

e-Tender Document for

Supply and Installation of *Lab Table & Fume Hood*

at

CIPET:SARP- LARPM, Bhubaneswar



TENDER DOCUMENT NO. 06/2019-20

CIPET सि पेट
LAST DATE FOR SUBMISSION OF BID: 13.03.2020

**SCHOOL FOR ADVANCED RESEARCH IN POLYMERS (SARP) - LARPM
CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY
(Ministry of Chemicals & Fertilizer, Govt. of India)
B-25, C.N.I. Complex, Patia, Bhubaneswar – 751 024 (Odisha)
Tel: 0674-2740173, Fax : 0674-2740463,
Web: cipet.gov.in, e-mail : larpmcipet@larpm.in**



SCHOOL FOR ADVANCED RESEARCH IN POLYMERS (SARP) - LARPM
CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY
(Dept. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizer, Govt. of India)
B-25, C.N.I. Complex, Patia, Bhubaneswar – 751 024 (Odisha)
Tel: 2740173, Fax : 0674-2740463
Email : larpmcipet@larpm.in



e-TENDER NOTICE (06/2019-20)

CIPET:SARP-LARPM invites bids through e-Tender **UNDER SINGLE STAGE TWO BID SYSTEM IN e-TENDER PORTAL (www.tenderwizard.com/CIPET)** from reputed Manufacturers/authorized suppliers & distributors having valid PAN, IT Return & GST Registration Certificate for **“Supply and installation of Lab Table & Fume Hood”** at CIPET:SARP-LARPM, Bhubaneswar. Bid offers should be of two parts viz., Technical Bid & Commercial Bid.

Sl. No	Description	EMD in ` (Refundable)	Tender Fees in ` (Non-refundable)
01.	Supply and installation of Lab Table & Fume Hood at CIPET:SARP-LARPM, Bhubaneswar	45,000.00	2,500.00 + GST @ 18%

Please visit our website for downloading our bid documents, technical specification and other terms & conditions. The last date for submission of the bid is as mentioned below:

Last date for issue of tender in the portal : 13.03.2020 Time ----- 03:00 PM

Last date of submission of Tender in the portal : 13.03.2020 Time ----- 03:10 PM

Date of Opening of Tender : 13.03.2020 Time ----- 03.30 PM

The Tender documents can be downloaded from our official website of CIPET:SARP-LARPM (www.cipet.gov.in). The amounts towards Tender fee and EMD should be submitted separately in the form of Demand Draft drawn in any nationalized bank in favour of **“CIPET LARPM, Bhubaneswar A/c/ No. 34640722811”** (State Bank of India) payable at **Bhubaneswar. Bids without Tender fee and EMD will not be accepted.** The undersigned reserves the right to accept/reject any or all Tenders without assigning any reason thereof. No claims whatsoever shall be entertained for the loss/damage suffered by the parties/bidders on account of such rejection.

Officer (PAF), CIPET:SARP-LARPM

1. Eligible Criteria for Bidders :

- Average Annual Turn Over during last 3 financial years should be minimum amount of ₹ 200 lakhs.
- Audited Balance sheet for the last 3 years
- Up-to-date IT Return for the last 3 years, PAN Card & GST Registration Certificate, GSTR, -1 & GSTR-3B for last 3 months.
- Valid Bank Solvency Certificate for an amount of ₹ 30.00 Lakhs.
- The Bidders must possess the following certifications :
 - (i) ISO 9001 : 2015
 - (ii) ISO : 18001 – 2007
 - (iii) ISO 14001 : 2015
 - (iv) ISO : 15001 -2011
- The Bidders must have satisfactorily supplied & completed installation of atleast 02 nos. of similar types of work as mentioned in the Tender specification in any Govt. Organisations/PSU/Corporate sector during the last 5 years. The Certificate in support of that from the user must be attached.
- Self declaration on **NO PENDING LITIGATION.**
- The gross annual turnover certificate should be submitted separately & duly certified by the Chartered Accountant. Year in which no turnover is shown would also be considered for working out the average.
- All Bids should be accompanied by the Bid document fee & EMD for the requisite amount without which the financial bid of the bidders shall not be opened & will be outrightly rejected.
- The Bidders must have Office in Odisha with proper evidence for faster & better serviceability.
- The Bidders shall give a list of his relatives working with the CIPET along with their designations and addresses.
- The Bidder either be an Original Equipment Manufacturer (OEM) for the equipments quoted in this tender or their authorised representative.
- The Bidder must be in possession of valid trade license from appropriate authority for carrying on business/establishment etc. The documents must be enclosed.
- The quoted product should not be under end of sales or end of support in next 5 years from the date of submission.

TERMS & CONDITIONS :

- **Earnest Money Deposit :**

Earnest money deposit shall be ` 45,000/- (Rupees Forty Five Thousand only) through Demand Draft drawn in any nationalized bank in favour of “CIPET LARPM Bhubaneswar A/c No. 34640722811” (State Bank of India) payable at Bhubaneswar.

- The EMD of the unsuccessful Bidders will be return back after finalization of e-Tender.
- The cost of the tender document of ` 2,500/- (Rupees Two Thousand Five Hundred only) + GST @ 18% is to be paid by Demand Draft drawn in any nationalized bank in favour of “CIPET LARPM Bhubaneswar A/c No. 34640722811” (State Bank of India) payable at Bhubaneswar which is non-refundable.
- **Taxes :** All taxes, duties, packing & forwarding, installation and any other charges other than GST shall be deemed to have been included in the quoted rate.
- **Performance Security :** 10% of the Purchase Order value shall be submitted by the party towards performance security within 7 days of receipt of Purchase Order in the form of Demand Draft. 50% towards Performance Security will be refunded after successful supply & installation and the remaining 50% after warranty period is over.
- **Warranty :** All the items should be covered under warranty from the date of installation.
- **Deviation :** Technical specifications are firm and no deviation of any kind is acceptable.
- **Period of supply & installation:** 40 days from the date of issue of Purchase Order, failing which liquidated damage @ 0.5% per week shall be deducted from the final payment, for each week of delay beyond the delivery period upto maximum of 2%.
- **Payment :** 100% payment will be made within 7 days after successful supply & installation of the Lab Table & Fume Hood as per our Technical Specifications & subject to fulfilment of other terms & conditions of the e-Tender document.
- The Bidders are required to have a survey including the site visit before furnishing the e-Tender.

Technical Specifications for Supply and Installation of Lab Table & Fume Hood at CIPET:SARP-LARPM, Bhubaneswar

Storages:

- Storages should be placed in the work place as per the convenience of the user and utility. Storages should be made of 18 mm PLB. The storages are normally on levelers. Provided with suitable handles and locking arrangement. The shelves inside will be adjustable. The number of shelves will depend upon the height of the storage and its utilization by the client. The shelves will also be 18 mm PLT. These shelves should be designed to take a load of approx 25 Kg., 25 mm thick shelves. The finish inside will be white laminate. Painted shutters can be offered at extra cost. The storages are different types:
- Height -2100mm.
- Length – 1000 mm.
- Depth- 450-mm.
- Shutters- sliding or hinged. Sliding is recommended to give better comfort while opening if placed on the return table in cabin furniture. For sliding shutters, the length of the storage should be minimum 900 mm.

The top will be 25 mm PLB to be used as a return table in cabin arrangement.

LAB TABLE-

All Frames assemblies should be manufactured from standard hollow metal sections; confirming to I.S. Code 7138:1973 (Indian Standard specification for steel tubes for furniture) and all sheet metal components should be of CRCA confirming to IS Code 513:1994.

frame should be constructed from a rectangular pipe with a cross section of 60mm x 30mm and should be 2 mm. The frame legs should be supplied with adjustable feet (tolerance from -5mm to +20mm) to correct the unevenness of flooring.

The frame shall also have skirting at back bottom side. It should be suitable for sitting and standing nominal heights of 750mm & 900mm respectively. The nominal table depths should be 900 mm for wall side and 1500mm for Island tables. All frame-work is should be pre-treated with superior pure epoxy powder coated finish. Island tables should have racks Designed with 1.2 mm thick Ms, CRC sheet with 17mm thick pre-laminated board duly edge banded with 0.8mm thick PVC lipping, rack used two shelves with both side working

ELECTRICAL TRUNKING

Used for housing electrical switches and sockets, data and voice points, its top panel, bottom panel of the trunking should be made from 1.0 mm thick CRCA MS panel. It should be available in both, single sided and double sided configurations. It should be made from CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope .having two set of 16/6 AP switch & sockets of KONA/NORTH WEST/ROMA(ANCHOR) at a interval maximum 1.2 metre

LABORATORY SINK AND ACCESSORIES

Polypropylene Molded Sinks: Made up of 5 mm thick high density and elastic poly propylene

with good resistance to organic solvents. Standard bowl size (L x W x D) is 500 x 400 x 300 mm. Faucet should be 1-way type faucet of approved make

WORKTOP

It should be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop should be chamfered and smoothed. The bottom of the worktop should be polished and there should be a V-groove throughout the length of the exposed edges to protect the cabinets from coming in contact with the spillages. The overhang on the storage cabinet is 25 mm at the front side and 30 mm at the sides. The backing material used is a neoprene mat of 6 mm thickness.

FUME HOODS

Superstructure Frame – It should be a free-standing rigid panel structure of steel (G.I.)

Interior Walls - Double wall ends, not more than 6” wide, should be provided to maximize interior working area. The area between the double wall ends should be closed to house the remote control valves. Cut-outs should be provided inside the fume hood for service line accessibility. The same to have a cover with a fastener free design. The vertical fascias shall contain the required service controls, electrical switches and receptacles.

Airfoil - A streamlined airfoil should be integral at the bottom of the hood opening on bench and distillation hoods. This foil shall provide a nominal 20mm open space between the foil and the top front edge of the work surface to direct an air stream across the work surface to prevent back flow of air. The sash should be provided with a separate handle which also provides for air flow when in completely closed position. The foil should be of 1.2mm steel to resist denting and flexing.

Baffles - A stable, non-adjustable baffle with a single slot on the back baffle to aid in distributing the flow of air into and through the hood. The baffle should be spaced out from the back liner and should be removable for cleaning.

Duct Collar - A 8”-10” diameter polyethylene funnel shaped rectangular duct collar should be located in the top of the hood plenum chamber.

Lighting- Two CFL tubes of 40 watts each should be provided in the fume hood. The lighting fixture should be completely outside the fume hood area.

Sash - A combination sash should be provided. The sash should have horizontal sliding glass panels in a vertical rising steel frame. The bottom of the sash frame should have a full length metal handle. The sash track has minimum protrusion to avoid any kind of turbulence. The sash should be counterbalanced with a weights to prevent tilting and binding during operation. The glass panels should be 5mm toughened glass mounted in an levelled channel with roller for smooth operation.

Plumbing Services - Utility services like Vacuum, Nitrogen, Compressed Air & Raw water (as per Schedule of Quantity) shall consist of remote control valves as selected located within the end panels, controlled by in and out facility with flexible hose passing through the side panels of the hood, with color coded plastic handles. Interior fitting for gases and water should be with powder coated brass. All gas valves for regular lab gases to have standard needle valve and push and turn type arrangement for all burning gases should be supplied. All supplied valves to clear the following pressure test conditions: Gas Fittings – 7 bar, Water fittings – 10 bar.

Electrical Services – The hood superstructure should be fully wired and should have a control box with MCB blower starter all safety devices like trip etc. Inlet should be of 3 phase power supply and the whole electrical should be of plug and play type. It also has 4 nos. electrical sockets and switches of Northwest make (230V, 5/16 A, 50 Hz)

Liner – Interior liner panels should be 6 mm thick Phenol resin based industrial laminate.

Lattice Rod Assemblies - 12mm dia solid SS rods should be clamped with the PP clamps to form a lattice arrangement to hold the test samples and rotors within the fume hood.

Centrifugal Blower – Silenhigh efficiency remote blower consisting of continuous rating motor and chemical resistant impellar. The blower should be designed to give a face velocity at safe working height as per the international safe velocity norms. (ANSI/AIHA Z9.5). The blower body should be polypropylene UV treated, high density and chemical (corrosion) resistant and mounted on a metallic stand.

Ducting – Rigid Ducting of PP (Polypropylene) + FRP (Fibre Reinforced Polyester) and flexible ducting with flanges, bends, damper transitions, clamps etc. Flexible joint should be provided in the ducting in order to avoid transmitting the blower vibrations to the hood. A weather proof rain cowl is provided at the outlet of blower.

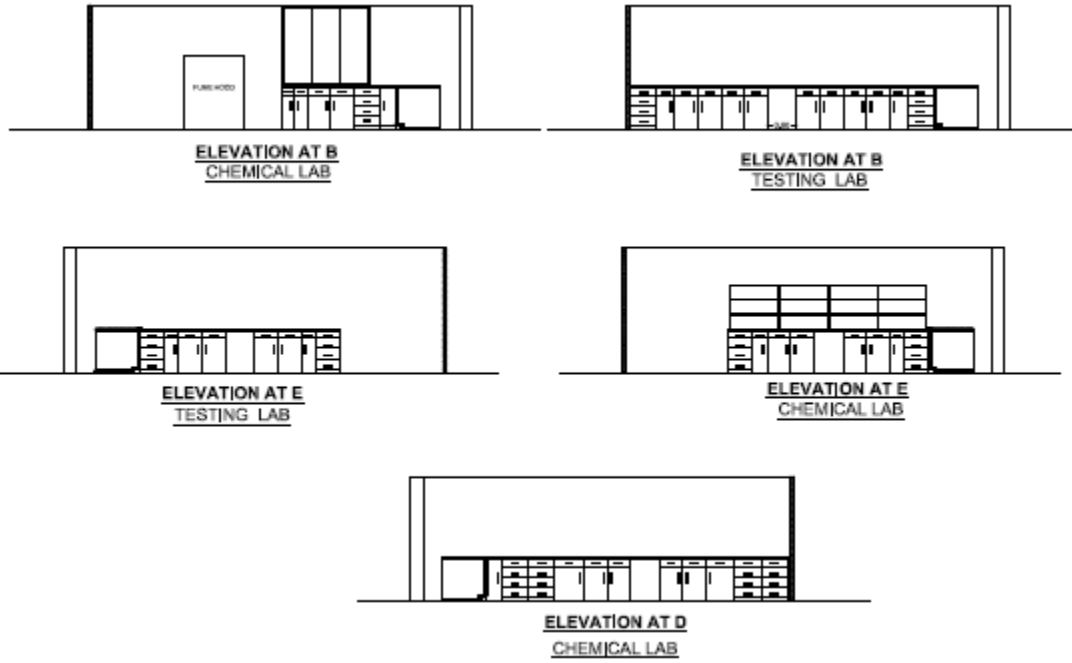
Base Cabinets – Fume hoods are designed to rest on a bench (high base stand, pedestal or a cabinet) which is a complete rigid steel structure. Gauge of steel used in its construction should be 0.8 mm GI for apparatus storages. An FRV mould should be inserted inside the cabinet wherever acid storages are required (as per BOQ requirement).

Ceiling Enclosures - Use to enclose space between front top and ceiling of Concept fume hood superstructure also provides enclosure for raised sash.

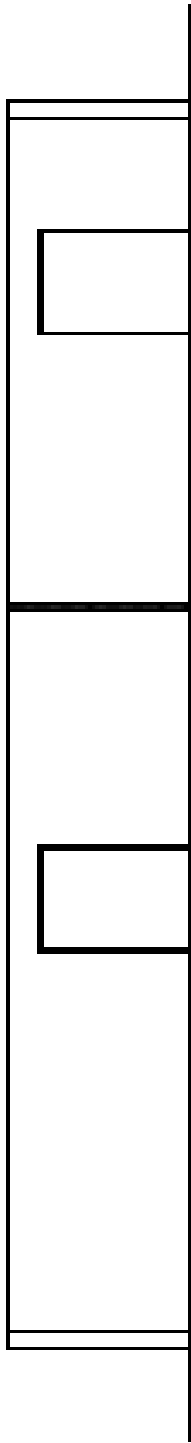
Transition – Used to connect fume hood with ducting. They are designed to reduce the static pressure and are made up of Poly-propylene of 6 mm thickness.

Work Surface – Standard hood work surface should be 18mm thick jet black granite made in the form of a watertight pan, not less than 7 mm deep to contain spillage. Worktop will have oval shaped 102 mm X 175 mm 'PP' Cup-Sink for drainage. Top should be manufactured at the same manufacturing location as the fume hood to assure proper cut-out alignment and coordinated shipping. The work surface and cup drain should be available in black.

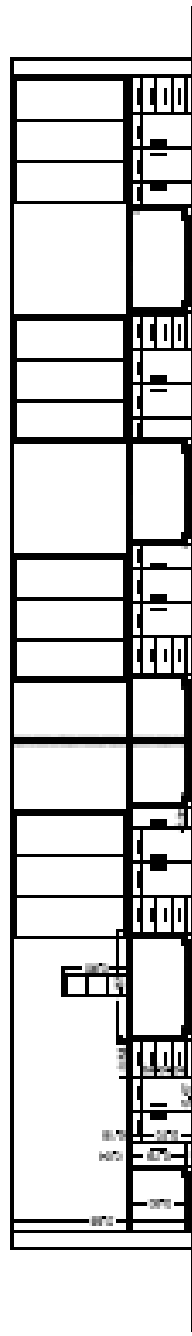
BOQ for supply & installation of Lab Table & Fume Hood at CIPET:SARP-LARPM, Bhubaneswar					
SI No.	Description of Item	Qty	Unit	Rate	Amount
1	STORAGE UNIT				
	The overall size shall be 2100(H) x 1000(W) x 450(D). It shall be completed as per Drawing and specification with all required fittings and locking facility .	5.00	NOS		
2	LAB CHAIR				
	Providing and placing low Back revolving laboratory Chair with Leatherite Upholsted cushioned Seatswithout armrest, multilock mechanism facility of lever to make it up/down, complete As per the direction of Engineer-in Charge	8.00	NOS		
3	LAB TABLE				
i)	Supply and Installation of Laboratory Workbenches 900mm top and 900 mm high as per design including granite worktops and other supporting structures/ hardware , electrical trunking based on the specified Make List. This includes delivery, unloading the consignment and transporting it from the place of storage to the installation site. This should be complete in all respect as per the detailed specification.Fitting of sink is required as per drawing.	24.70	RMT		
ii)	Supply and Installation of Laboratory Workbenches island type with storage units in the middle including electrical raceway and size 1500mm top and 900 mm high as per design including granite worktops and other supporting structures/ hardware, electrical trunking based on the specified Make List. This includes delivery, unloading the consignment and transporting it from the place of storage to the installation site. This should be complete in all respect as per the detailed specification. Fitting of sink is required as per drawing.	5.01	RMT		
iii)	Supply and Installation of Laboratory Workbenches island type without storage units including electrical raceway in the middle and size 1500mm top and 900 mm high as per design including granite worktops and other supporting structures/ hardware, electrical trunking based on the specified Make List. This includes delivery, unloading the consignment and transporting it from the place of storage to the installation site. This should be complete in all respect as per the detailed specification. Fitting of sink is required as per drawing.	10.02	RMT		
4	FUME HOOD				
	Supply and Installation of fume hoods (1500 mm length) along with all accessories like service outlets / fittings, electrical switches as per the specified make list. The fume hoods price should include all exhaust blowers as per spec.	1.00	NOS		
5	Architectural layout of the laboratory (Anneuxre – I)				
6	Approve Make (Annexure – II)				



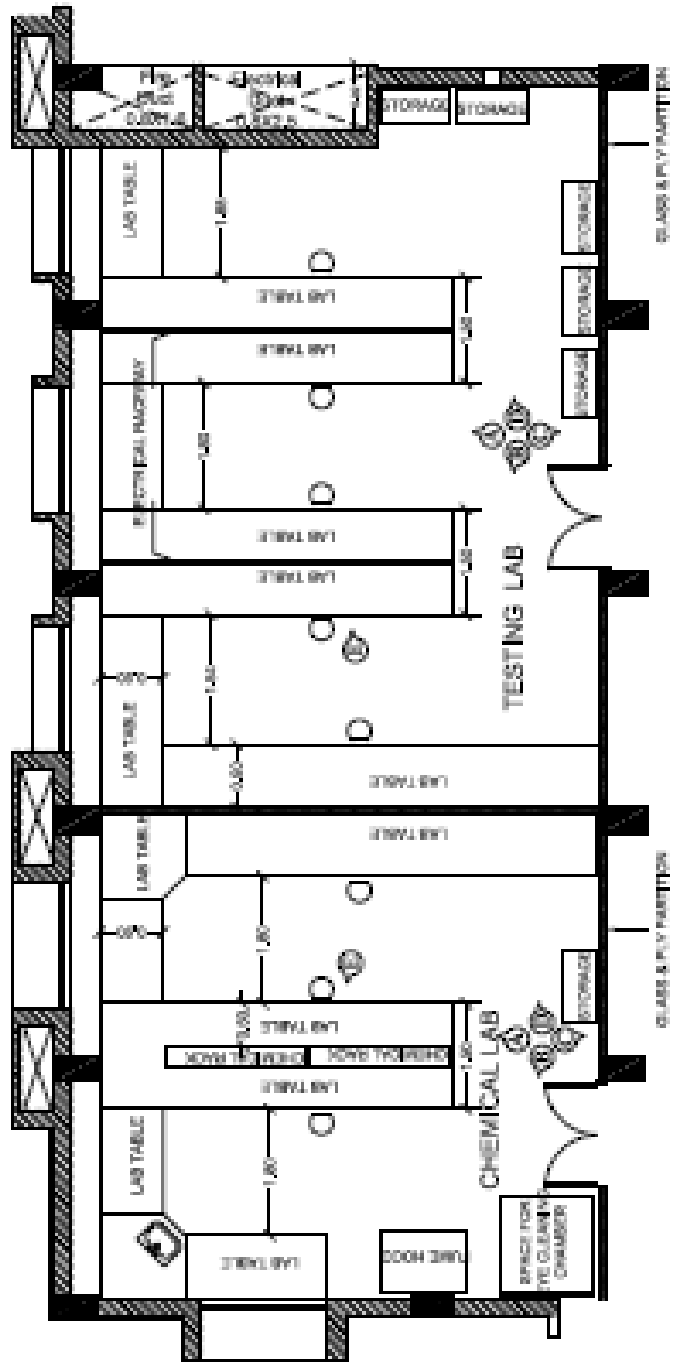
CIPET सिपेट
probe • perform • practice • Plastics



ELEVATION AT C



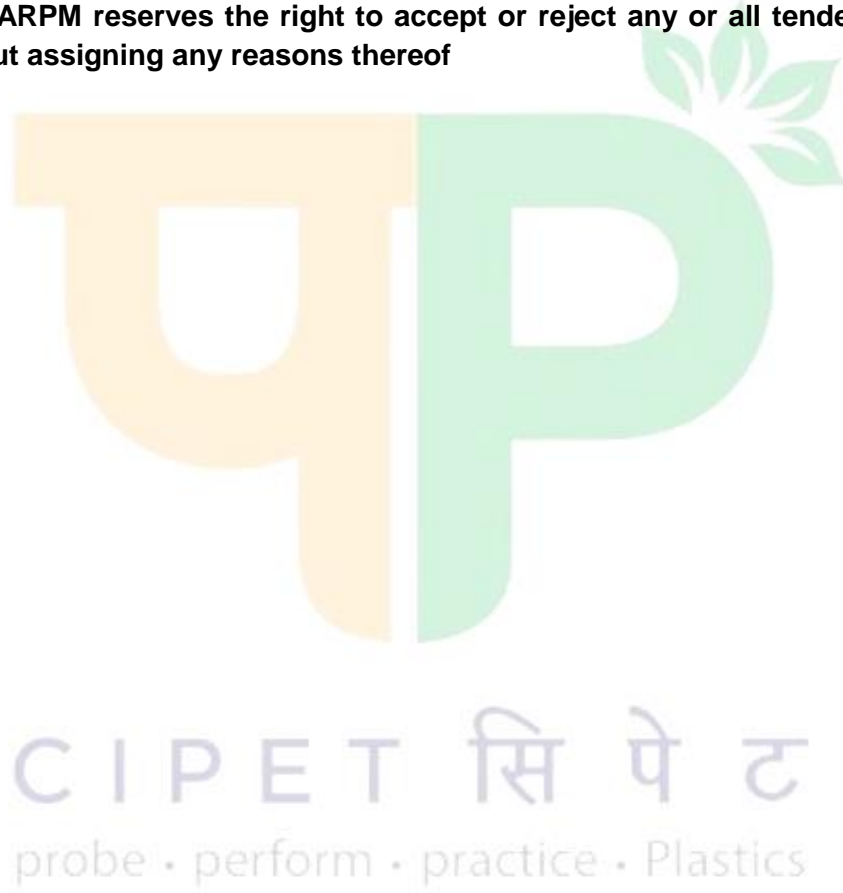
ELEVATION AT A



Note :- Further if any e-Tender queries please contact the following officials of etenderwizard:

Sl. No.	Name of the Official	Contact Number	e-mail ID
01.	Mr. S.K. Mohapatra	7377708585	twhelpdesk404@gmail.com
02.	Mr. Swades Kumar Bal	7008064095	twhelpdesk404@gmail.com

CIPET:SARP-LARPM reserves the right to accept or reject any or all tenders either in part or in full without assigning any reasons thereof



APPROVED MAKE

Sl. No	Description	Approved Make
01	Steel	TATA STEEL
02	Powder Coating	NEROLAC
03	Laboratory Furniture	GODREJ/METHODEX/FISHER HAMILTON OR EQUIVALENT
04	Water Faucets and Gas Valves	WATERSAVER/EQUIVALENT
05	Eye Wash and Body Shower	WATERSAVER/EQUIVALENT
06	Laboratory Sinks	HINDWARE/DIAMOND/KK LAB
07	Switches and Sockets	NORTHWEST/EQUIVALENT
08	Data and Voice Sockets	NORTHWEST/EQUIVALENT
09	Hinges	HAFFLE/DARSHANA/EQUIVALENT
10	Legs	HETTICH/EQUIVALENT
11	Skirting	REHAU/EQUIVALENT
12	Locks and Double Extension Ball Slides	GODREJ/Hettich/EQUIVALENT
13	Exhaust Blower	ALMONARD/SEAT/COLASIT/EQUIVA LENT
14	Safety Storage Cabinets	JUSTRITE/ASECOS/EQUIVALENT
15	Biosafety Cabinets and Laminar Air Flow Cabinet	ESCO/EQUIVALENT
16	Key Board Pullout Tray	EBCO/EQUIVALENT
17	Worktops (Non-Granite)	TRESPA/DURCON/MAICA

probe · perform · practice · Plastics