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List of Items with Technical Specifications of Laboratory consumables required for NTEP			
Sl. No.	**Name of the item**	**Technical Specifications**	**Rate inclusive of all Taxes**
1	Sputum container	Cups made of Special Medical Grade Polypropylene, thin plastic, translucent, Diameter - 4cm, Capacity - 30 ml, Srewable Cap should also be made of Special Medical Grade Polypropylene and should be air tight. Leak proof.	
2	Diamond marker pencil	6" (15.24 cm.) holder with artificial diamond (hard stone) embedded at one end with screw cap, to mark on microscope glass slides	
3	Grease marking pencil	Marking Pencil MPS, Blue or red coloured, 8" length, to write on glass ware / metal surfaces.	
4	Sulphuric acid	H2SO4, molecular wt. 98.08, Minimum Assay: 98%, colour: clear	
5	Basic Fuchsin	Chemical name :Pararosaniline hydrochloride, chemical structure: C20H20ClN3 mol wt:337.86'Dye content: Approx.85%-88%(dye content must be mentioned), Colour: Metallic green.	
6	Carbolic acid(phenol)	Chemical name: Phenol, Chemical structure: C6H5OH, Molecular wt:94.11, Melting point:40˚C + 2, Purity:99.5%	
7	Methylene blue	Chemical Name: Methylthionine chloride, Chemical Structure: C16H18ClN3S, molecular Wt: 319.9, Dye content: approx.82% (should be available on the container)	
8	Phenolic compound	Household disinfectant, containg phenolic compounds such as monochlorophenol, chloroxylenol, coal Tar Acid, Oils & Emulsifiers etc. The approximate content of phenolic compounds should be at least 40%.	
9	Alcohol (absolute)	Ethanol	
10	Methylated spirit	Chemical Name: Ethanol denatured + 5% lsopropyl alcohol + 5% Methanol, Molecular structure: C2H5OH, Molecular wt: 46.07, Purity: 90%	
11	Broom sticks	Material: wooden, wooden type: bamboo, No. of sticks: 100/pack	
12	Phenol liquid	40% active phenol(carbolic acid)in stable aqueous solution, often appearing colourless to slightly yellowish. Used for: disinfectant	

13	Slide box	Material: polypropylene, thickness:1.35mm, dimention: 75mm*25mm**1.35mm, Size: 100slides	
14	Slide box	Material: polypropylene, thickness:1.35mm, dimention:11mm*10mm*3mm, Size: 50 slides	
15	Liquid paraffin oil	**Appearance:** Colourless to light yellow, transparent, almost odourless when cold; may emit a very faint petroleum odour when heated , **Purity:** Produced from highly refined hydro-cracked or hydro-treated base oils to ensure high purity **Biological Stability:** Generally biologically stable with no pathogenic bacteria tolerance **Hydrocarbon Type:** Consists mainly of saturated and alicyclic non-polar hydrocarbons; free from aromatic hydrocarbons Dynamic Viscosity at 20 °C: 110–230 mPa·s , Kinematic Viscosity: 34.5–150 cSt , Specific Gravity / Relative Density: 0.827–0.890 at 25 °C,	
16	Lens paper	Packing size: 100 leaves, packing type: book, material: paper, size: 10cm*15cm.	
17	Filter paper	Colour: white, type: qualitative, brand: whatmen, material: glass fibre, thickness: 0.35 to 0.5mm.	
18	Glass rod for staining	Colour: transparent, material: glass, size: 4 inch.	
19	Slide stand	Material: alluminium, square bar s.s.rod with acrylic base, square bar round rod with base(stainless steel), dimention: 35cm*65cm length.	
20	Glass funnel	Material: borosilicate glass, mouth diameter: 250mm, colour: transparent, shape: conical.	
21	Plastic can	Capacity:1 litre, material: plastic.	
22	Dropping bottle	Bottle size: 125ml, material: plastic.	
23	Apron	Material: cotton, size:M,L,XL and XXL.	
24	Forceps	Material: stainless steel, tip style: toothed, non sterile, length 6’’.	
25	Foot operated dustbin	Material: plastic, capacity: 10L, shape: rectangular.	
26	Spirit lamp	Material: stainless steel,glass, capacity: 120ccm, shape: hexagonal.	
27	Flat bottom flask	Size: 5 lit, glass type: borosilicate, neck type: narrow, No stopper.	
28	Flat bottom flask	Size: 3 lit, glass type: borosilicate, neck type: narrow, No stopper.	
29	Amber coloured bottle	Capacity: 100 ml, shape: round, cap type: screw.	
30	Amber coloured bottle	Capacity: 500ml, shape: round, cap type: screw.	

31	Amber coloured bottle	Capacity: 1000 ml, shape: round, cap type: screw.	
32	Measuring cylinder	Capacity: 100ml, shape: cylindrical, material: borosilicate.	
33	Measuring cylinder	Capacity: 500ml, shape: cylindrical, material: borosilicate	
34	Measuring cylinder	Capacity: 1000ml, shape: cylindrical, material: borosilicate	
35	Measuring cylinder	Capacity: 100,500,1000ml, shape: cylindrical, material: plastic	
36	Conical flask	Capacity: 500ml, mouth type: narrow, colour: transparent.	
37	Conical flask	Capacity: 1000ml, mouth type: narrow, colour: transparent.	
38	pipette	Glass type: borosilicate, colour: transparent, size: 5ml.	
39	pipette	Glass type: borosilicate, colour: transparent, size: 10ml.	
40	Silica gel	Silica gel is composed of silicon dioxide (SiO_2) in an amorphous form. **Physical Appearance**: It is typically found as hard, translucent beads or granules, with an average pore diameter ranging from **2.0 to 4.0 mm**. **Surface Area**: Silica gel has a high specific surface area, approximately **750–800 m²/g**, allowing it to adsorb moisture effectively. **Moisture Adsorption**: It can adsorb up to **37% of its weight** in moisture in high-humidity environments and can be regenerated by heating at about **120 °C (248 °F)** for 1-2 hours.	
41	Scissors	Material: stainless steel, size: 5,10 inch, handle material: rubber,steel.	
42	Auramine O	**Auramine O** is a fluorescent dye used primarily for staining acid-fast bacteria. Here are some key specifications: • **Molecular Formula**: $C_{17}H_{21}N_3Cl$ • **Molecular Weight**: 303.8 g/mol • **Appearance**: Yellow powder with an orange-brown cast • **Absorption Spectrum**: λexc = 438 nm (water); λem = 505 nm • **Solubility**: Insoluble in water, but soluble in ethanol • **Uses**: Commonly used in microbiology for identifying Mycobacterium tuberculosis and as a fluorescent stain in various biological studies.	
43	Ethanol	**Ethanol (C_2H_5OH) is a colorless, volatile, and flammable liquid with a range of important chemical and physical properties.**	

		Basic Information • **Chemical Formula**: C2H5OH or CH3CH2OH • **Molecular Weight**: 46.07 g/mol • **Appearance**: Colorless liquid with a characteristic o dor • **Boiling Point**: 78.5 °C (173.3 °F) • **Melting Point**: -114.1 °C (-173.4 °F) • **Density**: Approximately 789 g/L at 20 °C (68 °F)	
44	Conc.HCL	The **specifications for hydrochloric acid (HCl)** include : • **Composition**: Hydrochloric acid contains not less th an 36.5% and not more than 38.0% of HCl by weigh t. **Chemical Properties**: It should show properties s uch as total acidity, residue on ignition, and the pres ence of sulfates and iron. **Safety Standards**: It is cla ssified as a hazardous chemical, and safety aspects a re covered in IS 6164:1971. **Applications**: HCl is wi dely used in various applications, including acidifica tion, chemical synthesis, and cleaning processes.	
45	Oxalic acid	**Oxalic acid, with the chemical formula $H_2C_2O_4$, is a str ong dicarboxylic acid known for its various applicati ons in cleaning, metal treatment, and as a reducing a gent.** **Chemical Properties** • **Molecular Formula**: $H_2C_2O_4$ or $(COO.H)_2$ • **Molecular Weight**: 90.03 g/mol **Melting Point**: 101.7 °C (decomposes) for the dihydrate; 19 0 °C for the anhydrous form. **Boiling Point**: 157 °C (decom poses). **Density**: 1.90 g/cm³. **Solubility**: Soluble in water, et hanol; slightly soluble in ether; insoluble in benzene and chl oroform.	
46	Falcon tube	Capacity: 50ml, **Material**: High clarity polypropylene (PP) with a 16 ,000 RCF rating. **Dimensions**: Approximately 30mm O.D. and 115m m length.	
47	Zip lock bags	• **Material**: Typically made from **polyethylene (PE)** or **polypropylene (PP)**, which are durable and resist ant to moisture and chemicals. • Size:5*7 inch, **Features**: They are designed with a **zip-lock closure**, providing a secure seal for storing and transporting items	
48	Rubber band	Material: nylon, size: 0.5 to 4 inches, packing size: 500gm.	

49	Brown tape	Material: biaxially oriented polypropylene, tape width: 3,4 inches, tape type: adhesive.	
50	Parafilm tape	Size:4*125 inch, colour: white, roll length: 125 feet, material: polyolefins.	
51	Spray bottle	Material: plastic, cap type: spray, capacity: 500ml.	
52	Napkin	Material type: cotton.	
53	Thermacol box	Capacity: 2.5L to 20L, colour: white, material: normal EPS, thickness: 30mm, shape: rectangular, feature: high durability, light weight, rigid, thermal insulation property.	
54	Card sheet paper	Regular.	
55	Surgical mask	Size:17.5*9.5cm, type: Sub-micron, earloop type, material: three ply, pp Non-woven, surface: anti wet, filtration efficiency: 98.5%.	
56	Carrier for sputum container	Quantity per pack: 6*6, shape: round, material: plastic, package type: box.	
57	Carrier for falcon tube	50ml falcon tube rack, material: plastic.	

General requirements:-

All the chemicals should have the Hazard Communication Standard from Chemical manufacturers and Material Safety Data Sheets (MSDS) for each chemical item should be provided to the purchaser of the product at the time of the order and thereafter, anytime the MSDS is significantly revised. Also, all the chemicals should have their detailed specifications, potency, date of manufacture, date of expiry, batch no. and precautions for use mentioned on the containers.

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