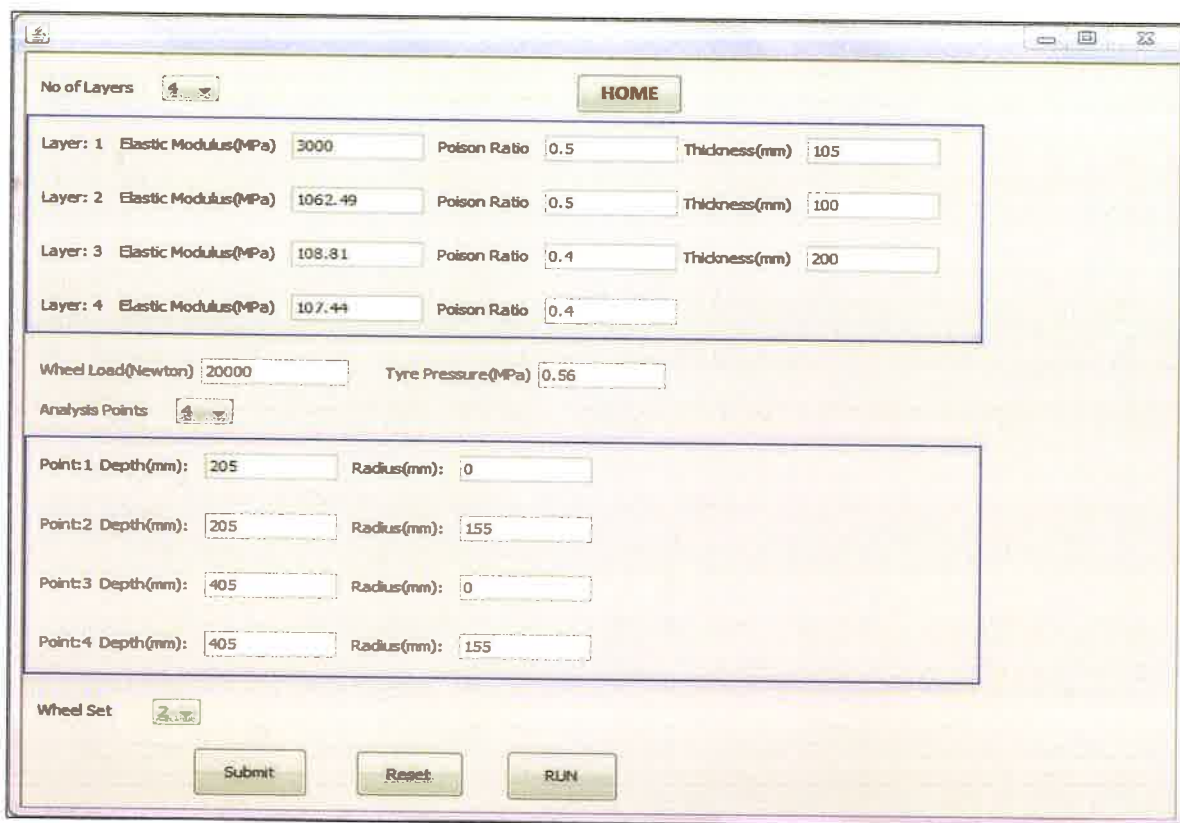


Figure: 1.3.4 Opening Page - IITPAVE

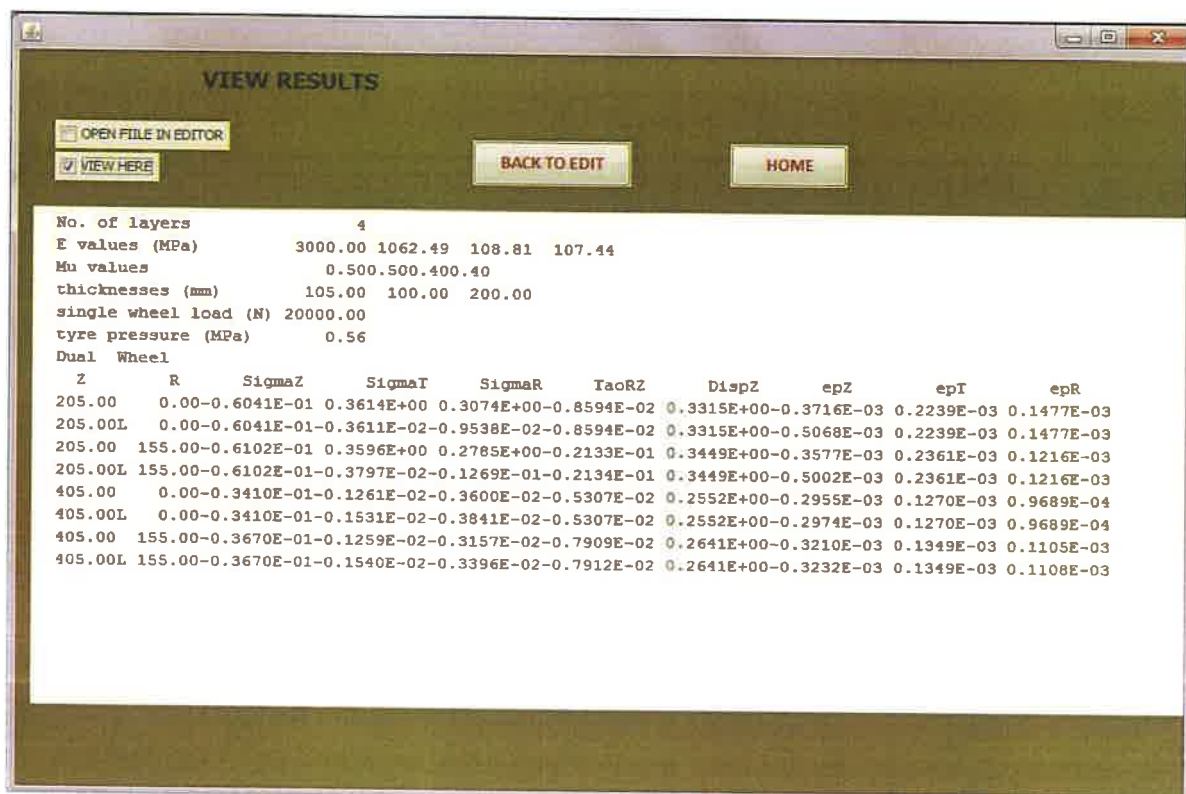


The screenshot shows the IITPAVE Data Input window. It includes fields for 'No of Layers' (4), 'HOME' button, and a table for layer properties. Below this are fields for 'Wheel Load(Newton)' (20000), 'Tyre Pressure(MPa)' (0.56), 'Analysis Points' (4), and a table for point properties. At the bottom are 'Wheel Set' (2), 'Submit', 'Reset', and 'RUN' buttons.

Layer	Elastic Modulus(MPa)	Poisson Ratio	Thickness(mm)
Layer: 1	3000	0.5	105
Layer: 2	1062.49	0.5	100
Layer: 3	108.81	0.4	200
Layer: 4	107.44	0.4	

Point	Depth(mm)	Radius(mm)
Point:1	205	0
Point:2	205	155
Point:3	405	0
Point:4	405	155

Figure: 1.3.5 IITPAVE Data Input



The screenshot shows the IITPAVE Data Output window. It includes buttons for 'OPEN FILE IN EDITOR', 'VIEW HERE', 'BACK TO EDIT', and 'HOME'. Below these is a summary of input data and a table of output results.

Summary of Input Data:

- No. of layers: 4
- E values (MPa): 3000.00 1062.49 108.81 107.44
- Mu values: 0.500.500.400.40
- thicknesses (mm): 105.00 100.00 200.00
- single wheel load (N): 20000.00
- tyre pressure (MPa): 0.56
- Dual Wheel

Z	R	SigmaZ	SigmaT	SigmaR	TaoRZ	DispZ	epZ	epT	epR
205.00	0.00-0.6041E-01	0.3614E+00	0.3074E+00-0.8594E-02	0.3315E+00-0.3716E-03	0.2239E-03	0.1477E-03			
205.00L	0.00-0.6041E-01	0.3611E-02-0.9538E-02-0.8594E-02	0.3315E+00-0.5068E-03	0.2239E-03	0.1477E-03				
205.00	155.00-0.6102E-01	0.3596E+00	0.2785E+00-0.2133E-01	0.3449E+00-0.3577E-03	0.2361E-03	0.1216E-03			
205.00L	155.00-0.6102E-01	0.3797E-02-0.1269E-01-0.2134E-01	0.3449E+00-0.5002E-03	0.2361E-03	0.1216E-03				
405.00	0.00-0.3410E-01	0.1261E-02-0.3600E-02-0.5307E-02	0.2552E+00-0.2955E-03	0.1270E-03	0.9689E-04				
405.00L	0.00-0.3410E-01	0.1531E-02-0.3841E-02-0.5307E-02	0.2552E+00-0.2974E-03	0.1270E-03	0.9689E-04				
405.00	155.00-0.3670E-01	0.1259E-02-0.3157E-02-0.7909E-02	0.2641E+00-0.3210E-03	0.1349E-03	0.1105E-03				
405.00L	155.00-0.3670E-01	0.1540E-02-0.3396E-02-0.7912E-02	0.2641E+00-0.3232E-03	0.1349E-03	0.1108E-03				

Figure: 1.3.6 IITPAVE Data Output

Ramkund to katyamaruti chowk to NH3

Section Details	Side	Chainage		Crust Thickness (MM)	Granular Layer Thickness	Design Life		
		From	To			Design Life	Adopted MSA	VG30/VG40
Road No. 2.1 Ramkund to sarvajanik vachnalaya	BHS	0+000	0+150	100	200	30	40	VG 40

Registered Office Lab :
Plot No. B-45, NICE Industrial Area,
Satpur MIDC, Nashik-422007.

Report No. CIPL/NSK/R/072610/25



REMAINING LIFE										
SR. NO.	Section	CHAINAGE		REMAINING LIFE OF ROAD				OVERLAY DESIGN		
		FROM	TO	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR	MSA	FATIGUE TENSILE STR	MSA	RUTTING VERTICAL STR
1	Road No. 2.1	0.000	0.150	0.0005870	1.173	0.0007531	2.035	0.0002361	40.549	0.0003232
									94.239	
									105	

SR.NO	Chian age	KM Wise Sectio n	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	GRANNU LAR LAYER	SUBGRA DE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	0.000	1	LHS	POOR	0.575	0.487	0.358	0.330	0.225	0.117	0.098	13.3	0.5	0.4	0.4
2	0.131	1	RHS	POOR	0.581	0.503	0.312	0.195	0.137	0.070	0.052	13.3	0.5	0.4	0.4

SR.NO	Chian age	KM Wise Sectio n	Lane Position	LAYER MODULE RANGES						THICKNESS		BACK CAL. FROM KGPBACK SOFTWARE				CORRECTED MODULE		
				BT LAYER		GRANNULAR LAYER		SUBGRADE LAYER		GRANULA R THICKNE SS	CRUST THICKNE SS	BC	SUB GRAN	SUB GRADE	BC	GRANN ULAR	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	
1	0.000	1	LHS	400.0	1500.0	100.0	500.0	66.5	266.0	200.0	100.0	1490.3	158.7	101.0	1074.81	158.70	101.00	
2	0.131	1	RHS	400.0	1500.0	100.0	500.0	66.5	266.0	200.0	100.0	1460.2	100.0	143.9	1060.32	100.00	143.90	

SR.NO	Chian age	KM Wise Sectio n	Lane Position	Avg. Tem pera ture	15TH PERCENTILE VALUES (TEMP CORRECTED VALUES)				Remaining life of Pavement				Design MSA				Overlay Requireme nt	
									FATIGUE		RUTTING		FATIGUE		RUTTING		Requ ired Thic knes s	Reco mme nded Thic knes s
					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	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	43
1	0.000	1	LHS	27.3	1062.5	108.8	107.4		0.000587	1.17	0.0007531	2.035	0.0002361	40.5	0.0003232	94.2	105	105
2	0.131	1	RHS	27.4														

1.4. RESULTS

1.4.1 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.

1.4.2 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 modulus, layer thickness, corrected back calculated modulus, pavement temperature, remaining life/MSA & overlay requirement are also presented in table below.

1.5. PROCEDURE FOR PQC PAVEMENT

Following procedure has been followed for measurement of FWD:

- The test location is marked on the field.
- The loading plate along with the deflection sensors have been lowered at the test location.
- The target load has been applied and the deflections have been measured for 3 times.
- The first load is considered as a seating load and the values are not adopted for analysis.
- The pavement temperature during the survey has been measured using infra-red thermometer attached with the equipment.
- The area parameter of deflection basin is calculated using formulae-

$$A = 6 \left[1 + \left(\frac{D1}{D0} \right) + 2 \left(\frac{D2}{D0} \right) + \left(\frac{D3}{D0} \right) \right]$$

Where A= Area parameter of the deflection basin.

D0= Deflection at the center of the loading plate in mm

D1= Deflection at the 300mm from the center of loading plate.

D2= Deflection at the 600 mm from the center of loading plate.

D3= Deflection at the 900mm from the center of loading

- From are of deflection basing, Radius of relative stiffness (l) can be evaluated by excel sheet provided with IRC 117.
- After finding the radius of relative stiffness, normalized deflections (d) are calculated using various equations and excel sheet provided with IRC 117.
- Subgrade modulus value can be found by the formulae for different normalized deflections and average of all should be taken as subgrade modulus.

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$$K_i = \left(\frac{P d_i}{l^2 D_i} \right)$$

Where, $i = 1, 2, 3, 4$

l = Radius of relative stiffness, mm.

P = Load in KN.

D_i = Measured deflections in mm at various radial distance.

D_i = Normalised deflections in mm at various radial distances.

K value in case of design of pavement is to be adopted as 50% of that determined by FWD.

- Elastic modulus of concrete is found by using formulae,

$$E_c = 12(1 - \mu_c) k l^4 / (1000 h^3)$$

Where, μ_c = Poisson's ratio of concrete

h = Thickness of concrete layer in mm

l = radius of relative stiffness in mm

k = modulus of subgrade reaction in MPa/m

E = Elastic modulus of concrete, Mpa

- Strength of concrete is evaluated from the relation

$$F_c = \sqrt{(E_c / 5000)}$$

- Flexural strength (f_{mr}) is determined from the f_c as.

$$f_{mr} = 0.7 \sqrt{f_c}$$

1.5.1 Temperature Measurement

The pavement temperature during the survey has been measured using infra-red thermometer attached with the equipment.

1.6. DATA, ANALYSIS AND RESULTS

- From the data collected at site the data is analyzed using the excel sheet provided with IRC - 117.
- From Excel sheets data calculated: Concrete grade, modulus of subgrade and flexural strength of concrete.
- This data is used for the analysis of Fatigue behavior of cement concrete road as per IRC 58-2011. As in this case new concrete pavement is tested Fatigue analysis is not done.
- Deflection data along the complete stretch is presented in the graphical format.
- Lastly evaluation of load transfer efficiency of Joints is calculated by the formulae:

$$LTE = 100 B (D_2/D_1)$$

Value of the B varies from 1.05 to 1.15, typical value 1.05 is adopted. For this stretch load carrying capacity is noted to be 100% in most of the section. The results are tabulated in Annexure-I.

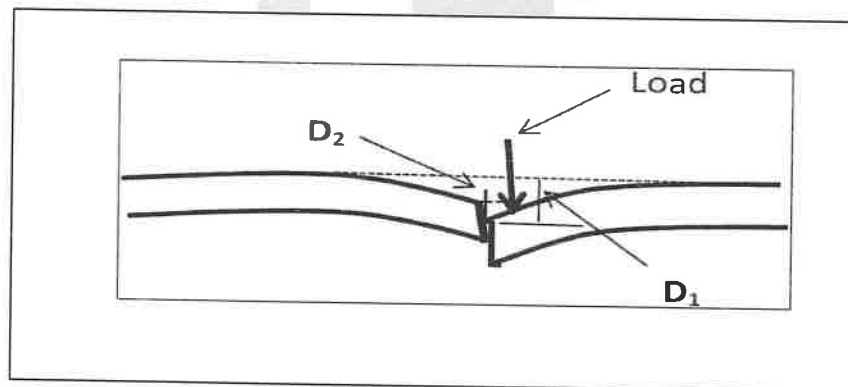


Figure: 1.6.1 Deflection In Loaded And Unloaded Side Of Joint

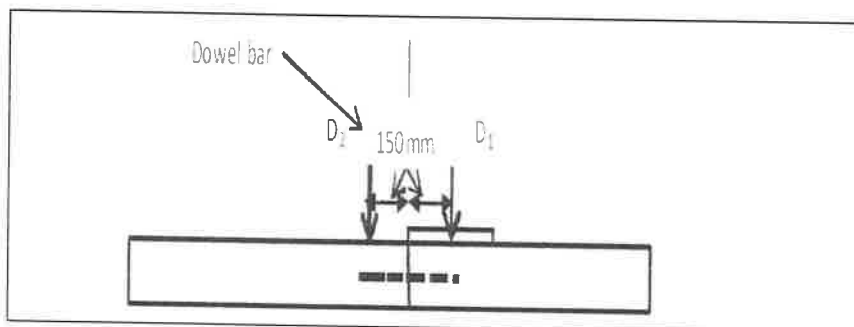


Figure: 1.6.2 Deflection Measurements at a joint by FWD with Sensors 300 mm apart

IRC:117-2015 Guidelines for the Structural Evaluation of Rigid Pavement by Falling Weight Deflectometer

Evaluation of foundation properties as well as strength of concrete using Falling weight deflectometer both Winkler as well as solid elastic foundations are considered in the analysis. The inputs are (1) deflections at radial distances of 0, 300, 600, 900 mm (2) applied load and the radius of the loading plate (3) Thickness of the pavement slab. The poisson ratio of the slab and the foundation are taken as 0.15 and 0.45 respectively. The outputs are modulus of subgrade reaction elastic modulus of the concrete slab and flexural strength of the concrete. In case of solid elastic foundation the outputs are elastic modulus of the foundation and the concrete and the flexural strength of the concrete

Inputs			
Type of foundation [Liquid - 1 ; Solid - 2]	2	2	
Radius of loading plate (a), mm in Col F	5.905511811	150	1
Load (P), kN in Col F	13473	60	
Poisson ratio for concrete (μ_c)	0.15	0.15	
Poisson ratio for subgrade (μ_s)	0.45	0.45	2
Thickness of the concrete slab h (mm) in Col F	9.842519685	250	
Deflection measured at 0 mm distance from the center of the load area (w_0), Col F	0.003755906	0.0954	3
Deflection measured at 300mm distance from the center of the load area (w_1), Col F	0.003417323	0.0868	
Deflection measured at 600 mm distance from the center of the load area (w_2), Col F	0.003082677	0.0783	
Deflection measured at 900 mm distance from the center of the load area (w_3), Col F	0.002070866	0.0526	4
Result			
Area of defelection basin (Sq mm), Col F	30.0754717	19403.491	
Radius of relative stiffness, l (mm), Col F	23.801	604.542	5
Normalised defelection, d_0 (mm), Col F	0.187	4.749	
Normalised defelection, d_1 (mm), Col F	0.170	4.310	
Normalised defelection, d_2 (mm), Col F	0.145	3.676	6
Normalised defelection, d_3 (mm), Col F	0.118	3.004	
Modulus of subgrade reaction k (MPa/m) for Winkler foundation / Elastic modulus of foundation E_s (MPa) [for solid foundation], Col F	45931.25514	316.926	7
Elastic modulus of concrete E_c (MPa), Col F	4776450.568	32957.509	
Cubestrength strenght of concrete f_{cu} (MPa)		43.45	8
Flexural strength, Mpa		4.61	9

A Screen Image Of The Excel Software Output Is Attached For General Impression And Understanding.

Figure: 1.6.3 Screen image of IRC 117- Excel sheet

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1.6.1 Calculations And Interpretation

Calculations are performed using IRC 117 excel sheets. Detailed calculation results are tabulated in Annexure -I and Annexure -II.

From the results evaluated in Annexure - I joint capacity of the PQC panels is observed in between 95% to 100%.

In Annexure -II compressive strength of the PQC panel is determined using IRC 117 program which has evaluated the compressive strength. Similarly flexural strength is evaluated for ready reference.

For Civil Tech India Pvt. Ltd.,

Reviewed By
Vaishali A. Kachare



Authorised Signatory
Minal V. Bagul

ANNEXURE -I

TABLE SHOWING DEFLECTION DATA AND JOINT CAPACITY EVALUATION

Point	Chainage	Load kN	Drop	D1	D2	D3	D4	Temp	Remark	Joint Capacity
Road No. 2.2 Sarvajani Vachnalaya to Panchavati Karanja to Nimani Chowk										
1	0.000	58.1	1	0.1905	0.1764	0.1593	0.1508	25.7	LHS L1	97.2
	0.000	60.7	2	0.1887	0.1741	0.1583	0.1457	25.7		96.9
	0.000	59.1	3	0.1874	0.1736	0.1564	0.1465	25.8		97.3
2	0.000	60.3	1	0.1002	0.0924	0.0795	0.0614	28.8	LHS L2	96.8
	0.000	60.1	2	0.098	0.0906	0.0755	0.0642	28.4		97.1
	0.000	60.3	3	0.0994	0.0914	0.0758	0.0678	28.6		96.5
3	0.000	60.1	1	0.1139	0.0986	0.0939	0.0765	28.3	RHS R1	90.9
	0.000	60.7	2	0.1136	0.0978	0.0906	0.0834	28.1		90.4
	0.000	60.7	3	0.1143	0.0964	0.0913	0.0867	28.4		88.6
4	0.000	59.2	1	0.1312	0.1216	0.11	0.0859	28.4	RHS R2	97.3
	0.000	58.8	2	0.1296	0.1191	0.1085	0.0861	28.2		96.5
	0.000	58.9	3	0.1355	0.1253	0.1121	0.0928	28.2		97.1
Road No. 2.4 Puriya Park to RP Vidyalaya										
5	0.000	61	1	0.128	0.1175	0.1069	0.0825	29.1	LHS L1	96.4
	0.000	60.7	2	0.1281	0.1172	0.1073	0.0832	29.1		96.1
	0.000	60.7	3	0.1272	0.1196	0.1042	0.0801	29.1		98.7
6	0.000	60	1	0.0954	0.0868	0.0783	0.0526	29	LHS L2	95.5
	0.000	60.3	2	0.0958	0.0873	0.0775	0.0546	29		95.7
	0.000	59.9	3	0.0959	0.0884	0.0769	0.0534	29.2		96.8
7	0.000	61.3	1	0.0851	0.0785	0.0678	0.0452	29.6	RHS R1	96.9
	0.000	61.4	2	0.0858	0.0778	0.0674	0.0499	29.7		95.2
	0.000	61	3	0.0841	0.0783	0.0652	0.0468	29.9		97.8
8	0.000	60.8	1	0.0769	0.0654	0.0578	0.0486	29.1	RHS R2	89.3
	0.000	60.3	2	0.0757	0.0648	0.0567	0.049	29		89.9
	0.000	60.3	3	0.0759	0.0634	0.058	0.0484	29.2		87.7
Road No. 2.6 Nimani to Katayamaruti Chowk to NH3										
9	0.000	60.3	1	0.0908	0.0834	0.0763	0.0424	27.9	LHS L1	96.4
	0.000	59.3	2	0.0938	0.0858	0.0779	0.0479	27.6		96.0
	0.000	59.5	3	0.0956	0.0877	0.0811	0.0451	27.8		96.3
10	0.000	59.3	1	0.0924	0.0853	0.0739	0.0507	27.1	LHS L2	96.9
	0.000	59.5	2	0.0945	0.0885	0.0746	0.0518	27.2		98.3
	0.000	59.3	3	0.0908	0.0826	0.0701	0.0576	27.1		95.5
11	0.500	61.8	1	0.1187	0.1114	0.0948	0.0767	28.2	LHS L1	98.5
	0.500	61.2	2	0.1194	0.1127	0.0933	0.0812	28.2		99.1
	0.500	60.6	3	0.1211	0.1112	0.0956	0.0886	28.2		96.4
12	0.500	59.2	1	0.1695	0.1553	0.1415	0.1305	27.2	LHS L2	96.2
	0.500	58.7	2	0.1668	0.1539	0.1401	0.1241	27.5		96.9
	0.500	58.3	3	0.1684	0.1549	0.1403	0.1278	27.2		96.6

Point	Chainage	Load kN	Drop	D1	D2	D3	D4	Temp	Remark	Joint Capacity
13	0.500	61.8	1	0.0843	0.0776	0.0604	0.0564	27.2	RHS R1	96.7
	0.500	60.3	2	0.0808	0.0754	0.0594	0.0479	27.2		98.0
	0.500	61.1	3	0.0824	0.0775	0.0603	0.0482	27.5		98.8
14	0.500	59.5	1	0.0884	0.0763	0.0715	0.053	28.8	RHS R2	90.6
	0.500	59.2	2	0.0879	0.0777	0.0693	0.0525	28.8		92.8
	0.500	60.1	3	0.0878	0.078	0.0697	0.0492	28.7		93.3
15	0.000	60.7	1	0.0919	0.0754	0.0719	0.0695	29.2	RHS R1	86.1
	0.000	60.6	2	0.0921	0.0801	0.0726	0.0602	29.1		91.3
	0.000	60.2	3	0.0918	0.0797	0.0722	0.0612	29		91.2
16	0.000	61.3	1	0.1514	0.1391	0.13	0.0996	27.5	RHS R2	96.5
	0.000	60.1	2	0.1434	0.1316	0.1213	0.0985	27.3		96.4
	0.000	59.8	3	0.1477	0.137	0.1246	0.0993	27.4		97.4
Road No.2.3 Nimani chowk										
17	0.000	59.4	1	0.1655	0.1528	0.1402	0.1195	29.9	LHS	96.9
	0.000	59.3	2	0.1682	0.1563	0.1445	0.1145	26		97.6
	0.000	60.1	3	0.1668	0.1558	0.1463	0.1052	26		98.1
18	0.500	60.8	1	0.095	0.0885	0.0755	0.0516	26.8	RHS	97.8
	0.500	60.9	2	0.095	0.0897	0.0768	0.0457	26.9		99.1
	0.500	61	3	0.0946	0.0876	0.0775	0.0466	26.7		97.2
19	1.000	60.3	1	0.0786	0.0735	0.0612	0.0364	26.4	LHS	98.2
	1.000	60.6	2	0.0782	0.0729	0.0612	0.0355	26.3		97.9
	1.000	60.6	3	0.0789	0.0725	0.0626	0.0368	26.9		96.5
20	1.500	60.4	1	0.0926	0.0796	0.0756	0.0575	26.2	RHS	90.3
	1.500	60.5	2	0.0923	0.0773	0.0755	0.0608	26.1		87.9
	1.500	61	3	0.093	0.0773	0.0748	0.0626	26.1		87.3
21	2.000	60.1	1	0.1388	0.1296	0.1111	0.1008	26.2	LHS	98.0
	2.000	60.1	2	0.1388	0.1288	0.1136	0.0976	26		97.4
	2.000	60.1	3	0.1386	0.1302	0.1142	0.0916	26		98.6
22	2.500	60.4	1	0.1018	0.0856	0.0826	0.0715	26.4	RHS	88.3
	2.500	60.4	2	0.1007	0.0861	0.0801	0.0705	26		89.8
	2.500	60	3	0.1005	0.0857	0.0803	0.0694	26.9		89.5
Road No.2.5 Nimani busstand										
23	0.000	59.4	1	0.2165	0.2037	0.1956	0.1406	29.9	LHS	98.8
	0.000	60.1	2	0.2156	0.2009	0.1968	0.1385	29.8		97.8
	0.000	59.8	3	0.2168	0.2	0.1984	0.1441	29.8		96.9
24	0.500	60.9	1	0.1085	0.0948	0.0905	0.0647	29.6	RHS	91.7
	0.500	60.3	2	0.1063	0.0944	0.0873	0.0624	29.4		93.2
	0.500	60.9	3	0.1067	0.0944	0.0871	0.0629	29.3		92.9
25	1.000	59.8	1	0.1278	0.1185	0.1065	0.0795	29.2	LHS	97.4
	1.000	59.8	2	0.1273	0.1192	0.1053	0.0781	29		98.3
	1.000	59.7	3	0.1259	0.1177	0.1048	0.0765	29.9		98.2
26	1.500	58.8	1	0.1195	0.1108	0.0985	0.0753	29.4	RHS	97.4
	1.500	58.9	2	0.1178	0.1097	0.0961	0.0751	29.3		97.8
	1.500	59.5	3	0.1204	0.1112	0.0971	0.0805	29.2		97.0
27	2.000	61.8	1	0.1154	0.1066	0.0941	0.0704	29.4	LHS	97.0
	2.000	60.8	2	0.1121	0.1053	0.0926	0.0605	29.2		98.6
	2.000	61.2	3	0.1124	0.1042	0.0932	0.062	29		97.3

Point	Chainage	Load kN	Drop	D1	D2	D3	D4	Temp	Remark	Joint Capacity
28	2.500	59.4	1	0.142	0.1195	0.1172	0.1155	29.1	RHS	88.4
	2.500	59.8	2	0.1426	0.1203	0.1184	0.1165	29		88.6
	2.500	59.8	3	0.1434	0.1235	0.1191	0.1156	29		90.4
Road No.2.7 Katyamaruti chowk										
29	0.000	60.2	1	0.1257	0.1156	0.1023	0.0855	29.1	LHS	96.6
	0.000	59.7	2	0.1224	0.1142	0.0986	0.0817	29.1		98.0
	0.000	59.7	3	0.1234	0.1148	0.1002	0.0796	29		97.7
30	0.500	60.6	1	0.1389	0.1203	0.1145	0.1082	29.3	RHS	90.9
	0.500	60.4	2	0.137	0.12	0.1114	0.1048	29.4		92.0
	0.500	60.8	3	0.1379	0.122	0.1107	0.1036	29.2		92.9
31	1.000	60.6	1	0.1501	0.1396	0.1226	0.1083	29.6	LHS	97.7
	1.000	60.5	2	0.1468	0.1354	0.1216	0.1053	29.5		96.8
	1.000	61	3	0.1472	0.1386	0.1213	0.1005	29.4		98.9
32	1.500	59.3	1	0.2076	0.1926	0.1815	0.1525	29.3	RHS	97.4
	1.500	59.3	2	0.2025	0.1883	0.1788	0.1404	29.3		97.6
	1.500	59.6	3	0.2065	0.1935	0.1779	0.1515	29.1		98.4
33	2.000	61.1	1	0.0823	0.0754	0.0615	0.0532	29.6	LHS	96.2
	2.000	61	2	0.0814	0.0753	0.0602	0.0518	29.6		97.1
	2.000	61.8	3	0.0822	0.0763	0.0612	0.0503	29.3		97.5
34	2.500	60.6	1	0.1143	0.0993	0.0906	0.0833	29.9	RHS	91.2
	2.500	59.9	2	0.1131	0.0985	0.091	0.0785	29.7		91.4
	2.500	60	3	0.1142	0.0968	0.092	0.0851	29.7		89.0
Road No.2.8 Katyamaruti chowk To Devi Temple										
35	0.000	59.8	1	0.1357	0.1185	0.1123	0.1016	29.3	LHS L1	91.7
	0.000	59.9	2	0.1345	0.1152	0.1131	0.1005	29.2		89.9
	0.000	60.1	3	0.1335	0.1167	0.1088	0.1013	29		91.8
36	0.000	59.4	1	0.1512	0.1302	0.1283	0.1154	29.9	LHS L2	90.4
	0.000	59.4	2	0.1516	0.1296	0.1275	0.1186	29.7		89.8
	0.000	59.9	3	0.15	0.1301	0.1245	0.1165	29.7		91.1
37	0.000	61.1	1	0.1188	0.0995	0.0968	0.0932	29.5	RHS R1	87.9
	0.000	62.7	2	0.1198	0.0996	0.0979	0.0953	29.3		87.3
	0.000	60.3	3	0.1152	0.0977	0.0956	0.0838	29.2		89.0
38	0.000	60	1	0.1002	0.0923	0.0819	0.0556	29.3	RHS R2	96.7
	0.000	60.2	2	0.1001	0.0928	0.0819	0.0526	29.3		97.3
	0.000	60.1	3	0.1007	0.0931	0.082	0.0554	29.1		97.1

ANNEXURE -II
Table Evaluating Modulus of subgrade k, Concrete strength and Flexural Strength of concrete

Common Data used :

Radius of loading plate (a), mm in Col F = 150mm
Poisson ratio for concrete (μ_c) = 0.15
Poisson ratio for subgrade (μ_f) = 0.45
THICKNESS OF PQC SLAB = 250 mm

Note : All the data used is numerical analysis by back calculation, as a road is a new one Concrete strength has been overestimated at most of the location which is restricted to maximum of 50 Mpa and flexural strength of Max 6 Mpa. Other locations where the strength is below M-40 considering the uncertainty of measurement @10% and standard deviation of 4. Points are highlighted as "doubtful". At such location it is recommended to verify the strength by core cutting

Point	Chainage	Area -A	I (mm)	d0 (mm),	d1 (mm),	d2 (mm),	d3 (mm),	Subgrade k	Concrete Ec	Concrete fck (MPa)	Flexural strength, Mpa	Location	Remark
Road No. 2.2 Sarvajanjik vachmalaya to patchavati karatija to nimani chowk													
1	0.000	20578.06	865.620	4.812	4.529	4.120	3.627	106.276	32428.798	42	4.54	LHS L1	ok
	0.000	20497.42	841.772	4.808	4.516	4.092	3.584	115.270	32360.670				
	0.000	20530.13	851.311	4.810	4.521	4.103	3.602	111.698	32436.068				
2	0.000	19524.78	624.639	4.755	4.334	3.724	3.067	289.589	33219.073	44	4.66	LHS L2	ok
	0.000	19528.6	625.291	4.755	4.335	3.726	3.069	291.891	33588.055				
	0.000	19533.94	626.206	4.756	4.336	3.728	3.072	286.764	33143.200				
3	0.000	19555.32	629.893	4.757	4.340	3.736	3.083	248.358	29214.341	33	4.05	RHS R1	Doubtful
	0.000	19552.44	629.394	4.757	4.340	3.735	3.081	248.839	29201.373				
	0.000	19520.75	623.951	4.755	4.334	3.723	3.065	248.349	28394.263				
4	0.000	20071.75	732.562	4.785	4.440	3.935	3.357	187.487	34691.405	46	4.77	RHS R2	ok
	0.000	20038.79	725.134	4.783	4.434	3.923	3.339	189.700	34043.964				
	0.000	20086.14	735.846	4.786	4.443	3.941	3.365	178.604	33494.071				
Road No. 2.4 Puriya park to RP vidyalaya													
5	0.000	19938.47	703.327	4.778	4.415	3.885	3.286	205.610	33669.355	45	4.72	LHS L1	ok
	0.000	19953.12	706.440	4.779	4.418	3.890	3.294	203.391	33750.064				
	0.000	19929.97	701.533	4.777	4.413	3.882	3.281	207.302	33687.139				
6	0.000	19403.49	604.542	4.749	4.310	3.676	3.004	316.926	32957.509	42	4.56	LHS L2	ok
	0.000	19395.21	603.213	4.748	4.308	3.673	2.999	315.692	32613.129				
	0.000	19370.95	599.351	4.747	4.303	3.664	2.987	316.416	32064.225				
7	0.000	19236.53	578.763	4.740	4.276	3.610	2.917	378.895	34573.037	47	4.79	RHS R1	ok
	0.000	19223.96	576.905	4.739	4.274	3.605	2.911	370.761	33506.101				
	0.000	19235.13	578.554	4.740	4.276	3.610	2.917	378.317	34483.067				
8	0.000	18720.55	510.722	4.712	4.170	3.405	2.658	445.802	27951.925	32	3.98	RHS R2	Doubtful
	0.000	18802.54	520.503	4.716	4.187	3.438	2.698	441.065	29274.514				
	0.000	18722.39	510.938	4.712	4.170	3.406	2.659	447.282	28080.402				
Road No. 2.6 Nimani to katyamaruti chowk to NH3													

Point	Challage	Area -A	I (mm)	d0 (mm),	d1 (mm),	d2 (mm),	d3 (mm),	Subgrade k	Concrete fck	Concrete fck (MPa)	Flexural strength, Mpa	Location	Remark
9	0.000	19295.12	587.572	4.743	4.288	3.634	2.948	355.573	33949.178	44	4.66	LHS L1	ok
	0.000	19358.93	597.455	4.746	4.301	3.659	2.981	326.963	32819.492				
	0.000	19366.95	598.719	4.747	4.303	3.662	2.985	327.569	33089.434				
10	0.000	19333.85	593.535	4.745	4.296	3.645	2.968	328.655	32344.249	42	4.52	LHS L2	ok
	0.000	19354.8	596.807	4.746	4.300	3.657	2.978	321.247	32140.850				
	0.000	19346.27	595.471	4.746	4.298	3.654	2.974	325.142	32312.618				
11	0.500	19821.14	679.263	4.771	4.393	3.840	3.223	231.515	34151.564	47	4.80	LHS L1	ok
	0.500	19860.55	687.181	4.774	4.400	3.855	3.244	224.024	34215.553				
	0.500	19923.78	700.231	4.777	4.412	3.879	3.278	212.812	34390.365				
12	0.500	20407.61	816.491	4.803	4.500	4.066	3.536	128.692	32970.218	43	4.58	LHS L2	ok
	0.500	20396.8	813.536	4.803	4.498	4.036	3.531	130.691	33120.314				
	0.500	20380.01	808.980	4.802	4.495	4.036	3.522	128.875	32114.376				
13	0.500	19134.39	563.980	4.734	4.255	3.570	2.865	379.849	32071.427	41	4.50	RHS R1	ok
	0.500	19081.72	556.631	4.731	4.244	3.549	2.838	397.542	32270.174				
	0.500	19082.33	556.714	4.731	4.245	3.549	2.839	396.020	32161.137				
14	0.500	19135.85	564.187	4.734	4.256	3.570	2.866	353.067	29843.006	35	4.16	RHS R2	Doubtful
	0.500	19130.21	563.389	4.734	4.254	3.568	2.863	353.918	29788.288				
	0.500	19063.82	554.173	4.730	4.241	3.542	2.829	368.565	29523.403				
15	0.000	19207.37	574.469	4.738	4.270	3.599	2.902	331.633	29592.136	37	4.23	RHS R1	Doubtful
	0.000	19237.12	578.849	4.740	4.276	3.611	2.918	333.581	30451.951				
	0.000	19262.03	582.567	4.741	4.281	3.620	2.930	329.823	30692.669				
16	0.000	20178.08	757.454	4.791	4.460	3.975	3.414	163.269	33395.700	46	4.73	RHS R2	ok
	0.000	20183.52	758.767	4.791	4.461	3.977	3.417	167.533	34446.291				
	0.000	20185.6	759.271	4.791	4.461	3.978	3.418	162.340	33445.035				
Road No.2.3 Nimani chowk													
17	0.000	20372.24	806.888	4.801	4.494	4.047	3.517	134.844	33341.689	44	4.63	LHS	ok
	0.000	20351.31	801.294	4.800	4.491	4.039	3.506	134.537	32578.656				
	0.000	20334.14	796.757	4.799	4.488	4.033	3.497	140.135	33361.159				
18	0.500	19338.5	594.258	4.745	4.297	3.651	2.970	328.194	32417.092	42	4.55	RHS	ok
	0.500	19301.83	588.597	4.743	4.289	3.636	2.951	340.429	32673.725				
	0.500	19289.33	586.691	4.742	4.287	3.631	2.945	341.189	32429.526				

Point	Chainage	Area-A	I (mm)	d0 (mm)	d1 (mm)	d2 (mm)	c3 (mm)	Subgrade k	Concrete Ec	Concrete fck (MPa)	Flexural strength, Mpa	Location	Remark
19	1.000	18931.26	536.594	4.723	4.213	3.485	2.762	441.431	32100.947	41	4.49	LHS	ok
	1.000	18901.34	533.152	4.722	4.208	3.478	2.749	450.155	32109.435				
	1.000	18932.87	536.801	4.723	4.214	3.490	2.763	440.799	32082.135				
20	1.500	19250.29	580.810	4.740	4.279	3.616	2.924	332.318	30645.876	36	4.18	RHS	Doubtful
	1.500	19237.37	578.887	4.740	4.276	3.611	2.918	332.087	30321.529				
	1.500	19138.36	564.541	4.734	4.256	3.571	2.867	338.300	28648.742				
21	2.000	20107.8	740.838	4.787	4.447	3.949	3.376	175.477	33582.057	45	4.71	LHS	ok
	2.000	20113.37	742.133	4.787	4.448	3.951	3.379	175.919	33843.404				
	2.000	20080.95	734.659	4.786	4.442	3.939	3.362	179.517	33502.649				
22	2.500	19381.42	601.012	4.747	4.306	3.668	2.992	288.895	29519.449	34	4.10	RHS	Doubtful
	2.500	19358.64	597.411	4.746	4.301	3.659	2.980	293.574	29461.457				
	2.500	19331.69	593.199	4.745	4.296	3.648	2.966	294.449	28928.662				
Road No.2.5 Nimani busstand													
23	0.000	20663.6	892.177	4.817	4.543	4.150	3.672	95.999	32087.735	41	4.50	LHS	ok
	0.000	20638.54	884.257	4.816	4.539	4.141	3.659	98.540	32067.390				
	0.000	20670.71	894.448	4.817	4.544	4.152	3.676	95.869	32289.527				
24	0.500	19401.18	604.171	4.748	4.310	3.675	3.002	278.783	28937.618	33	4.01	RHS	Doubtful
	0.500	19376.65	600.255	4.747	4.305	3.666	2.990	284.013	28910.580				
	0.500	19322.15	591.722	4.744	4.294	3.644	2.961	288.888	28170.828				
25	1.000	19909.09	697.161	4.776	4.409	3.874	3.270	204.719	32649.385	43	4.59	LHS	ok
	1.000	19899.11	695.086	4.776	4.408	3.870	3.265	206.620	32659.244				
	1.000	19905.16	696.342	4.776	4.409	3.872	3.268	208.613	33153.349				
26	1.500	19853.14	685.678	4.773	4.402	3.858	3.249	216.934	33407.116	44	4.67	RHS	ok
	1.500	19864.14	687.909	4.774	4.401	3.856	3.246	220.347	33761.160				
	1.500	19859.85	689.072	4.773	4.399	3.852	3.240	216.685	32878.189				
27	2.000	19696.95	655.355	4.765	4.368	3.792	3.157	247.737	32819.990	42	4.55	LHS	ok
	2.000	19627.6	642.658	4.761	4.355	3.764	3.121	261.390	32654.721				
	2.000	19602.76	638.219	4.759	4.350	3.755	3.108	262.591	32129.696				
28	2.500	19924.54	700.391	4.777	4.412	3.879	3.278	175.744	28419.808	36	4.19	RHS	Doubtful
	2.500	19992.72	714.974	4.781	4.425	3.905	3.315	172.925	29747.082				
	2.500	20089.04	736.511	4.786	4.443	3.942	3.366	167.640	31523.370				
Road No.2.7 Katyamaruti chowk													
29	0.000	19924.51	700.385	4.777	4.412	3.879	3.278	205.613	33249.007	44	4.64	LHS	ok
	0.000	19914.57	698.304	4.777	4.411	3.876	3.273	210.650	33760.714				
	0.000	19856.71	686.401	4.773	4.399	3.853	3.242	213.184	32449.250				
30	0.500	19973.48	710.805	4.780	4.422	3.898	3.304	181.620	30699.711	35	4.16	RHS	Doubtful
	0.500	19908.6	697.059	4.776	4.409	3.873	3.270	187.074	29822.100				
	0.500	19843.23	683.680	4.773	4.397	3.848	3.235	190.686	28681.020				
31	1.000	20187.79	759.801	4.792	4.461	3.979	3.419	160.087	33050.043	46	4.72	LHS	ok
	1.000	20201.24	763.073	4.792	4.464	3.984	3.426	162.879	34062.892				
	1.000	20183.16	758.681	4.791	4.461	3.977	3.416	165.937	34106.618				

Point	Chainage	Area -A	I (mm)	d0 (mm),	d1 (mm),	d2 (mm),	d3 (mm),	Subgrade k	Concrete f _c	Concrete f _{ck} (MPa)	Flexural strength, Mpa	Location	Remark
32	1500	20665.63	892.826	4.817	4.543	4.152	3.673	97.709	32730.558	42	4.53	RHS	ok
	1500	20589.68	869.150	4.813	4.531	4.124	3.633	103.612	32019.361				
	1500	20635.12	883.187	4.815	4.538	4.140	3.657	99.739	32340.009				
33	2000	19251.32	580.964	4.740	4.279	3.616	2.925	376.510	34748.889	48	4.84	LHS	ok
	2000	19221.65	576.563	4.739	4.273	3.604	2.910	383.542	34599.591				
	2000	19189.98	571.936	4.737	4.267	3.592	2.894	389.601	34306.781				
34	2500	19554.61	629.771	4.757	4.340	3.736	3.083	246.991	29036.620	33	4.04	RHS	Doubtful
	2500	19529.35	625.420	4.755	4.335	3.726	3.069	249.649	28745.088				
	2500	19554.79	629.802	4.757	4.340	3.736	3.083	244.171	28709.247				
Road No.2.8 Katyamaruti chowk To Devi Temple													
35	0.000	19936.73	702.959	4.778	4.415	3.884	3.285	186.068	30421.393	36	4.23	LHS L1	Doubtful
	0.000	19904.51	696.207	4.776	4.409	3.872	3.268	189.732	30135.007				
	0.000	19885.43	692.263	4.775	4.405	3.864	3.257	192.354	30035.194				
36	0.000	20061.4	730.215	4.785	4.438	3.932	3.351	160.098	29339.673	34	4.05	LHS L2	Doubtful
	0.000	20028.9	722.931	4.783	4.432	3.919	3.334	160.655	28569.583				
	0.000	20018.02	720.523	4.782	4.430	3.915	3.328	164.310	28928.497				
37	0.000	19700.19	655.960	4.765	4.369	3.793	3.159	229.629	30505.360	38	4.32	RHS R1	Doubtful
	0.000	19713.46	658.446	4.766	4.372	3.798	3.166	232.649	31259.348				
	0.000	19677.38	651.727	4.764	4.365	3.784	3.147	236.898	30865.614				
38	0.000	19478.42	616.815	4.753	4.325	3.706	3.043	296.543	32754.313	42	4.54	RHS R2	ok
	0.000	19416.67	606.668	4.749	4.313	3.682	3.010	305.373	32092.336				
	0.000	19462.43	614.157	4.752	4.322	3.700	3.034	297.146	32398.535				

Report No.

:- CIPL/NSK/R/072610/25

ULR No.

:- TC16388250000072610F

Client Name

:- Executive Engineer, Panchvati Division NMC Nashik.

Name of Consultant

:- CivilTech India Pvt. Ltd.

Name of Work

:- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Type of Pavement

:- Flexible

Location

:- Chainage 0.000 to 0.150

Job no.

:- 072610

Method Used

:- IRC 115:2014

Date of performance of test

:- 26.07.2025

Date :- 12-08-2025

Test Report

Test Results for Falling Weight Deflectometer Test

SR. No.	Lane Position	Chianage	Air Temperature re °C	Pavement Temperature re °C	Load Drop No.	Peak Load Applied (kN)	Actual Deflection (µm) at Radial Distance (mm) of						Remarks	
							0	200	300	450	600	900		1500
Road No. 2.1 Ramkund to sarvajanik vachnalaya														
1	LHS	0.000	25.4	27.4	1	40.2	575.3	483.8	359.4	321.8	223.7	115.3	94.3	-
	0	0.000	25.2	27.3	2	39.7	568.1	481.6	351.4	328	221	117.1	98.7	-



SR. No.	Lane Position	Chianage	Air Temperature re °C	Pavement Temperature re °C	Load Drop No.	Peak Load Applied (kN)	Actual Deflection (µm) at Radial Distance (mm) of						Remarks	
							0	200	300	450	600	900		1500
2	0	0.000	25.2	27.1	3	39.3	570.5	486.1	356.7	334.8	224.3	117.5	99.6	-
	RHS	0.131	25.4	27.4	1	41.3	588.6	502.1	318.7	196	135.5	61.5	52.1	-
	0	0.131	25.3	27.4	2	41.4	597.6	533.4	319.6	200.7	142.1	73.6	53.1	-
	0	0.131	25.4	27.5	3	39.4	594.3	506.9	317.2	199.8	140.6	78.4	54.1	-

Notes:-

- 1) This report refers only to the particular chainage of road tested on site at time of performance of Test.
- 2) Report Shall not be reproduced except in full without prior written permission of CivilTech Lab.
- 3) As per IRC 115-2014, clause 6.4, for flexible pavements, the range for the pavement temperature is 20 to 45°C and standard recommended pavement temperature is 35°C.
- 4) As per IRC 115-2014, clause 4.4, the target peak load to be applied on bituminous pavements is 40±4 kN.

For Civil Tech India Pvt. Ltd.,

Reviewed By
Vaishali A. Kachare

Authorised Signatory
Minal V. Bagul



Report No
ULR No:- CIPL/NSK/R/072610/25
:- TC16388250000072610F

Date

:- 12-08-2025

Client Name

:- Executive Engineer, Panchvati Division NMC Nashik.

Name of Consultant

:- CivilTech India Pvt. Ltd.

Name of Work

:- Proposed Developing of Road from Ramkund to Sarvajani Vachnalaya to Panchavati
Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Type of Pavement

:- Rigid

Location

:- Chainage 0.000 to 0.400, 0.000 to 0.150,0.000 to 0.550,0.000 to 70, 0.000 to 60,0.000 to
60,0.000 to 0.150

Job no.

:- 072610

Method Used

:- IRC 117:2017

Date of performance of test

:- 26/07/2025

Test Report

Test Results for Falling weight Deflectometer

SR. No.	Lane Position	Chianage	Air Temperature °C	Pavement Temperature °C	Load Drop No.	Peak Load Applied (kN)	Actual Deflection (µm) observed at radial Distance (mm) of				Remarks
							0	300	600	900	
Road No. 2.2 Sarvajani vachnalaya to panchavati karanja to nimani chowk											
1	LHS L1	0.000	27.2	25.7	1	58.1	190.5	176.4	159.3	150.8	-
			27.1	25.7	2	60.7	188.7	174.1	158.3	145.7	-
			27.2	25.8	3	59.1	187.4	173.6	156.4	146.5	-
2	LHS L2	0.000	27.4	28.8	1	60.3	100.2	92.4	79.5	61.4	-
			27.2	28.4	2	60.1	98.0	90.6	75.5	64.2	-



SR. No.	Lane Position	Chinage	Air Temperature °C	Pavement Temperature °C	Load Drop No.	Peak Load Applied (kN)	Actual Deflection (µm) observed at radial Distance (mm) of				Remarks
							0	300	600	900	
3	RHS R1		27.6	28.6	3	60.3	99.4	91.4	75.8	67.8	-
		0.000	27.2	28.3	1	60.1	113.9	98.6	93.9	76.5	-
			27.1	28.1	2	60.7	113.6	97.8	90.6	83.4	-
		27.5	28.4	3	60.7	114.3	96.4	91.3	86.7	-	
4	RHS R2	0.000	29.2	28.4	1	59.2	131.2	121.6	110.0	85.9	-
			29.1	28.2	2	58.8	129.6	119.1	108.5	86.1	-
			29.1	28.2	3	58.9	135.5	125.3	112.1	92.8	-
Road No. 2.4 Puriya park to RP vidyalaya											
5	LHS L1	0.000	29.0	29.1	1	61.0	128.0	117.5	106.9	82.5	-
			29.0	29.1	2	60.7	128.1	117.2	107.3	83.2	-
			29.1	29.1	3	60.7	127.2	119.6	104.2	80.1	-
6	LHS L2	0.000	29.0	29.0	1	60.0	95.4	86.8	78.3	52.6	-
			29.1	29.0	2	60.3	95.8	87.3	77.5	54.6	-
			29.2	29.2	3	59.9	95.9	88.4	76.9	53.4	-
7	RHS R1	0.000	29.0	29.6	1	61.3	85.1	78.5	67.8	45.2	-
			29.1	29.7	2	61.4	85.8	77.8	67.4	49.9	-
			29.1	29.9	3	61.0	84.1	78.3	65.2	46.8	-
8	RHS R2	0.000	29.0	29.1	1	60.8	76.9	65.4	57.8	48.6	-
			29.1	29.0	2	60.3	75.7	64.8	56.7	49.0	-
			29.0	29.2	3	60.3	75.9	63.4	58.0	48.4	-
Road No. 2.6 Nimani to katayamaruti chowk to NH3											
9	LHS L1	0.000	29.0	27.9	1	60.3	90.8	83.4	76.3	42.4	-
			28.9	27.6	2	59.3	93.8	85.8	77.9	47.9	-
			28.8	27.8	3	59.5	95.6	87.7	81.1	45.1	-
10	LHS L2	0.000	29.2	27.1	1	59.3	92.4	85.3	73.9	50.7	-
			29.2	27.2	2	59.5	94.5	88.5	74.6	51.8	-

SR. No.	Lane Position	Chinage	Air Temperature °C	Pavement Temperature °C	Load Drop No.	Peak Load Applied (kN)	Actual Deflection (µm) observed at radial Distance (mm) of				Remarks
							0	300	600	900	
11	LHS L1	0.500	29.1	27.1	3	59.3	90.8	82.6	70.1	57.6	-
			29.1	28.2	1	61.8	118.7	111.4	94.8	76.7	-
			29.1	28.2	2	61.2	119.4	112.7	93.3	81.2	-
			29.0	28.2	3	60.6	121.1	111.2	95.6	88.6	-
12	LHS L2	0.500	29.2	27.2	1	59.2	169.5	155.3	141.5	130.5	-
			29.5	27.5	2	58.7	166.8	153.9	140.1	124.1	-
			29.1	27.2	3	58.3	168.4	154.9	140.3	127.8	-
			29.2	27.2	1	61.8	84.3	77.6	60.4	56.4	-
13	RHS R1	0.500	29.5	27.2	2	60.3	80.8	75.4	59.4	47.9	-
			29.0	27.5	3	61.1	82.4	77.5	60.3	48.2	-
			28.9	28.8	1	59.5	88.4	76.3	71.5	53.0	-
			29.0	28.8	2	59.2	87.9	77.7	69.3	52.5	-
14	RHS R2	0.500	29.0	28.7	3	60.1	87.8	78.0	69.7	49.2	-
			27.2	29.2	1	60.7	91.9	75.4	71.9	69.5	-
			29.1	29.1	2	60.6	92.1	80.1	72.6	60.2	-
			28.9	29.0	3	60.2	91.8	79.7	72.2	61.2	-
15	RHS R1	0.000	28.4	27.5	1	61.3	151.4	139.1	130.0	99.6	-
			28.6	27.3	2	60.1	143.4	131.6	121.3	98.5	-
			28.4	27.4	3	59.8	147.7	137.0	124.6	99.3	-
			Road No.2.3 Nimani chowk								
16	RHS R2	0.000	27.7	29.9	1	59.4	165.5	152.8	140.2	119.5	-
			27.7	26.0	2	59.3	168.2	156.3	144.5	114.5	-
			27.9	26.0	3	60.1	166.8	155.8	146.3	105.2	-
			27.3	26.8	1	60.8	95.0	88.5	75.5	51.6	-
17	LHS	0.000	27.3	26.9	2	60.9	95.0	89.7	76.8	45.7	-
			27.1	26.7	3	61.0	94.6	87.6	77.5	46.6	-
			27.7	29.9	1	59.4	165.5	152.8	140.2	119.5	-
			27.7	26.0	2	59.3	168.2	156.3	144.5	114.5	-
18	RHS	0.500	27.9	26.0	3	60.1	166.8	155.8	146.3	105.2	-
			27.3	26.8	1	60.8	95.0	88.5	75.5	51.6	-
			27.3	26.9	2	60.9	95.0	89.7	76.8	45.7	-
			27.1	26.7	3	61.0	94.6	87.6	77.5	46.6	-



SR. No.	Lane Position	Chinage	Air Temperature °C	Pavement Temperature °C	Load Drop No.	Peak Load Applied (kN)	Actual Deflection (µm) observed at radial Distance (mm) of				Remarks
							0	300	600	900	
19	LHS	1.000	27.2	26.4	1	60.3	78.6	73.5	61.2	36.4	-
			27.2	26.3	2	60.6	78.2	72.9	61.2	35.5	-
			27.3	26.9	3	60.6	78.9	72.5	62.6	36.8	-
20	RHS	1.500	27.9	26.2	1	60.4	92.6	79.6	75.6	57.5	-
			27.2	26.1	2	60.5	92.3	77.3	75.5	60.8	-
			27.3	26.1	3	61.0	93.0	77.3	74.8	62.6	-
21	LHS	2.000	27.4	26.2	1	60.1	138.8	129.6	111.1	100.8	-
			27.4	26.0	2	60.1	138.8	128.8	113.6	97.6	-
			27.3	26.0	3	60.1	138.6	130.2	114.2	91.6	-
22	RHS	2.500	26.8	26.4	1	60.4	101.8	85.6	82.6	71.5	-
			27.4	26.0	2	60.4	100.7	86.1	80.1	70.5	-
			27.3	26.9	3	60.0	100.5	85.7	80.3	69.4	-
Road No.2.5 Nimani busstand											
23	LHS	0.000	25.4	29.9	1	59.4	216.5	203.7	195.6	140.6	-
			25.4	29.8	2	60.1	215.6	200.9	196.8	138.5	-
			25.3	29.8	3	59.8	216.8	200.0	198.4	144.1	-
24	RHS	0.500	25.5	29.6	1	60.9	108.5	94.8	90.5	64.7	-
			25.1	29.4	2	60.3	106.3	94.4	87.3	62.4	-
			25.4	29.3	3	60.9	106.7	94.4	87.1	62.9	-
25	LHS	1.000	25.6	29.2	1	59.8	127.8	118.5	106.5	79.5	-
			25.5	29.0	2	59.8	127.3	119.2	105.3	78.1	-
			25.5	29.9	3	59.7	125.9	117.7	104.8	76.5	-
26	RHS	1.500	25.5	29.4	1	58.8	119.5	110.8	98.5	75.3	-
			25.6	29.3	2	58.9	117.8	109.7	96.1	75.1	-
			25.5	29.2	3	59.5	120.4	111.2	97.1	80.5	-
27	LHS	2.000	25.6	29.4	1	61.8	115.4	106.6	94.1	70.4	-
			26.2	29.2	2	60.8	112.1	105.3	92.6	60.5	-





SR. No.	Lane Position	Chinage	Air Temperature °C	Pavement Temperature °C	Load Drop No.	Peak Load Applied (kN)	Actual Deflection (µm) observed at radial Distance (mm) of				Remarks
							0	300	600	900	
28	RHS		25.5	29.0	3	61.2	112.4	104.2	93.2	62.0	-
		2.500	25.5	29.1	1	59.4	142.0	119.5	117.2	115.5	-
			25.4	29.0	2	59.8	142.6	120.3	118.4	116.5	-
			25.5	29.0	3	59.8	143.4	123.5	119.1	115.6	-
Road No.2.7 Katyamaruti chowk											
29	LHS	0.000	25.6	29.1	1	60.2	125.7	115.6	102.3	85.5	-
			25.6	29.1	2	59.7	122.4	114.2	98.6	81.7	-
			25.6	29.0	3	59.7	123.4	114.8	100.2	79.6	-
30	RHS	0.500	25.8	29.3	1	60.6	138.9	120.3	114.5	108.2	-
			25.9	29.4	2	60.4	137.0	120.0	111.4	104.8	-
			25.8	29.2	3	60.8	137.9	122.0	110.7	103.6	-
31	LHS	1.000	25.9	29.6	1	60.6	150.1	139.6	122.6	108.3	-
			25.8	29.5	2	60.5	146.8	135.4	121.6	105.3	-
			25.9	29.4	3	61.0	147.2	138.6	121.3	100.5	-
32	RHS	1.500	25.9	29.3	1	59.3	207.6	192.6	181.5	152.5	-
			25.8	29.3	2	59.3	202.5	188.3	178.8	140.4	-
			25.9	29.1	3	59.6	206.5	193.5	177.9	151.5	-
33	LHS	2.000	26.0	29.6	1	61.1	82.3	75.4	61.5	53.2	-
			26.0	29.6	2	61.0	81.4	75.3	60.2	51.8	-
			26.0	29.3	3	61.8	82.2	76.3	61.2	50.3	-
34	RHS	2.500	25.7	29.9	1	60.6	114.3	99.3	90.6	83.3	-
			25.8	29.7	2	59.9	113.1	98.5	91.0	78.5	-
			26.0	29.7	3	60.0	114.2	96.8	92.0	85.1	-
Road No.2.8 Katyamaruti chowk To Devi Temple											
35	LHS L1	0.000	26.1	29.3	1	59.8	135.7	118.5	112.3	101.6	-
			26.1	29.2	2	59.9	134.5	115.2	113.1	100.5	-
			26.2	29.0	3	60.1	133.5	116.7	108.8	101.3	-



SR. No.	Lane Position	Chianage	Air Temperature °C	Pavement Temperature °C	Load Drop No.	Applied Peak Load (kN)	Actual Deflection (µm) observed at radial Distance (mm) of				Remarks
							0	300	600	900	
36	LHS L2	0.000	26.1	29.9	1	59.4	151.2	130.2	128.3	115.4	-
			26.2	29.7	2	59.4	151.6	129.6	127.5	118.6	-
			26.2	29.7	3	59.9	150.0	130.1	124.5	116.5	-
37	RHS R1	0.000	26.3	29.5	1	61.1	118.8	99.5	96.8	93.2	-
			26.4	29.3	2	62.7	119.8	99.6	97.9	95.3	-
			26.3	29.2	3	60.3	115.2	97.7	95.6	83.8	-
38	RHS R2	0.000	26.3	29.3	1	60.0	100.2	92.3	81.9	55.6	-
			26.3	29.3	2	60.2	100.1	92.8	81.9	52.6	-
			26.9	29.1	3	60.1	100.7	93.1	82.0	55.4	-

Notes:-

- 1) This report refers only to the particular chainage of road tested on site.
- 2) Report Shall not be reproduced except in full without prior written permission of CivilTech Lab.
- 3) As per IRC 117-2015, clause 6.2, for rigid pavements, FWD operator can suspend testing if pavement becomes too hot (>40°C)

For Civil Tech India Pvt. Ltd,

Reviewed By
Vaishali A. Kachare

Authorised Signatory
Minal V. Bagul



1.7 DISCUSSION AND CONCLUSION OF RESULT VALUES:

For the project Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.

Civil Tech's Eray-FWD20MT Falling Weight Deflectometer was engaged for data collection and the survey was carried on 26/07/2025. 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 has crust thickness of 100 mm on BHS side.
- Granular thickness is 200 mm on BHS side.
- The design MSA is 40.
- With consideration of 105 mm thick overlay at LHS & RHS section as an addition on the pavement, it is noted be satisfactorily safe in terms of Fatigue performance of Bituminous Layer and Rutting performance based on Subgrade Layer.

- However as required by the office of Nashik Municipal Corporation following are the recommendation :
 1. For Road 2.1 Minimum thickness of BC 40mm, DBM 60mm and 50% BM as Correction Layer is proposed.
 2. For Road 2.2 has 25% Panal Replacement Required.
 3. For Road 2.3 has Panal Replacement Required.
 4. For Road 2.4 has Panal Replacement Required.
 5. For Road 2.5 has Panal Replacement Required.
 6. For Road 2.6 has 5% Panal Replacement Required.
 7. For Road 2.7 has Panal Replacement Required.
 8. For Road 2.8 has Panal Replacement Required.

For Civil Tech India Pvt. Ltd.,

**Reviewed By
Vaishali A. Kachare**

**Authorised Signatory
Minal V. Bagul**

Report No :- CIPL/NSK/R/072610/25
Date :- 12/08/2025

Test Report

Customer Name :- Executive Engineer, Panchvati Division NMC Nashik.
Address :- Nashik Municipal Corporation Public Works Panchwati Division Nashik
Name of Consultant :- CivilTech India Pvt. Ltd.
Name of the work :- Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.
Material identification :- Crust Thickness Measure on Site
Job No. :- 072610
Date of Performance :- 26/07/2025

Road No.	Name of the work	THICKNESS AS PER SITE (MM)		
		Bitumen Layer	Granular Layer	Subgrade Layer
2	Proposed Developing of Road from Ramkund to Sarvajanik Vachnalaya to Panchavati Karanja to Nimani chowk to katyamaruti chowk to NH3. NMC, Nashik.	100	200	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
Authorised Signatory
Minal V. Bagul



Report No. :- CT/NSK/R/12458/25
ULR No :- TC536425000012458F

Date :- 13/08/2025

Test Report

Customer Name :- Executive Engineer Panchavati Division NMC Nashik.

Address :- Nashik

Name of work :- Proposed Developing of Road From Ramkund to Sarvajanik vachnalaya to panchavati karanja to Nimani Chowk to katyamaruti Chowk to NH 3. NMC , Nashik

Material identification :- Brownish Silty Soil (Road No.2)

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

Job No. :- 072607

Date of receipt of material :- 26/07/2025 **Date of performance of test** :- 26/07/2025 to 12/08/2025

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

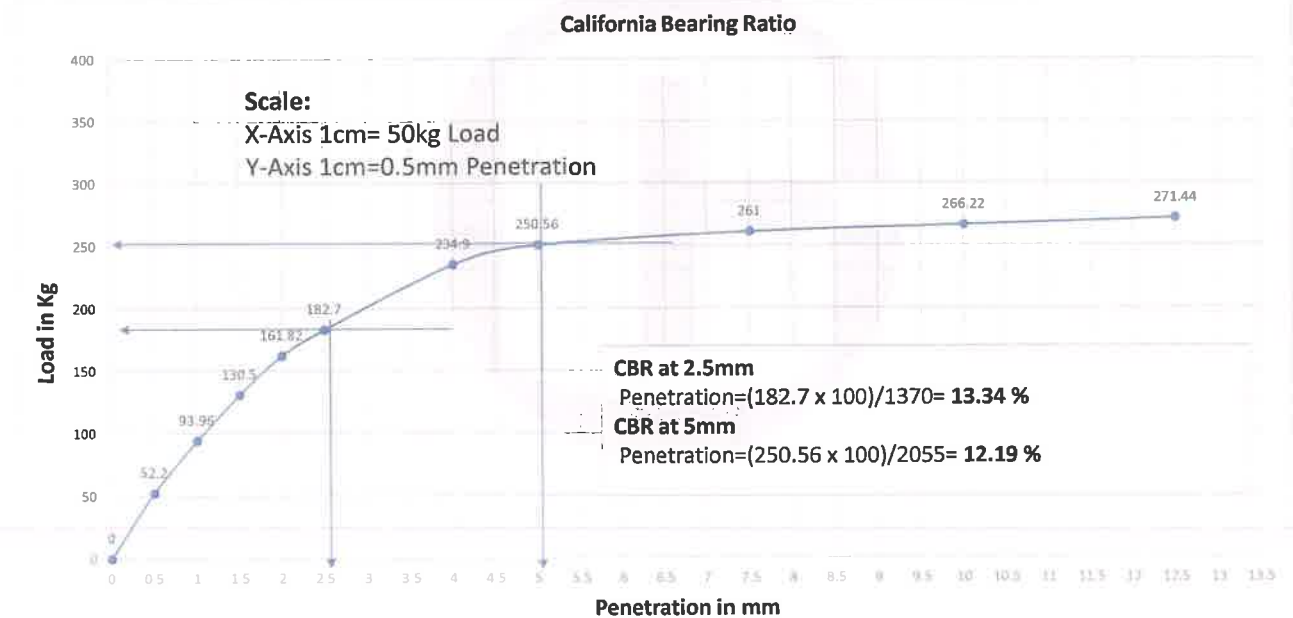
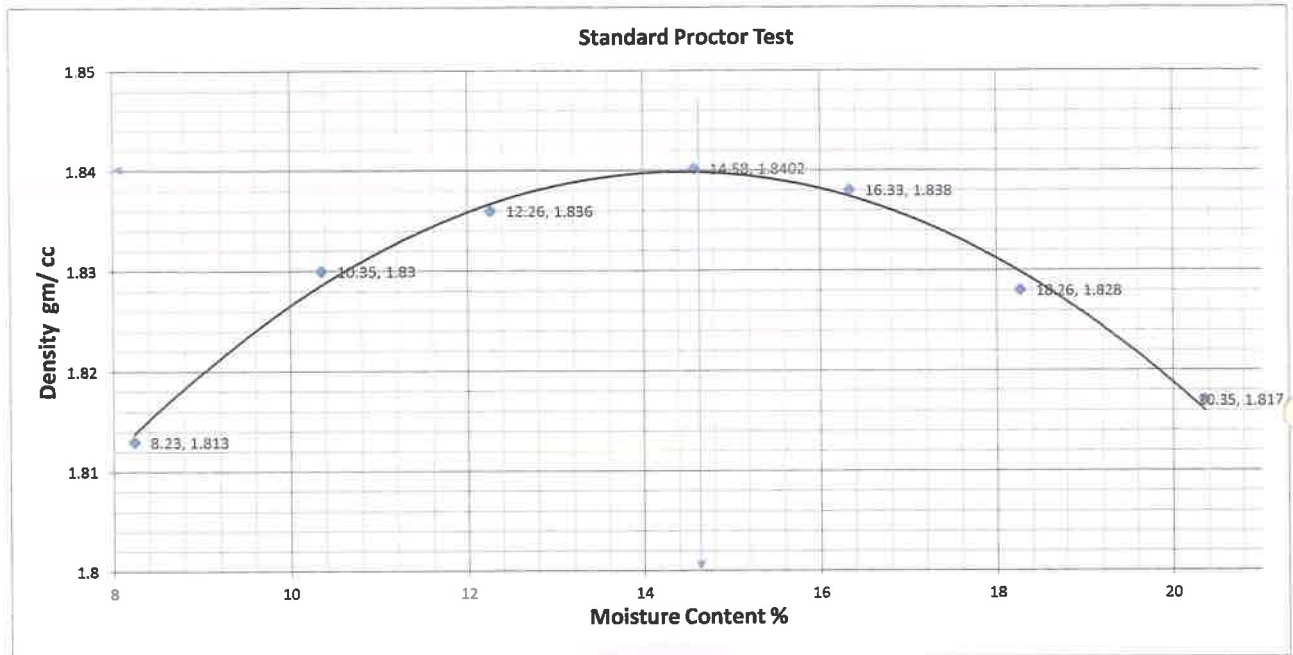
Sr. No.	Sample Identification	Grain size Analysis			Atterberg Limits			Max. Dry Density (MDD)	Optimum moisture Content (OMC)	CBR	FSI
		Gravel	Sand	Silt and clay	Liquid Limit (wL)	Plastic Limit (wp)	Plasticity Index (Ip)				
		(> 4.75 mm)	(4.75 to 0.075 mm)	(<0.075mm)							
		%	%	%							
1	Brownish Sandy Soil (Road No.2)	12.6	38.4	49.0	44.7	18.2	26.5	1.84	14.6	13.3	50.0



For CivilTech India Pvt. Ltd.

Reviewed and Authorized by





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

M. S. G. S.



TC-5364



Figure 3.1 Soil Collection On Site Photos



Nashik Municipal Corporation



Electrical & Mechanical Department :- Electrical Branch

Fund Head :-

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

Deputy Engineer :- Shri. S. I. Kulkarni

Executive Engineer :- Shri. A. S. Gaikwad

Name of work :- **Part-A** Supplying and erecting of streetlight pole and allied works of Amrut Miravnuk Marg, Panchavati division, NMC.

Part-B Shifting of HT, LT lines and allied works of Amrut Miravnuk Marg, Panchavati division, NMC.

Estimate Rs. :- 19669686.00 (Part A)+13307305.00 (Part B)= 32976991.00

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


Jr./Sect Engineer
NMC


Dy. Engineer
NMC


Exe. Engineer
NMC

Technical Scrutiny

Technically Sanctioned for Rs. :- 32976991.00

In Words :- Three crore twenty nine lakh seventy six thousand nine hundred ninety one Rs. only

Vide No. :- SE - 98

Date :- 17/11/2025

APPROVED


Superintending Engineer
Electrical and Mechanical Department
Nashik Municipal Corporation, Nashik

A B S T R A C T

Name of work: Supplying and erecting streetlight pole and allied works of Amrut Miravnuk Marg, Panchavati division, NMC.

S. N	Item	Qty	Per	Rate	Amount
1	Supplying and erecting 7 m high (clear height) galvanised octagonal pole with foundation bolts having bottom of 130 mm A/F, top 70 mm A/F on provided foundation (PWD DSR 2023-24, 8-2-13)	10	Nos	17220.00	172200.00
2	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)	5	Nos	21847.00	109235.00
3	Supplying and erecting 12.5 m (clear height) motorized high-mast (Top -150mm, Bottom-360mm) hot dipped galvanized material with average minimum thickness 65 micron, made from high tensile structure grade steel as per BSEN - 10025 S 355/E350 & 3mm thickness, with base plate 25 mm thick x OD 520 mm grade as per IS-2062, pole made in single section & submerge arc welded, with lowering & raising motorized unit, wire rope stainless steel 316 grade 2 nos., 7x19 construction 5mm, SG-DG U clamps, double drum with assembly 250 kg, 5x2.5 Sq.mm. flexible copper cable with lantern carriage assembly suitable for max. 12 nos. luminaries and its control gear box, lightning arrestor, arrangement for fixing aviation light, night glow reflector on pole at suitable height, etc complete (PWD DSR 2023-24, 8-2-1)	3	Nos	230158.00	690474.00
4	Supplying and erecting galvanised 1000mm single arm sword type bracket with FRP dome and ball (PWD DSR 2023-24, 8-2-19)	8	Nos	2710.00	21680.00
5	Supplying and erecting galvanised 1000mm double arm sword type bracket with FRP dome and ball (PWD DSR 2023-24, 8-2-20)	7	Nos	4500.00	31500.00
6	Making M-20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity as 10 T/sq.m at 1.5m depth including supply of steel, concrete, excavation, fixing provided nut bolts with the help of template, duly plastered as per design complete (for 3 to 5m octagonal/ conical GI pole). (PWD DSR 2023-24, 16-3-8)	35	No	4090.00	143150.00

S. N	Item	Qty	Per	Rate	Amount
7	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)	85	Nos	4873.00	414205.00
8	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)	5	Nos	6437.00	32185.00
9	Making M-20 cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 2m depth including excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 12.5m raising lowering high mast). (PWD DSR 2023-24, 16-3-12)	3	Nos	29037.00	87111.00
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 reinforcement of various diameters for RCC work, sand faced plaster externally in cement mortar, etc complete	5	Cub.M	11551.00	57755.00
11	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)	10	Nos	790.00	7900.00
12	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)	13	Nos	5753.00	74789.00
13	Supplying and erecting integrated LED street light fitting 85-90W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 9300 Lumens, min. efficacy of 110 lumen/W, etc complete. (PWD DSR 2023-24, 2-3-7)	10	Nos	6726.00	67260.00

S. N	Item	Qty	Per	Rate	Amount
14	Supplying and erecting integrated LED flood light fitting Max. 195W IP65 & IK07 class having pressure die-cast aluminium housing, having system lumens output of Min. 23400 Lumens, etc complete (PWD DSR 2023-24, 2-3-18)	18	No	17660.00	317880.00
15	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)	2900	Mtr	183.00	530700.00
16	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)	100	Mtr	215.00	21500.00
17	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)	1350	Mtr	70.00	94500.00
18	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)	200	Mtr	85.00	17000.00
19	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)	165	No	250.00	41250.00
20	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
21	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)	40	Mtr	219.00	8760.00
22	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)	2750	Mtr	204.00	561000.00
23	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)	120	Mtr	333.00	39960.00

S. N	Item	Qty	Per	Rate	Amount
24	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. for automatic operation with overcurrent, short circuit, earth fault protection on provided iron frame (PWD DSR 2023-24, 5-2-6)	2	Nos	31461.00	62922.00
25	Supplying and erecting outdoor stand mounted feeder pillar for high-mast of the same manufacturer with 63A TPN MCB incomer, 24hr astronomical time switch with minimum 5 Years battery backup, 45 A TP contactor for automatic switching of luminaries, 2 no 9A contactors and raise/lower push button, and provision for termination of adequate size of incoming and outgoing cables complete erected in min. 14 SWG CRCA sheet box powder coated with supporting angles, self lock, gasket and slanting top erected on CC foundation complete. (PWD DSR 2023-24, 8-2-22)	3	No	33144.00	99432.00
26	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)	160	Nos	1537.00	245920.00
27	Supplying and erecting 7 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.	75	Nos	55100.00	4132500.00
28	Supplying and erecting 5 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.	10	Nos	54650.00	546500.00
29	Supplying and erecting 3 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.	25	Nos	45980.00	1149500.00
30	Supplying and erecting decorative double arm bracket for 3/5 m decorative pole etc complete.	35	Nos	22000.00	770000.00
31	Supplying and erecting decorative single arm bracket for 7/8 m decorative pole etc complete.	75	Nos	19210.00	1440750.00
32	Supplying and erecting decorative double arm bracket for 7/8 m decorative pole etc complete.	1	Nos	33500.00	33500.00

S. N	Item	Qty	Per	Rate	Amount
33	Supplying and erecting decorative integral hanging LED fixtures of 50 W consisting with accessories on provided pole /bracket	50	Nos	7100.00	355000.00
34	Supplying and erecting decorative integral hanging LED fixtures of 120 W consisting with accessories on provided pole /bracket	75	Nos	10940.00	820500.00
35	Supplying and erecting decorative integral post top lantern LED fixtures of 50 W consisting with accessories on provided pole /bracket	20	Nos	9975.00	199500.00
36	Supplying and erecting 9 mtr Decorative Stambh pole STB-1, With foundation, installation with Warm White light	1	No	1568000.00	1568000.00
37	Supplying and erecting 9 mtr Decorative Stambh pole STB-2, With foundation, installation with Warm White light	1	No	1595000.00	1595000.00
38	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).	210.86	Kg	261.00	55035.50
39	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)	47	Nos	1043.00	49021.00
Total					16669225
GST @18%					3000460
Total					19669686


 Junior Engineer
 Electrical Department


 Deputy Engineer
 Electrical Department

A B S T R A C T

Name of work: Shifting of HT, LT lines and allied works of Amrut Miravnuk Marg, Panchavati division, NMC.

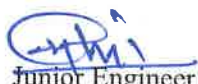
S. N	Item	Qty	Per	Rate	Amount
1	Providing and fixing inline cut point D. P. Structure for 11/0.415 kV, 200 KVA Transformer with R.S.J. Pole 2 Nos. of size 100 x 116 mm x 11 Mtr. Long with suitable Distribution Box of C.R.C.A. Sheet 16 SWG with 4 Pole MCCB 400 Amps as incomer & 6 Nos. 200 Amps Kitkat / 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 mm x 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 x 40 mm for erecting D.O. Fuse Set, L.A., A.B. Switch handle etc. Angle of size 50 x 50 x 6 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)	2	Nos	167122.00	334244.00
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).	1	No	308133.00	308133.00
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)	234	Mtr	2681.00	627354.00
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)	220	Mtr	1840.00	404800.00
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)	88	Mtr	1164.00	102432.00
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)	5	Nos	2010.00	10050.00
7	Providing and fixing HT stay wire	75	Kg	150.00	11250.00
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)	38	Nos	3536.00	134368.00

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)	5	Nos	2491.00	12455.00
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 reinforcement of various diameters for RCC work, sand faced plaster externally in cement mortar, etc complete	8	Cub.M	11551.00	92408.00
11	Providing and fixing various channels, clamp, angle, flat etc fabrication works (PWD DSR 2023-24, 6-1-19)	1425	Kg	196.00	279300.00
12	Providing and fixing disc type insulator 70 KN with necessary hardware suitable for 33kV line complete (PWD DSR 2023-24, 8-5-8)	29	Nos	2037.00	59073.00
13	Providing and fixing disc type insulator 45KN with necessary hardware suitable for 11kV line, complete (PWD DSR 2023-24, 8-5-6)	32	Nos	1255.00	40160.00
14	Providing and fixing pin type insulator with GI pin suitable for 33kV line, complete (PWD DSR 2023-24, 8-5-11)	63	Nos	889.00	56007.00
15	Providing and fixing porcelain pin type insulator with GI pin suitable for 11kV line, complete (PWD DSR 2023-24, 8-5-9)	73	Nos	313.00	22849.00
16	Providing and fixing approved make thyrite type lightning arrestor suitable for 11KV line (PWD Elec 2023-24, 8-5-15)	4	No	1347.00	5388.00
17	Providing and fixing isolator suitable for 33KV capacity	1	No	86400.00	86400.00
18	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)	3	Nos	16128.00	48384.00
19	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)	2	No	6603.00	13206.00
20	Providing and fixing ACSR conductor of size - 6/1-4.72 mm (Dog) complete. (PWD DSR 2023-24, 8-4-11)	1.7	Km	97655.00	166013.50
21	Providing and fixing ACSR conductor of size - 6/1-4.09 mm (Raccon) complete (PWD DSR 2023-24, 8-4-10)	2.85	Km	77065.00	219635.25
22	Providing and fixing Nut bolts, hardware and Sundries, etc	3	Set	15000.00	45000.00
23	Providing and fixing extendable/non-extendable outdoor type 11 kV 630A, load break isolator switch, etc complete (PWD DSR 2023-24, 5-9-3)	1	No	152150.00	152150.00

S. N	Item	Qty	Per	Rate	Amount
24	Providing and fixing HT 11 kV 4 way feeder pillar.	3	Nos	82500.00	247500.00
25	Providing and fixing HT 33 kV 4 way feeder pillar.	3	Nos	225000.00	675000.00
26	Providing and fixing 11 kV HRC fuse 63A for load break switch with necessary nut bolts complete. (PWD DSR 2023-24, 5-9-10)	3	Nos	6077.00	18231.00
27	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)	45	Nos	1043.00	46935.00
28	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)	1.7	Km	1489.00	2531.30
29	Dismantling the existing lightening arrester set, insulator from DP structure complete. (PWD DSR 2023-24, 8-7-4)	12	Nos	108.00	1296.00
30	Dismantling the existing DP, brackets, clamps, insulators, stay, transformer from the c.c. foundation and re erecting existing transformer	2	Nos	17500.00	35000.00
31	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)	310	Mtr	3991.00	1237210.00
32	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)	305	Mtr	2764.00	843020.00
33	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 185 sq. mm. aluminium conductor laid in provided trench / pipe (PWD DSR 2023-24, 7-3-5)	60	Mtr	2008.00	120480.00
34	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)	60	Mtr	1354.00	81240.00
35	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)	3	Nos	92799.00	278397.00
36	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)	3	Nos	29627.00	88881.00
37	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
38	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
39	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)	6	Nos	33057.00	198342.00

S. N	Item	Qty	Per	Rate	Amount
40	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)	8	Nos	14682.00	117456.00
41	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)	3	Nos	13197.00	39591.00
42	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)	3	Nos	13964.00	41892.00
43	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)	200	Mtr	183.00	36600.00
44	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)	200	Mtr	215.00	43000.00
45	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)	1600	Mtr	1102.00	1763200.00
46	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)	14	Nos	2075.00	29050.00
47	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
48	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
49	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)	10	Nos	4014.00	40140.00
50	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)	260	Mtr	674.00	175240.00
51	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)	864	Mtr	545.00	470880.00

S. N	Item	Qty	Per	Rate	Amount
52	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)	200	Mtr	219.00	43800.00
53	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)	200	Mtr	204.00	40800.00
54	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)	1600	Mtr	333.00	532800.00
55	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
56	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)	50	Nos	1537.00	76850.00
57	Providing and fixing GI earth wire of high purity of different sizes used for earthing. (PWD DSR 2023-24, 9-2-5)	378.51	Kg	168.00	63589.68
58	Licencing work for line shifting Co-ordination with MSEDCL etc complete.	2	Job.	35000.00	70000.00
59	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)	8	Nos	55236.00	441888.00
Total					11277377
GST @18%					2029928
Total					13307305


 Junior Engineer
 Electrical Department


 Deputy Engineer
 Electrical Department

MEASUREMENT

Name of work: Supplying and erecting streetlight pole and allied works of Amrut Miravnuk Marg, Panchavati division, NMC.

S. N	Item	Qty	Per
1	7 m high (clear height) galvanised octagonal pole	10	Nos
2	9 m high (clear height) galvanised octagonal pole	5	Nos
3	12.5 m (clear height) motorized high-mast	3	Nos
4	Galvanised 1000mm single arm sword type bracket	8	Nos
5	Galvanised 1000mm double arm sword type bracket	7	Nos
6	M-20 grade reinforced cement concrete foundation(for 3 to 5m octagonal/conical GI pole)	35	No
7	M-20 grade reinforced cement concrete foundation(for 6m to 8m high octagonal pole)	85	Nos
8	M-20 grade reinforced cement concrete foundation(for 9m high octagonal pole).	5	Nos
9	M-20 cement concrete foundation (for 12.5m raising lowering high mast).	3	Nos
10	Making platform by making excavation for foundation	5	Cub.M
11	FRP box of size 300mm x 200mm x 125 mm, 2.7 mm thick	10	Nos
12	Integrated LED street light fitting 70-75W IP65 & IK08 class	13	Nos
13	Integrated LED street light fitting 85-90W IP65 & IK08 class	10	Nos
14	Integrated LED flood light fitting Max. 195W IP65 & IK07 class	18	No
15	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor	2900	Mtr
16	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor	100	Mtr
17	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	1350	Mtr
18	Mains with WP 2 x 6 sq. mm. 1.1kV. grade aluminium PVC insulated and PVC sheathed wires	200	Mtr
19	SPMCB 0.5A to 5A	165	No
20	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm.	2	Nos
21	Making trench in Hard murum/Tar road having 0.75m depth and minimum 0.3m width	40	Mtr
22	50 mm outside dia. double wall corrugated pipes (DWC)	2750	Mtr
23	90 mm outside dia. double wall corrugated pipes (DWC)	120	Mtr
24	Street light control panel	2	Nos
25	Outdoor stand mounted feeder pillar for high-mast	3	No
26	Pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod	160	Nos
27	7 m long decorative pole	75	Nos
28	5 m long decorative pole	10	Nos
29	3 m long decorative pole	25	Nos
30	Decorative double arm bracket for 3/5 m decorative pole	35	Nos
31	Decorative single arm bracket for 7/8 m decorative pole	75	Nos
32	Decorative double arm bracket for 7/8 m decorative pole.	1	Nos
33	Decorative integral hanging LED fixtures of 50 W consisting with accessories on provided pole /bracket	50	Nos

S. N	Item	Qty	Per
34	Decorative integral hanging LED fixtures of 120 W consisting with accessories on provided pole /bracket	75	Nos
35	Decorative integral post top lantern LED fixtures of 50 W consisting with accessories on provided pole /bracket	20	Nos
36	9 mtr Decorative Stambh pole STB-1, With foundation, installation with Warm White light	1	No
37	9 mtr Decorative Stambh pole STB-2, With foundation, installation with Warm White light	1	No
38	Making fabrication work using 16 gauge metal sheet including Iron work	210.86	Kg
39	Dismantling the existing pole above 6 m height with brackets, clamps, insulators, stay from the c.c. foundation	47	Nos



Deputy Engineer

Electrical Department

MEASUREMENT

Name of work: Shifting of HT, LT lines and allied works of Amrut Miravnuk Marg, Panchavati 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.	2	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.	1	No
3	Rolled steel joist (girder) pole 152 x 152 mm.	234	Mtr
4	Rolled steel joist (girder) pole 100 x 116 mm.	220	Mtr
5	Rolled steel joist (girder) pole 125 x 70 mm.	88	Mtr
6	G.I. stay set for poles.	5	Nos
7	HT stay wire.	75	Kg
8	Making Cement concrete foundation for above 9m poles.	38	Nos
9	Making Cement concrete foundation for stay.	5	Nos
10	Platform of M20 grade trap, steel bar reinforcement of various diameters for RCC work, sand faced plaster externally in cement mortar.	8	Cub.M
11	Fabrication works.	1425	Kg
12	Disc type insulator 70 KN with necessary hardware suitable for 33kV line.	29	Nos
13	Disc type insulator 45KN with necessary hardware suitable for 11kV line.	32	Nos
14	Pin type insulator with GI pin suitable for 33kV line.	63	Nos
15	Pin type insulator with GI pin suitable for 11kV line.	73	Nos
16	Thyrite type lightning arrestor	4	Nos
17	Isolator suitable for 33KV capacity	1	No
18	Air break switch without earth switch 11KV, 400A outdoor type gang operated air break, triple pole switch.	3	Nos
19	11 kV outdoor type drop out fuse with insulator complete.	2	No
20	ACSR conductor of size - 6/1-4.72 mm (Dog).	1.7	Km
21	ACSR conductor of size - 6/1-4.09 mm (Raccon).	2.85	Km
22	Nut bolts, hardware and Sundries.	3	Set
23	Outdoor type 11 kV 630A, load break isolator switch	1	No
24	HT 11 kV 4 way feeder pillar.	3	Nos
25	HT 33 kV 4 way feeder pillar.	3	Nos
26	11 kV HRC fuse 63A	3	Nos
27	Dismantling the existing pole above 6 m height.	45	Nos
28	Dismantling the existing overhead line.	1.7	Km
29	Dismantling the existing lightening arrestor set.	12	Nos
30	Dismantling the existing DP.	2	Nos
31	XLPE insulated, galvanised steel formed wire armoured (strip) cable 33 kV(E), 3 x 300 sq. mm. aluminium conductor.	310	Mtr
32	XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 300 sq. mm. aluminium conductor.	305	Mtr
33	XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 185 sq. mm. aluminium conductor.	60	Mtr
34	XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 95 sq. mm. aluminium conductor.	60	Mtr
35	Heat shrinkable straight through joint kit for 3 x 300sq.mm 33Kv (E) XLPE HT cable.	3	Nos
36	Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x300 sq. mm.	3	Nos

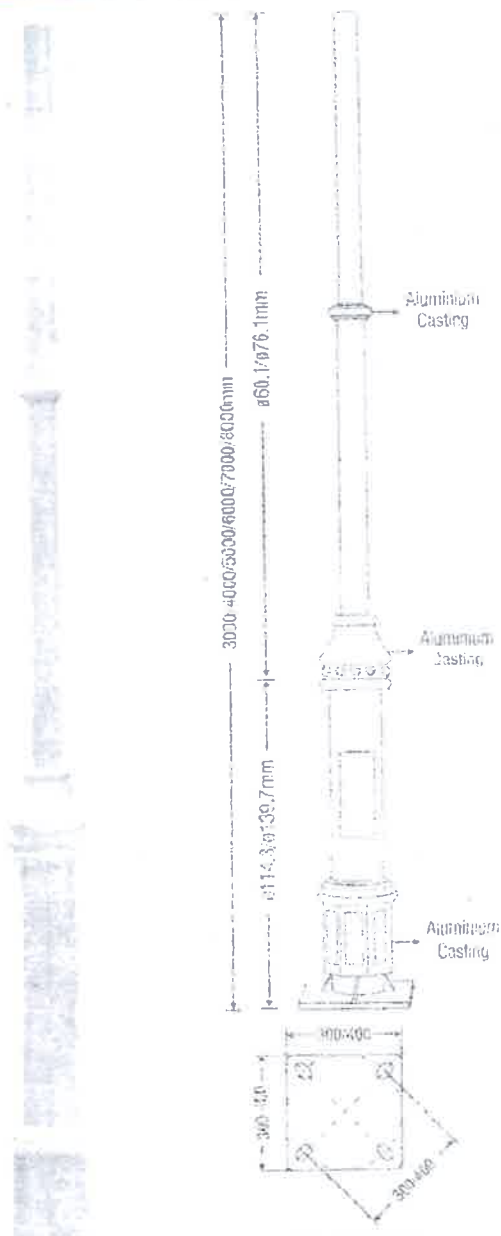
S. N	Item	Qty	Per
37	Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm.	2	Nos
38	Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x up to 95 sq. mm.	2	Nos
39	Heat shrinkable outdoor termination kit for 33kV (E) XLPE HT cable 3x300 sq. mm. to 400 sq. mm.	6	Nos
40	Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x300 sq. mm.	8	Nos
41	Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm.	3	Nos
42	Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x 95 sq. mm.	3	Nos
43	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor.	200	Mtr
44	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor.	200	Mtr
45	FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 185 sq. mm. aluminium conductor.	1600	Mtr
46	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm.	14	Nos
47	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 25 to 50 sq mm.	5	Nos
48	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 70 to 95 sq mm.	5	Nos
49	Epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 185 sq mm	10	Nos
50	G.I. pipe 'A' class 75 mm dia. for enclosing XLPE armoured cable.	260	Mtr
51	Half round reinforced cement concrete pipe of NP-2 class of 150mm diameter.	864	Mtr
52	Making trench in Hard murum/Tar road.	200	Mtr
53	50 mm outside dia. double wall corrugated pipes (DWC).	200	Mtr
54	90 mm outside dia. double wall corrugated pipes (DWC).	1600	Mtr
55	Mains with WP 3 x 6 sq. mm. 1.1kV. grade aluminium PVC insulated and PVC sheathed wires.	100	Mtr
56	Pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod.	50	Nos
57	GI earth wire of high purity.	378.51	Kg
58	Licencing work for line shifting Co-ordination with MSEDCL.	2	Job.
59	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.	8	Nos


 Deputy Engineer
 Electrical Department

VS P

DECORATIVE POLES

VSTP-23

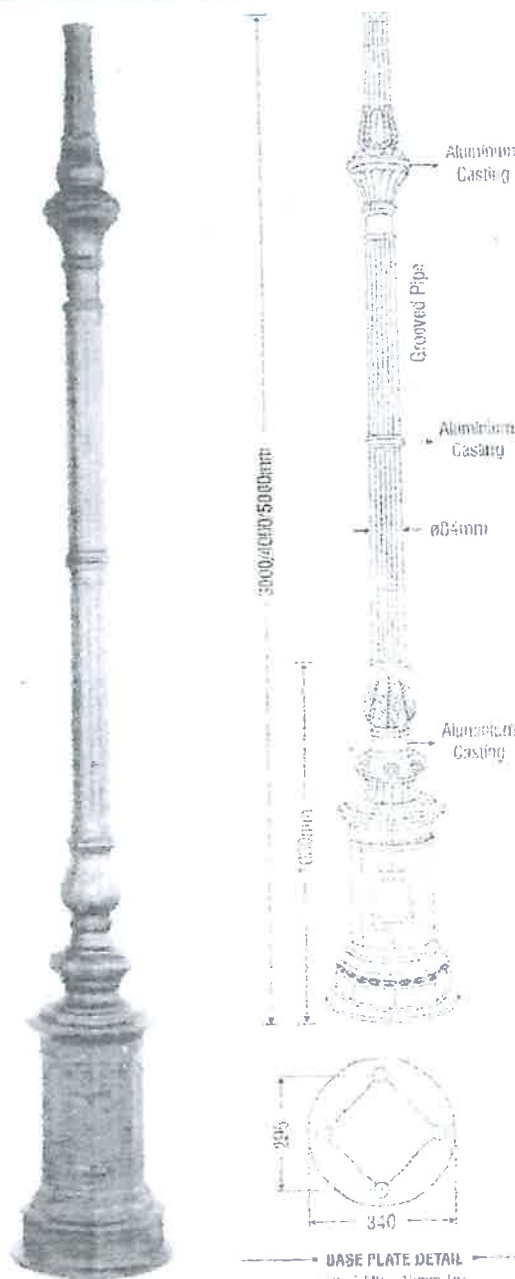


BASE PLATE DETAIL
Up to 5 Mtr. - 12mm, Above 6 Mtr. - 16mm Thick

Cat No.	Height (mm)	Price (₹)
VSTP DP-23-30	3000	24500/-
VSTP DP-23-40	4000	27400/-
VSTP DP-23-50	5000	31600/-
VSTP DP-23-60	6000	38740/-
VSTP DP-23-70	7000	43000/-
VSTP DP-23-80	8000	50800/-

VSTP - Decorative Poles made out of G.I. pipe complete with Aluminium Cast & duly Polyurethane Painted.
Accessories Included: Electric Cable, Bakelite Sheet, MCB & Foundation Bolts.

VSTP-24



BASE PLATE DETAIL
Up to 5 Mtr. - 12mm Thick

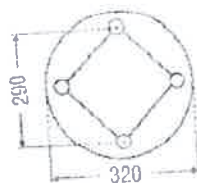
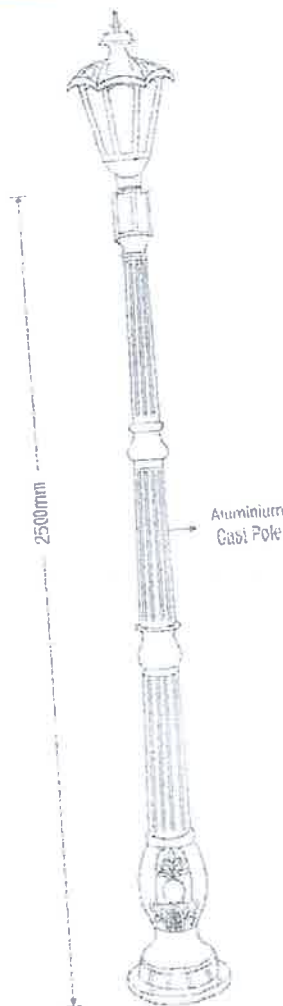
Cat No.	Height (mm)	Price (₹)
VSTP DP-24-30	3000	45980/-
VSTP DP-24-40	4000	51500/-
VSTP DP-24-50	5000	54650/-

VSTP - Decorative Poles made out of G.I. pipe complete with Aluminium Cast & duly Polyurethane Painted.
Accessories Included: Electric Cable, Bakelite Sheet, MCB & Foundation Bolts.

page no 3

DECORATIVE POLES

VSTP-09A

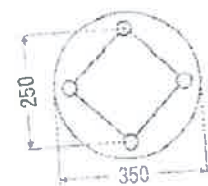
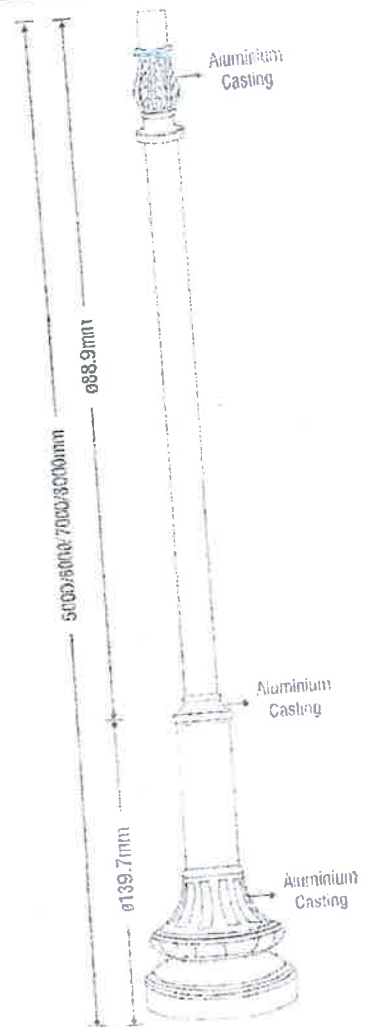


BASE PLATE DETAIL

Cat No.	Height (mm)	Price (₹)
VSTP DP-09A-25S	2500	33370/-
VSTP DP-09A-25D	2500	38075/-
VSTP DP-09A-25T	2500	42800/-

VSTP - Decorative Poles made out of Aluminium Cast & duly Polyurethane Painted.
Accessories Included: Electric Cable, Bakelite Sheet, MCB & Foundation Bolts.

VSTP-10A



BASE PLATE DETAIL
Height: 250mm, Width: 350mm, Thickness: 10mm

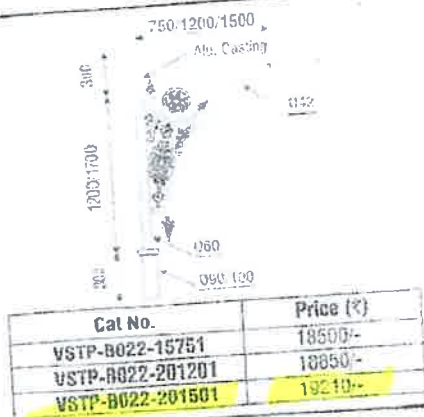
Cat No.	Height (mm)	Price (₹)
VSTP DP-10A-50	5000	50000/-
VSTP DP-10A-60	6000	54250/-
VSTP DP-10A-70	7000	55100/-
VSTP DP-10A-80	8000	59330/-

VSTP - Decorative Poles made out of G.I. pipe complete with Aluminium Cast & duly Polyurethane Painted.
Accessories Included: Electric Cable, Bakelite Sheet, MCB & Foundation Bolts.

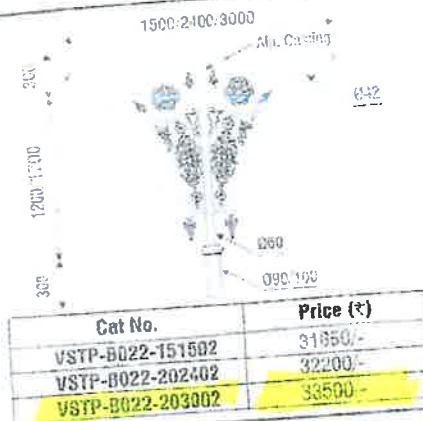
E-mail: info@veplughmast.com

*All Dimensions are in mm

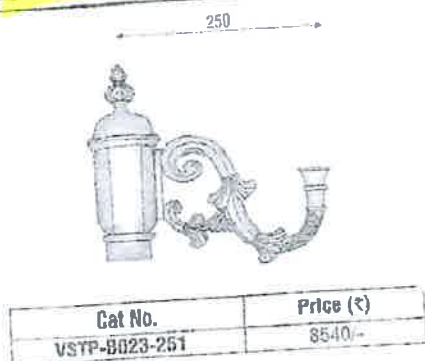
VIPIN S.T. POLES PVT. LTD.



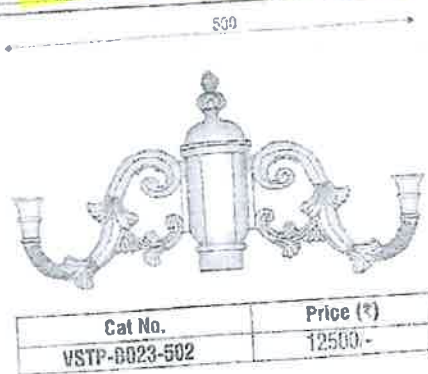
VSTP-B022



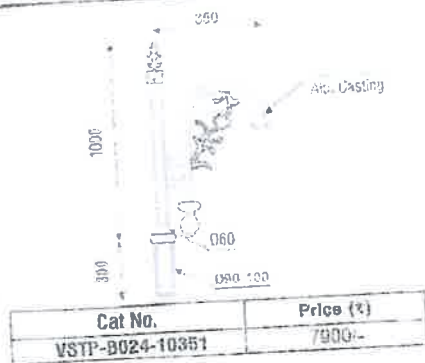
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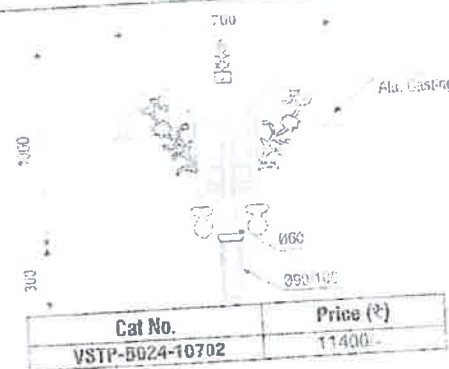
VSTP-B023



VSTP-B023



VSTP-B024



VSTP-B024



VSTP-B025

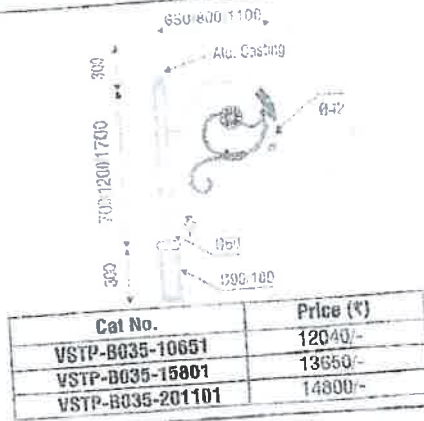


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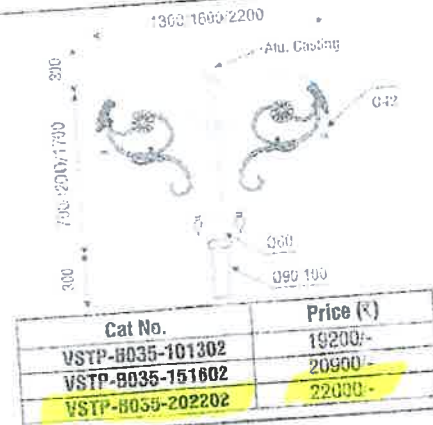
DECORATIVE BRACKETS

VS P[®]

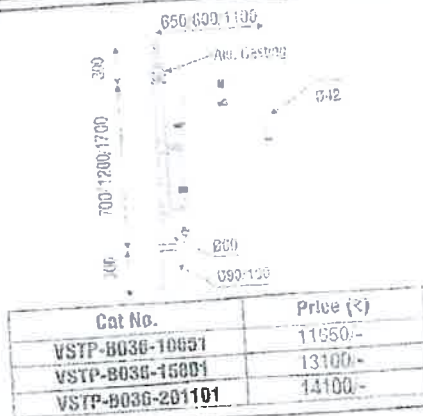
य-31



VSTP-B035



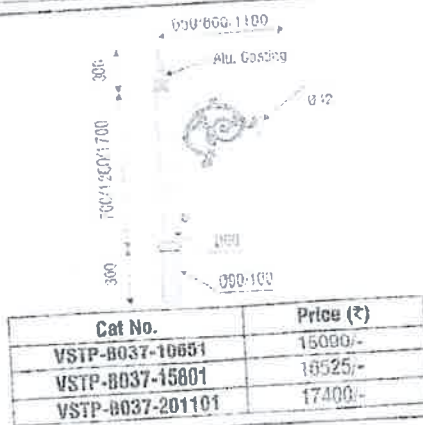
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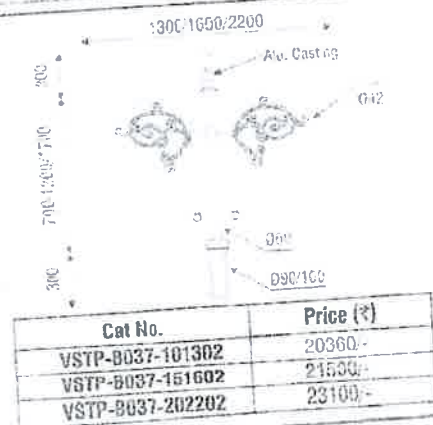
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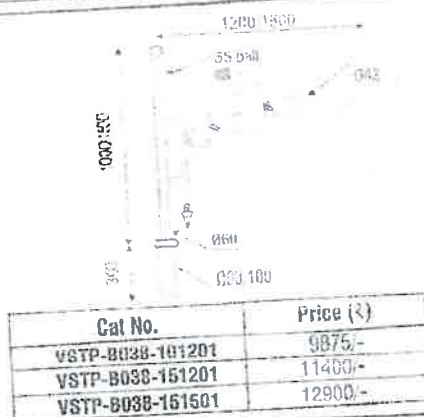
VSTP-B036



VSTP-B037



VSTP-B037



VSTP-B038



VSTP-B038

E-mail: info@vspnhighindia.com

VIPIN S.T. POLES PVT. LTD.

*All Dimensions are in MM

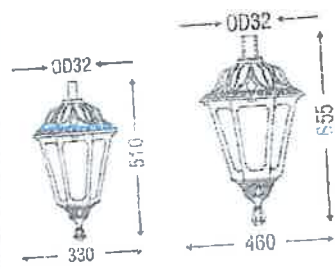
VS P

DECORATIVE DROP DOWN LED LUMINAIRES

VSTP DL - 09



Cat No.	Wattage	CCT	Price (₹)
VSTP DL 09 (S)	30 Watt	3000K	6720/-
	40 Watt		6930/-
	50 Watt		7455/-
	Wattage	Price (₹)	
VSTP DL 09 (B)	50 Watt	12675/-	6500K
	60 Watt	12280/-	
	72 Watt	12600/-	
	80 Watt	12800/-	
	90 Watt	13400/-	
	120 Watt	14800/-	



Features:

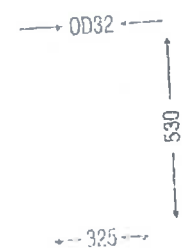
- Aluminum Die Cast Housing
- Poly Carbonate Diffuser for Uniform Light Distribution
- Waterproof Potted Driver with 80% efficiency
- Internal surge protection upto 6 KVA

- Input Voltage: AC 100-270 volts / 50Hz
- Efficacy: > 110 Lumens/Watt
- IP65 Ingress Protection
- Power Factor > 0.90
- Color Rendering Index > 70

VSTP DL - 10



Cat No.	Wattage	CCT	Price (₹)
VSTP DL 10	B22-12 Watt	3000K	6300/-
	30 Watt		6685/-
	40 Watt	6500K	6860/-
	50 Watt		7035/-
	60 Watt		7175/-

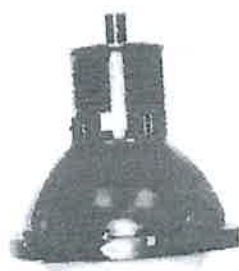


Features:

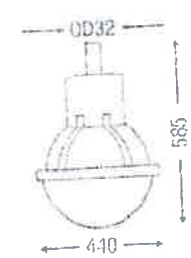
- Aluminum Die Cast Housing
- Poly Carbonate Diffuser for Uniform Light Distribution
- Waterproof Potted Driver with 80% efficiency
- Input Voltage: AC 100-270 volts / 50Hz
- Internal surge protection upto 6 KVA

- Efficacy: > 110 Lumens/Watt
- IP65 Ingress Protection
- Power Factor > 0.90
- Color Rendering Index > 70

VSTP DL - 11



Cat No.	Wattage	Price (₹)	CCT	Wattage	Price (₹)
VSTP DL 11	50 Watt	14820/-	3000K	90 Watt	15800/-
	60 Watt	14875/-		100 Watt	15900/-
	72 Watt	15100/-	6500K	120 Watt	16685/-
	80 Watt	15250/-			



Features:

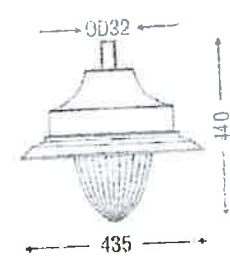
- Aluminum Spun Housing
- Poly Carbonate Diffuser for Uniform Light Distribution
- Waterproof Potted Driver with 80% efficiency
- Input Voltage: AC 100-270 volts / 50Hz
- Internal surge protection upto 6 KVA

- Efficacy: > 110 Lumens/Watt
- IP66 Ingress Protection
- Power Factor > 0.90
- Color Rendering Index > 70

VSTP DL - 12



Cat No.	Wattage	CCT	Price (₹)
VSTP DL 12	30 Watt	3000K	6720/-
	40 Watt	6500K	6980/-
	50 Watt		7100/-
	60 Watt		7300/-



Features:

- Aluminum Spun Housing
- Poly Carbonate Diffuser for Uniform Light Distribution
- Waterproof Potted Driver with 80% efficiency
- Input Voltage: AC 100-270 volts / 50Hz
- Internal surge protection upto 6 KVA

- Efficacy: > 110 Lumens/Watt
- IP66 Ingress Protection
- Power Factor > 0.90
- Color Rendering Index > 70

VIPIN S.T. POLES PVT. LTD. E-mail: info@vsphighmast.com

**All Dimensions are in MM **Dimensional Tolerance + - 5%

TO
Nashik Municipal Corporation
Nashik.

Subject - QUOTATION for Decorative Stambh

Sr.No.	Item Discription	Qty	Rate	Item Image
1	9 mtr Decorative Stambh model No - SUN-STB-1, Make - Sundity . With foundation ,installation with Warm White light	1	15,68,000	
3	9 mtr Decorative Stambh model No - SUN-STB-2, Make - Sundity . With foundation ,installation with Warm White light	1	15,95,000	

TERMS AND CONDITON

- 1 GST @ 18% EXTRA
- 2 TRANSPORTATION - INCLUDING
- 3 INSPECTION IN YOUR SCOPE
- 4 WARRANTY - 3 YEARS for LED FIXTURE

VSP

DECORATIVE DROP DOWN LED LUMINAIRES

VSTP DL - 01



Cat No.	Wattage	CCT	Price (₹)
VSTP DL 01	B22-12 Watt	3000K	5390/-
	30 Watt		6440/-
	40 Watt	6500K	6545/-
	50 Watt		6650/-
	60 Watt		6755/-



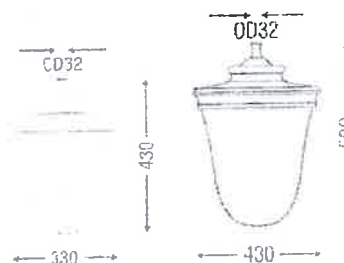
Features:

- Aluminum Die Cast Housing
- Poly Carbonate Diffuser for Uniform Light Distribution
- Waterproof Potted Driver with 80% efficiency
- Internal surge protection upto 6 KVA
- Input Voltage: AC 100-270 volts / 50Hz
- Efficacy: > 110 Lumens/Watt
- IP65 Ingress Protection
- Power Factor > 0.90
- Color Rendering Index > 70

VSTP DL - 02



Cat No.	Wattage	CCT	Price (₹)
VSTP DL 02 (S)	30 Watt	3000K	6240/-
	40 Watt		6350/-
	50 Watt		6460/-
	Wattage	Price (₹)	
VSTP DL02 (B)	50 Watt	10270/-	6500K
	60 Watt	10400/-	
	72 Watt	11315/-	
	80 Watt	10460/-	
	90 Watt	12100/-	
	120 Watt	14550/-	



Features:

- Aluminum Spun Housing
- Poly Carbonate Diffuser for Uniform Light Distribution
- Waterproof Potted Driver with 80% efficiency
- Input Voltage: AC 100-270 volts / 50Hz
- Internal surge protection upto 6 KVA
- Efficacy: > 110 Lumens/Watt
- IP66 Ingress Protection
- Power Factor > 0.90
- Color Rendering Index > 70

VSTP DL - 03



Cat No.	Wattage	CCT	Price (₹)
VSTP DL 03	50 Watt	3000K	10530/-
	60 Watt		10620/-
	72 Watt		11196/-
	80 Watt	6500K	11340/-
	90 Watt		11920/-
	100 Watt		13200/-
	120 Watt		14100/-



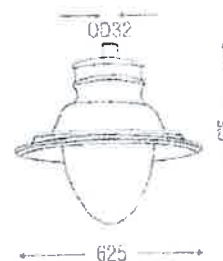
Features:

- Aluminum Die Cast Housing
- Poly Carbonate Diffuser for Uniform Light Distribution
- Waterproof Potted Driver with 80% efficiency
- Input Voltage: AC 100-270 volts / 50Hz
- Internal surge protection upto 6 KVA
- Efficacy: > 110 Lumens/Watt
- IP65 Ingress Protection
- Power Factor > 0.90
- Color Rendering Index > 70

VSTP DL - 04



Cat No.	Wattage	CCT	Price (₹)
VSTP DL 04	60 Watt	3000K	9320/-
	72 Watt		9700/-
	80 Watt		10050/-
	90 Watt	6500K	10625/-
	100 Watt		10780/-
	120 Watt		10940/-



Features:

- Aluminum Spun Housing
- Poly Carbonate Diffuser for Uniform Light Distribution
- Waterproof Potted Driver with 80% efficiency
- Input Voltage: AC 100-270 volts / 50Hz
- Internal surge protection upto 6 KVA
- Efficacy: > 110 Lumens/Watt
- IP66 Ingress Protection
- Power Factor > 0.90
- Color Rendering Index > 70

VIPIN S.T. POLES PVT. LTD. E-mail: info@vsphighmast.com

*All Dimensions are in MM **Dimensional Tolerance: ±0.5%



नाशिक महानगरपालिका, नाशिक

NMC/PWD/OWL/२०२५/

जा.क्र.मनपा/बांध/न.स./२०२५/२०२६

दि. ३०/०९/२०२६

प्रति,
मा. नगरसचिव,
नाशिक महानगरपालिका,
यांचेकडेस -

विषय : अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (क्रॉक्रीट) (फेरनिविदा)

संदर्भ : १) मा.महासभा ठराव क्रमांक.३२१ दिनांक. ०४/०९/२०२५

२) ई- निविदा सु.क्र.६०/०१ (सन २०२५-२६)

३) नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांच्याकडील प्रशासकीय मान्यता आदेश दि.१५/११/२०२५.

नाशिक-त्र्यंबकेश्वर येथे सन-२०२७ होणारा सिंहस्थ कुंभमेळा पुर्व तयारी दृष्टीकोनातून वाहतुक व्यवस्था सुधारणे आदी दृष्टीकोनातून रस्त्याचा कामाची यादी तयार करून 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 त्यांच्याकडील दि.२८/०७/२०२५ व दि.०९/०९/२०२५ चा पत्रान्वये प्रधान्यक्रम कळविला आहे. त्यास अनुसरून नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणा मार्फत दि.१५/११/२०२५ अन्वये प्रशासकीय मान्यता प्राप्त झालेली आहे.

त्यानुसार संपूर्ण निविदा प्रक्रीया राबविण्यासाठी नाशिक महानगरपालिकेमध्ये स्वतंत्र मध्यवर्ती निविदा कक्षाची स्थापना करण्यात आली आहे, त्यामुळे मध्यवर्ती निविदा कक्षाकडून सदर कामाची ई-निविदा प्रक्रीया राबविण्यात आली असून त्याचा तपशिल खालील प्रमाणे आहे.

- १) विभागाचे नांव : सार्वजनिक बांधकाम विभाग
- २) प्राकलन मंजुर रक्कम : र.र.२४,९९,९५,४२१/-
(अक्षरी- चोवीस कोटी नव्याण्णव लक्ष पंच्याण्णव हजार चारशे एवढीस फक्त)
- ३) तांत्रिक मान्यता : स्थापत्य विषयक कामास तांत्रिक मान्यता क्रमांक NMC/PWD/TS/२९/२०२५ दि.१७/१०/२०२५ अन्वये
मा.शहर अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे. तसेच विद्युत विभाग यांचे कडील नं. TS/९८/२०२५ दिनांक १७/११/२०२५ अन्वये मा.कार्यकारी अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे.
- ४) निविदा सुचना क्रमांक : ई - निविदा सुचना क्र. ६०/०१ (सन २०२५-२६)
- ५) विषयांकीत कामाची निविदा www.mahatenders.gov.in या महाराष्ट्र शासनाच्या संकेतस्थळावर ऑनलाईन प्रसिध्दीने निविदा मागविण्यात आलेल्या आहेत.

अ) निविदा प्रसिध्दी कालावधी : दि. ०८/०१/२०२६ ते १६/०१/२०२६

आ) निविदा घ्याचा : दि. २३/०१/२०२६

६) विषयांकित कामासाठी एकुण तीन (०३) निविदा प्राप्त झालेल्या आहेत. त्यापैकी दोन (०२) निविदा पात्र झालेल्या आहेत, असे मध्यवर्ती निविदा कक्षाने कळविले आहे. त्या निविदांचा आर्थिक देकार उघडल्याचा तपशिल खालील प्रमाणे आहे.

अ.नं.	निविदाधारकाचे नांव	पूर्वगणपत्रकापेक्षा टक्केवारी
१.	मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक	१८.६९० % कमी दराने
२.	मे.बिटकॉन इंडिया इन्फ्रास्ट्रक्चर डेव्हलपर्स प्रा.लि., मुंबई	१६.९९० % कमी दराने

न्यूनतम दराच्या निविदेची शिफारस करण्यात आलेली आहे.

वरील बाब क्र. ६ मध्ये नमूद केलेल्या निविदांपैकी मक्तेदार मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक या मक्तेदाराची निविदा प्राकलन दरापेक्षा १८.६९० % कमी दराने ही न्यूनतम दराची असून, मक्तेदार यांना लेखी पत्र देऊन वाटाघाटी व दरपृथक्करण सादर करणेबाबत विचारणा केली असता, मक्तेदार यांनी लेखी पत्र देऊन सदरचा दर रास्त असून त्यांनी सादर केलेली प्राकलन दरापेक्षा १८.६९० % कमी दराची निविदा मंजूर करणेची विनंती केली आहे.

विषयांधीन कामास संदर्भ क्र.३ अन्वये नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची प्रशासकीय मंजूरी प्राप्त झाली असून, प्रशासकीय मान्यता रक्कम रु.२५.०० कोटी आहे. शासन निधीतुन कामासाठी उपलब्ध तरतुदी मधुन सदरचा खर्च करण्यात येईल.

सदर प्रशासकीय मान्यतेनुसार न्यूनतम निविदाधारक मक्तेदार मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक यांचेकडून प्राकलन दरापेक्षा १८.६९० % कमी दराने रु.१६,९४,१०,९९३/- अधिक (रु.३,०४,९५,२३९ /- जी.एस.टी. + रु.४१,२९,९२८/- रॉयल्टी व टेस्टिंग चार्जेस सह) अशी एकुण रु.२०,४०,४३,१६० /- (अक्षरी रु.वीस कोटी चाळीस लाख त्रेचाळीस हजार एकशे साठ मात्र) इतक्या रकमेपर्यंत काम करुन घेणेसाठी व त्यांच्याशी करार करण्यास मान्यता घेण्यासाठी सदरचा विषय मा.स्थायी समितीच्या मंजूरीस सविनय सादर.


अति. आयुक्त (२)
नाशिक महानगरपालिका


अति. आयुक्त (२)
नाशिक महानगरपालिका

सदर प्रकरणी महाराष्ट्र महानगरपालिका अधिनियमातील तरतुदीनुसार कार्यवाही करणेत यावी.


आयुक्त तथा प्रशासक
नाशिक महानगरपालिका, नाशिक


30/7/2022



सभा क्र. : १२

विषय क्र. : ५६३

ठराव क्र. : ५६३

दिनांक : ३०/०९/२०२६

संदर्भ- मा.आयुक्त तथा प्रशासक सो. यांचेकडील जा.क्र/बांध/२९०/२०२६ दि.३०.०९.२०२६ चे पत्र.

१) मा.महासभा ठराव क्रमांक.३२१ दिनांक. ०४/०९/२०२५

२) ई-निविदा सु.क्र.६०/०१ (सन २०२५-२६)

३) नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांच्याकडील प्रशासकीय मान्यता आदेश

महाराष्ट्र महानगरपालिका अधिनियमातील कलम ४५२ (अ) मधील तरतुदीनुसार मा.प्रशासक सो.यांना प्राप्त झालेल्या अधिकारानुसार असा ठराव करण्यांत येत आहे कि,

नाशिक-त्र्यंबकेश्वर येथे सन-२०२७ होणारा सिंहस्थ कुंभमेळा पुर्व तयारी दृष्टीकोनातून वाहतुक व्यवस्था सुधारणे आदी दृष्टीकोनातून अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणेचे (क्रॉक्रीट) (फेरनिविदा) रस्त्याचा कामाची यादी तयार करून 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 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 त्याच्याकडील दि.२८/०७/२०२५ व दि.०९/०९/२०२५ चा पत्रान्वये प्रधान्यक्रम कळविला आहे. त्यास अनुसरून नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणा मार्फत दि.१५/११/२०२५ अन्वये प्रशासकीय मान्यता प्राप्त झालेली आहे.

त्यानुसार संपूर्ण निविदा प्रक्रीया राबविण्यासाठी नाशिक महानगरपालिकेमध्ये स्वतंत्र मध्यवर्ती निविदा कक्षाची स्थापना करण्यात आली आहे, त्यामुळे मध्यवर्ती निविदा कक्षाकडून सदर कामाची ई-निविदा प्रक्रीया राबविण्यात आली असून त्याचा तपशिल खालील प्रमाणे आहे.

- १) विभागाचे नांव : सार्वजनिक बांधकाम विभाग
- २) प्राकलन मंजुर रक्कम : रु.२४,९९,९५,४२१/-
(अक्षरी- चोवीस कोटी नव्याण्णव लक्ष पंच्याण्णव हजार चारशे एकवीस फक्त)
- ३) तांत्रिक मान्यता : स्थापत्य विषयक कामास तांत्रिक मान्यता क्रमांक NMC/PWD/TS/२९/२०२५ दि.१७/१०/२०२५ अन्वये मा.शहर अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे. तसेच विद्युत विभाग यांचे कडील नं. TS/९८/२०२५ दिनांक १७/११/२०२५ अन्वये मा.कार्यकारी अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे.
- ४) निविदा सुचना क्रमांक : ई- निविदा सुचना क्र. ६०/०१ (सन २०२५-२६)
- ५) विषयांकीत कामाची निविदा www.mahatenders.gov.in या महाराष्ट्र शासनाच्या संकेतस्थळावर ऑनलाईन प्रसिध्दीने निविदा मागविण्यात आलेल्या आहेत.
अ) निविदा प्रसिध्दी कालावधी : दि. ०८/०९/२०२६ ते १६/०९/२०२६
आ) आर्थिक देकार /निविदा उघडल्याचा : दि. २३/०९/२०२६
- ६) विषयांकीत कामासाठी एकुण तीन (०३) निविदा प्राप्त झालेल्या आहेत. त्यापैकी दोन (०२) निविदा पात्र झालेल्या आहेत, असे मध्यवर्ती निविदा कक्षाने कळविले आहे. त्या निविदांचा आर्थिक देकार उघडल्याचा तपशिल खालील प्रमाणे आहे.

अ.नं.	निविदाधारकाचे नांव	पुर्वगणपत्रकापेक्षा टक्केवारी
१.	मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक	१८.६९० % कमी दराने
२.	मे.बिटकॉन इंडिया इन्फ्रास्ट्रक्चर डेव्हलपर्स प्रा.लि., मुंबई	१६.९९० % कमी दराने

न्युनतम दराच्या निविदेची शिफारस करण्यात आलेली आहे.

वरील बाब क्र. ६ मध्ये नमूद केलेल्या निविदांपैकी मक्तेदार मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक या मक्तेदाराची निविदा प्राकलन दरापेक्षा १८.६९० % कमी दराने ही न्युनतम दराची असून, मक्तेदार यांना लेखी पत्र देऊन वाटाघाटी व दरपृथ्थकरण सादर करणेबाबत विचारणा केली असता, मक्तेदार यांनी लेखी पत्र देऊन सदरचा दर रास्त असून त्यांनी सादर केलेली प्राकलन दरापेक्षा १८.६९० % कमी दराची निविदा मंजूर करणेची विनंती केली आहे.

विषयाधीन कामास संदर्भ क्र.३ अन्वये नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची प्रशासकीय मंजुरी प्राप्त झाली असून, प्रशासकीय मान्यता रक्कम रु.२५.०० कोटी आहे. शासन निधीतून कामासाठी उपलब्ध तरतुदी विधानसदरचा खर्च करण्यात येईल.

सह. अभियंता
सार्वजनिक बांधकाम विभाग
दि. २८/०९/२०२६

१४२



सभा क्र. : १२

विषय क्र. : ५६३

ठराव क्र. : ५६३

दिनांक : ३० / ०९ / २०२२

सदर प्रशासकीय मान्यतेनुसार न्युनतम निविदाधारक मक्तेदार मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक यांचेकडून प्राकलन दरापेक्षा १८.६९० % कमी दराने र.रु.१६,९४,१७,९९३/- अधिक (र.रु.३,०४,९५,२३९ /- जी.एस.टी. + र.रु.४१,२९,९२८/- रॉयल्टी व टेस्टिंग चार्जेस सह) अशी एकुण र.रु.२०,४०,४३,१६० /- (अक्षरी र.रु.वीस कोटी चाळीस लाख त्रेंचाळीस हजार एकशे साठ मात्र) इतक्या रकमेपर्यंत काम करून घेणेस व करार करण्यास नियमानुसार मंजूरी देणेत येत आहे.

(मदन हरिश्चंद्र)

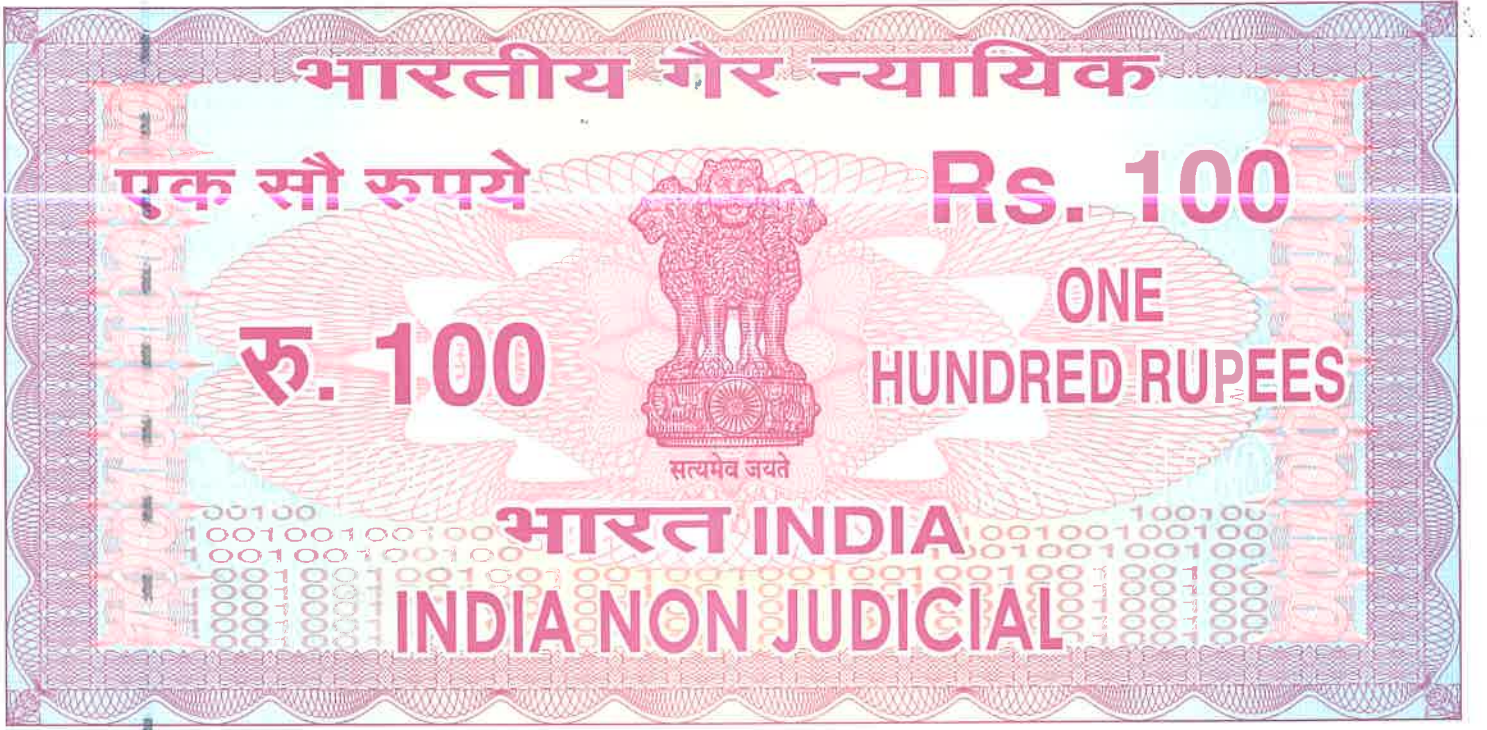
प्र.नगरसचिव,

नाशिक महानगरपालिका, नाशिक

(मनिषा खत्री)

प्रशासक,

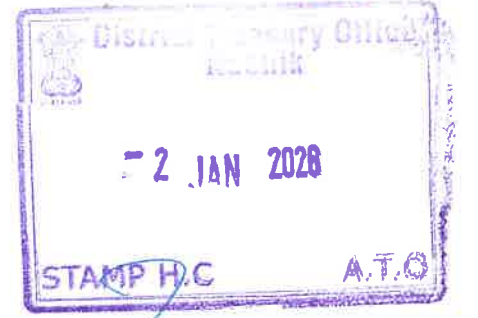
नाशिक महानगरपालिका, नाशिक



महाराष्ट्र MAHARASHTRA

2025

58AB 909561



AGREEMENT

For

Proposed Developing of Amrut Miravanuk Marg NMC, Nashik

Between

NASHIK MUNICIPAL CORPORATION (NMC)

Tilak Wadi, Jejurkar Wadi, Sharanpur, Nashik, Maharashtra 422002

and

M/s. F.C Rodrigues LLP , Nashik.

फक्त प्रतिज्ञापत्रासाठी अनुच्छेद -4

प्रतिज्ञापत्र कोणाकडे सादर करावयाचे	पि डब्ल्यू डी
प्रतिज्ञापत्रासाठीचे कारण	देख
मुद्रांक विकत घेणाऱ्याचे नाव व रहिवाशी पत्ता	एफ सी वॉशिंग्टन LLP दिवाळीगाट नाशिक ६५ - ५५१२१ नाशिक
मुद्रांक विक्री बाबतची नोंद हि क्रमांक व दिनांक	२५८३० - १४/०१/२०२६
मुद्रांक विकत घेणाऱ्याची सही	
परवाना धारक मुद्रांक विक्रेत्याची सही व परवाना क्रमांक तसेच मुद्रांक विक्रीचे ठिकाण व पत्ता	 मुद्रांक विक्रेता परवाना क्र ८३/२००१ गुरुकृपा शिवाजी रोड सी.बी.एस.नाशिक

AGREEMENT

This AGREEMENT (hereinafter called "the **Agreement**") is made on the 09 day of the month of February , 2026, 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. F.C Rodrigues LLP , Nashik.** having its registered office at Keer Appartment, 6-7 , Behind Hotel Rasoai, Deepali Nagar, Gurunanak Hsg. Sco. Mumbai Agra road, , Nashik (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 15/11/2025. The conditions mentioned in the administrative approval from Nashik-Trimbakeshwar Kumbhamela Pradhikarn dated 15/11/2025 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.60 dated 09/01/2026, 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 **Proposed Developing of Amrut Miravanuk Marg NMC, Nashik**
3. The work invited was for '**Proposed Developing of Amrut Miravanuk Marg NMC, Nashik**' with an estimated cost of ₹.24,99,95,421/-
4. The date of issue of blank tender form was from 09/01/2026 to 16/01/2026. The pre-bid meeting for the same was held on 12/01/2026, 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 / /2026.
5. Total 03 bids have been received during the specified period, out of which 02 were technically qualified. Tender Evaluation Committee of NMC decided to open the financial bids of the technically qualified bidders, which were opened on 23/01/2025.
6. The offer of **M/s. F.C Rodrigues LLP , Nashik.** of 18.690% below the estimated cost was found to be the lowest. As per Clause No. XX of the tender, a negotiation letter No.299 dated 23/01/2026 was issued for further negotiation by NMC, initially **M/s. F.C Rodrigues LLP , Nashik.** expressed their inability for negotiation through a letter with inward no --- dated 23/01/2026 however, later submitted a revised negotiated offer of --- % below the estimated cost through a letter inward no.-- Dated- / /2026.
7. NMC issued a letter to **M/s. F.C Rodrigues LLP , Nashik.** for submission of Performance Security Deposit as per clause no.13 of the Tender , **M/s. F.C Rodrigues LLP , Nashik.** complied with a Bank Guarantee of Rs- 3,34,50,000/- from Nationalized Bank – Bank of Maharashtra, Nashik branch, with Fixed Deposit / Bank Guarantee Reference No.60436741378 , dated 28/01/2026 valid for 27/01/2027 with a validity of 12 months from the

date of issuance complying with clause 13-b of detailed tender notice.

8. The proposal is then forwarded for further approval to Standing Committee of Nashik Municipal Corporation; granted approval vide SCR no 563 Dated 30/01/2026.

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. F.C Rodrigues LLP , Nashik.** submitted a Term Deposit of Rs 10,20,500/- from Bank Of Maharashtra , Nashik , 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 (₹.20,41,000/-), out of which:

1. 0.50% amounting to ₹ 10,20,500/- has been deposited through Bank Guarantee No. 0118IPG26000001 dated 10/02/2026, and
2. The remaining 0.50% amounting to ₹ 10,20,500/- 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 dated 28/01/2026 valid for 12 months after the end of contract issued by Union Bank of India, Andheri branch for INR 3,45,50,000 with reference no. 60436741378 Valid upto 27/01/2027 this date.
4. The total contract/agreement period shall be ---Months effective from 09/02/2026 (date).

Contract Documents

The following documents shall form an integral and binding part of this Agreement:

1. Tender Notice No 60 Dated 12/01/2026.
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 / /2026
5. Technical and Financial Proposal
6. Negotiation letter and its response by the bidder
7. Performance Security Deposit
8. Standing Committee Resolution No 563 Dated.30/01/2026.
9. Initial security Deposit
10. Administrative Approval from Nashik Trimabakeshwar Kembhmela Pradhikaran vide letter Dated -15/11/2025.
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.

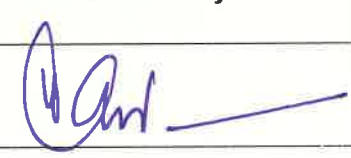
Payment

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 Contractor in accordance with the provisions of the Contract

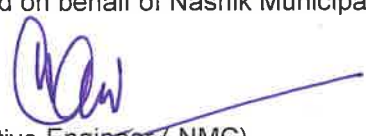
IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be signed and sealed in their respective names as of the day and year first above written.

On behalf of the M/s. F.C Rodrigues LLP , Nashik.	On behalf of Authority
	
Owner/ Proprietor of M/s. F.C Rodrigues LLP , Nashik.	Executive Engineer, Nashik Municipal Corporation

This Agreement is executed between Nashik Municipal Corporation (hereinafter referred to as the "Corporation") and **M/s. F.C Rodrigues LLP , Nashik.** (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)

F. C. RODRIGUES LLP

Signature of Contractor

ASSOCIATED PARTNER

महाराष्ट्र शासन
GOVERNMENT OF MAHARASHTRA
ई-सुरक्षित बँक व कोषागार पावती
e-SECURED BANK & TREASURY RECEIPT (e-SBTR)

23687221909509



Bank/Branch:BOM - 0230004/NASIK INDIRANAGAR

Pmt Txn Id :ESBTR0000658570

Pmt DtTime :11-FEB-2026@13:59:57

District :5101/NASHIK

ChallanIdNo:02300042026021137894

Stationery No:23687221909509

Print DtTime :11-FEB-2026@14:44:29

Office Name :IGR312/NSK2_NASHIK 2

GRAS GRN :MH016942511202526S

GRN DATE :11-FEB-2026@13:59:58

StDuty Schm:0030046401/0030046401-75

StDuty Amt :Rs. 6,12,000/- (Rs. Six,One Two,Zero Zero Zero Only)

RgnFee Schm:0030063301/0030063301-70

RgnFee Amt :Rs. 0/- (Rs. Zero Only)

Article :63/63 - Works Contract

Prop Mvblty:N.A.

Consideration :Rs. 16,94,17,993/-

Prop Descr :DEVELOPMENT OF AMRUT MIRAVNUK MARG BOTH DIRECTION, PANCHVATI NASHIK,
NASHIK, Maharashtra, 422003

Duty Payer :PAN-AAOFM3122H,F C RODRIGUES LLP

Other Party:TAN-NSKN00121C,EXECUTIVE ENGINEER NASHIK MUNICIPAL CORPORATION

Bank Official 1 Name & Signature

Bank Official 2 Name & Signature

--- Space for customer/office use --- Please write below this line ---

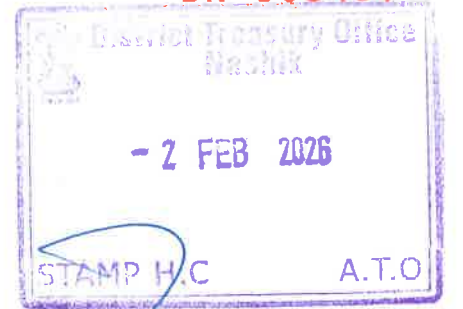




महाराष्ट्र MAHARASHTRA

2025

DN 583461



To,

The Commissioner,
Nashik Municipal Corporation,
Nashik.

Guarantee No. 01180IPG26000001

Amount of Guarantee: Rs.10,20,500/- (Rupees Ten Lakh twenty thousand five hundred Only)

Date of Issue: 10.02.2026

Expiry Date: 10.03.2029

UnClassified



दस्ताचा प्रकार/अनुच्छेद	बेक क्विगरी
दस्त नोंदणी करणार आहात का ?	-
नोंदणी होणार असल्यास दुय्यम निबंधक कार्यालयाचे नाव	008
मिळकतीचे वर्णन	-
मुद्रांक विकत घेणाऱ्याचे नाव	नाफ मरि. रॉड्रिक्स् काले-काले. परि दिपाली नागट नाशिक
दुसऱ्या पक्षकाराचे नाव	बेक ऑफ महापाद नाशिक
हस्ते असल्यास त्याचा नाव व पत्ता	प्रकाश नागट नाशिक
मुद्रांक शुल्क रक्कम	५००/-
मुद्रांक विक्री नोंद वही क्रमांक व दिनांक	26239 - 2121226
मुद्रांक विकत घेणार्याची सही	J
परवानाधारक मुद्रांक विक्रेत्यांची सही व परवाना क्रमांक तसेच मुद्रांक विक्रीचे ठिकाण/पत्ता	संजय मुरलीधर गांगुर्डे (मुद्रांक विक्रेता) परवाना क्र.83/2001, शिवाजीरोड, सि.बी.एस. नाशिक

We, The Bank of Maharashtra Indiranagar Branch, operating at Mauli Bungalow, Near Rathachakra Chowk, Indiranagar, Nashik-422009 at the request of F.C Rodrigues LLP, do hereby irrevocably and unconditionally undertake to pay to the Office of the Commissioner, NMC Nashik by reason of F.C Rodrigues LLP defaulting / failing to pay to the Office of the Commissioner, NMC Nashik, any money payable by it under this guarantee on demand made by the Office of the Commissioner, NMC Nashik, received by us on or before 10.03.2029 for the work of proposed Nashik Amrut Rally Road Development work.

We, the Bank of Maharashtra do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from the Office of the Commissioner, NMC Nashik stating that the amount claimed is due from F.C Rodrigues LLP, to the Office of the Commissioner, NMC Nashik for any reason whatsoever, under the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under the guarantee and shall be restricted to an amount not exceeding Rs 10,20,500/- (Rupees Ten Lakh twenty thousand five hundred Only)

We undertake to pay to the Office of the Commissioner, NMC Nashik any sum up to Rs 10,20,500/- (Rupees Ten Lakh twenty thousand five hundred Only). notwithstanding any disputes raised by F.C Rodrigues LLP in any suit or proceeding pending before any court, Tribunal, arbitrator relating thereto, our liability under this present being absolute and unequivocal. The payment made by us under this guarantee shall be valid discharge of our liability for payment there under and Office of the Commissioner, NMC Nashik shall have no claim against us for making such payment.

We, The Bank of Maharashtra, further agree that the guarantee here contained shall remain in force and effect during the currency of the said Agreement. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of this guarantee we shall be discharged from all liability under this guarantee thereafter but not later than 10.03.2029

We, The Bank of Maharashtra, further agree with Office of the Commissioner, NMC Nashik that Office of the Commissioner, NMC Nashik has the fullest liberty without our consent and without effecting in any manner or obligation hereunder to vary any of the terms & conditions of the said agreement or to extend time of performance by F.C Rodrigues LLP from time to time or to postpone for any time or from time to time any of the powers exercisable by Office of the Commissioner, NMC Nashik against F.C Rodrigues LLP or forebear or enforce any of the terms and conditions of the said Agreement and we shall not be relieved from our liability by reason or any such variation or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so reliving us.

This guarantee will not be discharged due to the change in the constitution of F.C Rodrigues LLP, including its dissolution.

We, The Bank of Maharashtra, lastly undertake not to revoke this guarantee during its currency except with the previous consent of Office of the Commissioner, NMC Nashik in writing.

The validity period of this Bank Guarantee is from the date of issuance of the bank guarantee till 10.03.2029 & claim period up to 10.03.2029.

Notwithstanding anything contained herein above:

1. Our liability under this Bank Guarantee shall not exceed Rs. 10,20,500/- (Rupees Ten Lakh twenty thousand five hundred Only)



2. This Bank Guarantee shall be valid up to 10.03.2029 & claim period up to 10.03.2029.

3. The Bank is liable to pay the guarantee amount only and only if we receive from you at our address stated below, a written claim or demand no later than 1 Year from the said expiry date, failing which all your rights under this guarantee shall extinguish and we shall stand completely discharged.

4. As per exception 3 to section 28 of Indian contract act, 1982 the statutory claim period will be up to one year of the validity period of the Bank Guarantee. In other words, The bank issuing such guarantee will not be liable under such guarantee to the beneficiary after the expiry of one year from the validity period, regardless of the period of limitation under the limitation act, 1963

Address for service of claim/demand

Bank of Maharashtra Nasik Zonal Office,

MHADA Building, Gadkari Chowk,

Old Agra Road, Nashik-422001.



Dated this 10th day of February, 2026



For Bank of Maharashtra, Indiranagar Branch.

eProcurement System Government of Maharashtra

Created By: Ravindra Bagul

Created Date/Time: 23-Jan-2026 10:53 AM

Tender Title: Development of Amrut Miravanuk Marg (Both directions), Nashik

Tender ID: 2026_NMC_1267470_1

Tender Inviting Authority: Executive Engineer

Name of Work: Development of Amrut Miravanuk Marg (Both directions), Nashik

Contract No: NMC/E-tender Cell/60/1/2025-26

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	Bitcon India Infrastructure Developers Pvt Ltd (GSTN-27AADCB4094K1ZF) BID ID -7152065	208360587.00	-16.990	172960123.2	Seventeen Crore Twenty Nine Lakh Sixty Thousand One 69 Hundred and Twenty Three
2.00	F C RODRIGUES LLP (GSTN-27AAOFM3122H1ZB) BID ID -7160911	208360587.00	-18.690	169417993.2	Sixteen Crore Ninety Four Lakh Seventeen Thousand 90 Nine Hundred and Ninety Three
Lowest Amount Quoted By: F C RODRIGUES LLP (169417993290)					

F. C. RODRIGUES LLP

DESIGNATED PARTNER

Executive Engineer

E-Tender Cell

Nashik Municipal Corporation, Nashik

Q

BOQ Summary Details

Tender Title: Development of Amrut Miravanuk Marg (Both directions), Nashik
Tender ID: 2026_NMC_1267470_1

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	F C RODRIGUES LLP (BID ID -7160911)	169417993.290	L1
	2	Bitcon India Infrastructure Developers Pvt Ltd (BID ID -7152065)	172960123.269	L2

F. C. RODRIGUES LLP
DESIGNATED PARTNER



सभा क्र. : १२

विषय क्र. : ५६३

ठराव क्र. : ५६३

दिनांक : ३०/०९/२०२६

संदर्भ- मा.आयुक्त तथा प्रशासक सो. यांचेकडील जा.क्र./बांध/२९०/२०२६ दि.३०.०९.२०२६ चे पत्र.

१) मा.महासभा ठराव क्रमांक.३२१ दिनांक. ०४/०९/२०२५

२) ई- निविदा सु.क्र.६०/०१ (सन २०२५-२६)

३) नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरण यांच्याकडील प्रशासकीय मान्यता आदेश

महाराष्ट्र महानगरपालिका अधिनियमातील कलम ४५२ (अ) मधील तरतुदीनुसार मा.प्रशासक सो.यांना प्राप्त झालेल्या अधिकारानुसार असा ठराव करण्यांत येत आहे कि,

नाशिक-त्र्यंबकेश्वर येथे सन-२०२७ होणारा सिंहस्थ कुंभमेळा पुर्व तयारी दृष्टीकोनातून वाहतुक व्यवस्था सुधारणे आदी दृष्टीकोनातून अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणेचे (क्रॉक्रीट) (फेरनिविदा) रस्त्याचा कामाची यादी तयार करून 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 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 त्याच्याकडील दि.२८/०७/२०२५ व दि.०९/०९/२०२५ चा पत्रान्वये प्रधान्यक्रम कळविला आहे. त्यास अनुसरून नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणा मार्फत दि.१५/११/२०२५ अन्वये प्रशासकीय मान्यता प्राप्त झालेली आहे.

त्यानुसार संपूर्ण निविदा प्रक्रीया राबविण्यासाठी नाशिक महानगरपालिकेमध्ये स्वतंत्र मध्यवर्ती निविदा कक्षाची स्थापना करण्यात आली आहे, त्यामुळे मध्यवर्ती निविदा कक्षाकडून सदर कामाची ई-निविदा प्रक्रीया राबविण्यात आली असून त्याचा तपशिल खालील प्रमाणे आहे.

१) विभागाचे नांव : सार्वजनिक बांधकाम विभाग

२) प्राकलन मंजूर रक्कम : रु.२४,९९,९५,४२१/-

(अक्षरी- चोवीस कोटी नव्याणव लक्ष पंच्याणव हजार चारशे एकवीस फक्त)

३) तांत्रिक मान्यता : स्थापत्य विषयक कामास तांत्रिक मान्यता क्रमांक

NMC/PWD/TS/२९/२०२५ दि.१७/१०/२०२५ अन्वये

मा.शहर अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे. तसेच

विद्युत विभाग यांचे कडील नं. TS/९८/२०२५ दिनांक १७/११/२०२५

अन्वये मा.कार्यकारी अभियंता सो, यांनी तांत्रिक मान्यता दिलेली आहे.

४) निविदा सुचना क्रमांक : ई- निविदा सुचना क्र. ६०/०१ (सन २०२५-२६)

५) विषयांकीत कामाची निविदा www.mahatenders.gov.in या महाराष्ट्र शासनाच्या संकेतस्थळावर ऑनलाईन प्रसिध्दीने निविदा मागविण्यात आलेल्या आहेत.

अ) निविदा प्रसिध्दी कालावधी : दि. ०८/०९/२०२६ ते १६/०९/२०२६

आ) आर्थिक देकार/निविदा उघडल्याचा : दि. २३/०९/२०२६

६) विषयांकीत कामासाठी एकुण तीन (०३) निविदा प्राप्त झालेल्या आहेत. त्यापैकी दोन (०२) निविदा पात्र झालेल्या आहेत, असे मध्यवर्ती निविदा कक्षाने कळविले आहे. त्या निविदांचा आर्थिक देकार उघडल्याचा तपशिल खालील प्रमाणे आहे.

अ.नं.	निविदाधारकाचे नांव	पुर्वगणपत्रकापेक्षा टक्केवारी
१.	मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक	१८.६९० % कमी दराने
२.	मे.बिटकॉन ईंडिया इन्फ्रास्ट्रक्चर डेव्हलपर्स प्रा.लि., मुंबई	१६.९९० % कमी दराने

न्युनतम दराच्या निविदेची शिफारस करण्यात आलेली आहे.

वरील बाब क्र. ६ मध्ये नमूद केलेल्या निविदांपैकी मक्तेदार मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक या मक्तेदाराची निविदा प्राकलन दरापेक्षा १८.६९० % कमी दराने ही न्युनतम दराची असून, मक्तेदार यांना लेखी पत्र देऊन वाटाघाटी व दरपृथकरण सादर करणेबाबत विचारणा केली असता, मक्तेदार यांनी लेखी पत्र देऊन सदरचा दर रास्त असून त्यांनी सादर केलेली प्राकलन दरापेक्षा १८.६९० % कमी दराची निविदा मंजूर करणेची विनंती केली आहे.

विषयांधीन कामास संदर्भ क्र.३ अन्वये नाशिक-त्र्यंबकेश्वर कुंभमेळा प्राधिकरणाची प्रशासकीय मंजुरी प्राप्त झाली असून, प्रशासकीय मान्यता रक्कम रु.२५.०० कोटी आहे. शासन निधीतून कामासाठी उपलब्ध तरतुदी मिळून सदरचा खर्च करण्यात येईल.

सहकार अभियंता
सार्वजनिक बांधकाम विभाग
२८.९.२६ दि.

१४२

F. C. RODRIGUES
DESIGNATED PARTNER



सभा क्र. : १२

विषय क्र. : ५६३

ठराव क्र. : ५६३

दिनांक : ३० / ०९ / २०२६

सदर प्रशासकीय मान्यतेनुसार न्यूनतम निविदाधारक मन्तव्यदार मे.एफ.सी.रॉड्रीक्स एल.एल.पी, नाशिक यांचेकडून प्राकलन दरापेक्षा १८.६९० % कमी दराने र.रु.१६,९४,९७,९९३/- अधिक (र.रु.३,०४,९५,२३९ /- जी.एस.टी. + र.रु.४१,२९,९२८/- रॉयल्टी व टेस्टींग चार्जेस सह) अशी एकुण र.रु.२०,४०,४३,१६० /- (अक्षरी र.रु.वीस कोटी चाळीस लाख त्रेंचाळीस हजार एकशे साठ मात्र) इतक्या रकमेपर्यंत काम करून घेणेस व करार करण्यास नियमानुसार मंजूरी देणेत येत आहे.


(मदन हरिश्चंद्र)
प्र.नगरसचिव,
नाशिक महानगरपालिका, नाशिक


(मनिषा खत्री)
प्रशासक,
नाशिक महानगरपालिका, नाशिक



नाशिक महानगरपालिका
Nashik Municipal Corporation

Rajeev Gandhi Bhavan, Sharanpur Road (Post Box No.१२), Nashik — ४२२ ००२

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e-mail : ce-pwd@nmc.gov.in



जा.क्र.साबांवि/डेस्क-२/२८९/२०२६
दिनांक-२३/०१/२०२६

प्रति,

मे.एफ.सी.रॉड्रीक्स एलएलपी,
निविदाधारक, नाशिक

विषय :- अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (क्रॉक्रीट)
(फेरनिविदा)

संदर्भ :- १) ई-निविदा सु.क्र.६०/०१ 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 १८.६९० % इतक्या कमी** दराची निविदा दाखल केली आहे. तुम्ही दाखल केलेल्या निविदेच्या दराबाबत चर्चा करावयाची असून पुढील निर्णय घ्यावयाचा आहे. मा.आयुक्त सो.यांचा निर्देशानुसार, कुंभमेळा दृष्टीकोनातून महत्त्वपूर्ण सदर रस्त्याच्या कामा संबंधाने वाटाघाटी करून आपण सादर केलेला देकार अजून कमी करावा. त्याच बरोबर सादर केलेल्या दराबाबत योग्य ते **दरपृथःकरण** लेखी स्वरूपात सादर करावे ही विनंती.

कार्यकारी अभियंता (बांधकाम)
नाशिक महानगरपालिका, नाशिक

F. C. RODRIGUES LLP

DESIGNATED PARTNER



LLP ID: ACQ-6493
GSTIN: 27AAOFM3122H1ZB

ON GOVT. APPROVED LIST
F. C. RODRIGUES LLP

Engineers & Contractors

Specialist in - Asphalt Road Works, W.B.M. Roads, Infrastructure Development,
Earth Works, Dam Works, & Supply of RMC. (Ready Mix Concrete)

Office : 6-7, Keer Apartment, Behind Hotel Rasoi, Deepali Nagar, Gurunanak Hsg. Soc., Off. Mumbai-Agra Road, Nashik - 422 009
(0253) 2599481 98220 27881 98224 01013 98220 63900 fcrodrigues13@gmail.com

Date: 23/01/2026

प्रति,
मा. कार्यकारी अभियंता,
सार्वजनिक बांधकाम विभाग,
नाशिक महानगरपालिका,
नाशिक.

कामाचे नाव :- अमृत मिरवणूक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे.
संदर्भ :- जा. क्र. साबांवि/डिस्क-२/२९९/२०२६ दिनांक- २३/०१/२०२६.

मा. महोदय,

वरील कामाच्या संदर्भानुसार आम्ही सादर केलेल्या कामाची निविदा १८.६९% कमी दराने भरलेली आहे.

आम्ही सादर केलेल्या विषयांकित कामाच्या निविदेचा दर हा प्राकलन दरापेक्षा १८.६९% इतका कमी असून तो सादर करताना खालील सर्व बाबी विचारात घेतल्या आहेत.

१) जवळपासच्या क्षेत्रात आमची इतरही कामे चालू असल्याने सदर कामासाठी लागणाऱ्या बांधकाम साहित्याचे दर संबंधित लोकांशी चर्चा करून तुलनात्मक कमी पकडलेले आहेत, तसेच स्वतःच्या मालकीची मशिनरी जसे की अद्यावत RMC Plant, Hot Mix Plant, Hydraulic Paver इत्यादि सद्यस्थितीत कमी अंतरावर उपलब्ध असल्याने मशिनरी मोबिलायझेशन व साहित्य वाहतूक खर्च कमी पकडला आहे.

२) जवळपासच्या क्षेत्रात इतर कामासाठी कामावर असलेले अतिरिक्त मनुष्यबळ या कामासाठी त्वरित उपलब्ध करण्यायोग्य आहे. सदरील कामाचे कार्यारंभ आदेश लवकर मिळाल्यास सदर काम लगेच सुरू करून मुदतीपूर्वी पूर्ण करण्याचे आमचे नियोजन आहे. त्यामुळे कामावर ओव्हर हेड शुल्क देखील आम्ही कमी प्रमाणात धरलेले आहेत.

वरील सर्व गोष्टींचा विचार करूनच आम्ही सदर कामाच्या निवेदेचा दर हा प्राकलन दरापेक्षा १८.६९% इतका कमी केला असून, तो अजून कमी करणे शक्य नाही. तरी कृपया आम्ही सादर केलेली निविदा आहे तशी स्वीकारण्यात येऊन लवकरात-लवकर पुढील निविदा प्रक्रिया पूर्ण करावी ही नम्र विनंती.

F. C. RODRIGUES LLP

DESIGNATED PARTNER



आपला विश्वासू
F. C. RODRIGUES LLP

DESIGNATED PARTNER





नाशिक महानगरपालिका
Nashik Municipal Corporation

Rajeev Gandhi Bhavan, Sharanpur Road (Post Box No.१२), Nashik - ४२२ ००२

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जा.क्र.साबावि/डेस्क-२/३०१/२०२६
दिनांक - २३/०१/२०२६

प्रति,

मे.एफ.सी.रॉड्रीक्स एलएलपी,
निविदाधारक, नाशिक

विषय :- अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (क्रॉक्रीट)
(फेरनिविदा)

संदर्भ :- १) ई-निविदा सु.क्र.६०/०१ सन २०२५-२६

२) आपणास दिलेले पत्र जा.क्र.साबावि/डेस्क-२/२९९/२०२६ दि.२३/०१/२०२६

३) मक्तेदार यांनी दि.२३/०१/२०२६ 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 १८.६९० % इतक्या कमी दराची निविदा दाखल केली आहे.** मा.आयुक्त सो. यांच्या निर्देशानुसार, कुंभमेळा दृष्टीकोनातून महत्वपूर्ण सदर रस्त्याचा कामासंबंधाने वाटाघाटी करून आपण सादर केलेला देकार अजून कमी करावा, याबाबत संदर्भ क्र.०२ अन्वये आपणास लेखी विनंती करण्यात आली होती. तथापी त्यापेक्षा अधिक कमी दर करणे शक्य नसल्यामुळे विषयांकीत काम **निविदा दरापेक्षा १८.६९० % कमी दरानेच मंजूर करण्याची आपण विनंती केली आहे.**

यास्तव कामाचे महत्व व कालमर्यादा लक्षात घेऊन निविदा अटी व शर्ती क्र.२.२ नुसार **मा.आयुक्त नाशिक महानगरपालिका, नाशिक या नावे अतिरिक्त सुरक्षा अनामत रक्कमे पोटी र.रु.३,३४,५०,०००/- इतक्या रक्कमेची राष्ट्रीय कृत बँकेच्या एफ.डी.आर/ बँक गॅरंटी, अथवा रोख स्वरूपात मनपा खजिन्यात भरणा करून त्याची पावती ८ दिवसांचे आत इकडील कार्यालयात सादर करावी. विहीत मुदतीत अतिरिक्त सुरक्षा अनामत रक्कमेची पूर्तता न केल्यास निविदा अटी व शर्ती क्र.२.२ (२) नुसार पुढील कार्यवाही करणेत येईल याची कृपया नोंद घ्यावी.**

Nemul

F. C. RODRIGUES LLP

DESIGNATED PARTNER

Am

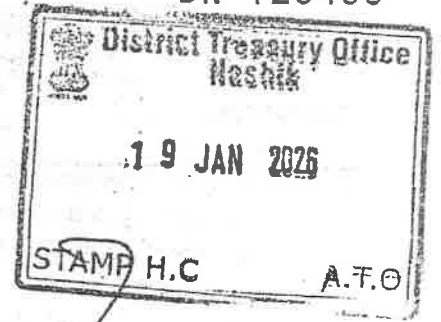
कार्यकारी अभियंता (बांधकाम)
नाशिक महानगरपालिका, नाशिक



महाराष्ट्र MAHARASHTRA

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DN 120480



To,

The Commissioner,
Nashik Municipal Corporation,
Nashik.

Guarantee No. 60436741378

Amount of Guarantee: Rs.3,34,50,000/- (Rupees Three crore thirty four lakh fifty thousand Only)

Date of Issue: 28.01.2026

Expiry Date: 27.01.2027

F. C. RODRIGUES LLP ^{UnClassified}
DESIGNATED PARTNER

[Handwritten signature]



We, The Bank of Maharashtra Indiranagar Branch, operating at Mauli Bungalow, Near Rathachakra Chowk, Indiranagar, Nashik-422009 at the request of F.C.Rodrigues LLP, do hereby Irrevocably and unconditionally undertake to pay to the Office of the Commissioner, NMC Nashik by reason of F.C Rodrigues LLP defaulting / failing to pay to the Office of the Commissioner, NMC Nashik, any money payable by it under this guarantee on demand made by the Office of the Commissioner, NMC Nashik, received by us on or 27.01.2027 for the work of Nashik Kumbh Amrut Rally Concrete Road Work(Coming and Going)

We, the Bank of Maharashtra do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on demand from the Office of the Commissioner, NMC Nashik stating that the amount claimed is due from F.C Rodrigues LLP, to the Office of the Commissioner, NMC Nashik for any reason whatsoever, under the said agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under the guarantee and shall be restricted to an amount not exceeding Rs.3,34,50,000/- (Rupees Three crore thirty four lakh fifty thousand Only)

We undertake to pay to the Office of the Commissioner, NMC Nashik any sum up Rs.3,34,50,000/- (Rupees Three crore thirty four lakh fifty thousand Only) notwithstanding any disputes raised by F.C.Rodrigues LLP in any suit or proceeding pending before any court, Tribunal, arbitrator relating thereto, our liability under this present being absolute and unequivocal. The payment made by us under this guarantee shall be valid discharge of our liability for payment there under and Office of the Commissioner, NMC Nashik shall have no claim against us for making such payment.

We, The Bank of Maharashtra, further agree that the guarantee here contained shall remain in force and effect during the currency of the said Agreement. Unless a demand or claim under this guarantee is made on us in writing on or before the expiry of this guarantee we shall be discharged from all liability under this guarantee thereafter but not later than 27.01.2027

We, The Bank of Maharashtra, further agree with Office of the Commissioner, NMC Nashik that Office of the Commissioner, NMC Nashik has the fullest liberty without our consent and without effecting in any manner or obligation hereunder to vary any of the terms & conditions of the said agreement or to extend time of performance by F.C Rodrigues LLP from time to time or to postpone for any time or from time to time any of the powers exercisable by Office of the Commissioner, NMC Nashik against F.C Rodrigues LLP or forebear or enforce any of the terms and conditions of the said Agreement and we shall not be relieved from our liability by reason or any such variation or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

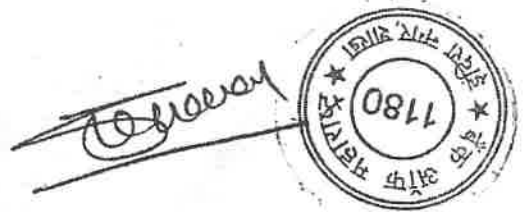
This guarantee will not be discharged due to the change in the constitution of F.C Rodrigues LLP, including its dissolution.

We, The Bank of Maharashtra, lastly undertake not to revoke this guarantee during its currency except with the previous consent of Office of the Commissioner, NMC Nashik in writing.

The validity period of this Bank Guarantee is from the date of issuance of the bank guarantee till 27.01.2027 & claim period up to 27.01.2027

Notwithstanding anything contained herein above:

Unclassified
F. C. RODRIGUES
DESIGNATED PARTNER



1. Our liability under this Bank Guarantee shall not exceed Rs.3,34,50,000/- (Rupees Three crore thirty four lakh fifty thousand Only)
2. This Bank Guarantee shall be valid up to 27.01.2027 & claim period up to 27.01.2027
3. We are liable to pay the guarantee amount only and only if we receive from you at our address stated below, a written claim or demand no later than 1 Year from the said expiry date, failing which all your rights under this guarantee shall extinguish and we shall stand completely discharged.

Address for service of claim/demand

Bank of Maharashtra Nasik Zonal Office,

MHADA Building, Gadkari Chowk,

Old Agra Road, Nashik-422001

[Handwritten signature]
28/01/2026

[Handwritten signature]
Dated this 28.01.2026

For Bank of Maharashtra, Indiranagar Branch

[Circular stamp: 1780, Bank of Maharashtra, Indiranagar Branch]

F. C. RODRIGUES LLP

[Handwritten signature: Rodrigues]
DESIGNATED PARTNER

BRANCH NO:01180
BANK OF MAHARASHTRA
NASIK INDIRANAGAR
MAULI BUNGLOW INDIRANAGAR
NASIK I

DATE: 28.01.2026
MOB NO: 919209055034
FAX NO:
IFSC CODE: MAHB0001180
PIN CODE :422009

ur Ref: BG Reference No.60436741378
To
The Commissioner,
Municipal Corporation,
Nashik

28.01.2026

DEAR SIR(S),

We enclose here with Bank Guarantee of exceeding Rs.3,34,50,000/- (Rupees Three crore thirty four lakh fifty thousand Only) in your favor on behalf of our client M/S F C Rodrigues valid up to 27.01.2027

Details of Bank Guarantee:

Issuing Branch: 01180

Date of BG: 28.01.2026

BG Ref No. 60436741378

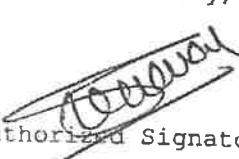
Amount: Rs.3,34,50,000/- (Rupees Three crore thirty four lakh fifty thousand Only)

Expiry Date: 27.01.2027

Claim Date: 27.01.2027

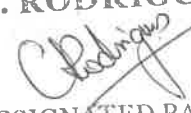
Confirmation of this guarantee can be had from our Regional Office at: BANK OF MAHARASHTRA NASIK ZONAL OFFICE, MHADA BUILDING, GADKARI CHOWK, NASHIK-422001.

Yours faithfully,


Authorized Signatory



F. C. RODRIGUES LLP


DESIGNATED PARTNER

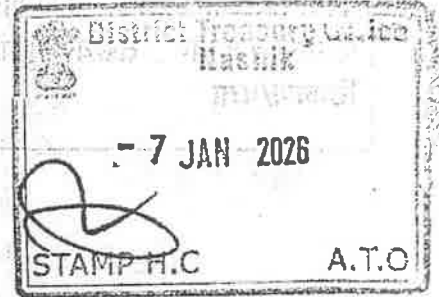
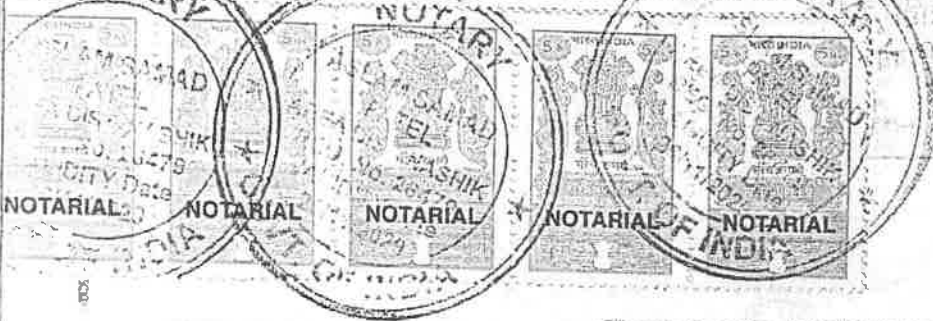
Unclassified



MAHARASHTRA

2024

DM 655555



Clause for Non Black Listing

Name of Work: Development of Amrut Miravanuk Marg (Both directions), Nashik
E Tender Notice No. 60/1(2025-26)
Tender ID : 2025_NMC_1267470_1

I Cyril Francis Rodrigues age 51 year having residing at Nashik Affirm in writing that, I Partner of **F. C. RODRIGUES LLP (Formerly Known: M/s. F. C. RODRIGUES)** Nashik firm, constituted have Submitted the tender for the work of Development of Amrut Miravanuk Marg (Both directions), Nashik. We declare that as on date neither our firm is black listed nor any action of deregistration has been taken against our firm by any Government / Semi-Government / Public Sector Undertaking / Urban Local body/ Municipal Corporation etc.

If our above statement is found misleading, false and incomplete then we will be responsible and will remain responsible for legal action taken by Department and will remain responsible for prosecution under Indian Penal Code.

Date - 14.01.2026

Place: - Nashik.

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at Serial No. 44
DATE 14/01/2026
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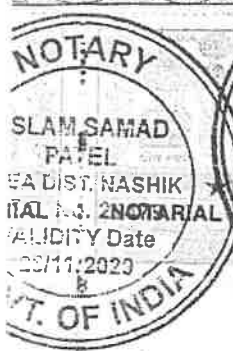
F. C. RODRIGUES LLP

DESIGNATED PARTNER

F. C. RODRIGUES LI

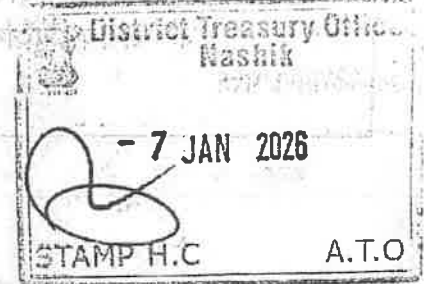
ASLAM SAMAD PATEL
Advocate & Notary Govt. of India
Off. 218-B, Meghdoot, Nashik
Center Opp. Old C.B.S. Nashik
Mob. 9822312819

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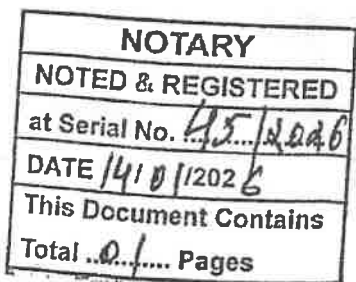
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Name of Work: Development of Amrut Miravanuk Marg (Both directions), Nashik
E Tender Notice No. 60/1(2025-26)
Tender ID : 2025_NMC_1267470_1

- 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 F. C. RODRIGUES LLP (Formerly Known: M/s. F. C. RODRIGUES) 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.



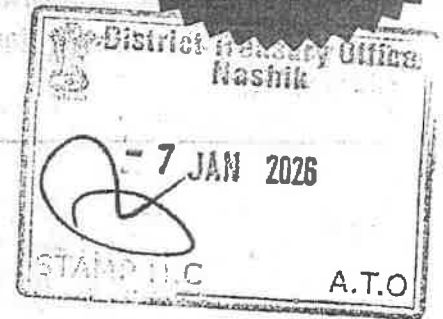
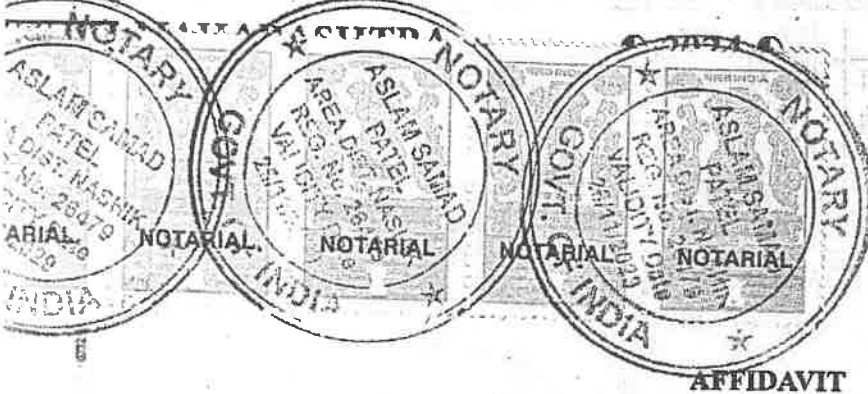
F. C. RODRIGUES LLP

DESIGNATED PARTNER



Mr. Cyril Francis Rodrigues
Partner
F. C. RODRIGUES LLP
Date: 14.01.2026

ASLAM SAMAD PATEL
Advocate & Notary Govt. of India
Off. 218-B, Meghdoot Shopping
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Name of Work: Development of Amrut Miravanuk Marg (Both directions), Nashik
E Tender Notice No. 60/1(2025-26)
Tender ID : 2025_NMC_1267470_1

I Cyril Francis Rodrigues age 51 Address:- 6-7, Keer Apartment, Behind Hotel Rasoi, Deepali Nagar, Gurunank Hsg. Soc., Off. Mumbai-Agra Road Nashik -422009 (Authorized signatory to sign the contract), hereby submit, vide this affidavit in truth, that I am the owner of the contracting firm **F. C. RODRIGUES LLP (Formerly Known: M/s. F. C. RODRIGUES)** 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).

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F. C. RODRIGUES LLP

DESIGNATED PARTNER

C. Rodrigues

Nashik Municipal Corporation, Nashik.
Public Works Department

Facesheet

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Sr. No.	Component	Particulars	Length in m	Area in Sq.m	Amount	Rate	Unit
1	A	Dismantling			45,42,978		
2	B	Strom Water / Service line / Utility D	-		2,42,61,173		
3	C	Road Work (Construction of Bituminious or Concrete Road Items)			13,53,99,241		
4	D	Miscellaneous Items for Repairing Work	-		63,61,642		
5	E	Road Furniture	-		81,67,422		
6	F	Providing Public Utilities			40,875		
7	G	Water Supply			16,40,654		
		Civil Work Total Cost		28708.85	18,04,13,985	6,284.26	Sq.m
		GST 18%	18%		3,24,74,517		
		Total Cost with GST		28708.85	21,28,88,502	7,415.43	Sq.m
		Royalty			31,71,718		
		Quality Control Testing Charges			9,58,210		
		Total Civil Cost		28708.85	21,70,18,430	7,559.29	Sq.m
		Total Civil Cost in Cr.			21.70		

I am we are ready to do the work at 18.690% Below at the Estimated Rates

Contractor


 Executive Engineer
 PWD Panchavati, NMC Nashik.

F. C. RODRIGUES LLP

DESIGNATED PARTNER

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

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.	5.44	6830.30	Km	37156.83
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.	2194.00	451.50	Cum	990591.00
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.	1994.82	1454.30	Cum	2901072.72
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	20.00	389.60	No	7792.00
5	46.09	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc.	20.00	351.80	Cum	7036.00
6	46.11	Dismantling stone masonry in lime or cement mortar including stacking the materials as directed with all leads, lifts etc.	20.00	399.00	Cum	7980.00
7	46.12	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc, complete	20.00	585.90	Cum	11718.00
8	46.13	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc, complete	20.00	976.50	Cum	19530.00
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	20.00	47.30	Sqm	946.00
10	46.25	Removing wire fencing with iron/ C.C. fencing post and stacking the materials as directed with all leads, lifts etc. complete.	20.00	70.30	Rmt	1406.00
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	12072.50	46.20	Sqm	557749.50
A Dismantling				Total Rs		4542978.06
B Strom Water / Service line / Utility Duct						
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	3925.00	2.00	Rmt	7850.00
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	3007.04	181.50	Cum	545778.21
b)		Lift upto 1.50 to 3.0 m depth	5.22	198.00	Cum	1033.56

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No	SSR No.	Description	Qty	Rate	Per	Amount
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 dewatering, 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	6002.61	232.10	Cum	1393205.78
		Lift upto 1.50 to 3.0 m depth	3.57	248.60	Cum	887.50
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	3007.04	691.90	Cum	2080572.71
	b	Lift upto 1.50 to 3.0 m depth	3.57	722.70	Cum	2580.04
	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	3007.04	1230.90	Cum	3701368.61
	b	Lift upto 1.50 to 3.0 m depth	2.55	1261.70	Cum	3217.34
	c	Lift up to 3.0 to 4.5 m depth	1.38	1292.50	Cum	1783.65
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)	338.53	96.60	Cum	32702.12
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 Engineer-in-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, I d.e.f.2)Page No. 94,95,96				
	b	R.C.C.NP-III Class (MJP, SSR 2023-24,Sec-I-(VI)-I-e.)				0.00
		i) for 150 mm dia	20.00	509.80	Rmt	10196.00
		ii)for 200 mm dia	10.00	581.10	Rmt	5811.00
		iii) for 250 mm dia	10.00	788.60	Rmt	7886.00
		iv)for 300 mm dia	9322.00	1078.00	Rmt	10049116.00
		vii) for 450 mm dia	691.50	2005.60	Rmt	1386872.40
		ix) for 600 mm dia	10.00	2886.20	Rmt	28862.00
	c	R.C.C.NP-IV Class (MJP, SSR 2023-24,Sec-I-(VI)-I-e.)				
		xii) for 900 mm dia	5.00	5323.00	Rmt	26615.00
		xiii) for 1000 mm dia	5.00	5875.30	Rmt	29376.50
		xiv)for 1200 mm dia	5.00	11138.30	Rmt	55691.50

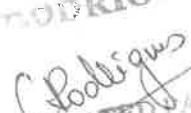
RODRIGUES LLP
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No	SSR No.	Description	Qty	Rate	Per	Amount
19	MJP-21 A1	Providing and constructing on sewer, Fly Ash Brick masonry circular manhole concentric cone 0.9 M dia. at bottom and 0.5 M dia. at top and upto a depth of 1.00 M, with 15cm thick 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.)	25.00	17055.30	No	426382.50
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.)	7.00	30138.60	No	210970.20
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.)	4.00	82847.30	No	331389.20
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 reinforcement 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 reinforcement 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.)	2.00	273164.60	No	546329.20

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No	SSR No.	Description	Qty	Rate	Per	Amount
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 1:6 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 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.)	10.00	10326.40	No	103264.00
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.)	24.00	16803.50	No	403284.00
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.)	20.00	12238.90	Rmt	244778.00
26	MJP-22 b1	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.)	5.25	7549.90	Rmt	39636.98
27	MJP-22 c1	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.)	3.00	16411.90	Rmt	49235.70
28	MJP-22 f1	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.)	2.50	35216.60	Rmt	88041.50
29	MJP-22 s1	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.)	5.00	5208.70	Rmt	26043.50


 C. Rodrigues
 NATED

No	SSR No.	Description	Qty	Rate	Per	Amount
30	MJP-22	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.)	12.00	13415.60	Rmt	160987.20
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)	11280.02	96.60	Cum	1089649.99
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)				0.00
		(MJP, SSR 2023-24, Sec-I (XX)-17.)				0.00
		i) 540 Dia.	25.00	3665.60	No	91640.00
		ii) 560 Dia.	25.00	4797.50	No	119937.50
		iii) 90x45 cm	10.00	3665.60	No	36656.00
		iv) 90x60 cm	15.00	3973.20	No	59598.00
		v) 60 x 60 cm	5.00	3628.80	No	18144.00
		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 material upto a distance of 50.0M for all lifts as directed by Engineer-in-charge.etc. complete	79.48	234.20	Cum	18614.51
34	MJP-35	Cleaning the R.C.C. choked up pipes of diameter from 200 mm to 450 mm including removing material upto a distance of 50.0M for all lifts as directed by Engineer-in-charge.	350.00	54.50	Rmt	19075.00
35	MJP-36	Cleaning the R.C.C. choked up pipes by using bucket machine and rodding machine including removing material upto a distance of 50.0M for all lifts in different places during cleaning operation all labour and safety precaution should be taken by maintenance 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 machinery provided by department charges will be 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 contractor after completion of a cleaning operation by contractor has to test the line in presence of engineer-in-charge. (As per Rate Analysis)				0.00
	a)	For 200mm to 600mm dia RCC drain line	1500.00	158.70	Rmt	238050.00
	b)	For above 600mm to 1000mm dia RCC drain line	1200.00	238.10	Rmt	285720.00
	c)	For above 1000mm dia RCC drain line	840.00	317.40	Rmt	266616.00
	B	Strom Water / Service line		Total Rs		24261172.89
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.	3849.00	125.00	Cum	481125.00

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No	SSR No.	Description	Qty	Rate	Per	Amount
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	2566.00	145.90	Cum	374379.40
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.	76.98	185.80	Cum	14302.88
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.	38.49	1490.00	Cum	57350.10
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.	10.00	125.00	Cum	1250.00
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 excavation to the site of deposition as directed.	10290.48	264.80	Cum	2724918.28
42	2.27	Providing Earth work in embankment with approved material obtained from Govt. land with 50 m lead, by using laying in layers, breaking clods, dressing to required lines curves grade, and section watering and compaction complete. (a) 95% proctor density. Spec.No. : M.O.S.T. 1995 Cl.No.305	10.00	236.30	Cum	2363.00
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)	1140.00	1263.20	Cum	1440048.00
44	2.29a	Supplying hard murum/ kankar at the road site, including conveying and stacking complete. Sp. No. Rd. 23 P.No. 202	2566.00	925.10	Cum	2373806.60
45	2.3	Spreading hard murum for side width etc. complete	2566.00	83.00	Cum	212978.00
46	2.31	Compacting the hard murum side widths including laying in layers on each side with power roller including artificial watering etc. complete.	12830.00	22.10	Sqm	283543.00
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	2566.00	2740.50	Cum	7032123.00
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)	1914.50	3059.60	Cum	5857604.20

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No	SSR No.	Description	Qty	Rate	Per	Amount
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)	1245.75	3005.60	Cum	3744226.20
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.	50.00	2765.50	Cum	138275.00
51	14.58	Providing and laying in PCCM 15 grade leveling course below approach slab complete with fully automatic micro process or PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (panmixer) as per drawing sand Technical specifications etc.complete with fine aggregates of required specifications (VSI sand finely washed etc)	1894.50	6924.80	Cum	13119033.60
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.	1271.16	4492.00	Cum	5710031.77
53	25.50	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)	31.05	13505.60	Cum	419348.88
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.	1.50	94188.10	MT	141282.15
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.	8474.37	31.50	Sqm	266942.71

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No	SSR No.	Description	Qty	Rate	Per	Amount
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.	2221.62	8974.80	Cum	19938632.20
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	6600.50	564.90	No	3728622.45
58	5.16	Providing and fixing in position TMT FE 500, tie bars precoated with anticorrosive epoxy paint of 12 mmdia. 70 cms. long and at 30.00 cm. C/C and wherever directed including handling, straightening wrapping with paper of approved quality for half length, necessary cutting, handling, straightening, supported by assembly of TMT FE500, chairs with proper alignment etc. complete.	1938.33	321.30	No	622786.50
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.	7564.00	79.80	Rmt	
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)	7564.00	326.60	Rmt	2470402.40
61	14.33	Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete.	15.00	1140.30	Sqm	17104.50
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 in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	10.00	516.60	Rmt	5166.00

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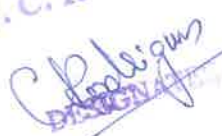
 DESIGNATED PARTNER

No	SSR No.	Description	Qty	Rate	Per	Amount
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.)				0.00
	a	Size- Length 300 mm, Height 750mm, Top Width 125 mm, Bottom width 200 mm, Chamfer Height 300 mm	2616.00	1618.50	Rmt	4233996.00
	b	Size- Length 400 mm, Height 450mm, Width 125mm, Chamfer Height 450 mm	15156.00	788.00	Rmt	11942928.00
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	9472.50	978.60	Sqm	9269788.50
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	3157.50	1238.00	Sqm	3908985.00
66	3.35	Providing and laying 75mm thick compacted Modified Penetration 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.	50.00	362.60	Sqm	18130.00
67	3.36	Providing and laying 75mm thick compacted Modified Penetration 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.	15012.45	361.20	Sqm	5422496.94
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	44248.95	33.60	Sqm	1486764.72
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.	100.00	60.80	Sqm	6080.00

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No	SSR No.	Description	Qty	Rate	Per	Amount
71	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)	50.00	8496.20	Cum	424810.00
72	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.	50.00	9095.60	Cum	454780.00
73	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.	1327.47	11105.50	Cum	14742201.43
74	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 for 30/40 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	884.98	13468.80	Cum	11919605.16
75	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 15 percent 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

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No	SSR No.	Description	Qty	Rate	Per	Amount
76	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.	266.01	1470.00	kg	391029.35
C		Road Work		Total Rs		135399240.91
D	Miscellaneous	Items for Repairing Work				
77		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	15.00	279.30	Rmt	4189.50
	42.57	25 mm	15.00	393.80	Rmt	5907.00
	42.58	32 mm	15.00	452.60	Rmt	6789.00
	42.59	40 mm	15.00	566.00	Rmt	8490.00
	42.60	50mm	15.00	778.00	Rmt	11670.00
78	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.	10.00	1310.40	No	13104.00
79	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
80		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.				0.00
	43.30	110mm	25.00	343.40	Rmt	8585.00
	43.31	160mm	25.00	533.40	Rmt	13335.00
81	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	20.00	7917.10	Cum	158342.00
82	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	20.00	13152.80	Cum	263056.00
83	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.	20.00	6140.90	Cum	122818.00

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No	SSR No.	Description	Qty	Rate	Per	Amount
84	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)	80.50	8172.60	Cum	657894.30
85	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.	250.00	438.30	Sqm	109575.00
86	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.	500.00	722.00	Sqm	361000.00
87	35.21	Providing and applying priming coat on concrete/ masonry/ 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.	11870.25	37.80	Sqm	448695.45
88	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	2870.25	309.80	Sqm	889203.45
89	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.	2967.56	89.30	Sqm	265003.33
90	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	8902.69	92.40	Sqm	822608.33
91	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.	20.00	1251.90	Sqm	25038.00
92	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.	20.00	962.90	Rmt	19258.00
93	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	20.00	2936.80	Rmt	58736.00

F.C.R.C. - 1000mm

 D. S. Kulkarni
PARTNER

No	SSR No.	Description	Qty	Rate	Per	Amount
94	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 horizontal 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 rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering/formwork will not be allowed).	20.00	2623.90	Rmt	52478.00
95	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, cement 6.40 bags/cumt)	20.00	8236.30	Cum	164726.00
96	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.	1.00	106936.20	MT	106936.20
97	21.38	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	26.22	2049.00	Cum	53724.78
98	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 as per 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 automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	20.00	8584.20	Cum	171684.00
99	33.68	Providing and laying telephone black / Amba White / Cadbury brown / 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	20.00	4616.10	Sqm	92322.00
100	46.39	Providing and erecting chain link fencing 1.6M. height with G.I. chain link of size 50 x 50mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40x40x6 mm size, including 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 16mm dia as hold fast including welding link with angle frame at 30cm c/c with nuts 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.	20.68	2728.00	Rmt	56412.04
101	44.10	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.	20.00	3349.50	Sqm	66990.00

No	SSR No.	Description	Qty	Rate	Per	Amount
102	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.	20.00	2201.80	Sqm	44036.00
103	21.02	Excavation for foundation inearth, soil of all types, sand, gravel and soft murum, including removing the excavated material up to a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming,watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	121.13	217.40	cum	26332.58
104	24.04	Providing and laying Cast in situ/Ready Mix cement concrete in M15 of trap/granite/quartzite/gneissmetal for foundation and bedding / steps including steel centering, 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 honey combed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering will not be allowed.),with fullyautomatic micro processor based PLC with SCADA enabled reversible Drum Typemixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sandVSI Grade)	17.10	7327.00	Cum	125291.70
105	25.11	Providing and laying insitu /ReadyMix cement concrete M 20 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, Steel centering formwork, laying/pumping cover blocks, 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 (Panmixer)etc.complete.With fine aggregate (Crushed sand VSI Grade)	51.30	8082.30	Cum	414621.99
106	11.29	Providing cast in situ / ready mix M20 grade cement concrete for head walls of CD work / retaining walls etc. including necessary form work, compaction, finishing and curing etc. complete. (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with Natural / VSI standard Artificial Sand, cement 7.00 bags/cumt)	57.00	10857.50	Cum	618877.50
D Miscellaneous Items for Reparing Work				Total Rs		6361642.14
E Road Furniture						
107	6.12	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.	4153.60	699.30	Sqm	2904612.48
108	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.	4562.00	384.30	No	1753176.60
F. C. RODRIGUES LLP						



DESIGNATED PARTNER

No	SSR No.	Description	Qty	Rate	Per	Amount
109	6.17 (From Old SSR)	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.	250.00	4189.50	No	1047375.00
110	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.	726.00	480.90	No	349133.40
111	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	20.00	863.10	No	17262.00
112	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	20.00	1056.30	No	21126.00

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DESIGNATED PARTNER

No	SSR No.	Description	Qty	Rate	Per	Amount
113	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 retroreflective specified back ground, border and back side retroreflective 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.				
114	b	600 mm dia made out of 3mm aluminum composite material	5.00	5665.80	No	28329.00
	d	750 mm dia made out of 4mm aluminum composite material	5.00	7519.10	No	37595.50
	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 retroreflective specified back ground, border and back side retroreflective 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	5.00	4524.40	No	22622.00
	d	750 mm made out of 4mm aluminum composite material	5.00	5205.90	No	26029.50
	f	900 mm made out of 4mm aluminum composite material	5.00	6647.60	No	33238.00

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DESIGNATED PARTNER

No	SSR No.	Description	Qty	Rate	Per	Amount
115	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 retoreflective 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 fixtures 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	8.10	13891.50	Sqm	112521.15
116	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 retoreflective 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 fixtures 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	12.96	16722.30	Sqm	216721.01

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No	SSR No.	Description	Qty	Rate	Per	Amount
117	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 retroreflective specified back ground, border and back side retroreflective 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	12.96	10839.10	Sqm	140474.74
118	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 series channel 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 dip process, 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 section 150x75x5 mm, 330 mm long complete as per clause 810)""	27.00	5157.60	Rmt	139255.20
119	7.21	Providing and Constructing gabion structure 1 Meter high or required section made up of soft mechanically woven hexagonal shaped G.I. wire conforming to IS 16014:2012 having zinc plus PVC coating of overall diameter of 3.7mm and tying lacing wire of 3.2 mm with edge wire conforming to overall diameter 4.4 mm edges being mechanically selvage 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)	250.00	5271.80	cum	1317950.00
	E	Road Furniture		Total Rs		8167421.57
F	Providing Public Utilities					
120	51.44	Public Seating Chair. - 3 Seater Providing and Fixing 3 seater Public seating chair made of complete metal with Legs in Chrome finish and seats in silver powder coating finish.	1.00	18958.80	No	18958.80
121	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)	1.00	21916.65	No	21916.65
	F	Providing Public Utilities		Total Rs		40875.45
	G	Water Supply				1640653.77
		Total Rs	A+B+C+D+E+F+G			18,04,13,984.79
		Total Rs With GST Road work	Add GST	18%	Rs	32474517.26
						212888502.06

C. RODRIGUES
DESIGNER

No	SSR No.	Description	Qty	Rate	Per	Amount
122		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)				
	A	for murum / Rubble /	14646.68	216.18	Cum	3166318.20
	B	for sand	22.75	237.37	Cum	5400.17
				Total Rs		3171718.37
				Total Rs. With GST and Royalty	Rs	216060220.43
				Say Rs		21,60,60,221.00

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

Deputy Engineer
PWD Panchavati, NMC Nashik.

Executive Engineer
PWD Panchavati, NMC Nashik.

F. C. RODRIGUES LLP

F. C. Rodrigues
DESIGNATED PARTNER

**NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET**



Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

No	SSR No.	Description	Qty	Rate	Per	Amount
B		Water Supply Lines				
1	R.A.	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 & IS: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)				
		D.I. K - 7				
		i) 100 mm Dia.	8.00	1209.00	Rmt	9672.00
		ii) 150 mm Dia.	8.00	1686.00	Rmt	13488.00
		iii) 200 mm Dia.	8.00	2236.00	Rmt	17888.00
		iv) 250 mm Dia.	8.00	2906.00	Rmt	23248.00
		v) 300 mm Dia.	8.00	3571.00	Rmt	28568.00
		vi) 350 mm Dia.	8.00	4465.00	Rmt	35720.00
		vii) 400 mm Dia.	8.00	5328.00	Rmt	42624.00
		viii) 450 mm Dia.	8.00	6346.00	Rmt	50768.00
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	200.00	88.00	kg	17600.00
		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 statutory 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.	8.00	1311.00	No	10488.00
		100 mm Dia.	8.00	1430.00	No	11440.00
		125 mm Dia.	8.00	1800.00	No	14400.00
		150 mm Dia.	8.00	2574.00	No	20592.00
		200 mm Dia.	8.00	3335.00	No	26680.00
		250 mm Dia.	8.00	5031.00	No	40248.00
		300 mm Dia.	8.00	5632.00	No	45056.00
		350 mm Dia.	8.00	7427.00	No	59416.00
		400mm Dia.	8.00	9694.00	No	77552.00
		450mm Dia.	8.00	11380.00	No	91040.00

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**NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET**



No	SSR No.	Description	Qty	Rate	Per	Amount
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 statutory duties and taxes such as GST levied by Gol and GoM in all respect. MJP DSR Page No. 143 Sr.No. 2				
		SECTION-I(XIII) MECHANICLA JOINTS / FITTING (161)				
		80 mm Dia.	8.00	826.00	No	6608.00
		100 mm Dia.	8.00	886.00	No	7088.00
		125 mm Dia.	8.00	1181.00	No	9448.00
		150 mm Dia.	8.00	1593.00	No	12744.00
		200 mm Dia.	8.00	1818.00	No	14544.00
		250 mm Dia.	8.00	2914.00	No	23312.00
		300 mm Dia.	8.00	3729.00	No	29832.00
		350 mm Dia.	8.00	4597.00	No	36776.00
		400 mm Dia.	8.00	7154.00	No	57232.00
		450 mm Dia.	8.00	8033.00	No	64264.00
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)				
			35.00	93.45	Bhp/hr	3270.75
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 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)				
		SECTION-I(I) C.I./D.I. PIPES (70)				
		D/F of all diameters	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.	8.00	331.80	Joint	2654.40
		100 mm Dia.	8.00	571.20	Joint	4569.60
		150 mm Dia.	8.00	1146.60	Joint	9172.80
		200 mm Dia.	8.00	1188.60	Joint	9508.80
		250 mm Dia.	8.00	1703.10	Joint	13624.80
		300 mm Dia.	8.00	1769.25	Joint	14154.00
		450 mm Dia.	8.00	3508.05	Joint	28064.40
		600 mm Dia.	8.00	3898.65	Joint	31189.20
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. 57 Sr.No.				
		SECTION-I(I)C.I./D.I.PIPES (71)				
		80 mm Dia.	8.00	265.44	Joint	2123.52
		100 mm Dia.	8.00	456.96	Joint	3655.68

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F. C. Rodrigues
DESIGNATED PARTNER

**NASHIK MUNICIPAL CORPORATION
ABSTRACT SHEET**



No	SSR No.	Description	Qty	Rate	Per	Amount
		150 mm Dia.	8.00	917.28	Joint	7338.24
		200 mm Dia.	8.00	950.88	Joint	7607.04
		300 mm Dia.	8.00	1415.40	Joint	11323.20
		450 mm Dia.	8.00	2806.44	Joint	22451.52
		600 mm Dia.	8.00	3118.92	Joint	24951.36
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.	2.00	52.50	No.	105.00
		100 mm Dia.	2.00	60.90	No.	121.80
		150 mm Dia.	2.00	94.50	No.	189.00
		200 mm Dia.	2.00	118.65	No.	237.30
		300 mm Dia.	2.00	202.65	No.	405.30
		450 mm Dia.	2.00	306.60	No.	613.20
		600 mm Dia.	2.00	447.30	No.	894.60
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	15.00	61.95	Rmt	929.25
		100mm	10.00	75.60	Rmt	756.00
		150mm	10.00	100.80	Rmt	1008.00
		200mm	8.00	133.35	Rmt	1066.80
		300mm	8.00	189.02	Rmt	1512.16
		450mm	8.00	283.50	Rmt	2268.00
		600mm	8.00	429.45	Rmt	3435.60
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.	5.00	105.00	Rmt	525.00
		20mm Dia.	5.00	135.00	Rmt	675.00
		25 mm Dia.	5.00	206.00	Rmt	1030.00
		40 mm Dia.	5.00	299.00	Rmt	1495.00
		50 mm Dia.	5.00	413.00	Rmt	2065.00
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)				
		2.00	1484.70	Rmt		2969.40
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	2.00	156.45	Rmt	312.90
		10 to 14mm thickness	2.00	200.55	Rmt	401.10

DESIGN PARTNER

[illegible]

F. C. RODRIGUEZ, L.P.

DESIGN Contractor

Executive Engineer
PWD Panchavati, NMC Nashik.

NASHIK MUNICIPAL CORPORATION MESURMENT SHEET

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Sr	Item	no	Length	Breadth	Depth	Quantity	Total
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- 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 & IS: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	8				8.00	Rmt
ii) 150 mm Dia.	1	8				8.00	Rmt
iii) 200 mm Dia.	1	8				8.00	Rmt
iv) 250 mm Dia.	1	8				8.00	Rmt
v) 300 mm Dia.	1	8				8.00	Rmt
vi) 350 mm Dia.	1	8				8.00	Rmt
vii) 400 mm Dia.	1	8				8.00	Rmt
viii) 450 mm Dia.	1	8				8.00	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	200				200	kg
Above 350 mm upto 600 mm dia.	1	200				200	kg
						400.00	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 Tailpiece 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 statutory duties and taxes such as GST levied by GoI and GoM in all respect, loading, transportation and unloading at departmental store etc. complete as directed. Consignee but exclusive of octroi. MJP DSR Page No. 143 Sr.No. 1

SECTION-I(XIII) MECHANICAL JOINTS/ FITTING

80 mm Dia.	8					8	No
100 mm Dia.	8					8	No
125 mm Dia.	8					8	No
150 mm Dia.	8					8	No
200 mm Dia.	8					8	No
250 mm Dia.	8					8	No
300 mm Dia.	8					8	No
350 mm Dia.	8					8	No
400mm Dia.	8					8	No
450mm Dia.	8					8	No

F. C. RODRIGUES LLP

DESIGNATED PARTNER

NASHIK MUNICIPAL CORPORATION
MESURMENT SHEET

Sr	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 statutory duties and taxes such as GST levied by Gol and GoM in all respect, MJP DSR Page No. 143 Sr.No. 2						
	SECTION-I(XIII) MECHANICLA JOINTS / FITTING (161)						
	80 mm Dia.	8				8.00	No
	100 mm Dia.	8				8.00	No
	125 mm Dia.	8				8.00	No
	150 mm Dia.	8				8.00	No
	200 mm Dia.	8				8.00	No
	250 mm Dia.	8				8.00	No
	300 mm Dia.	8				8.00	No
	350 mm Dia.	8				8.00	No
	400 mm Dia.	8				8.00	No
	450 mm Dia.	8				8.00	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						
	SECTION-EXCAVATION (40)						
		1	5	7		35.00	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 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)						
	SECTION-I(I) C.I./D.I. PIPES (70)						
	D/F of all diameters	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.	8				8.00	Joint
	100 mm Dia.	8				8.00	Joint
	150 mm Dia.	8				8.00	Joint
	200 mm Dia.	8				8.00	Joint
	250 mm Dia.	8				8.00	Joint
	300 mm Dia.	8				8.00	Joint
	450 mm Dia.	8				8.00	Joint
	600 mm Dia.	8				8.00	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)						

F. C. RODRIGUES LLP

CP Rodrigues
DESIGNATED PARTNER

NASHIK MUNICIPAL CORPORATION
MESURMENT SHEET

Sr	Item	no	Length	Breadth	Depth	Quantity	Total
	80 mm Dia.	8				8.00	Joint
	100 mm Dia.	8				8.00	Joint
	150 mm Dia.	8				8.00	Joint
	200 mm Dia.	8				8.00	Joint
	300 mm Dia.	8				8.00	Joint
	450 mm Dia.	8				8.00	Joint
	600 mm Dia.	8				8.00	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.	2	2.00	No.
100 mm Dia.	2	2.00	No.
150 mm Dia.	2	2.00	No.
200 mm Dia.	2	2.00	No.
300 mm Dia.	2	2.00	No.
450 mm Dia.	2	2.00	No.
600 mm Dia.	2	2.00	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	8	15.00	Rmt
100mm	8	10.00	Rmt
150mm	8	10.00	Rmt
200mm	8	8.00	Rmt
300mm	8	8.00	Rmt
450mm	8	8.00	Rmt
600mm	8	8.00	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.	5	5.00	Rmt
20mm Dia.	5	5.00	Rmt
25 mm Dia.	5	5.00	Rmt
40 mm Dia.	5	5.00	Rmt
50 mm Dia.	5	5.00	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

DESIGNER
R. S. RODRIGUES LLP
PARTNER

NASHIK MUNICIPAL CORPORATION
MESURMENT SHEET

Sr	Item	no	Length	Breadth	Depth	Quantity	Total
	SECTION-I(XVI) M. S. PIPE LAYING (186)						
		2				2.00	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	2				2.00	Rmt
	10 to 14mm thickness	2				2.00	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 Proportion Valve Chamber with Precast steel fibre reinforced concrete (S.F.R.C.) frame & covers. MJP DSR Page No. 235 Sr.No. 3						
	90x60x120 cm	5				5.00	No
	increase in depth of 30Cm	5				5.00	30cm depth
	90x90x120 cm	5				5.00	No
	increase in depth of 30Cm	5				5.00	30cm depth
	120x120x120 cm	5				5.00	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	8				8.00	No
	90x60 cm	8				8.00	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.	8				8.00	Rmt
	20mm Dia.	8				8.00	Rmt
	25 mm Dia.	8				8.00	Rmt
	40 mm Dia.	8				8.00	Rmt
	50 mm Dia.	8				8.00	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.	8				8.00	No.
	25 mm Dia.	8				8.00	No.
	50 mm Dia.	8				8.00	No.

F. C. K. RODRIGUES LLP

C. Rodrigues
Contractor
DESIGNATED PARTNER

Executive Engineer
PWD Panchavati, NMC Nashik.

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Quality Control

Sr.No	Item in brief	Estimated		Material	Standard Consumption	Utilised Quantity of Ingredients	Tests	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
		Quantity	Unit							
1	2	3	4	5	6	7	8	10	11	12
1	Providing earthwork Departmental Land.	25.00	Cubic Metre	Earth	1.00000	25.00	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
					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
2	Providing earthwork from Other sources.	1140.00	Cubic Metre	Earth	1.00000	1140.00	SOIL / MURUM Compaction Test (Proctor Density).	1	1955.00	1955.00
					0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	3	2730.00	8190.00
					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
3	Supplying Hard Murum	2566.00	Cubic Metre		0.0000	0.00	SOIL / MURUM Sieve Analysis test.	7	725.00	5075.00
				Murum	1.0000	2566.00	SOIL / MURUM Liquid limit & plastic Limit test.	7	1230.00	8610.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	7250.00	7250.00

F. C. RODRIGUES LLP

DESIGN PARTNER
F. C. Rodrigues

4	G.S.B. with Gr I close graded Material by Plant Mix Method.	2566.00	Cubic Metre		0.0000	0.00	G S B Mix Design test.	I	17065.00	17065.00
				Cr.Metal	1.2800	3284.48	BASIC TEST OF AGGREGATE. Sieve Analysis test.	7	725.00	5075.00
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	7	1230.00	8610.00
							SOIL / MURUM Compaction Test (Proctor Density).	18	1955.00	35190.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test	I	7250.00	7250.00
							SOIL / MURUM C.B.R. test (Field determination test)	33	2730.00	90090.00
5	W.B.M. with Grading-I.Using Screening Type-A	1914.50	Cubic Metre	Murum	0.08000	153.16	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	3	2730.00	8190.00
				Cr.Metal	0.2700	516.92	BASIC TEST OF AGGREGATE. Sieve Analysis test.	12	725.00	8700.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	6	895.00	5370.00
				Metal	1.2100	2316.55	SOIL / MURUM Sieve Analysis test.	1	725.00	725.00
							SOIL / MURUM Liquid limit & plastic Limit test	4	1230.00	4920.00

6	W B M with Screening Type-B.	Grading-II Using	1245.75	Cubic Metre	Murum	0.08000	99.66	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	2	2730.00	5460.00
					Cr. Metal	0.2400	298.98	BASIC TEST OF AGGREGATE. Sieve Analysis test.	8	725.00	5800.00
						0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	4	895.00	3580.00
					Metal	1.2100	1507.36	SOIL / MURUM Sieve Analysis test.	1	725.00	725.00
								SOIL / MURUM Liquid limit & plastic Limit test.	2	1230.00	2460.00
7	Wet Mix Macadam		25.00	Cubic Metre		0.0000	0.00	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
					Cr. Metal	1.2100	30.25	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
						0.0000		Wet Mix Macadam Mix Design test.	1	17065.00	17065.00
								SOIL / MURUM Liquid limit & plastic Limit test.	1	1230.00	1230.00
								SOIL / MURUM C.B.R. test (Field determination test)	1	2730.00	2730.00

F. C. RODRIGUES LLP

DESIGN PARTNER

8	Providing and laying plain cement concrete Mix-15 grade leveling course below approach slab complete as per drawing and Technical specification, with fully automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible drum type mixer/ concrete batch mix plant (pan mixer) as per drawings and Technical specifications etc. complete (VSI sand finely washed	1894.50	Cubic Metre	Cement	0.33000	625.19	CONCRETE Compressive Strength Of Cement Concrete Cube (Set of 3 cubes) test.	41	725.00	29725.00
				Sand	0.4500	852.53	BASIC TEST OF AGGREGATE. Sieve Analysis test.	9	725.00	6525.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	9	895.00	8055.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	1	1450.00	1450.00
							BASIC TEST OF CEMENT Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	5	3960.00	19800.00
9	Dry Lean Cement Concrete	1499.72	Cubic Metre	Cement	0.22000	329.94	CONCRETE Compressive Strength Of Cement Concrete Cube (Set of 3 cubes) test.	33	725.00	23925.00
				Sand	0.4700	704.87	BASIC TEST OF AGGREGATE. Sieve Analysis test.	8	725.00	5800.00
					0.0000		BASIC TEST OF AGGREGATE Flakiness Index/ Elongation Index test.	8	895.00	7160.00

10	M-20 for R.C.C. beams and lintels with natural/ V.S.I. sand	31.05	Cubic Metre	Cement	0.35000	10.87	FINE AGGREGATES, Fineness Modulus (Sieve Analysis), Silt & Clay Content test	1	1450.00	1450.00
							CONCRETE Compressive Strength Of Cement Concrete Cube (Set of 3 cubes) test.	4	725.00	2900.00
				Sand	0.4250	13.20	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
11	TMT FE-500 bar reinforcement for R.C.C.	1.00	Metric Tonne	Steel	1.00000	1.00	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1	1340.00	1340.00
					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).	1	1675.00	1675.00

F. C. RODRIGUES LLP

F. C. Rodrigues
DESIGNATED PARTNER

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 millimetre at bottom and 40 millimetre at top with depth of 75 millimetre and maintaining the same throughout curing period/ by any other method	2270.27	Cubic Metre	Cement	0.42500	964.86	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	48	725.00	34800.00
				Cr. Metal	0.8500	1929.73	Concrete Mix Design (With all Tests on basic materials)	5	14445.00	72225.00
				Sand	0.4000	908.11	BASIC TEST OF AGGREGATE, Sieve Analysis test.	10	725.00	7250.00
					0.0000		BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	10	895.00	8950.00
							FINE AGGREGATES, Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	1	1450.00	1450.00
							CONCRETE, Flexural strength of Beam test.	32	780.00	24960.00
13	Providing and fixing 12 mm dia HYSD tie bars.	1938.33	Number		0.0000	0.00	STEEL BAR TESTING: Upto 16 mm (Set of 3 Bars)	1	1340.00	1340.00

14	Coloured Paving Blocks 60 mm thick.	9472.50	Square Metre		0.0000	0.00	CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test. (Set of 8 Blocks)	13	2620.00	34060.00
15	Providing and fixing heavy duty interlocking concrete Coloured paving blocks of 80 millimetre 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 millimetre thick including skirting joints and cleaning etc. complete	3157.50	Square Metre		0.0000	0.00	CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test. (Set of 8 Blocks)	5	2620.00	13100.00
16	75 mm M.P.M. on W.B.M. with 70% Hand Broken Metal.	50.00	Square Metre	Bitumen	0.00200	0.10	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
				Cr. Metal	0.0450	2.25	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
				Metal	0.0630	3.15	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
							BASIC TEST OF AGGREGATE. Stripping Value test.	1	780.00	780.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							BITUMEN Viscosity test.	1	2005.00	2005.00
17	75 mm M.P.M. on B.T. with 70% Hand Broken Metal.	15081.00	Square Metre	Bitumen	0.00230	34.69	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
				Cr. Metal	0.0450	678.65	BASIC TEST OF AGGREGATE. Sieve Analysis test.	17	725.00	12325.00
				F.C. RODRIGUES I.P.						

				Metal	0.0630	950.10	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	9	895.00	8055.00
							BASIC TEST OF AGGREGATE, Stripping Value test.	1	780.00	780.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	4	3290.00	13160.00
							BITUMEN Viscosity test.	4	2005.00	8020.00
18	Tack Coat using Bitumen VG-30 at 2.50 Kg/10 Sq.m	30162.00	Square Metre	Bitumen	0.00025	7.54	BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							BITUMEN Viscosity test.	1	2005.00	2005.00
19	B.M. Gr-I with Batch Mix SCADA with 3.3% Bitumen VG-30.	50.00	Cubic Metre	Bitumen	0.07260	3.63	B.M.Job Mix Design with all Tests on aggregate (Excluding bitumen).	1	7865.00	7865.00
				Cr.Metal	1.4100	70.50	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
					0.0000		BASIC TEST OF AGGREGATE. Stripping Value test.	1	780.00	780.00
				Bituminous Mix	1.4100	70.50	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
							Density test of Bituminous Core.	2	665.00	1330.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							BITUMEN Viscosity test.	1	2005.00	2005.00
							BITUMEN Extraction Test.	2	1675.00	3350.00
							BASIC TEST OF AGGREGATE, Sieve Analysis test.	2	725.00	1450.00

20	B.M. Gr-I 3.3% PLC Drum Mix SCADA, VTS. Sensor Paver with VG 30.	50.00	Cubic Metre	Bitumen	0.07260	3.63	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
				Bitumen	0.07260	3.63	B.M Job Mix Design with all Tests on aggregate (Excluding bitumen).	1	7865.00	7865.00
				Cr.Metal	1.4100	70.50	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	895.00	895.00
					0.0000		BASIC TEST OF AGGREGATE. Stripping Value test.	1	780.00	780.00
				Bituminous Mix	1.4100	70.50	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	2730.00	2730.00
							Density test of Bituminous Core.	2	665.00	1330.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	3290.00	3290.00
							BITUMEN Viscosity test.	1	2005.00	2005.00
							BITUMEN Extraction Test.	2	1675.00	3350.00
							BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	725.00	1450.00
							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
21	D.B.M. Gr-1 SCADA Batch Mix with VG-30 and Stone Dust Filler.	904.86	Cubic Metre	Bitumen	0.10350	93.65	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	4	2730.00	10920.00
				Cr.Metal	1.5280	1382.63	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	4	895.00	3580.00

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					0.0000		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
							Density test of Bituminous Core.	26	665.00	17290.00
							Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/BC/SMA.	1	17065.00	17065.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	10	3290.00	32900.00
							BITUMEN Viscosity test.	10	2005.00	20050.00
							BITUMEN Extraction Test.	5	1675.00	8375.00
							Marshall Stability & Flow measurement test. (Set of 3 moulds)	5	1170.00	5850.00
22	B.C. Gr-1 Drum Mix SCADA, VTS, Sensor Paverwith 5.4% VG 30.	603.24	Cubic Metre	Bitumen	0.12960	78.18	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	3	2730.00	8190.00

					Cr Metal	1 5720	948 29	BASIC TEST OF AGGREGATE. Flakiness Index- Elongation Index test	3	895 00	2685 00
						0.0000		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
								Density test of Bituminous Core.	18	665 00	11970 00
								Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/BC/SMA.	1	17065 00	17065 00
								BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	8	3290 00	26320 00
								BITUMEN Viscosity test.	8	2005 00	16040 00
								BITUMEN Extraction Test	4	1675 00	6700 00
								Marshall Stability & Flow measurement test. (Set of 3 moulds).	4	1170 00	4680 00
23	Road Marking with Hot Applied Thermoplastic Compound.	4153.60	Square Metre	0.0000	0.0000	0.00		PAINT / THERMO-PLASTIC PAINT Glass bead contents & grading analysis Test.	1	4070 00	4070 00
				0.0000	0.0000	0.00		PAINT / THERMO-PLASTIC PAINT Reflectance & yellowness index Test.	1	1170 00	1170 00
				0.0000	0.0000			PAINT / THERMO-PLASTIC PAINT Flowability (Percentage residue) Test.	1	1170 00	1170 00
				0.0000	0.0000			PAINT / THERMO-PLASTIC PAINT Softening Point (Ring & ball method) Test.	1	1060 00	1060 00
								PAINT / THERMO-PLASTIC PAINT Drying Time Test.	1	835 00	835 00
								Total Quality Control Testing Charges			Rs.9,58,210.00

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Chodhary
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Executive Engineer
PWD Panchavati, NMC Nashik.



नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई निविदा कक्ष
ई- निविदा सुचना क्र. ६०(सन २०२५-२६) फेर निविदा

नाशिक महानगरपालिका, नाशिक मध्यवर्ती ई निविदा कक्ष (सार्वजनिक बांधकाम विभाग) १ (एक) कामांची ई-निविदा सुचना क्रमांक.६०(सन २०२५-२६) दिनांक ०८/०१/२०२६ पासून दिनांक १६/०१/२०२६ रोजी दुपारी ३.०० वाजेपावेतो मा.शासनाचे www.mahatenders.gov.in या संकेतस्थळावर दिसेल. निविदा स्विकृतीची अंतिम दिनांक १६/०१/२०२६ राहिल.

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

Sd/-

कार्यकारी अभियंता
ई- निविदा कक्ष प्रमुख
नाशिक महानगरपालिका, नाशिक



Nashik Municipal Corporation, Nashik
E-Tender Cell Department
E-Tender Notice No.60 (2025-26) (Retender)

Nashik Municipal Corporation, Nashik (Public Works Department) vide E-Tender Notice No.60 (Year 2025-26) invites bids for for 1 (ONE)) number of works. which will be displayed on the website www.mahatenders.gov.in. from dt. 08/01/2026 to 16/01/2026 up to 3.00 pm Last date for acceptance of tender will be dt. 16/01/2026.

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

Sd/-

Executive Engineer (Tender Cell)
Nashik Municipal Corporation.

F. C. RODRIGUES LLP


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नाशिक महानगरपालिका, नाशिक
मध्यवर्ती ई-निविदा कक्ष
फेर निविदा ई-निविदा सुचना क्र. ६० (सन २०२५-२६)

महानगरपालिकेच्या खालील नमुद केलेल्या सार्वजनिक बांधकाम विभाग विभागाकडील कामांकरीता 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	अमृत मिरवणुक मार्ग (येण्याचा व परतीचा) मार्ग विकसित करणे. (कॉक्रीट + डांबरीकरण)	२५.००
अ.क्र. १ चे कामांसाठी र.रु.३६३१ इतकी निविदा फॉर्म फी राहिल.		

अटीशर्ती-

- १) सविस्तर निविदा नोटीस मा. राज्य शासनाचे संकेत स्थळ (Website) www.mahatenders.gov.in वर प्रसिध्द केली आहे त्याचे प्रथम अवलोकन करावे.
- २) सदर कामासाठी ऑनलाईन निविदा संच विक्री दि.०८/०१/२०२६ ते दि. १६/०१/२०२६ या कालावधी मध्ये केली जाईल.
- ३) अ.क्र. १ चे कामासाठी निविदापुर्व बैठक दिनांक.१२/०१/२०२६ रोजी दुपारी ४.०० वाजता ऑनलाईन पध्दतीने राहिल.
- ४) सदर कामासाठी ऑनलाईन सादरी करणाची अंतिम मुदत दि.१६/०१/२०२६ रोजी दु.३.०० वाजे पर्यंत राहिल.
- ५) सदर कामासाठी ऑनलाईन सादर केलेल्या निविदा दि.१७/०१/२०२६ रोजी दु.३.०० वाजे नंतर शक्य झाल्यास कार्यकारी अभियंता (टेडर सेल) यांचे समक्ष उघडण्यात येतील.
- ६) कोणतेही कारण न देता निविदा स्विकारणे अथवा नाकारणे याबाबतचे अंतिम अधिकार मा.आयुक्त, नाशिक मनपा यांचे राहतील.

Sd/-

कार्यकारी अभियंता
ई-निविदा कक्ष प्रमुख
नाशिक महानगरपालिका, नाशिक



NASHIK MUNICIPAL CORPORATION

Tender Notice No. 60/01 (2025-26) (Retender)

**Tender Document for
Development of Amrut Miravanuk Marg (Both directions),
Nashik**

January 2026

CITY ENGINEER EXECUTIVEENGINEER

Public Works DepartmentPublic Works Department

Nashik Municipal CorporationNashik Municipal Corporation

Rajiv Gandhi Bhavan, Sharanpur Road, Nashik - 422 002

Tel no. 0253- 2575631/32, 2317366 / Fax no. 0253- 2573151

F. C. RODRIGUES LLP


DESIGNATED PARTNER



Nashik Municipal Corporation

Disclaimer

This tender document **Development of Amrut Miravanuk Marg (Both directions), Nashik** 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 document 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 RFP is to provide interested parties with information that may be useful to them in making their Financial Bids pursuant to this RFP. While all efforts have been made to ensure the accuracy of information contained in this RFP 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 RFP Document. The Client reserves the right to change any or all conditions/ information set in this RFP 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 RFP Document.

Information provided in this RFP 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.

F. C. RODRIGUES LLP

F. C. Rodrigues
DESIGNATED PARTNER

Signature of Contractor2

Executive Engineer, Nashik Municipal Corporation



Nashik Municipal Corporation

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F. C. RODRIGUES LLP

F. C. Rodrigues
DESIGNATED PARTNER

Signature of Contractor3 Executive Engineer, Nashik Municipal Corporation



Nashik Municipal Corporation

1 Detailed Tender Notice

DETAILED E- TENDER NOTICE No.60/01 (2025-26) (Retender)

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.	Development of Amrut Miravanuk Marg (Both directions), Nashik	24,99,95,421/-	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 12/01/2026 at 4.00 pm in online mode only. Google Meet link: https://meet.google.com/oco-mhsa-kwr All the bidders shall submit their queries if any before 4.00 pm on 12/01/2026 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 12/01/2026 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. 09/01/2026 to 16/01/2026 upto 5.00 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.

Signature of Contractor4 Executive Engineer, Nashik Municipal Corporation

F. C. RODRIGUES LLP

DESIGNATED PARTNER



Nashik Municipal Corporation

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 16/01/2026 upto 3.00 PM
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 (संकीर्ण२०२२/प्र.क्र.१२३/२२/कोष-प्रशा५दिनांक१६जाने२०२५)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.

F. C. RODRIGUES
DESIGNER & PARTNER

Signature of Contractor5 Executive Engineer, Nashik Municipal Corporation



Nashik Municipal Corporation

		(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 Government 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 NMC 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 asphalt work is Thirty-six (36) Calendar months from the date of completion of the work. Defect liability period for the concrete work is sixty (60) Calendar months from the date of completion of the work.
9)	DATE OF OPENING OF: - TENDER	The received online bids will be opened on 17/01/2026 at 3:00 PM (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.

Signature of Contractor6 Executive Engineer, Nashik Municipal Corporation

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F. C. Rodrigues
DESIGNATED PARTNER



Nashik Municipal Corporation

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.

Notes:

- a) The tender condition for security deposit mentioned at Sr. No. 7 of Detailed tender notice as above will take precedence over all the conditions mentioned anywhere in the tender document for Security Deposit.

1.1 Eligibility criteria

The tenderer/bidder must have eligibility in term of work experience as follows:-

A) Experience Criteria for Asphalt and PQC Concrete Road Works

The bidder must have Experience of having successfully completed similar works during the last five (5) years, ending on the last day of the month previous to the one in which bids are invited. The bidder shall meet any one of the following conditions for each category of work (Asphalt and Concrete):

Total Estimated Cost of civil road Works: ₹21.70 Cr

Estimated Cost of Asphalt Road Works: ₹4.06Cr

Estimated Cost of Concrete and allied Works: ₹17.64 Cr

Three (3) similar completed works costing not less than 40% of the estimated cost of Asphalt Road Works (for asphalt category) and 40% of the estimated cost of Concrete Road Works (for concrete category),

OR

Two (2) similar completed works costing not less than 50% of the estimated cost of Asphalt Road Works (for asphalt category) and 50% of the estimated cost of Concrete Road Works (for concrete category),

OR

One (1) similar completed work costing not less than 80% of the estimated cost of Asphalt Road Works (for asphalt category) and 80% of the estimated cost of Concrete Road Works (for concrete category).

Definition of "Similar Works"

Asphalt Works: Construction of WBM/GSB/WMM layers and Bituminous/Asphalt roads with allied works.

Signature of Contractor7 Executive Engineer, Nashik Municipal Corporation

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[Signature]
DESIGNATED PARTNER



AND

Concrete Works: Construction of Rigid Pavement/Cement Concrete roads with allied works.

Notes:

The qualifying works for asphalt and concrete may be derived from separate contracts/projects and need not be part of a single contract, provided the bidder meets the prescribed value thresholds individually for each category.

The bidder shall furnish separate work completion certificates clearly establishing compliance with the above requirements for Asphalt Works and Concrete Works.

Only those works for which completion certificates have been issued by the competent authority shall be considered for works.

Clarification on Evaluation Method:

To avoid ambiguity in evaluation and ensure uniform assessment, the following conditions shall apply:

1. Only fully completed works shall be considered

Works that are in progress, partially completed, or issued only Part/Stage completion certificates shall not be considered for eligibility.

2. The work must be completed within the last five years

The actual date of completion (as per completion certificate issued by the competent authority) must fall within the last five years.

Works started earlier (before five years) but fully completed within the last five years shall be considered, but only the value of work completed within the last five years will be counted.

3. Consideration of Work Value

The value of work shall be taken as the value of the completed portion within the last five years only.

B) Satisfactorily executed the following minimum quantities of respective items in any ONE Single financial year within the immediate last seven (7) financial years preceding the date of invitation of bids:

1)	WBM+GSB+WMM	30% Qty. of Schedule ' B'
2)	BM + DBM	30% Qty. of Schedule ' B'
3)	BC/AC	30% Qty. of Schedule ' B'
4)	DLC/PCC M-10/ M-15 grade Cement Concrete for road	30% Qty. of Schedule ' B'
5)	PQC M-35/ M-40 grade Cement Concrete for road	30% Qty. of Schedule ' B'

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8 Executive Engineer, Nashik Municipal Corporation

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DESIGNATED PARTNER



- C) 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.

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)

a) 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 - a) i. 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 enabled, operational anywhere in India, is eligible for bidding. AND ii. At the time of bidding, the tenderer/bidder must own and operate a fully automatic, microprocessor-based, programmable logic control (PLC) with SCADA - enabled Concrete Batch Mix Plant (stationary or mobile) of a standard company having a minimum capacity of 60 Cu.m. per hour, located anywhere in India. Only such bidders shall be eligible for participation. b) i. 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	01	Owned

Signature of Contractor

9 Executive Engineer, Nashik Municipal Corporation

F.C. RODRIGUES LLP

F.C. Rodrigues
DESIGNATED PARTNER



	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, 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. AND ii. 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 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.		
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Signature of Contractor

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Executive Engineer, Nashik Municipal Corporation

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	c) 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 50 days after issue of LOA. d) In the event of failure to produce either the Distance Certificate or the Plant Verification Certificate meeting the required capacity and standards 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.		
2	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. AND	01	Owned

Signature of Contractor

11 Executive Engineer, Nashik Municipal Corporation

F. C. RODRIGUES LI
F. C. Rodrigues
DESIGNATED PARTN



	Hydraulic Concrete Paver : Hydraulic Concrete Paver: The slip form paver shall conforming 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.		
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
8	Concrete Transit Mixer (with SCADA): The Transit Mixer shall be truck-mounted, with a minimum capacity of 6 m³, 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.	07	05 Owned + 02 hired
11	JCB/Poclaim/Excavator	01	Owned/Hired

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- i) 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, transit mixer with SCADA.
- ii) Certificate from PWD authority regarding fitness and location of Asphalt plant and concrete batch mix plant as per the terms mentioned at sr.no.1 above.
- iii) All the uploaded scanned copies of the necessary certificates shall be readable. Non readable uploaded scanned copies shall not be considered.
- iv) 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.

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.

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1.3 Financial Turnover and Bid Capacity

A) Financial Turnover

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 related to similar types of work and financial turnover 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) 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

- Bidders shall furnish bid capacity calculations with supporting documents duly certified by a Chartered Accountant.
- An Online Bid Capacity Certificate shall be uploaded as per prevailing Government guidelines.
- 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.
- 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

- Submission of false, fabricated, or misleading information shall lead to immediate rejection and blacklisting as per Government norms.
- Even if a bidder meets the above criteria, they are liable to disqualification in case of:
- Misrepresentation of facts or fraudulent submissions,

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- Record of poor performance (abandonment, failure to complete, delays, unsatisfactory quality),
- Adverse litigation history or proven financial failure.
- 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.

Note:

- a) Applicants will be required to provide completion certificates/Experience letter as proof of experience.
- b) Extension work orders on an existing project will not be counted as separate projects but may be counted towards the monetary value of the total project.
- c) Evaluations will be based on documentary evidence submitted by the Applicants and presentation before the Client with respect to evaluation/selection criteria.

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C. Rodrigues
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2 Important Conditions of Contract

- 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 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.
- ii. 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.
- iii. 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.
- iv. G.S.T will be paid on contract value as per latest circulars or notification of government.
- v. Payments of the work shall be made subject to availability of fund.
- vi. 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.
- vii. As per rule of Employment Provident fund (EPF) 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.
- viii. 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.)
- ix. 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

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for the contractor to carry out Third Party Technical Audit through an independent agency at their own cost, unless specifically mentioned in schedule-B.

- x. NMC will not bear any expenses other than the cost quoted.
- xi. 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.

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 envelope 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% --- $(15\% - 10\% = 5\%) = 5\% \text{ PSD} = 1 + 5 = 6\%$

3. If the offer is less than 15% then it will be twice the remaining offer

For e.g.

$19 - 15 = 4\%$

$4 \times 2 = 8\%$

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

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bidder with respect to the quoted rates. Submission/Return of PSD Demand Draft / Bank guarantees to be adopted as follow.

- The FDR / Demand draft / Bank guarantee should be in the name of ☐ The Commissioner NMC.
- FDR / Demand Draft / Bank guarantee should exclusively of Nationalized bank / Scheduled bank as per GR (संकीर्ण २०२२/प्र.क्र.१२३/२२/कोष-प्रशाध दिनांक १६ जाने २०२५) as per GR 07/03/2019
- The period of demand draft should be minimum 3 months beyond the date of submission of tender.
- The bidder should submit the original copy of FDR / demand draft / Bank guarantee in the office of City Engineer.
- The Demand draft should inclusive of MICR number & IFSC code of the bank.
- Submission of false/misleading demand drafts / Bank guarantee of any bidder will result in forfeiting of EMD & liable for further action against such bidder.
- 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.
- 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.

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)

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 Simhastha Kumbhamela 2027. The Simhastha 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

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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.

अटी व शर्ती:-

1. संबंधित कार्यान्वयन यंत्रणेला शासनाच्या, संबंधित विभागांच्या आणि इतर सक्षम प्राधिकार्यांच्या (उदा. केंद्रीय सतर्कता आयोग) यांनी घेऊन घेतलेल्या निर्णयित केलेल्या मार्गदर्शक सूचनांचे पालन करावे लागेल.
2. नाशिक ग्रॅव्हिटीयुअर कुंभमेळा प्राधिकरण आणि जिल्हास्तराचे सिंहस्थ कुंभमेळा कार्यकारी समिती, नाशिक यांचे मार्फत घेऊन घेतलेल्या निर्देशांचे पालन संबंधित कार्यान्वयन यंत्रणेला करावे लागेल.
3. नाशिक ग्रॅव्हिटीयुअर कुंभमेळा अधिनियम 2025 मधील सर्व तरतुदी या कामाला लागू राहतील.
4. सदर कामावर नाशिक ग्रॅव्हिटीयुअर कुंभमेळा प्राधिकरणामार्फत निर्देशित केल्यानुसार कामाच्या जागेवर माहिती दर्शविणारा फलक लावावा लागेल.
5. सदर काम किंवा त्याचा कोणताही घटक इतर कोणत्याही योजनेत पाल्य झाले नाही अथवा करण्यात आले नाही याची खात्री कार्यान्वयन यंत्रणेने करावी.
6. सदर काम पूर्ण झाल्यावर त्याचा केवळ सांख्यिकीय वापर होणार असून कोणत्याही स्वरूपाचा खाजगी वापर होणार नाही याची दक्षता कार्यान्वयन यंत्रणेने घ्यावी.

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७. कार्यान्वयन यंत्रणा हो 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 कामाबाबत शासनाने वेळोवेळी निर्गमित केलेल्या निर्देशांचे पालन करावे. तसेच वस्तुचो अथवा इतर बाबींची खरेदी शासनाच्या (GeM) पोर्टलवरून अथवा शासनाच्या इतर मार्गदर्शक सूचनांनुसारच करावी.
९. मंजूर अनुदानापेक्षा (प्रशासकीय मान्यता रकमेपेक्षा) जास्त खर्च करता येणार नाही. तसेच कामाचे भाग पाडून काम करणा 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 सूटणार नाही अशाप्रकारे दिनांक नमूद करून किडिओ शूटिंग करावे आणि जियो स्टॅम्प आणि जियो टॅग फोटो काढावेत. त्याचप्रमाणे प्रत्येक कामाचे जास्तीत जास्त एक महिना किंवा त्यापेक्षा कमी या कालावधीमध्ये अशा प्रकारचे किडिओ आणि फोटो पुन्हा काढावेत हे सर्व जतन करून ठेवावेत जेणेकरून याला भविष्यात योग्य त्या संकेतस्थळावर जाहीरित्या प्रदर्शित करता येईल.
१२. नियोजन विभागाच्या दिनांक 09 जून 2025 रोजीच्या शासन निर्णयानुसार प्रत्येक पायाभूत विकास प्रकल्पासाठी युनिक पायाभूत सुविधा आयडी पोर्टल (Infra ID Portal) कार्यान्वित करणे बाबत दिलेल्या सूचनांचे कार्यान्वयन यंत्रणेने पालन करावे व त्यानुसार कार्यवाही करावी.
१३. प्रकल्प व्यवस्थापनाच्या दृष्टीने वेळोवेळी दिलेल्या निर्देशानुसार आवश्यक ती माहिती नाशिक ग्रंथकेश्वर कुंभमेळा प्राधिकरणाला सादर करावी.
१४. मंजूर करण्यात येत असलेल्या यरील कामांचो भविष्यातील देखभाल दुरुस्तीचा खर्च कार्यान्वयन यंत्रणेने स्वतःच्या निधीतून करावा अथवा इतरांतरण करून घेणाऱ्या यंत्रणेने करावे.
१५. सदर कामांचा कोणत्याही उपांगांचे काम इतर कोणत्याही शीर्ष अथवा योजनेतून प्रस्तावित नाही आणि/ किंवा झाले नाही याची खात्री कार्यान्वयन यंत्रणेने काम सुरु करण्यापूर्वी करावी.
१६. सदर कामांचो सक्षम प्राधिकाऱ्याकडून तांत्रिक मान्यता घेणे बंधनकारक आहे.
१७. सदर कामाचे पर्यवेक्षण आणि नियंत्रण संबंधित कार्यान्वयन यंत्रणेने करावे.
१८. सदर कामाच्या दर्जा/ गुणवत्ता आणि वेग तपासण्यासाठी, त्याचप्रमाणे कार्यान्वयन यंत्रणेच्या कामकाजाचे मूल्यमापन करण्यासाठी त्रयस्थ यंत्रणांमार्फत/ यंत्रणांना वेळोवेळी तपासणी आणि मूल्यमापन करण्यात येईल. यासाठीचा येणारा खर्च या कामाच्या अंदाजपत्रकीय रकमेतून नाशिक ग्रंथकेश्वर कुंभमेळा प्राधिकरणामार्फत थेट संबंधित यंत्रणांना अदा केला जाईल.
१९. बार्ड पार्टी इन्स्पेक्शन घडल आवश्यक ती तरतुद 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 दंडात्मक (penalty) च्या तरतुदी अधिक कठोर करायचे असल्यास तशी मुभा संबंधित विभागाला राहिल.
२१. कामे हाती घेताना शासनाच्या संबंधित विभागाच्या / कार्यालयांच्या मार्गदर्शक सूचना विचारात घ्याव्यात (उदा. अग्नीशमन 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 वेळेवर

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.

Signature of Contractor

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[Signature]
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Nashik Municipal Corporation

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, streetlight, substation, etc in single work not less than the amount 50 Lakhs. The certificate is 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.
9)	The Contractor shall co-ordinate with MSEDCL Officials for shutdowns & 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 onsite 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

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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	MSDCL APPROVED
15.	TRANSFORMER	MSDCL 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
22.	OCTAGONAL POLE	BAJAJ / VALMONT /CROMPTON/ VAKRANGEE

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.

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(Signature)
DESIGNATED PARTNER

Signature of Contractor

22 Executive Engineer, Nashik Municipal Corporation



3 Method of Submission

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

3.1.1 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

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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 A) TECHNICAL BID (Envelop no. 1)

Technical bid will be submitted online and one hard copy in envelop no. 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.

- i) 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.
- ii) 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 B) 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.

F. C. RODRIGUES LLP

F. C. Rodrigues
DESIGNATED PARTNER

Signature of Contractor

24 Executive Engineer, Nashik Municipal Corporation

Sd/-xxx

Executive Engineer,

Public Works Department

Nashik Municipal Corporation, Nashik



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

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

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:

- a. 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.
- b. 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.
- c. Notice of tender and these instructions shall form part of the contract.
- d. 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.
- e. 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:

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.

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

Signature of Contractor

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F. C. RODRIGUES' LP

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DESIGNATED
ER



Nashik Municipal Corporation

entire project. NMC may also appoint proof consultant, if required, for expert advice on specifications and quality control etc. connected with the project.

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.

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5 General Conditions of Contract (GCC)

5.1 Additional Instructions to Persons Tendering

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

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. The rates shall also cover all contingencies, including night work and work during rains, whenever required. No claim for additional payment beyond the quoted rates shall be entertained under any circumstances. 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). The failure of the Tenderer to

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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

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.

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 initialed by the Tenderer.

5.5 Acceptance

The intimation of acceptance of the tender shall be communicated by a letter of acceptance.

5.6 Form B1

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 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.

Signature of Contractor

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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 initialed.
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.

Signature of Contractor

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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* ()

* In figures as well as in words.

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.

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.

- If several sub works are included they should be detailed in a separate list.
- 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.
- 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.

Signature of Contractor

F. C. RODRIGUES LLP

[Signature]
REGISTAR PARTNER

30 Executive Engineer, Nashik Municipal Corporation



Nashik Municipal Corporation

- 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 % to 10 % according to the requirement of the case where security deposit is taken. see note Clause 1 of the Conditions of contract.

Give Schedule where necessary showing dates by which the various items are to be completed.

Receipt No. dated from The N.M.C. in respect of the sum Rs.

Contractor : # _____

Amount to be specified in words and figures.

Address : _____

Signature of Contractor before submission of tender

Dated : The _____ day of

200

(Witness) : \$ _____

\$ Signature of witness to

Address : _____

Contractor's signature

(Occupation):

Signature of Contractor

31 Executive Engineer, Nashik Municipal Corporation

F. C. RODRIGUES LLP

DESIGNATED PARTNER



Nashik Municipal Corporation

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

Signature of Contractor

F. C. RODRIGUES LLP

DESIGNATED PARTNER

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Executive Engineer, Nashik Municipal Corporation



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

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

(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

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Signature of Contractor

33 Executive Engineer, Nashik Municipal Corporation

DESIGNER & PARTNER
[Signature]



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 department on rectification work.

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 compensation from the date on which the order to commence work is given to the for delay contractor. The work shall through out 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 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.

Signature of Contractor

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34 Executive Engineer, Nashik Municipal Corporation



Action when whole of security deposit is forfeited

Clause – 3 : In any case in which under any clause or clauses of this contract the contractors 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 abandoned of the work owing to serious illness or death of the contractor or any other cause, the Engineer, on behalf of the Government 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 terms 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.

d) 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 particular portions of the work is unsatisfactory

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35 Executive Engineer, Nashik Municipal Corporation

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Clause – 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 – 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, 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.

Extension of time

Clause – 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 – 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

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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.

Clause – 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 – 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 – 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 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

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Clause – 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 – 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 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 – 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 along with 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. 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.

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Rates for works not entered for schedule of rates of the district

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.

Extensions of time in consequence of additions or alterations

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. 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 regard 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 except 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 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

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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.C.

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 :

- i) Difficulties relating to the supply of railway wagons.
- ii) Force majeure.
- iii) Act of God.
- iv) 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 unskilful 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 notwithstanding 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

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reconstruct the work so specified in whole or in part, as the case may required 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

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 him self be present to receive orders & instructions or have a responsible agent duly accredited in writing present for that purpose.

Contractor or responsible agent to be present

Orders given 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 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

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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 from 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

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 original, altered or substituted form and whether included in the specifications or other documents forming part of the contract or referred to 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.

And is liable for damages arising from non- provisions of lights fencing etc

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.

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- (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.
 - (l) 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 persons.
- (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.
- (l) 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.
 - (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 platforms 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)

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(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 : 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) Hoisting 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 means 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 safe guards.

(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

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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 labour employed by him.

Liability of contractor for any damage done in or out side 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

Clause – 24 : The employment of female laborers on works in the neighborhood 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 and attempt to do so or become insolvent or commence any proceeding to get himself adjudicated

Deleted

Contract may be rescinded and security deposit for fetid 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

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F. C. RODRIGUES
DESIGNATED PARTNER



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 this 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 be 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.

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DESIGNATED PARTNER



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 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

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P. C. RODRIGUES

DESTONATED PARTNER



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 any 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.

Clause 38 : (1) 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 15 only when the amount of such reduction beyond 25 % at the rate of the item specified in the

tender is more than Rs. 5000/-.

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(Ref. : 1) Govt. Circular No. संकीर्ण -2004/प्र.क्र. 85 /स्ते -1दि. 11.06.2004 /03.08.2018 2) Govt. Circular No. CAT/2017 / प्र.क्र..8/ ईमा.-२ दि. २२.१०.२०१८.

Employment or famine labour etc

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 compensation 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 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.

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F. C. RODRIGUEZ

DESIGNER PARTNER



(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 the grounds that the wages paid are not fair and reasonable the dispute shall be referred without delay to the Executive Engineer (P) who shall decide the same. The decision of the Executive Engineer (P) 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 be allowed to tender for works. Employment of scarcity labour.

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 alongwith 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 or the price 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 separately. Contractor shall quote his rates excluding GST.

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- 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 out side 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, Dr. B. R. Ambedkar, 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 Filariasis) of Health Services, Pune.

Signature of Contractor

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F. C. RODRIGUES

DESIGNATED PARTNER



Nashik Municipal Corporation

(B.) Contractor shall see that mosquitogenic 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:

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/LabourA 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.

Signature of Contractor

F. C. RODRIGUES LEA

Executive Engineer, Nashik Municipal Corporation

DESIGNATED PARTNER



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 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).

6.4 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.

Signature of Contractor

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F. C. RODRIGUES
DISCHARGED PARTNER



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. Additionally 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 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.

Signature of Contractor **F. C. RODRIGUES** ⁵⁴ Executive Engineer, Nashik Municipal Corporation


DESIGNATED PARTNER



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 work-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.

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.

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.

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.

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DESIGNATED PARTNER



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 implement 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-

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F. C. RODRIGUES LLP


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- 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.
 - 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 of 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

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- 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. Handbook 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

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.

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 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

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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

- a) 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.
- b) 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.
- c) 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.
- d) 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.
- e) 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.

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6.30 Testing of Materials

A) 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 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.

B) Maintenance Manual and Responsibilities – Concrete Roads

The contractor shall prepare and submit a Maintenance Manual detailing the procedure for inspection and maintenance of the concrete road, including:

Periodicity of maintenance works, Inspection methods and checklists, Tools, equipment, and materials to be used, Means of accessibility to all parts of the road, and Specifications for maintenance works in accordance with relevant standards.

Maintenance of concrete roads shall be carried out in accordance with the "Manual for Maintenance of Roads", IRC:SP:83 – Guidelines for Maintenance, Repairs and Rehabilitation of Cement Concrete Pavements, and relevant clauses of MORTH Specifications (Section 600).

The contractor shall be responsible for repairs and rectifications arising directly from deficiencies in construction or non-compliance with specifications during the defect liability period. This includes localized spalling, honeycombing, or surface defects resulting from workmanship or materials period.

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.

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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 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.

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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.

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.

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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 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.

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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 signs 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.

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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 alternative arrangement 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

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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 consultation 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 whenever 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.

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 & 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.

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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

- i. 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.
- ii. 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.
- iii. 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 order. For this, the contractor shall submit an organisation chart of his technical personnel

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to be employed on the work along with 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, check-lists and log books 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 pot holes 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 there 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 extend 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
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	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, 45mm, 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
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.	Nos.		2

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	Cylinder tray with hole & calibration equipment			
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
	for cement and cement concrete			
15	Slump testing apparatus	Nos.		3
16	Needle vibrator 40 mm & 60 mm	Nos.		1
17	Sieve shaker, electrically operated for 20cms & 45 cms sieves.	Nos.		1
18	Concrete cube moulds 150 x 150 x 150	Nos.		18
19	Compression Testing Machine, capacity 2000 KN	No	1	
20	Concrete Beam Moulds 500 x 100 x 100 and 700 x 150 x150	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 Quality Control Department 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

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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

- a) 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.
- b) The samples of cement, steel, bitumen, bituminous mixes, concrete cubes/ beams, 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.
- c) 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.
- d) 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.
- e) 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.
- f) 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

- i) 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.

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ii) 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

i) 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 down in the specification. The cost of cubes and testing charges shall be entirely borne by the contractor.

ii) For controlled concrete work tests shall be taken accordance with relevant code specifications.

iii) 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.

iv) 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.

v) Only fresh potable water duly tested shall be used for concrete works.

vi) 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

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wise specifications. The minimum frequency of sampling of concrete of each grade shall be as per MOST specifications for road & bridge works. The contractor shall make field arrangements for silt content, moisture content, sieve analysis, slump test, density and bulkage testing and also prepare concrete cube/ beam for testing compressive/ flexural strength at his cost. The cubes/ beams shall be got tested at approved laboratory and the test result shall not fall below those prescribed in the relevant codes or as laid down in the specification. The cost of cubes and testing charges shall be entirely borne by the contractor.

vii) For DLC/PCC/PQC controlled concrete work tests shall be taken in accordance with relevant code specifications.

viii) 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.

ix) 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.

x) 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 Quality Control Department 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.

a. MINIMUM CEMENT CONSUMPTION:

Minimum cement consumption per cubic meter of concrete for the different grades of concrete shall be as follows

Grade	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

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b. 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 itemwise specifications. The minimum frequency of sampling of concrete of each grade shall be as per MORT & H specifications for road & bridge works. The contractor shall make field arrangements for silt content, moisture content, sieve analysis, slump test, density and bulkage testing and also prepare concrete cube/ beam for testing compressive/ flexural strength at his cost. The cubes/ beams shall be got tested at approved laboratory and the test result shall not fall below those prescribed in the relevant codes or as laid down in the specification. The cost of cubes and testing charges shall be entirely borne by the contractor.

For DLC/PCC/PQC controlled concrete work tests shall be taken in accordance with relevant code specifications.

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.

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.

Only fresh potable water duly tested shall be used for concrete works.

c. 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, MORT & 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.

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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 sub standard, 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 be 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 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

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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) operating weight 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 carrying vehical (trucks, tippers) with min 10 MT capacity with SCADA enabled.

x) Mechanical broomer, air jet pressure compressure, 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.

CEMENT CONCRETE ROAD WORKS

The contractor shall strictly follow the following conditions while executing Cement Concrete (CC) road works including PCC/ Dry Lean Concrete (DLC) and Pavement Quality Concrete (PQC):

A) Materials

1. All materials including cement, aggregates, admixtures, dowel bars, tie bars, curing compound, sealing compound etc. shall be procured by the contractor at his own cost.
2. Only Ready Mix Concrete (RMC) from an approved batching plant shall be used. The plant must be SCADA enabled with valid calibration certificates.
3. Job Mix Formula for PCC, DLC and PQC shall be submitted to the Engineer-in-Charge and for approval before commencement.
4. Aggregates shall conform to IS:383 and cement to IS:269/1489. Dowel and tie bars shall conform to IS:1786.

B) Method of Construction

i) Sub-base, PCC / DLC (Dry Lean Concrete)

- Preparation of Subgrade/Sub-base: The existing ground shall be prepared, compacted and tested as per MoRTH Section 300.

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- Mix Design: DLC shall be designed as per IS:10262 with cement content not less than as mentioned above. Water-cement ratio shall not exceed 0.75. The use of fly ash, slag, or any pozzolanic material in the DLC mix is strictly prohibited.
- Placing: DLC shall be laid with a paver in one layer of thickness.
- Compaction: Compaction shall be done by vibratory rollers to achieve minimum dry density 97% of MDD.
- Curing: Moist curing shall be carried out for minimum 7 days before placing PQC.

ii) PQC (Pavement Quality Concrete)

- Mix Design: PQC shall be designed for the specified grade of concrete in accordance with IS:10262, IRC:44 and IRC:15 / IRC: SP-62 guidelines. The mix shall be prepared using only Ordinary Portland Cement (OPC) of approved grade. The use of fly ash, ground granulated blast furnace slag (GGBS), or any other pozzolanic/admixture-based replacement of cement is strictly prohibited, unless specifically approved by the Engineer-in-Charge.
- Placing: PQC shall be placed using a paver with electronic sensors. Concrete shall be placed continuously to avoid cold joints.
- Jointing: Dowel bars shall be provided at transverse joints with debonding sleeves.
- Tie bars shall be provided at longitudinal joints.
- Joints shall be cut (groove cutting) within 12–24 hrs using joint cutting machines to the required depth.
- Joints shall be sealed with approved joint sealing compound.
- Finishing: Surface finishing shall be done with longitudinal tinning / brooming to achieve skid resistance.
- Curing: Immediately after finishing, a white pigmented curing compound shall be sprayed uniformly, followed by moist curing.

C) Riding Quality special attention:

- The contractor shall be solely responsible for achieving and maintaining the required riding quality of the cement concrete pavement. Adequate precautions shall be taken during mix design, batching, paving, compaction, joint cutting, curing and finishing so as to ensure a smooth, even and durable surface. The use of paver with electronic sensors shall be mandatory to achieve the specified line, level and surface regularity. Throughout execution, surface finish shall be continuously checked with a 3.0 m straight edge to avoid undulations or roughness perceptible to traffic movement. In the event of unsatisfactory results, the contractor shall, at his own cost, take corrective measures such as grinding, surface treatment, or replacement of defective panels, until the required riding quality is attained.
- If, despite such measures, the riding quality remains below specification, payment for the affected work shall be withheld or made at a reduced rate as determined by the Engineer-in-Charge, and the contractor shall have no claim for compensation. Persistent failure to achieve the required standard shall render the contractor liable for

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demolition and reconstruction of the defective work at his own cost, without any additional time extension or financial liability on the part of the Department.

D) Crack Prevention and Remedies

- The contractor shall be solely responsible for adopting adequate precautions to prevent shrinkage, thermal, or structural cracks in the cement concrete pavement. Preventive measures shall include proper mix design as per IS 10262, uninterrupted concreting, timely groove cutting and joint formation as per IRC:15 and IRC: SP-62, proper sealing of joints, and effective curing in accordance with IS 456.
- In the event that cracks, or surface defects occur, the contractor shall, at his own cost and risk, undertake remedial measures such as epoxy injection, sealing, surface grinding, or any other method as directed by the Engineer-in-Charge. If such cracks or defects are of severity that renders the pavement substandard, the affected panels shall be demolished and reconstructed strictly in accordance with IS and IRC specifications, entirely at the contractor's cost.
- Payment for defective or cracked work shall either be withheld, made at a reduced rate, or fully disallowed as determined by the Engineer-in-Charge, in consultation with the Third-Party Quality Control (TPQC) agency, the Independent Testing Firm (ITF) appointed by the Kumbhmela Pradhikaran, and the Executive Engineer, Quality Control Department, Nashik Municipal Corporation. No claims or compensation shall be entertained for such defects, and the entire liability for performance, serviceability, and durability shall rest solely with the contractor.

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

i) 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.

ii) 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.

iii) 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.

iv) 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.

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v) 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.

vi) 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.

vii) 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.

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7 General Conditions

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.

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 not 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 be 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.

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7.3 Definitions

Definitions: Unless excluded by or repugnant to the context.

- i. The expression **Corporation** as used in the tender papers shall mean the Nashik Municipal Corporation.
- ii. The **Commissioner** means the Commissioner of NMC
- iii. 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.
- iv. 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.
- v. 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.
- vi. 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.
- vii. **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.
- viii. **Engineer's Representative** shall mean an assistant of the Engineer notified in writing to the Contractor by the Engineer.
- ix. **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.
- x. **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.

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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.

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- 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.

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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.

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Nashik Municipal Corporation

- 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 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.
- 8) The basic drawing shows general arrangements and layout for specifications and requirements of item tender paper may be referred to

7.4.1 Statement showing the availability of Machinery for the work

Sr. No.	Name of Machinery	Hire Rate	Remarks
NIL			

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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

F. C. RODRIGUES L.P.

CP Rodrigues

Signature of Contractor

87 Executive Engineer, Nashik Municipal Corporation



8 Annexure

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 are found false / fraudulent during contract period and even after the completion of contract (Finalization of Final bill).

(Signature of Contractor)

(Seal of Company)

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ANNEXURE-II

STATEMENT SHOWING QUANTITIES OF WORK EXECUTED IN ANY ONE YEAR DURING LAST SEVEN YEARS (i.e. 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, 2020-21)

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
		2014-15							
		2015-16							
		2016-17		Sample Form					
		2017-18							
		2018-19							
		2019-20							
		2020-21							

Note - The Contractor must upload supporting documents showing above executed quantities.

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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 contract 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)

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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
F. C. RODRIGUES LLT

Signature of Contractor

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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

F. C. RODRIGUES LLP


DESIGNATED PARTNER



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 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,

Signature of Contractor
F. C. RODRIGUES LL


DESIGNATED PARTNER



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

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Name of Work:

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: _____

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DESIGNATED PARTNER

Signature of Contractor

95 Executive Engineer, Nashik Municipal Corporation



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 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 nor 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

Signature of Contractor

F. C. RODRIGUES LLP
[Signature]
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Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Schedule B- (Part A) Road Works

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
5.44	Kilometre	A1	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.	₹ 6,830.30	Rupees Six Thousand and Eight Hundred and Thirty and Thirty Paise Only	Kilometre	37156.83
2194.00	Cubic Metre	A2	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.	₹ 451.50	Rupees Four Hundred and Fifty-One and Fifty Paise Only	Cubic Metre	990591.00
1994.82	Cubic Metre	A3	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.	₹ 1,454.30	Rupees One Thousand and Four Hundred and Fifty-Four and Thirty Paise Only	Cubic Metre	2901072.72
20.00	Number	A4	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	₹ 389.60	Rupees Three Hundred and Eighty-Nine and Sixty Paise Only	Number	7792.00
20.00	Cubic Metre	A5	Dismantling brick masonry in lime or cement mortar and stacking the materials as directed with all leads, lifts etc.	₹ 351.80	Rupees Three Hundred and Fifty-One and Eighty Paise Only	Cubic Metre	7036.00
20.00	Cubic Metre	A6	Dismantling stone masonry in lime or cement mortar including stacking the materials as directed with all leads, lifts etc.	₹ 399.00	Rupees Three Hundred and Ninety-Nine Only	Cubic Metre	7980.00
20.00	Cubic Metre	A7	Removing lime or lean cement concrete including stacking the spoils as directed with all leads, lifts etc. complete	₹ 585.90	Rupees Five Hundred and Eighty-Five and Ninety Paise Only	Cubic Metre	11718.00
20.00	Cubic Metre	A8	Removing rich mix cement concrete including stacking the spoils as directed with all leads, lifts etc. complete	₹ 976.50	Rupees Nine Hundred and Seventy-Six and Fifty Paise Only	Cubic Metre	19530.00
20.00	Square Metre	A9	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	₹ 47.30	Rupees Forty-Seven and Thirty Paise Only	Square Metre	946.00
20.00	Running Metre	A10	Removing wire fencing with iron/ C.C. fencing post and stacking the materials as directed with all leads, lifts etc. complete.	₹ 70.30	Rupees Seventy and Thirty Paise Only	Running Metre	1406.00
12072.50	Square Metre	A11	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	₹ 46.20	Rupees Forty-Six and Twenty Paise Only	Square Metre	557749.50

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
3925.00	Running Metre	A12	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	₹ 2.00	Rupees Two Only	Running Metre	7850.00
		A13	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,)				
3007.04	Cubic Metre		Lift upto 0.0 to 1.50 m depth	₹ 181.50	Rupees One Hundred and Eighty-One and Fifty Paise Only	Cubic Metre	545778.21
5.22	Cubic Metre		Lift upto 1.50 to 3.0 m depth	₹ 198.00	Rupees One Hundred and Ninety-Eight Only	Cubic Metre	1033.56
		A14	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 dewatering, preparing the bed for foundation and excluding backfilling, etc. complete. (MJP,DSR 2023-24, Section-E-3,4,)				
6002.61	Cubic Metre		Lift upto 0.0 to 1.50 m depth	₹ 232.10	Rupees Two Hundred and Thirty-Two and Ten Paise Only	Cubic Metre	1393205.78
3.57	Cubic Metre		Lift upto 1.50 to 3.0 m depth	₹ 248.60	Rupees Two Hundred and Forty-Eight and Sixty Paise Only #DIV/0!	Cubic Metre	887.50
		A15	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,)				
3007.04	Cubic Metre		Lift upto 0.0 to 1.50 m depth	₹ 691.90	Rupees Six Hundred and Ninety-One and Ninety Paise Only	Cubic Metre	2080572.71
3.57	Cubic Metre		Lift upto 1.50 to 3.0 m depth	₹ 722.70	Rupees Seven Hundred and Twenty-Two and Seventy Paise Only	Cubic Metre	2580.04
0.00	Cubic Metre		Lift up to 3.0 to 4.5 m depth	₹ 753.50	Rupees Seven Hundred and Fifty-Three and Fifty Paise Only	Cubic Metre	0.00

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Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
		A16	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)				
3007.04	Cubic Metre		Lift upto 0.0 to 1.50 m depth	₹ 1,230.90	Rupees One Thousand and Two Hundred and Thirty and Ninety Paise Only	Cubic Metre	3701368.61
2.55	Cubic Metre		Lift upto 1.50 to 3.0 m depth	₹ 1,261.70	Rupees One Thousand and Two Hundred and Sixty-One and Seventy Paise Only	Cubic Metre	3217.34
1.38	Cubic Metre		Lift up to 3.0 to 4.5 m depth	₹ 1,292.50	Rupees One Thousand and Two Hundred and Ninety-Two and Fifty Paise Only	Cubic Metre	1783.65
338.53	Cubic Metre	A17	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)	₹ 96.60	Rupees Ninety-Six and Sixty Paise Only	Cubic Metre	32702.12
		A18	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 Engineer-in-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, I.d.e.f.2)Page No. 94,95,96				
20.00	Running Metre		R.C.C.NP-III Class (MJP, SSR 2023-24, Sec-I(VI)-I-c.) i) for 150 mm dia	₹ 509.80	Rupees Five Hundred and Nine and Eighty Paise Only	Running Metre	10196.00
10.00	Running Metre		ii)for 200 mm dia	₹ 581.10	Rupees Five Hundred and Eighty-One and Ten Paise Only	Running Metre	5811.00
10.00	Running Metre		iii) for 250 mm dia	₹ 788.60	Rupees Seven Hundred and Eighty-Eight and Sixty Paise Only	Running Metre	7886.00
9322.00	Running Metre		iv)for 300 mm dia	₹ 1,078.00	Rupees One Thousand and Seventy-Eight Only	Running Metre	10049116.00
691.50	Running Metre		vii) 50 mm dia	₹ 2,005.60	Rupees Two Thousand and Five and Sixty	Running Metre	1386872.40

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
10.00	Running Metre		ix) for 600 mm dia	₹ 2,886.20	Rupees Two Thousand and Eight Hundred and Eighty-Six and Twenty Paise Only	Running Metre	28862.00
5.00	Running Metre		R.C.C.NP-IV Class (MJP, SSR 2023-24, Sec-I-(VI)-1-e.) xii) for 900 mm dia	₹ 5,323.00	#DIV/0! Rupees Five Thousand and Three Hundred and Twenty-Three Only	Running Metre	26615.00
5.00	Running Metre		xiii) for 1000 mm dia	₹ 5,875.30	Rupees Five Thousand and Eight Hundred and Seventy-Five and Thirty Paise Only	Running Metre	29376.50
5.00	Running Metre	A19	xiv) for 1200 mm dia 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.)	₹ 11,138.30	Rupees Eleven Thousand and One Rupees Seventeen Thousand and Fifty-Five and Thirty Paise Only	Running Metre	55691.50
25.00	Number			₹ 17,055.30		Number	426382.50
7.00	Number	A20	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.)	₹ 30,138.60	Rupees Thirty Thousand and One Hundred and Thirty-Eight and Sixty Paise Only	Number	210970.20

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Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
4.00	Number	A21	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.)	₹ 82,847.30	Rupees Eighty-Two Thousand and Eight Hundred and Forty-Seven and Thirty Paise Only	Number	331389.20
2.00	Number	A22	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 reinforcement 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 reinforcement 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.)	₹ 273,164.60	Rupees Two Lakhs and Seventy-Three Thousand and One Hundred and Sixty-Four and Sixty Paise Only	Number	546329.20



Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
10.00	Number	A23	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 1:6 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 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.)	₹ 10,326.40	Rupees Ten Thousand and Three Hundred and Twenty-Six and Forty Paise Only	Number	103264.00
24.00	Number	A24	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.)	₹ 16,803.50	Rupees Sixteen Thousand and Eight Hundred and Three and Fifty Paise Only	Number	403284.00
20.00	Running Metre	A25	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.)	₹ 12,238.90	Rupees Twelve Thousand and Two Hundred and Thirty-Eight and Ninety Paise Only	Running Metre	244778.00
5.25	Running Metre	A26	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.)	₹ 7,549.90	Rupees Seven Thousand and Five Hundred and Forty-Nine and Ninety Paise Only	Running Metre	39636.98
3.00	Running Metre	A27	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.)	₹ 16,411.90	Rupees Sixteen Thousand and Four Hundred and Eleven and Ninety Paise Only	Running Metre	49735.70

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Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
2.50	Running Metre	A28	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.)	₹ 35,216.60	Rupees Thirty-Five Thousand and Two Hundred and Sixty Paise Only	Running Metre	88041.50
5.00	Running Metre	A29	Constructing additional depth of 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.)	₹ 5,208.70	Rupees Five Thousand and Two Hundred and Eight and Seventy Paise Only	Running Metre	26043.50
12.00	Running Metre	A30	Constructing additional depth of 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.)	₹ 13,415.60	Rupees Thirteen Thousand and Four Hundred and Fifteen and Sixty Paise Only	Running Metre	160987.20
11280.02	Cubic Metre	A31	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)	₹ 96.60	Rupees Ninety-Six and Sixty Paise Only	Cubic Metre	1089649.99
25.00	Number	A32	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)				
25.00	Number		(MJP, SSR 2023-24, Sec-I(XX)-17.) i) 540 Dia.	₹ 3,665.60	Rupees Three Thousand and Six Hundred and Sixty-Five and Sixty Paise Only	Number	91640.00
25.00	Number		ii) 560 Dia.	₹ 4,797.50	Rupees Four Thousand and Seven Hundred and Ninety-Seven and Fifty Paise Only	Number	119937.50
10.00	Number		iii) 90x45 cm	₹ 3,665.60	Rupees Three Thousand and Six Hundred and Sixty-Five and Sixty Paise Only	Number	36656.00
15.00	Number		iv) 90x60 cm	₹ 3,973.20	Rupees Three Thousand and Nine Hundred and Seventy-Three and Twenty Paise Only	Number	59598.00
5.00	Number		v) 60 x 60 cm	₹ 3,628.80	Rupees Three Thousand and Six Hundred and Twenty-Eight and Eighty Paise Only	Number	18144.00

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
5.00	Number		vi) 60 x 45 cm	₹ 3,144.80	Rupees Three Thousand and One Hundred and Forty-Four and Eighty Paise Only	Number	15724.00
79.48	Cubic Metre	A33	Cleaning or Desilting B.B.M. of various dia chamber on sewer including removing material upto a distance of 50.0M for all lifts as directed by Engineer-in-charge etc. complete	₹ 234.20	Rupees Two Hundred and Thirty-Four and Twenty Paise Only	Cubic Metre	18614.51
350.00	Running Metre	A34	Cleaning the R.C.C. choked up pipes of diameter from 200 mm to 450 mm including removing material upto adistance of 50.0M for all lifts as directed by Engineer-in-charge.	₹ 54.50	Rupees Fifty-Four and Fifty Paise Only	Running Metre	19075.00
		A35	Cleaning the R.C.C. choked up pipes by using bucket machine and rodding machine including removing material 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 criving 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 machinery 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 contractor after completion of a cleaning operation by contractor has to test the line in precence of engineer-in-charge. (As per Rate Analysis)		#DIV/0!		0.00
1500.00	Running Metre		For 200mm to 600mm dia RCC drain line	₹ 158.70	Rupees One Hundred and Fifty-Eight and Seventy Paise Only	Running Metre	238050.00
1200.00	Running Metre		For above 600mm to 1000mm dia RCC drain line	₹ 238.10	Rupees Two Hundred and Thirty-Eight and Ten Paise Only	Running Metre	285720.00
840.00	Running Metre		For above 1000mm dia RCC drain line	₹ 317.40	Rupees Three Hundred and Seventeen and Forty Paise Only	Running Metre	266616.00
3849.00	Cubic Metre	A36	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.	₹ 125.00	Rupees One Hundred and Twenty-Five Only	Cubic Metre	481125.00
2566.00	Cubic Metre	A37	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	₹ 145.90	Rupees One Hundred and Forty-Five and Ninety Paise Only	Cubic Metre	374379.40

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Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
76.98	Cubic Metre	A38	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.	₹ 185.80	Rupees One Hundred and Eighty-Five and Eighty Paise Only	Cubic Metre	14302.88
38.49	Cubic Metre	A39	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.	₹ 1,490.00	Rupees One Thousand and Four Hundred and Ninety Only	Cubic Metre	57350.10
10.00	Cubic Metre	A40	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.	₹ 125.00	Rupees One Hundred and Twenty-Five Only	Cubic Metre	1250.00
10290.48	Cubic Metre	A41	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 excavation to the site of deposition as directed.	₹ 264.80	Rupees Two Hundred and Sixty-Four and Eighty Paise Only	Cubic Metre	2724918.28
10.00	Cubic Metre	A42	Providing Earth work in embankment with approved material obtained from Govt. land with 50 m lead, by using laying in layers, breaking clods, dressing to required lines curves grade, and section watering and compaction complete. (a) 95% proctor density Spec.No. : M.O.S.T. 1995 Cl.No.305	₹ 236.30	Rupees Two Hundred and Thirty-Six and Thirty Paise Only	Cubic Metre	2363.00
1140.00	Cubic Metre	A43	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)	₹ 1,263.20	Rupees One Thousand and Two Hundred and Sixty-Three and Twenty Paise Only	Cubic Metre	1440048.00
2566.00	Cubic Metre	A44	Supplying hard murum/ kankar at the road site, including conveying and stacking complete. Sp. No. Rd. 23 P.No. 202	₹ 925.10	Rupees Nine Hundred and Twenty-Five and Ten Paise Only	Cubic Metre	2373806.60
2566.00	Cubic Metre	A45	Spreading hard murum for side width etc. complete	₹ 83.00	Rupees Eighty-Three Only	Cubic Metre	212978.00
12830.00	Square Metre	A46	Compacting the hard murum side widths including laying in layers on each side with power roller including artificial watering etc. complete.	₹ 22.10	Rupees Twenty-Two and Ten Paise Only	Square Metre	283543.00
2566.00	Cubic Metre	A47	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	₹ 2,740.50	Rupees Two Thousand and Seven Hundred and Forty and Fifty Paise Only	Cubic Metre	7032123.00

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
1914.50	Cubic Metre	A48	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)	₹ 3,059.60	Rupees Three Thousand and Fifty-Nine and Sixty Paise Only	Cubic Metre	5857604.20
1245.75	Cubic Metre	A49	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)	₹ 3,005.60	Rupees Three Thousand and Five and Sixty Paise Only	Cubic Metre	3744226.20
50.00	Cubic Metre	A50	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.	₹ 2,765.50	Rupees Two Thousand and Seven Hundred and Sixty-Five and Fifty Paise Only	Cubic Metre	138275.00
1894.50	Cubic Metre	A51	Providing and laying in PCCM 15 grade leveling course below approach slab complete with fully automatic micro process or PLC with SCADA enabled reversible drum type mixer/ concrete batch mix plant (panmixer) as per drawing sand Technical specifications etc complete with fine aggregates of required specifications (VSI sand finely washed etc)	₹ 6,924.80	Rupees Six Thousand and Nine Hundred and Twenty-Four and Eighty Paise Only	Cubic Metre	13119033.60
1271.16	Cubic Metre	A52	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.	₹ 4,492.00	Rupees Four Thousand and Four Hundred and Ninety-Two Only	Cubic Metre	5710031.77

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Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
31.05	Cubic Metre	A53	Providing and laying Cast in situ/Ready Mix cement concrete M-20 of trap / granite/quartzite/ gneiss/metal 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. With fine aggregate (Crushed sand VSI Grade)	₹ 13,505.60	Rupees Thirteen Thousand and Five Hundred and Five and Sixty Paise Only	Cubic Metre	419348.88
1.50	Metric Ton	A54	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, parris, 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.	₹ 94,188.10	Rupees Ninety-Four Thousand and One Hundred and Eighty-Eight and Ten Paise Only	Metric Ton	141282.15
8474.37	Square Metre	A55	Providing and laying 125 micron Low Density Polyethylene (LDPE) sheet conforming to IS 3395 : 1997 below concrete pavement including all materials and labour complete.	₹ 31.50	Rupees Thirty-One and Fifty Paise Only	Square Metre	266942.71
2221.62	Cubic Metre	A56	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.	₹ 8,974.80	Rupees Eight Thousand and Nine Hundred and Seventy-Four and Eighty Paise Only	Cubic Metre	19938632.20
6600.50	Number	A57	Providing and fixing in position TMT FE 500, 32 mm dia dowel bars pre-coated 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	₹ 564.90	Rupees Five Hundred and Sixty-Four and Ninety Paise Only	Number	3728622.45

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
1938.33	Number	A58	Providing and fixing in position TMT FE 500, tie bars precast with anticorrosive epoxy paint of 12 mm dia. 70 cms. long and at 30.00 cm. C/C and wherever directed including handling, straightening wrapping with paper of approved quality for half length, necessary cutting, handling, straightening, supported by assembly of TMT FE500, chairs with proper alignment etc. complete.	₹ 321.30	Rupees Three Hundred and Twenty-One and Thirty Paise Only	Number	622786.50
7564.00	Running Metre	A59	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.	₹ 79.80	Rupees Seventy-Nine and Eighty Paise Only	Running Metre	
7564.00	Running Metre	A60	Providing to contraction joints polysulphide sealant (Pouring grade) conforming to BS : 5212 - 1989 into sawed groove widened at top for sealant reservoir of specified size and shape as per detailed drawing including fixing Polyethylene foam becker rod of required diameter (approx. 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 sealant is applied and applying primer. (A) Contraction and longitudinal joints (15 mm. deep x 8 mm wide)	₹ 326.60	Rupees Three Hundred and Twenty-Six and Sixty Paise Only	Running Metre	2470402.40
15.00	Sqare Metre	A61	Providing expansion joints with 25mm thick bituminous pad as per detailed drawings etc. complete	₹ 1,140.30	Rupees One Thousand and One Hundred and Forty and Thirty Paise Only	Sqare Metre	17104.50
10.00	Running Metre	A62	Providing and casting insitu or precast tapering R.C.C.M-20 Mountable type Kerb without gutter (as per 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 in city and redoing the surface as specified and directed by Engineering In-charge. Using Concrete Batching and Mixing Plant	₹ 516.60	Rupees Five Hundred and Sixteen and Sixty Paise Only	Running Metre	5166.00
		A63	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)				0.00
2616.00	Running Metre		Size- Length 300 mm, Height 750mm, Top Width 125 mm, Bottom width 200 mm, Chamfer Height 300 mm	₹ 1,618.50	Rupees One Thousand and Six Hundred and Eighteen and Fifty Paise Only	Running Metre	4233996.00
15156.00	Running Metre		Size- Length 400 mm, Height 450mm, Width 125mm, Chamfer Height 450 mm	₹ 788.00	Rupees Seven Hundred and Eighty-Eight Only	Running Metre	11942928.00

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 2616.00 Running Metre


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Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
9472.50	Square Metre	A64	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	₹ 978.60	Rupees Nine Hundred and Seventy-Eight and Sixty Paise Only	Square Metre	9269788.50
3157.50	Square Metre	A65	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	₹ 1,238.00	Rupees One Thousand and Two Hundred and Thirty-Eight Only	Square Metre	3908985.00
50.00	Square Metre	A66	Providing and laying 75mm thick compacted Modified Penetration 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 embedded in the bitumen layer and rolling shall continue until entire surface is thoroughly compacted etc. complete. (With Vibratory Roller including diversion road) Spec. No. As directed by Engineer- in - charge.	₹ 362.60	Rupees Three Hundred and Sixty-Two and Sixty Paise Only	Square Metre	18130.00
15012.45	Square Metre	A67	Providing and laying 75mm thick compacted Modified Penetration 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 embedded in the bitumen layer and rolling shall continue until entire surface is thoroughly compacted etc. complete. (With Vibratory Roller including diversion road) Spec. No. As directed by Engineer- in - charge.	₹ 361.20	Rupees Three Hundred and Sixty-One and Twenty Paise Only	Square Metre	5422496.94
44248.95	Square Metre	A68	Providing and applying tack coat on the prepared surface heating by fumes in Boiler and spraying bitumen set footed in bitumen boiler on B.T. surface 5 kg/10 sqm. (VG 30 bulk bitumen rates are considered to arrive at rates) Spec Rd 47.3 Page No. 224	₹ 33.60	Rupees Thirty-Three and Sixty Paise Only	Square Metre	1486764.72
100.00	Square Metre	A69	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.	₹ 60.80	Rupees Sixty and Eighty Paise Only	Square Metre	6080.00

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
50.00	Cubic Metre	A70	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)	₹ 8,496.20	Rupees Eight Thousand and Four Hundred and Ninety-Six and Twenty Paise Only	Cubic Metre	424810.00
50.00	Cubic Metre	A71	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.	₹ 9,095.60	Rupees Nine Thousand and Ninety-Five and Sixty Paise Only	Cubic Metre	454780.00
1327.47	Cubic Metre	A72	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.	₹ 11,105.50	Rupees Eleven Thousand and One Hundred and Five and Fifty Paise Only	Cubic Metre	14742201.43
884.98	Cubic Metre	A73	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 for 30/40 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 CI.No 511	₹ 13,468.80	Rupees Thirteen Thousand and Four Hundred and Sixty-Eight and Eighty Paise Only	Cubic Metre	11919605.16

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Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
0.00	Cubic Metre	A74	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 15 percent 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	₹ 8,418.35	Rupees Eight Thousand and Four Hundred and Eighteen and Thirty-Five Paise Only	Cubic Metre	0.00
266.01	Kilogram	A75	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.	₹ 1,470.00	Rupees One Thousand and Four Hundred and Seventy Only	Kilogram	391029.35
15.00	Running Metre	A76	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.	₹ 279.30	Rupees Two Hundred and Seventy-Nine and Thirty Paise Only	Running Metre	4189.50
15.00	Running Metre		15 mm	₹ 393.80	Rupees Three Hundred and Ninety-Three and Eighty Paise Only	Running Metre	5907.00
15.00	Running Metre		25 mm	₹ 452.60	Rupees Four Hundred and Fifty-Two and Sixty Paise Only	Running Metre	6789.00
15.00	Running Metre		32 mm	₹ 566.00	Rupees Five Hundred and Sixty-Six Only	Running Metre	8490.00
15.00	Running Metre		40 mm	₹ 778.00	Rupees Seven Hundred and Seventy-Eight Only	Running Metre	11670.00
15.00	Running Metre		50mm				
10.00	Number	A77	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.	₹ 1,310.40	Rupees One Thousand and Three Hundred and Ten and Forty Paise Only	Number	13104.00

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
10.00	Number	A78	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	₹ 9,391.20	Rupees Nine Thousand and Three Hundred and Ninety-One and Twenty Paise Only	Number	93912.00
		A79	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 as bends, tees, coupler, etc, jointing with rubber lubricant including necessary excavation, trench refilling with selective excavated material etc. complete.				0.00
25.00	Running Metre		110mm	₹ 343.40	Rupees Three Hundred and Forty-Three and Forty Paise Only	Running Metre	8585.00
25.00	Running Metre		160mm	₹ 533.40	Rupees Five Hundred and Thirty-Three and Forty Paise Only	Running Metre	13335.00
20.00	Cubic Metre	A80	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	₹ 7,917.10	Rupees Seven Thousand and Nine Hundred and Seventeen and Ten Paise Only	Cubic Metre	158142.00
20.00	Cubic Metre	A81	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	₹ 13,152.80	Rupees Thirteen Thousand and One Hundred and Fifty-Two and Eighty Paise Only	Cubic Metre	263036.00
20.00	Cubic Metre	A82	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 unexposed faces and watering etc.complete.	₹ 6,140.90	Rupees Six Thousand and One Hundred and Forty and Ninety Paise Only	Cubic Metre	122818.00
80.50	Cubic Metre	A83	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)	₹ 8,172.60	Rupees Eight Thousand and One Hundred and Seventy-Two and Sixty Paise Only	Cubic Metre	657894.30
250.00	Square Metre	A84	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.	₹ 438.30	Rupees Four Hundred and Thirty-Eight and Thirty Paise Only	Square Metre	109575.00

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 AUTHORIZED PARTNER

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
500.00	Square Metre	A85	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 1 Kilogram per 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.	₹ 722.00	Rupees Seven Hundred and Twenty-Two Only	Square Metre	361000.00
11870.25	Square Metre	A85	Providing and applying priming coat on concrete/ masonry/ 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.	₹ 37.80	Rupees Thirty-Seven and Eighty Paise Only	Square Metre	448695.45
2870.25	Square Metre	A87	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.	₹ 309.80	Rupees Three Hundred and Nine and Eighty Paise Only	Square Metre	889203.45
2967.56	Square Metre	A88	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.	₹ 89.30	Rupees Eighty-Nine and Thirty Paise Only	Square Metre	265003.35
8902.69	Square Metre	A89	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)	₹ 92.40	Rupees Ninety-Two and Forty Paise Only	Square Metre	822608.35
20.00	Square Metre	A90	Providing and laying matt finish ceramic tiles of having size 30 cm x 30 cm conforming 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.	₹ 1,251.90	Rupees One Thousand and Two Hundred and Fifty-One and Ninety Paise Only	Square Metre	25038.00
20.00	Running Metre	A91	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentric) Deleted (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 coats of oil paint etc. complete.	₹ 962.90	Rupees Nine Hundred and Sixty-Two and Ninety Paise Only	Running Metre	19258.00
20.00	Running Metre	A92	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.	₹ 2,936.80	Rupees Two Thousand and Nine Hundred and Thirty-Six and Eighty Paise Only	Running Metre	58736.00

Quantity	Unit	Sr. No	Description	Rate in Fig.	Rate in Words	Unit	Amount
20.00	Running Metre	A93	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 horizontal 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 rendering uneven and honeycombed surface only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centering/formwork will not be allowed).	₹ 2,623.90	Rupees Two Thousand and Six Hundred and Twenty-Three and Ninety Paise Only	Running Metre	52,478.00
20.00	Cubic Metre	A94	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, cement 6.40 bags/cumt)	₹ 8,236.30	Rupees Eight Thousand and Two Hundred and Thirty-Six and Thirty Paise Only	Cubic Metre	1,64,726.00
1.00	Metric Ton	A95	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.	₹ 1,06,936.20	Rupees One Lakh and Six Thousand and Nine Hundred and Thirty-Six and Twenty Paise Only	Metric Ton	1,06,936.20
26.22	Cubic Metre	A96	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete.	₹ 2,049.00	Rupees Two Thousand and Forty-Nine Only	Cubic Metre	53,724.78
20.00	Cubic Metre	A97	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 as per 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 automatic micro processor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete.	₹ 8,584.20	Rupees Eight Thousand and Five Hundred and Eighty-Four and Twenty Paise Only	Cubic Metre	1,71,684.00
		A98	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	₹ 4,616.10	Rupees Four Thousand and Six Hundred and Sixteen and Ten Paise Only	Square Metre	92,322.00

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ASSOCIATED PARTNER

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
20.68	Running Metre	A99	Providing and erecting chain link fencing 1.6M. height with G.I. chain link of size 50 x 50mm, 8 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40x40x6 mm size, including 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 16mm dia as hold fast including welding link with angle frame at 30cm/c withouts 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.	₹ 2,728.00	Rupees Two Thousand and Seven Hundred and Twenty-Eight Only	Running Metre	56412.04
20.00	Square Metre	A100	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.	₹ 3,349.50	Rupees Three Thousand and Three Hundred and Forty-Nine and Fifty Paise Only	Square Metre	66990.00
20.00	Square Metre	A101	Providing and fixing mild steel grill work for windows, ventilators etc. 20 Kilogram/ One Square Metre as per drawing including fixtures, necessary welding and painting with one coats of anticorrosive paint and two coats of oil painting complete.	₹ 2,201.80	Rupees Two Thousand and Two Hundred and One and Eighty Paise Only	Square Metre	44036.00
121.13	Cubic Metre	A102	Excavation for foundation in earth, soil of all types, sand, gravel and soft murrum, including removing the excavated material up to a distance of 50m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.) By Mechanical Means	₹ 217.40	Rupees Two Hundred and Seventeen and Forty Paise Only	Cubic Metre	26352.58
17.10	Cubic Metre	A103	Providing and laying Cast in situ/Ready Mix concrete in M15 of trap/granite/quartzite/gneiss metal for foundation and bedding / steps including steel centering, 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 honey combed 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 Typemixer/concrete Batch mix plant (Pan mixer) etc. complete. With fine aggregate (Crushed sand/VSI Grade)	₹ 7,327.00	Rupees Seven Thousand and Three Hundred and Twenty-Seven Only	Cubic Metre	125291.70
51.30	Cubic Metre	A104	Providing and laying insitu /Ready Mix concrete M 20 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, Steel centering formwork, laying/pumping cover blocks, 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 fine aggregate (Crushed sand VSI Grade)	₹ 8,082.30	Rupees Eight Thousand and Eighty-Two and Thirty Paise Only	Cubic Metre	414621.99

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
57.00	Cubic Metre	A105	Providing cast in situ / ready mix M20 grade cement concrete for head walls of CD work / retaining walls etc. including necessary form work, compaction, finishing and curing etc. complete (with reversible drum type mixer/ concrete batch mix plant (pan mixer) with SCADA with Natural / VSI standard Artificial Sand, cement 7.00 bags/cum)	₹ 10,857.50	Rupees Ten Thousand and Eight Hundred and Fifty-Seven and Fifty Paise Only	Cubic Metre	618877.50
4153.60	Square Metre	A106	Road Marking with Hot Applied Thermoplastic Compound with Reflecting 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.	₹ 699.30	Rupees Six Hundred and Ninety-Nine and Thirty Paise Only	Square Metre	2901612.48
4562.00	Number	A107	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.	₹ 384.30	Rupees Three Hundred and Eighty-Four and Thirty Paise Only	Number	1753176.60

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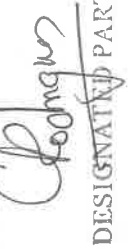


DESIGNATED PARTNER

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
250.00	Number	A108	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.	₹ 4,189.50	Rupees Four Thousand and One Hundred and Eighty-Nine and Fifty Paise Only	Number	1047375.00
726.00		A109	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.	₹ 480.90	Rupees Four Hundred and Eighty and Ninety Paise Only		349133.40

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
20.00	Number	A110	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	₹ 863.10	Rupees Eight Hundred and Sixty-Three and Ten Paise Only	Number	17262.00
20.00	Number	A111	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 gauge 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.	₹ 1,056.30	Rupees One Thousand and Fifty-Six and Thirty Paise Only	Number	21126.00
		A112	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 retroreflective specified back ground, border and back side retroreflective 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/convector 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.				
5.00	Number		600 mm dia made out of 3mm aluminum composite material	₹ 5,665.80	Rupees Five Thousand and Six Hundred	Number	28329.00
5.00	Number		750 mm dia made out of 4mm aluminum composite material	₹ 7,519.10	Rupees Seven Thousand and Five Hundred	Number	37395.50

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Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
		A114	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 retroreflective specified back ground, border and back side retroreflective 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/convector 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		#DIV/0!		
5.00	Number		600 mm made out of 3mm aluminum composite material	₹ 4,524.40	Rupees Four Thousand and Five Hundred	Number	22622.00
5.00	Number		750 mm made out of 4mm aluminum composite material	₹ 5,205.90	Rupees Five Thousand and Two Hundred and Five and Ninety Paise Only	Number	26029.50
5.00	Number	A115	900 mm made out of 4mm aluminum composite material Providing and fixing of retro- reflectorised informatory sign board rectangular/Square in shape having area less than 0.9 One Square Meter 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 retroreflective specified back ground, border and back side retroreflective 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 G.I fixtures 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/convector 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	₹ 6,647.60	Rupees Six Thousand and Six Hundred	Number	33238.00

Quantity	Unit	Sr.No	Description	Rate in Fig.	Rate in Words	Unit	Amount
8.10	Square Metre	A116	4mm aluminum composite material Class C 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 retroreflective specified back ground, border and back side retroreflective 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 fixtures 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/convector issued	₹ 13,891.50	Rupees Thirteen Thousand and Eight Hundred and Ninety-One and Fifty Paise	Square Metre	11,521.15
12.96	Square Metre	A117	4mm aluminum composite material Class C 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 retroreflective specified back ground, border and back side retroreflective 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/convector 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	₹ 16,722.30	Rupees Sixteen Thousand and Seven	Square Metre	21,6721.01
12.96	Square Metre		4mm aluminum composite material Class C	₹ 10,839.10	Rupees Ten Thousand and Eight Hundred	Square Metre	140,174.74

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Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Schedule B-(Part B)Water Supply

Quantity	Unit	Sr.No	Description	Rate in Fig.		Rate in Words	Unit	Amount (Rs.)
		B1	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)					
			D.I. K - 7					
			i) 100 mm Dia.					
8.00	Running Metre			Rs	1209	Rupees One Thousand and Two Hundred and Nine Only	Running Metre	9672.00
			ii) 150 mm Dia.					
8.00	Running Metre			Rs	1686	Rupees One Thousand and Six Hundred and Eighty-Six Only	Running Metre	13488.00
			iii) 200 mm Dia.					
8.00	Running Metre			Rs	2236	Rupees Two Thousand and Two Hundred and Thirty-Six Only	Running Metre	17888.00
			iv) 250 mm Dia.					
8.00	Running Metre			Rs	2906	Rupees Two Thousand and Nine Hundred and Six Only	Running Metre	23248.00
			v) 300 mm Dia.					
8.00	Running Metre			Rs	3571	Rupees Three Thousand and Five Hundred and Seventy-One Only	Running Metre	28568.00
			vi) 350 mm Dia.					
8.00	Running Metre			Rs	4465	Rupees Four Thousand and Four Hundred and Sixty-Five Only	Running Metre	35720.00

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8.00	Running Metre		vii) 400 mm Dia.	Rs	5328	Rupees Five Thousand and Three Hundred and Twenty-Eight Only	Running Metre	42624.00
8.00	Running Metre		viii) 450 mm Dia.	Rs	6346	Rupees Six Thousand and Three Hundred and Forty-Six Only	Running Metre	50768.00
		B2	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)					
200.00	Kilogram		D/F specials up to 300 mm	Rs	88	Rupees Eighty-Eight Only	Kilogram	17600.00
200.00	Kilogram		Above 350 mm upto 600 mm dia.	Rs	94	Rupees Ninety-Four Only	Kilogram	18800.00
		B3	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 Tailpiece to be supplied complete with sealing rubber gasket of S.B.R.,C.I.. Followed 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 statutory duties and taxes such as GST levied by Gol and GoM in all respect, loading, transportation and unloading at departmental store etc. complete as directed. Consignee but exclusive of octroi. MJP DSR Page No. 143 Sr.No. 1					
			SECTION-I(XIII) MECHANICAL JOINTS/ FITTING (161)					0.00
8.00	Number		80 mm Dia	Rs	1311	Rupees One Thousand and Three Hundred and Eleven Only	Number	10488.00
8.00	Number		100 mm Dia	Rs	1430	Rupees One Thousand and Four Hundred and Thirty Only	Number	11440.00
8.00	Number		125 mm Dia	Rs	1800	Rupees One Thousand and Eight Hundred Only	Number	14400.00

8.00	Number		150 mm Dia.	Rs	2574	Rupees Two Thousand and Five Hundred and Seventy-Four Only	Number	20592.00
8.00	Number		200 mm Dia.	Rs	3335	Rupees Three Thousand and Three Hundred and Thirty-Five Only	Number	26680.00
8.00	Number		250 mm Dia.	Rs	5031	Rupees Five Thousand and Thirty-One Only	Number	40248.00
8.00	Number		300 mm Dia.	Rs	5632	Rupees Five Thousand and Six Hundred and Thirty-Two Only	Number	45056.00
8.00	Number		350 mm Dia.	Rs	7427	Rupees Seven Thousand and Four Hundred and Twenty-Seven Only	Number	59416.00
8.00	Number		400mm Dia.	Rs	9694	Rupees Nine Thousand and Six Hundred and Ninety-Four Only	Number	77552.00
8.00	Number		450mm Dia.	Rs	11380	Rupees Eleven Thousand and Three Hundred and Eighty Only	Number	91040.00
		B4	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 statutory duties and taxes such as GST levied by GoI and GoM in all respect, MJP DSR Page No. 143 Sr.No. 2					
			SECTION-(XIII) MECHANICAL JOINTS / FITTING (161)					
	Number		80 mm Dia.	Rs	826	Rupees Eight Hundred and Twenty-Six Only	Number	6608.00

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8.00	Number		100 mm Dia.	Rs	886	Rupees Eight Hundred and Eighty-Six Only	Number	7088.00
8.00	Number		125 mm Dia.	Rs	1181	Rupees One Thousand and One Hundred and Eighty-One Only	Number	9448.00
8.00	Number		150 mm Dia.	Rs	1593	Rupees One Thousand and Five Hundred and Ninety-Three Only	Number	12744.00
8.00	Number		200 mm Dia.	Rs	1818	Rupees One Thousand and Eight Hundred and Eighteen Only	Number	14544.00
8.00	Number		250 mm Dia.	Rs	2914	Rupees Two Thousand and Nine Hundred and Fourteen Only	Number	23312.00
8.00	Number		300 mm Dia.	Rs	3729	Rupees Three Thousand and Seven Hundred and Twenty-Nine Only	Number	29832.00
8.00	Number		350 mm Dia.	Rs	4597	Rupees Four Thousand and Five Hundred and Ninety-Seven Only	Number	36776.00
8.00	Number		400 mm Dia.	Rs	7154	Rupees Seven Thousand and One Hundred and Fifty-Four Only	Number	57232.00
8.00	Number		450 mm Dia.	Rs	8033	Rupees Eight Thousand and Thirty-Three Only	Number	64264.00
								0.00
		B5	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)	Rs	93.45	Rupees Ninety-Three and Forty-Five Paise Only	Bhp/hr	3270.75
35.00	Bhp/hr							

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8.00	
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8.00	Joint	600 mm Dia.	Rs	3898.65	Rupees Three Thousand and Eight Hundred and Ninety-Eight and Sixty-Five Paise Only	Joint	31189.20
		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.					
8.00	Joint	SECTION-I(XI) C.I./D.I. PIPES (71) 80 mm Dia.	Rs	265.44	Rupees Two Hundred and Sixty-Five and Forty-Four Paise Only	Joint	2123.52
8.00	Joint	100 mm Dia.	Rs	456.96	Rupees Four Hundred and Fifty-Six and Ninety-Six Paise Only	Joint	3655.68
8.00	Joint	150 mm Dia.	Rs	917.28	Rupees Nine Hundred and Seventeen and Twenty-Eight Paise Only	Joint	7338.24
8.00	Joint	200 mm Dia.	Rs	950.88	Rupees Nine Hundred and Fifty and Eighty-Eight Paise Only	Joint	7607.04
8.00	Joint	300 mm Dia.	Rs	1415.4	Rupees One Thousand and Four Hundred and Fifteen and Forty Paise Only	Joint	11323.20
8.00	Joint	450 mm Dia.	Rs	2806.44	Rupees Two Thousand and Eight Hundred and Six and Forty-Four Paise Only	Joint	22451.52
8.00	Joint	600 mm Dia.	Rs	3118.92	Rupees Three Thousand and One Hundred and Eighteen and Ninety-Two Paise Only	Joint	24951.36
		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)					
2.00	Number.	80 mm Dia.	Rs	52.5	Rupees Fifty-Two and Fifty Paise Only	Number.	105.00
2.00	Number.	100 mm Dia.	Rs	60.9	Rupees Sixty and Ninety Paise Only	Number.	121.80
2.00	Number.	150 mm Dia.	Rs	94.5	Rupees Ninety-Four and Fifty Paise Only	Number.	189.00

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5.00	Running Metre		25 mm Dia.	Rs	206	Rupees Two Hundred and Six Only	Running Metre	1030.00
5.00	Running Metre		40 mm Dia.	Rs	299	Rupees Two Hundred and Ninety-Nine Only	Running Metre	1495.00
5.00	Running Metre		50 mm Dia.	Rs	413	Rupees Four Hundred and Thirteen Only	Running Metre	2065.00
		B12	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					
2.00	Running Metre			Rs	1484.7	Rupees One Thousand and Four Hundred and Eighty-Four and Seventy Paise Only	Running Metre	2969.40
		B13	Gas cutting (either square cut or V cut) pipes, plates, etc. of thickness MJP DSR Page No. 196 Sr.No. 13					
2.00	Running Metre		5 to 10 mm thickness	Rs	156.45	Rupees One Hundred and Fifty-Six and Forty-Five Paise Only	Running Metre	312.90
2.00	Running Metre		10 to 14mm thickness	Rs	200.55	Rupees Two Hundred and Fifty-Five Paise Only	Running Metre	401.10
		B14	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 Proportion Valve Chamber with Precast steel fibre reinforced concrete (S.F.R.C.) frame & covers. MJP DSR Page No. 90x60x120 cm					
5.00	Number			Rs	16139.55	Rupees Sixteen Thousand and One Hundred and Thirty-Nine and Fifty-Five Paise Only	Number	80697.75
5.00	30cm depth		increase in depth of 30Cm	Rs	2048.55	Rupees Two Thousand and Forty-Eight and Fifty-Five Paise Only	30cm depth	10242.75
5.00	Number		90x90x120 cm	Rs	20466.6	Rupees Twenty Thousand and Four Hundred and Sixty-Six and Sixty Paise Only	Number	102333.00
5.00	30cm depth		increase in depth of 30Cm	Rs	2397.15	Rupees Two Thousand and Three Hundred and Ninety-Seven and Fifteen Paise Only	30cm depth	11985.75
5.00	Number		120x120x120 cm	Rs	25321.8	Rupees Twenty-Five Thousand and Three Hundred and Twenty-One and Eighty Paise Only	Number	126609.00

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 DESIGNATED PARTNER		

Schedule B Electrical (Part-C)

Name of work: Supplying and erecting streetlight pole and allied works of Amrut Miravnuk Marg, Panchavati division, NMC.

Qty	S. N	Item	Per	Rate	Rate in Words	Amount
10	C1	Supplying and erecting 7 m high (clear height) galvanised octagonal pole with foundation bolts having bottom of 130 mm A/F, top 70 mm A/F on provided foundation	Nos	₹ 17,220.00	Rupees Seventeen Thousand and Two Hundred and Twenty Only	172200.00
5	C2	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	Nos	₹ 21,847.00	Rupees Twenty-One Thousand and Eight Hundred and Forty-Seven Only	109235.00
3	C3	Supplying and erecting 12.5 m (clear height) motorized high-mast (Top -150mm, Bottom-360mm) hot dipped galvanized material with average minimum thickness 65 micron, made from high tensile structure grade steel as per BSEN - 10025 S 355/E350 & 3mm thickness, with base plate 25 mm thick x OD 520 mm grade as per IS-2062, pole made in single section & submerge arc welded, with lowering & raising motorized unit, wire rope stainless steel 316 grade 2 nos., 7x19 construction 5mm, SG-DG U clamps, double drum with assembly 250 kg, 5x2.5 Sq.mm. flexible copper cable with lantern carriage assembly suitable for max. 12 nos. luminaries and its control gear box, lightning arrestor, arrangement for fixing aviation light, night glow reflector on pole at suitable height, etc complete	Nos	₹ 230,158.00	Rupees Two Lakhs and Thirty Thousand and One Hundred and Fifty-Eight Only	690474.00

Qty	S. N	Item	Per	Rate	Rate in Words	Amount
8	C4	Supplying and erecting galvanised 1000mm single arm sword type bracket with FRP dome and ball	Nos	₹ 2,710.00	Rupees Two Thousand and Seven Hundred and Ten Only	21680.00
7	C5	Supplying and erecting galvanised 1000mm double arm sword type bracket with FRP dome and ball	Nos	₹ 4,500.00	Rupees Four Thousand and Five Hundred Only	31500.00
35	C6	Making M-20 grade reinforced cement concrete foundation by considering the safe soil bearing capacity as 10 T/sq.m at 1.5m depth including supply of steel, concrete, excavation, fixing provided nut bolts with the help of template, duly plastered as per design complete (for 3 to 5m octagonal/ conical GI pole).	No	₹ 4,090.00	Rupees Four Thousand and Ninety Only	143150.00
85	C7	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).	Nos	₹ 4,873.00	Rupees Four Thousand and Eight Hundred and Seventy-Three Only	414205.00
5	C8	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).	Nos	₹ 6,437.00	Rupees Six Thousand and Four Hundred and Thirty-Seven Only	32185.00

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Qty	S. N	Item	Per	Rate	Rate in Words	Amount
3	C9	Making M-20 cement concrete foundation by considering the safe soil bearing capacity at site as 10 T/sq.m at 2m depth including excavation and fixing provided nut bolts with the help of template, duly plastered as per design complete (for 12.5m raising lowering high mast).	Nos	₹ 29,037.00	Rupees Twenty-Nine Thousand and Thirty-Seven Only	87111.00
5	C10	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 reinforcement of various diameters for RCC work, sand faced plaster externally in cement mortar, etc complete	Cub.M	₹ 11,551.00	Rupees Eleven Thousand and Five Hundred and Fifty-One Only	57755.00
10	C11	Supplying and erecting FRP box of size 300mm x 200mm x 125 mm, 2.7 mm thick complete on pole/wall	Nos	₹ 790.00	Rupees Seven Hundred and Ninety Only	7900.00
13	C12	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.	Nos	₹ 5,753.00	Rupees Five Thousand and Seven Hundred and Fifty-Three Only	74789.00

Qty	S. N	Item	Per	Rate	Rate in Words	Amount
10	C13	Supplying and erecting integrated LED street light fitting 85-90W IP65 & IK08 class having single piece pressure die-cast aluminium housing, having system lumens output of Min. 9300 Lumens, min. efficacy of 110 lumen/W, etc complete.	Nos	₹ 6,726.00	Rupees Six Thousand and Seven Hundred and Twenty-Six Only	67260.00
18	C14	Supplying and erecting integrated LED flood light fitting Max. 195W IP65 & IK07 class having pressure die-cast aluminium housing, having system lumens output of Min. 23400 Lumens, etc complete	No	₹ 17,660.00	Rupees Seventeen Thousand and Six Hundred and Sixty Only	317880.00
2900	C15	Supplying and erecting FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 10 sq. mm. aluminium conductor complete	Mtr	₹ 183.00	Rupees One Hundred and Eighty-Three Only	530700.00
100	C16	Supplying and erecting FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor complete	Mtr	₹ 215.00	Rupees Two Hundred and Fifteen Only	21500.00
1350	C17	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	Mtr	₹ 70.00	Rupees Seventy Only	94500.00
200	C18	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	Mtr	₹ 85.00	Rupees Eighty-Five Only	17000.00

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Sanjay
 Sd/-
 SANJAY PARTNER

Qty	S. N	Item	Per	Rate	Rate in Words	Amount
165	C19	Supplying, erecting & marking SPMCB 0.5A to 5A, C-series with rated short - circuit breaking capacity (1cn) 10kA in provided distribution board	No	₹ 250.00	Rupees Two Hundred and Fifty Only	41250.00
2	C20	Supplying and erecting epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm., with necessary material	Nos	₹ 2,075.00	Rupees Two Thousand and Seventy-Five Only	4150.00
40	C21	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	Mtr	₹ 219.00	Rupees Two Hundred and Nineteen Only	8760.00
2750	C22	Supplying and erecting 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	Mtr	₹ 204.00	Rupees Two Hundred and Four Only	561000.00
120	C23	Supplying and erecting 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	Mtr	₹ 333.00	Rupees Three Hundred and Thirty-Three Only	39960.00
2	C24	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. for automatic operation with overcurrent, short circuit, earth fault protection on provided iron frame	Nos	₹ 31,461.00	Rupees Thirty-One Thousand and Four Hundred and Sixty-One Only	62922.00

Qty	S. N	Item	Per	Rate	Rate in Words	Amount
3	C25	Supplying and erecting outdoor stand mounted feeder pillar for high-mast of the same manufacturer with 63A TPN MCB incomer, 24hr astronomical time switch with minimum 5 Years battery backup, 45 A TP contactor for automatic switching of luminaries, 2 no 9A contactors and raise/lower push button, and provision for termination of adequate size of incoming and outgoing cables complete erected in min. 14 SWG CRCA sheet box powder coated with supporting angles, self lock, gasket and slanting top erected on CC foundation complete.	No	₹ 33,144.00	Rupees Thirty-Three Thousand and One Hundred and Forty-Four Only	99432.00
160	C26	Providing, installing and testing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all accessories	Nos	₹ 1,537.00	Rupees One Thousand and Five Hundred and Thirty-Seven Only	245920.00
75	C27	Supplying and erecting 7 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.	Nos	₹ 55,100.00	Rupees Fifty-Five Thousand and One Hundred Only	4132500.00
10	C28	Supplying and erecting 5 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.	Nos	₹ 54,650.00	Rupees Fifty-Four Thousand and Six Hundred and Fifty Only	546500.00
25	C29	Supplying and erecting 3 m long decorative pole with cap, base plate, foundation bolt etc complete in provided foundation.	Nos	₹ 45,980.00	Rupees Forty-Five Thousand and Nine Hundred and Eighty Only	1149500.00
35	C30	Supplying and erecting decorative double arm bracket for 3/5 m decorative pole etc complete.	Nos	₹ 22,000.00	Rupees Twenty-Two Thousand Only	770000.00
75	C31	Supplying and erecting decorative single arm bracket for 3/5 m decorative pole etc complete.	Nos	₹ 19,210.00	Rupees Nineteen Thousand and Two Hundred and Ten Only	1440750.00

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Qty	S. N	Item	Per	Rate	Rate in Words	Amount
1	C32	Supplying and erecting decorative double arm bracket for 7/8 m decorative pole etc complete.	Nos	₹ 33,500.00	Rupees Thirty-Three Thousand and Five Hundred Only	33500.00
50	C33	Supplying and erecting decorative integral hanging LED fixtures of 50 W consisting with accessories on provided pole /bracket	Nos	₹ 7,100.00	Rupees Seven Thousand and One Hundred Only	355000.00
75	C34	Supplying and erecting decorative integral hanging LED fixtures of 120 W consisting with accessories on provided pole /bracket	Nos	₹ 10,940.00	Rupees Ten Thousand and Nine Hundred and Forty Only	820500.00
20	C35	Supplying and erecting decorative integral post top lantern LED fixtures of 50 W consisting with accessories on provided pole /bracket	Nos	₹ 9,975.00	Rupees Nine Thousand and Nine Hundred and Seventy-Five Only	199500.00
1	C36	Supplying and erecting 9 mtr Decorative Stambh pole STB-1, With foundation, installation with Warm White light	No	₹ 1,568,000.00	Rupees Fifteen Lakhs and Sixty-Eight Thousand Only	1568000.00
1	C37	Supplying and erecting 9 mtr Decorative Stambh pole STB-2, With foundation, installation with Warm White light	No	₹ 1,595,000.00	Rupees Fifteen Lakhs and Ninety-Five Thousand Only	1595000.00
210.864	C38	Making fabrication work using 16 gauge metal sheet including Iron work with bending, cutting, drilling and welding complete	Kg	₹ 261.00	Rupees Two Hundred and Sixty-One Only	55035.50
47	C39	Dismantling the existing pole above 6 m height with brackets, clamps, insulators, stay from the c.c. foundation	Nos	₹ 1,043.00	Rupees One Thousand and Forty-Three Only	49021.00
		Total				16669225

work: Shifting of HT, LT lines and allied works of Amrut Miravruk Marg, Panchavati division, NMC.

Schedule B Electrical (Part-D)

S. N	Item	Per	Rate	Rate in Words	Amount
D1	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.	Nos	₹ 167,122.00	Rupees One Lakh and Sixty-Seven Thousand and One Hundred and Twenty-Two Only	334244.00
D2	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	No	₹ 308,133.00	Rupees Three Lakhs and Eight Thousand and One Hundred and Thirty-Three Only	308133.00
D3	Providing and fixing rolled steel joist (girder) pole 152 x 152 mm (37.1kg/m) with base plate in provided foundation	Mtr	₹ 2,681.00	Rupees Two Thousand and Six Hundred and Eighty-One Only	627354.00
D4	Providing and fixing rolled steel joist (girder) pole 100 x 116 mm (23.1kg/m) with base plate in provided foundation	Mtr	₹ 1,840.00	Rupees One Thousand and Eight Hundred and Forty Only	404800.00

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S. N	Item	Per	Rate	Rate in Words	Amount
D5	Providing and fixing rolled steel joist (girder) pole 125 x 70 mm (13.3 kg/m) with base plate in provided foundation	Mtr	₹ 1,164.00	Rupees One Thousand and One Hundred and Sixty-Four Only	102432.00
D6	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	Nos	₹ 2,010.00	Rupees Two Thousand and Ten Only	10050.00
D7	Providing and fixing HT stay wire	Kg	₹ 150.00	Rupees One Hundred and Fifty Only	11250.00
D8	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)	Nos	₹ 3,536.00	Rupees Three Thousand and Five Hundred and Thirty-Six Only	134368.00
D9	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).	Nos	₹ 2,491.00	Rupees Two Thousand and Four Hundred and Ninety-One Only	12455.00
D10	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 reinforcement of various diameters for RCC work, sand faced plaster externally in cement mortar, etc complete	Cub.M	₹ 11,551.00	Rupees Eleven Thousand and Five Hundred and Fifty-One Only	92408.00
D11	Providing and fixing various channels, clamp, angle, flat etc fabrication works	Kg	₹ 196.00	Rupees One Hundred and Ninety-Six Only	279300.00
D12	Providing and fixing disc type insulator 70 KN with necessary hardware suitable for 33kV line complete	Nos	₹ 2,037.00	Rupees Two Thousand and Thirty-Seven Only	59073.00
D13	Providing and fixing disc type insulator 45KN with necessary hardware suitable for 11kV line, complete	Nos	₹ 1,255.00	Rupees One Thousand and Two Hundred and Fifty-Five Only	40160.00

S. N	Item	Per	Rate	Rate in Words	Amount
D14	Providing and fixing pin type insulator with GI pin suitable for 33kV line, complete	Nos	₹ 889.00	Rupees Eight Hundred and Eighty-Nine Only	56007.00
D15	Providing and fixing porcelain pin type insulator with GI pin suitable for 11kV line, complete	Nos	₹ 313.00	Rupees Three Hundred and Thirteen Only	22849.00
D16	Providing and fixing approved make thyrite type lightning arrester suitable for 11KV line	No	₹ 1,347.00	Rupees One Thousand and Three Hundred and Forty-Seven Only	5388.00
D17	Providing and fixing isolator suitable for 33KV capacity	No	₹ 86,400.00	Rupees Eighty-Six Thousand and Four Hundred Only	86400.00
D18	Providing and fixing air break switch without earth switch 11KV, 400A outdoor type gang operated air break, triple pole switch of required capacity complete	Nos	₹ 16,128.00	Rupees Sixteen Thousand and One Hundred and Twenty-Eight Only	48384.00
D19	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	No	₹ 6,603.00	Rupees Six Thousand and Six Hundred and Three Only	13206.00
D20	Providing and fixing ACSR conductor of size - 6/1-4.72 mm (Dog) complete.	Km	₹ 97,655.00	Rupees Ninety-Seven Thousand and Six Hundred and Fifty-Five Only	166013.50
D21	Providing and fixing ACSR conductor of size - 6/1-4.09 mm (Raccon) complete	Km	₹ 77,065.00	Rupees Seventy-Seven Thousand and Sixty-Five Only	219635.25
D22	Providing and fixing Nut bolts, hardware and Sundries, etc	Set	₹ 15,000.00	Rupees Fifteen Thousand Only	45000.00
D23	Providing and fixing extendable/non-extendable outdoor type 11 kV 630A, load break isolator switch, etc complete	No	₹ 152,150.00	Rupees One Lakh and Fifty-Two Thousand and One Hundred and Fifty Only	152150.00
D24	Providing and fixing HT 11 kV 4 way feeder pillar.	Nos	₹ 82,500.00	Rupees Eighty-Two Thousand and Five Hundred Only	247500.00

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S. N	Item	Per	Rate	Rate in Words	Amount
D25	Providing and fixing HT 33 kV 4 way feeder pillar.	Nos	₹ 225,000.00	Rupees Two Lakhs and Twenty-Five Thousand Only	675000.00
D26	Providing and fixing 11 kV HRC fuse 63A for load break switch with necessary nut bolts complete.	Nos	₹ 6,077.00	Rupees Six Thousand and Seventy-Seven Only	18231.00
D27	Dismantling the existing pole above 6 m height with brackets, clamps, insulators, stay from the c.c. foundation	Nos	₹ 1,043.00	Rupees One Thousand and Forty-Three Only	46935.00
D28	Dismantling the existing overhead line including G.I. wires of all sizes without damaging & making the coils in suitable sizes.	Km	₹ 1,489.00	Rupees One Thousand and Four Hundred and Eighty-Nine Only	2531.30
D29	Dismantling the existing lightening arrestor set, insulator from DP structure complete.	Nos	₹ 108.00	Rupees One Hundred and Eight Only	1296.00
D30	Dismantling the existing DP, brackets, clamps, insulators, stay, transformer from the c.c. foundation and re erecting existing transformer	Nos	₹ 17,500.00	Rupees Seventeen Thousand and Five Hundred Only	35000.00
D31	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	Mtr	₹ 3,991.00	Rupees Three Thousand and Nine Hundred and Ninety-One Only	1237210.00
D32	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	Mtr	₹ 2,764.00	Rupees Two Thousand and Seven Hundred and Sixty-Four Only	843020.00
D33	Providing and laying XLPE insulated, galvanised steel formed wire armoured (strip) cable 11 kV (E), 3 x 185 sq. mm. aluminium conductor laid in provided trench / pipe	Mtr	₹ 2,008.00	Rupees Two Thousand and Eight Only	120480.00
D34	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	Mtr	₹ 1,354.00	Rupees One Thousand and Three Hundred and Fifty-Four Only	81240.00

S. N	Item	Per	Rate	Rate in Words	Amount
D35	Providing and fixing Heat shrinkable straight through joint kit for 3 x 300sq.mm 33Kv (E) XLPE HT cable etc complete	Nos	₹ 92,799.00	Rupees Ninety-Two Thousand and Seven Hundred and Ninety-Nine Only	278397.00
D36	Providing and fixing Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x300 sq. mm. with necessary material	Nos	₹ 29,627.00	Rupees Twenty-Nine Thousand and Six Hundred and Twenty-Seven Only	88881.00
D37	Providing and fixing Heat shrinkable straight through joint kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm. with necessary material	Nos	₹ 26,804.00	Rupees Twenty-Six Thousand and Eight Hundred and Four Only	53608.00
D38	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	Nos	₹ 22,307.00	Rupees Twenty-Two Thousand and Three Hundred and Seven Only	44614.00
D39	Providing and fixing Heat shrinkable outdoor termination kit for 33kV (E) XLPE HT cable 3x300 sq. mm. to 400 sq. mm. with necessary material	Nos	₹ 33,057.00	Rupees Thirty-Three Thousand and Fifty-Seven Only	198342.00
D40	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x300 sq. mm. with necessary material	Nos	₹ 14,682.00	Rupees Fourteen Thousand and Six Hundred and Eighty-Two Only	117456.00
D41	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x120 to 185 sq. mm. with necessary material	Nos	₹ 13,197.00	Rupees Thirteen Thousand and One Hundred and Ninety-Seven Only	39591.00
D42	Providing and fixing Heat shrinkable outdoor termination kit for 11 kV (E) XLPE HT cable 3x 95 sq. mm. with necessary material	Nos	₹ 13,964.00	Rupees Thirteen Thousand and Nine Hundred and Sixty-Four Only	41892.00
D43	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	Mtr	₹ 183.00	Rupees One Hundred and Eighty-Three Only	36600.00

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S. N	Item	Per	Rate	Rate in Words	Amount
D44	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 4 core 16 sq. mm. aluminium conductor complete	Mtr	₹ 215.00	Rupees Two Hundred and Fifteen Only	43000.00
D45	Providing and laying FR XLPE insulated, galvanised steel formed wire armoured (strip) cable, 1100 V 3½ core 185 sq. mm. aluminium conductor complete	Mtr	₹ 1,102.00	Rupees One Thousand and One Hundred and Two Only	1763200.00
D46	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 2.5 to 16 sq mm., with necessary material	Nos	₹ 2,075.00	Rupees Two Thousand and Seventy-Five Only	29050.00
D47	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 25 to 50 sq mm., with necessary material	Nos	₹ 2,773.00	Rupees Two Thousand and Seven Hundred and Seventy-Three Only	13865.00
D48	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 70 to 95 sq mm., with necessary material	Nos	₹ 3,838.00	Rupees Three Thousand and Eight Hundred and Thirty-Eight Only	19190.00
D49	Providing and fixing epoxy straight through joint outdoor/indoor for LT XLPE armoured cable 120 to 185 sq mm., with necessary material	Nos	₹ 4,014.00	Rupees Four Thousand and Fourteen Only	40140.00
D50	Providing and fixing G.I. pipe 'A' class 75 mm dia. for enclosing XLPE armoured cable on wall/pole	Mtr	₹ 674.00	Rupees Six Hundred and Seventy-Four Only	175240.00
D51	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.	Mtr	₹ 545.00	Rupees Five Hundred and Forty-Five Only	470880.00
D52	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	Mtr	₹ 219.00	Rupees Two Hundred and Nineteen Only	43800.00
D53	Providing and laying 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	Mtr	₹ 204.00	Rupees Two Hundred and Four Only	40800.00
D54	Providing and laying 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, complete.	Mtr	₹ 333.00	Rupees Three Hundred and Thirty-Three Only	532800.00

S. N	Item	Per	Rate	Rate in Words	Amount
D55	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.	Mtr	₹ 142.00	Rupees One Hundred and Forty-Two Only	14200.00
D56	Providing and fixing pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all accessories	Nos	₹ 1,537.00	Rupees One Thousand and Five Hundred and Thirty-Seven Only	76850.00
D57	Providing and fixing GI earth wire of high purity of different sizes used for earthing.	Kg	₹ 168.00	Rupees One Hundred and Sixty-Eight Only	63589.68
D58	Licencing work for line shifting Co-ordination with MSEDCL etc complete.	Job.	₹ 35,000.00	Rupees Thirty-Five Thousand Only	70000.00
D59	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	Nos	₹ 55,236.00	Rupees Fifty-Five Thousand and Two Hundred and Thirty-Six Only	441888.00
Total					11277377

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Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Schedule B-Quality Control(Part-E)

Quantity	Sr.No	Item in brief	Unit	Material	Standard Consumption	Utilised Quantity of Ingradients	Tests	Required Tests	Rate of Each Test	Amount of Q.C. Testing Charges
25.00	E1	Providing earthwork Departmental Land	Cubic Metre	Earth	1.00000	25.00	SOIL / MURUM Compaction Test (Proctor Density).	1	₹ 1,955.00	1955.00
					0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	1	₹ 2,730.00	2730.00
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test	1	₹ 1,230.00	1230.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	₹ 7,250.00	7250.00
1140.00	E2	Providing earthwork from Other sources.	Cubic Metre	Earth	1.00000	1140.00	SOIL / MURUM Compaction Test (Proctor Density).	1	₹ 1,955.00	1955.00
					0.0000	0.00	SOIL / MURUM C.B.R. test (Field determination test)	3	₹ 2,730.00	8190.00
					0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	1	₹ 1,230.00	1230.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	₹ 7,250.00	7250.00
2566.00	E3	Supplying Hard Murum	Cubic Metre		0.0000	0.00	SOIL / MURUM Sieve Analysis test.	7	₹ 725.00	5075.00
				Murum	1.0000	2566.00	SOIL / MURUM Liquid limit & plastic Limit test.	7	₹ 1,230.00	8610.00
							SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	₹ 7,250.00	7250.00
2566.00	E4	G.S.B. with Gr I close graded Material by Plant Mix Method.	Cubic Metre		0.0000	0.00	G.S.B. Mix Design test.	1	₹ 17,065.00	17065.00

					Cr.Metal	1.2800	3284.48	BASIC TEST OF AGGREGATE. Sieve Analysis test.	7	₹ 725.00	5075.00
						0.0000		SOIL / MURUM Liquid limit & plastic Limit test.	7	₹ 1,230.00	8610.00
								SOIL / MURUM Compaction Test (Proctor Density).	18	₹ 1,955.00	35190.00
								SOIL / MURUM C.B.R. Test (Lab) with compaction test.	1	₹ 7,250.00	7250.00
								SOIL / MURUM C.B.R. test (Field determination test)	33	₹ 2,730.00	90090.00
1914.50	E5	W.B.M. with Grading-I.Using Screening Type-A	Cubic Metre	Murum		0.08000	153.16	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	3	₹ 2,730.00	8190.00
				Cr.Metal		0.2700	516.92	BASIC TEST OF AGGREGATE. Sieve Analysis test.	12	₹ 725.00	8700.00
						0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	6	₹ 895.00	5370.00
				Metal		1.2100	2316.55	SOIL / MURUM Sieve Analysis test.	1	₹ 725.00	725.00
								SOIL / MURUM Liquid limit & plastic Limit test.	4	₹ 1,230.00	4920.00
1245.75	E6	W.B.M. with Grading-II.Using Screening Type-B.	Cubic Metre	Murum		0.08000	99.66	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	2	₹ 2,730.00	5460.00

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				Cr. Metal	0.2400	298.98	BASIC TEST OF AGGREGATE. Sieve Analysis test.	8	₹ 725.00	5800.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	4	₹ 895.00	3580.00
				Metal	1.2100	1507.36	SOIL / MURUM Sieve Analysis test.	1	₹ 725.00	725.00
							SOIL / MURUM Liquid limit & plastic Limit test	2	₹ 1,230.00	2460.00
25.00	E-7	Wet Mix Macadam	Cubic Metre		0.0000	0.00	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	₹ 2,730.00	2730.00
				Cr. Metal	1.2100	30.25	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
					0.0000		Wet Mix Macadam Mix Design test.	1	₹ 17,065.00	17065.00
							SOIL / MURUM Liquid limit & plastic Limit test.	1	₹ 1,230.00	1230.00
							SOIL / MURUM C.B.R. test (Field determination test)	1	₹ 2,730.00	2730.00

1894.50	E8	Providing and laying plain cement concrete Mix-15 grade leveling course below approach slab complete as per drawing and Technical specification, with fully automatic micro processor based Programmable Logic Controller with Supervisory Control and Data Acquisition enabled reversible drum type mixer/concrete batch mix plant (pan mixer) as per drawings and Technical specifications etc complete (VSI sand finely washed etc.)	Cubic Metre	Cement	0.33000	625.19	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	41	₹ 725.00	29725.00
				Sand	0.4500	852.53	BASIC TEST OF AGGREGATE. Sieve Analysis test.	9	₹ 725.00	6525.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	9	₹ 895.00	8055.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	1	₹ 1,450.00	1450.00
							BASIC TEST OF CEMENT. Standard Consistency Fineness, Specific Gravity, Setting Time (Initial & Final), Compressive Strength and Soundness test.	5	₹ 3,960.00	19800.00
1499.72	E9	Dry Lean Cement Concrete	Cubic Metre	Cement	0.22000	329.94	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	33	₹ 725.00	23925.00
				Sand	0.4700	704.87	BASIC TEST OF AGGREGATE. Sieve Analysis test.	8	₹ 725.00	5800.00
				F. C. RODRIGUES LLP 0.0000			BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	8	₹ 895.00	7160.00

31.05	E10	M-20 for R.C.C. beams and lintels with natural/ V.S.I. sand	Cubic Metre	Cement	0.35000	10.87	FINE AGGREGATES, Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	1	₹ 1,450.00	1450.00
				Sand	0.4250	13.20	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	4	₹ 725.00	2900.00
							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	₹ 1,450.00	1450.00
1.00	E11	TMT FE-500 bar reinforcement for R.C.C.	Metric Tonne	Steel	1.00000	1.00	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1	₹ 1,340.00	1340.00
					0.0000	0.00	STEEL BAR TESTING Above 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Re bend Test, Proof Stress).	1	₹ 1,675.00	1675.00

2270.27	E/2	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 millimetre at bottom and 40 millimetre at top with depth of 75 millimetre and maintaining the same throughout curing period/ by any	Cubic Metre	Cement	0.42500	964.86	CONCRETE Compressive Strength OF Cement Concrete Cube (Set of 3 cubes) test.	48	₹ 725.00	34800.00
				Cr.Metal	0.8500	1929.73	Concrete Mix Design (With all Tests on basic materials).	5	₹ 14,445.00	72225.00
				Sand	0.4000	908.11	BASIC TEST OF AGGREGATE. Sieve Analysis test.	10	₹ 725.00	7250.00
					0.0000		BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	10	₹ 895.00	8950.00
							FINE AGGREGATES. Fineness Modulus (Sieve Analysis), Silt & Clay Content test.	1	₹ 1,450.00	1450.00
							CONCRETE Flexural strength of Beam test.	32	₹ 780.00	24960.00
1938.33	E/3	Providing and fixing 12 mm dia. HYSD tie bars.	Number		0.0000	0.00	STEEL BAR TESTING Upto 16 mm (Set of 3 Bars)	1	₹ 1,340.00	1340.00
9472.50	E/4	Coloured Paving Blocks 60 mm thick.	Square Metre		0.0000	0.00	CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test (Set of 8 Blocks).	13	₹ 2,620.00	34060.00

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3157.50	E15	Providing and fixing heavy duty interlocking concrete Coloured paving blocks of 80 millimetre 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 millimetre thick including skirting joints and cleaning etc. complete	Square Metre		0.0000	0.00	CONCRETE PAVING BLOCKS Compressive Strength, Water Absorption test (Set of 8 Blocks).	5	₹ 2,620.00	13100.00
50.00	E16	75 mm M.P.M. on W.B.M. with 70% Hand Broken Metal.	Square Metre	Bitumen	0.00200	0.10	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity Impact Value Crushing Value test.	1	₹ 2,730.00	2730.00
				Cr. Metal	0.0450	2.25	BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	₹ 725.00	1450.00
				Metal	0.3630	3.15	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	₹ 895.00	895.00
							BASIC TEST OF AGGREGATE. Stripping Value test.	1	₹ 780.00	780.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	₹ 3,290.00	3290.00
							BITUMEN Viscosity test.	1	₹ 2,005.00	2005.00
15081.00	E17	75 mm M.P.M. on B.T. with 70% Hand Broken Metal.	Square Metre	Bitumen	0.00230	34.69	BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity Impact Value Crushing Value test.	1	₹ 2,730.00	2730.00
				Cr. Metal	0.0450	678.65	BASIC TEST OF AGGREGATE. Sieve Analysis test.	17	₹ 725.00	12325.00
				Metal	0.0630	950.10	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	9	₹ 895.00	8055.00
							BASIC TEST OF AGGREGATE. Stripping Value test.	1	₹ 780.00	780.00

									BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	4	₹ 3,290.00	13160.00
									BITUMEN Viscosity test.	4	₹ 2,005.00	8020.00
30162.00	E18	Tack Coat using Bitumen VG-30 at 2.50 Kg/10 Sq.m	Square Metre	Bitumen	0.00025	7.54			BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	₹ 3,290.00	3290.00
50.00	E19	B.M. Gr-1 with Batch Mix SCADA with 3.3% Bitumen VG-30.	Cubic Metre	Bitumen	0.07260	3.63			BITUMEN Viscosity test.	1	₹ 2,005.00	2005.00
									B.M. Job Mix Design with all Tests on aggregate (Excluding bitumen).	1	₹ 7,865.00	7865.00
				Cr. Metal	1.4100	70.50			BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	₹ 895.00	895.00
					0.0000				BASIC TEST OF AGGREGATE. Stripping Value test.	1	₹ 780.00	780.00
				Bituminous Mix	1.4100	70.50			BASIC TEST OF AGGREGATE. Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	₹ 2,730.00	2730.00
									Density test of Bituminous Core.	2	₹ 665.00	1330.00
									BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	₹ 3,290.00	3290.00
									BITUMEN Viscosity test.	1	₹ 2,005.00	2005.00
									BITUMEN Extraction Test.	2	₹ 1,675.00	3350.00
									BASIC TEST OF AGGREGATE. Sieve Analysis test.	2	₹ 725.00	1450.00
									Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	₹ 4,125.00	8250.00
50.00	E20	B.M. Gr-1 3.3% PLC Drum Mix SCADA. VTS, Sensor Paver with VG 30.	Cubic Metre	CR. METAL	1.4100	70.50			B.M. Job Mix Design with all Tests on aggregate (Excluding bitumen).	1	₹ 7,865.00	7865.00

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				Cr.Metal	1.4100	70.50	BASIC TEST OF AGGREGATE. Flakiness Index/ Elongation Index test.	1	₹ 895.00	895.00
					0.0000		BASIC TEST OF AGGREGATE, Stripping Value test.	1	₹ 780.00	780.00
				Bituminous Mix	1.4100	70.50	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	1	₹ 2,730.00	2730.00
							Density test of Bituminous Core.	2	₹ 665.00	1330.00
							BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	1	₹ 3,290.00	3290.00
							BITUMEN Viscosity test.	1	₹ 2,005.00	2005.00
							BITUMEN Extraction Test.	2	₹ 1,675.00	3350.00
							BASIC TEST OF AGGREGATE, Sieve Analysis test.	2	₹ 725.00	1450.00
							Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	₹ 4,125.00	8250.00
904.86	E-21	D F M Gr-I SCADA Batch Mix with VCI-30 and Stone Dust Filler.	Cubic Metre	Bitumen	0.10350	93.65	BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	4	₹ 2,730.00	10920.00
				Cr.Metal	1.5280	1382.63	BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	4	₹ 895.00	3580.00
					0.0000		Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	₹ 4,125.00	8250.00
							Density test of Bituminous Core.	26	₹ 665.00	17290.00
							Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/BC/SMA.	1	₹ 17,065.00	17065.00

										BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	10	₹ 3,290.00	32900.00
										BITUMEN Viscosity test.	10	₹ 2,005.00	20050.00
										BITUMEN Extraction Test.	5	₹ 1,675.00	8375.00
										Marshall Stability & Flow measurement test. (Set of 3 moulds).	5	₹ 1,170.00	5850.00
603.24	E22	B.C. Gr-I Drum Mix SCADA, VTS, Sensor Paverwith 5.4% VG 30.	Cubic Metre	Bitumen	0.12960	78.18				BASIC TEST OF AGGREGATE, Water Absorption, Specific Gravity, Impact Value Crushing Value test.	3	₹ 2,730.00	8190.00
				Cr.Metal	1.5720	948.29				BASIC TEST OF AGGREGATE, Flakiness Index/ Elongation Index test.	3	₹ 895.00	2685.00
					0.0000					Extraction & Sieve analysis of Bituminous mix (2 Samples of extraction for one sieve analysis including extraction for BM/DBM/BC)	2	₹ 4,125.00	8250.00
										Density test of Bituminous Core	18	₹ 665.00	11970.00
										Job Mix Design with all Tests on aggregate (Excluding bitumen) for DBM/SDBC/BC/SMA.	1	₹ 17,065.00	17065.00
										BITUMEN Penetration, Softening Point, Flash & Fire Point and Specific Gravity test.	8	₹ 3,290.00	26320.00
										BITUMEN Viscosity test.	8	₹ 2,005.00	16040.00
										BITUMEN Extraction Test.	4	₹ 1,675.00	6700.00
										Marshall Stability & Flow measurement test. (Set of 3 moulds).	4	₹ 1,170.00	4680.00
4153.60	E23	Road Marking with Hot Applied Thermoplastic Compound.	Square Metre		0.0000	0.00				PAINT / THERMO-PLASTIC PAINT Glass bead contents & grading analysis Test.	1	₹ 4,070.00	4070.00
					0.0000	0.00				PAINT / THERMO-PLASTIC PAINT Reflectance & yellowness index Test.	1	₹ 1,170.00	1170.00
					0.0000					PAINT / THERMO-PLASTIC PAINT Flowability (Percentage residue) Test.	1	₹ 1,170.00	1170.00
					0.0000					PAINT / THERMO-PLASTIC PAINT Softening Point (Ring & ball method) Test.	1	₹ 1,060.00	1060.00
		F.C. RODRIGUES LLP								PAINT / THERMO-PLASTIC PAINT Drying Time Test.	1	₹ 835.00	835.00
		DESIGN AND PARTNER								Total Quality Control Testing Charges			Rs.958,210.00

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

SCHEDULE - B-(F)

Item No	Quantity	Unit	Description	Rate in Fig.	Rate in Words	Unit	Amount
			D Royalty Charges				
F1			Royalty charges for murum dubber should be paid by the contractor regularly to the government and contractor should produce delivery challan, 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)				
	14646 7	Cubic Metre	for murum / Rubble / Metal	Rs. 216.18	Rupees One Thousand Two Hundred Sixty Three and Twenty Paise Only	Cubic Metre	3166317.38
	22 75	Cubic Metre	for sand	Rs. 237.37	Rupees One Thousand Two Hundred Sixty Three and Twenty Paise Only	Cubic Metre	5400.17
						Total	3,171,718

Name of Work:- Proposed Developing of Amrut Miravanuk Marg NMC, Nashik.

Sr. No.	Description	Amount	Rate in Words
A	Civil Work Cost	₹ 178,773,331	Rupees Seventeen Crores and Eighty-Seven Lakhs and Seventy-Three Thousand and Three Hundred and Thirty-One Only
B	Water Supply Cost	₹ 1,640,654	Rupees Sixteen Lakhs and Forty Thousand and Six Hundred and Fifty-four Only
C	Electrical SLCost	₹ 16,669,225	Rupees One Crore and Sixty-Six Lakhs and Sixty-Nine Thousand and Two Hundred and Twenty-Five Only
D	Electrical HT Cost	₹ 11,277,377	Rupees One Crore and Twelve Lakhs and Seventy-Seven Thousand and Three Hundred and Seventy-Seven Only
E	BASIC TOTAL COST OF BOQ A+B+C+D	₹ 208,360,587	Rupees Eighteen Crores and Four Lakhs and Thirteen Thousand and Nine Hundred and Eighty-Five Only
F	GST on Part A & Part B	₹ 32,474,517	Rupees Three Crores and Twenty-Four Lakhs and Seventy-Four Thousand and Five Hundred and Seventeen Only
G	GST on Part C & Part D	₹ 5,030,389	Rupees Three Crores and Twenty-Nine Lakhs and Seventy-Six Thousand and Nine Hundred and Ninety-One Only
H	PART E Quality Control Cost	₹ 958,210	Rupees Nine Lakhs and Fifty-Eight Thousand and Two Hundred and Ten Only
I	PART F- Royalty Cost	₹ 3,171,718	Rupees Thirty-One Lakh and Seventy-One Thousand and Seven Hundred and Eighteen Only
	TOTAL COST OF PROJECT E+ F+ G+ h +I	₹ 249,995,421	Rupees Twenty-Four Crores and Ninety-Nine Lakhs and Ninety-Five Thousand and Four Hundred and Twenty and One Paise Only

F. C. RODRIGUES LLP

F. C. Rodrigues
DESIGNATED PARTNER

