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ಮಂತ್ರಾಲಯ ರಸ್ತೆ, ಯರಗೇರಾ, ರಾಯಚೂರು - 584 133

Adikavi Shri Maharshi Valmiki University Raichur

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Ref No: RUR/ADM/TENDER/2025-26/KKRDB34/QUOTE/96

Date: 23-04-2025

CALL FOR EOI NOTIFICATION FOR RATE ARRIVAL

Sub: Request for providing rates for Supply/ Installation/ Implementation of different KKRDB funded projects on Turn key basis.

Ref: Approval of the Vice Chancellor Dated: 23.04.2025

With reference to the above cited subject and reference, kindly go through the following details & arrange to provide market price for procurement of items mentioned in the attachments for the Supply and Installations, as per requirements, on a turnkey basis. To do a system study the company or the firm or the concerned person is free to visit the site at their own cost to have a complete understanding and do a system study of the site Further its requested to provide detailed drawings/ plans/ Ideas etc. if required along with the changes if any and suggestions in the quotations.

The quotation shall be sealed and Superscripted as "Quotations for TENDER/2025-26/KKRDB34/1/2/3/4" and sent to the office of 'The Registrar (Tender Section), Adikavi Sri Maharshi Valmiki University, Raichur, Yeragera - 584133,'

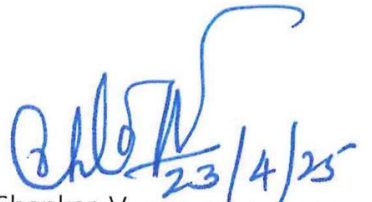
Last date for submission of quotation is 03.05.2025, 1.30PM, A softcopy to email and hardcopy should be submitted in office. The details are available in the webpages of raichuruniversity.ac.in email us at registrarrur@gmail.com for further clarifications If any.

List of works:

1. Centre of Excellence in Artificial Intelligence at Raichur University
2. Purchase and Installation of Laboratory equipment for PG students at Raichur University
3. Creation of Sports facility at Raichur University.
4. Establishment of science block (completion of ground floor and first floor) on turn key

Note:

1. If any changes in the Quotation/ tender it will be published in portal only.
2. The quantity of items will be variable as per the requirements.
3. The purchases will be made under the provision of the KTPP Act 1999 statute 2000.
4. The quotation should be submitted in a sealed cover to, The Registrar(Tender Section)ASM Valmiki University, Raichur-584133.
5. Quote your GST Number.


23/4/25
Dr. Shankar. V., (K.A.S., Selection Grade)

Registrar
Adikavi Shri Maharshi Valmiki University,
Raichur
Registrar Raichur

Copy to:

1. The Raichur University Notice Board,
2. University Website,
3. News Paper.
4. Office copy.

"Quotations for TENDER/2025-26/KKRDB34/4" and sent to the office of 'The Registrar (Tender Section), Adikavi Sri Maharshi Valmiki University, Raichur, Yeragera – 584133,'

WORK NAME 4. ESTABLISHMENT OF SCIENCE BLOCK
(COMPLETION OF GROUND FLOOR AND FIRST
FLOOR) ON TURN KEY BASIS

Last date for submission of quotation is 03.05.2025,
1.30PM,

A softcopy to email (registrarrur@gmail.com) and
hardcopy should be submitted in office.

Sl. No.	Description	Unit	Qty
	1. CIVIL WORKS		
1	Vol - 1 (SR. 2023-24) SR. No. 2.5.2 - Pg.16 Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.	CUM	62.13
2	Vol - 2 (SR. 2023-24) SR. No. 6.26 - Pg.16 Providing and laying Autoclaved Aerated Cement blocks masonry with 100 mm thick AAC blocks as per IS 2185 (Part III) in super structure above plinth level up to floor I level in cement mortar 1:4 (1 cement : 4 coarse sand) including cost of all materials, labour, scaffolding and usage charges of machinery & other incidental charges complete as per the direction of engineer incharge of work.	CUM	553.57
3	Vol - 1 (SR. 2023-24) SR. No. 2.5.2 - Pg.16 Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.	CUM	54.67
4	Vol - 2 (SR. 2023-24) SR. No. 8.16.3 - Pg.43 Providing and fixing suitable plaster mesh 100mm wide manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120g/m2 width, along route of walls chipped for services, junction between RCC and brick walls including cost of materials, labour for fixing complete as per specifications. (length of mesh only be measured for payment	Mtr	874.25
5	Vol - 2 (SR. 2023-24) SR. No. 8.6.2 - Pg. 42 Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	2460.33
6	Vol - 2 (SR. 2023-24) SR. No. 8.9 - Pg.42 Providing 15 mm cement plaster on the rough side of single or half brick wall of mix :1:6 (1 cement: 6 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	1972.07
7	Vol - 2 (SR. 2023-24) SR. No. 8.10 - Pg.43 Providing 6 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) on concrete surface / ceilings including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm	2986

8	Vol - 2 (SR. 2023-24) SR. No. 9.12.5 - Pg.60 Providing and laying vitrified floor tiles with thickness 9-10 mm in different sizes with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m ² including grouting the joints with white cement and matching pigments etc., complete.	Sqm	1948.06
9	Vol - 2 (SR. 2023-24) SR. No. 9.39 - Pg.65 Providing skirting, dadoing, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	Mtr	814.64
10	Vol - 2 (SR. 2023-24) SR. No. 8.51 - Pg.50 Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.	Sqm	3200.55
11	Vol - 2 (SR. 2023-24) SR. No. 8.55.1 - Pg.50 Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 g/L as per specifications and as per directions of Engineer in charge.	Sqm	3200.55
12	Vol - 2 (SR. 2023-24) SR. No. 8.54.2 - Pg.50 Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 g/L of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats as per specifications and as per directions of Engineer in charge.	Sqm	3200.55
13	Vol - 2 (SR. 2023-24) SR. No. 8.30 - Pg.45 Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67L/10 m ² over and including priming coat of exterior primer applied @ 2.20 kg/10 m ²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm	1972.07
14	Vol - 2 (SR. 2023-24) SR. No. 15.1 - Pg.149 Providing and Applying CFTRI approved two component flexible polymer modified acrylic cementitious waterproofing coating with a mix ratio of (1 Liquid: 2 Powder), to the RCC surface like bathroom, toilet, balcony & utility area applied @ 1.7kg/m ² in 2 coats to achieve 1mm DFT, having Elongation at break >50% as per ASTM D 412, Tensile strength >1N/ mm ² as per ASTM D 412, Adhesion strength: 0.80 N/mm ² as per ASTM D 4541, crack bridging upto 1mm as per ASTM C 836, Water penetration (5 bar pressure) as per BS EN 12390. The finished cost to include surface preparation, making coving of 50 mm X 50mm at all right angles of wall Junction with Polymer Repair Mortar and lay 45 gsm glass fibre mesh over the angle fillet when the first coat is still wet, treatment of cracks completely as per specification.	Sqm	95.21
15	Vol - 1 (SR. 2023-24) SR. No. 2.5.2 - Pg.16 Providing and laying in position Cement Concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage	CUM	303.28

	charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.		
16	Vol - 1 (SR. 2023-24) SR. No. 2.11 - Pg.18 Supplying, fitting and placing TMT FE 550 / 550D Steel Reinforcement including cost of all materials, machinery, labour, cleaning, straightening, cutting, bending, hooking, laping/welding joints, tying with binding wire / soft annealed steel wire and other ancillary operations complete as per drawing and technical specification.	TON	92
17	Vol - 2 (SR. 2023-24) SR. No. 15.1 - Pg.149 Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6 kg/m2 to achieve final DFT (Dry Film Thickness) of 1mm including prime coat of epoxy primer @150 g/m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification.	Sqm	1473.89
18	Vol - 2 (SR. 2023-24) SR. No. 9.24 - Pg.63 Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	Sqm	321

2. Office Furniture Details

1	Modular Working Table	<p>Executive table</p> <ul style="list-style-type: none"> •Main Table + ERU LH •"1800 x 2100 x740 MAIN WORKTOP: Made of 43mm Thick (± 1) combination of MDF and particle board with top veneer face coated with clear lacquer. All edges are edge banded with matching 1mm thick veneer lipping. •LEATHER PAD: Made of 18mm Thick (± 1) MDF with Leatherette wrapped around top surface. This leather pad is fixed to main top panel. •DRAWER UNIT: Top panel and drawer unit modesty panel is made of 43mm Thick (± 1) combination of MDF and particle board with top veneer face coated with clear lacquer. All thickness edges are edge banded with matching lipping. •Remaining construction is of 18mm pre-laminated twin board (PLT) of E1-P2 grade and approved shade confirming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping. Bottom panel of drawer is 9mm thick particle board with leatherette on top surface. •Drawer unit is provided with soft closing channels for smooth opening and closing. Drawer unit is secured with side central lock. •MODESTY: Made of 18mm Thick Pre-laminated twin board (PLT) of E1-P2 grade and approved shade confirming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping. Modesty is fitted with aluminium trims. 	Nos	1
		<ul style="list-style-type: none"> •ERU WORKTOP: Made of 43mm Thick (± 1) combination of MDF and particle board with top veneer face coated with clear lacquer. All thickness edges are edge banded with matching lipping. •UNDERSTRUCTURE AND ERU HINGE DOOR UNIT: Made of 18mm Thick Pre-laminated twin board (PLT) of E1-P2 grade and approved shade confirming to IS-12823:1990, Edge banded with matching 2 mm thick PVC lipping. Door is fixed with soft closing hinges and handle is provided for ease of opening. ERU is secured with side central lock. •ACCESS FLAP WITH POWER BOX: Soft closing access flap with power box contains 3 Universal Sockets, 2 USB power points, 1 HDMI connection, 1 inbuilt misc. cable grommet and CAT 3 and CAT 6 connections." 		
2	Modular storage unit	<p>" •"2400 x 470 x 1226 CONSTRUCTION AND MATERIAL: Made from combination of side panel(0.5mm CRCA), Bottom panel(0.5mm CRCA), Back panel(0.5mm CRCA), Top Bottom stiffener(1.2mm CRCA) and End Cover(0.6mm CRCA).Shelves are 12 bend panel made of 0.7mm Thick CRCA (D Grade, IS-513).</p> <ul style="list-style-type: none"> •Storage body is powder coated with Epoxy Polyester to the thickness of 50 microns (+/-10 micron). 	Nos	1

		<ul style="list-style-type: none"> • VENEER DOOR: Made of 12mm Thick (± 1) MDF with 3.5mm veneer both side and face coated with clear lacquer. All edges are edge banded with matching 1mm thick veneer lipping. Door is provided with soft closing hinge. Handle is also provided for ease of opening. Storage is secured with 3-way cam lock. • GLASS DOOR: Made from the combination of aluminium alloy (63400) extrusion and 4mm clear toughened glass. Aluminium extrusion of glass doors is powder coated with Epoxy Polyester to the thickness of 50 microns (± 10 micron). Handle is provided for ease of opening. RH Glass Door is provided with 3-way cam lock for security. 		
3	Table	<p>Coffee table</p> <ul style="list-style-type: none"> • "L x W x H – 1200 x 600 x 423 • Table-top – 8 mm Toughened Clear Glass top • PLT – 18 mm thick in Cinnamon • Configuration – Shelf storage + Display Space + Dual • drawer concealed storage 	Nos	1
4	Seating Arrangement	<p>"Dimensions (in cm) -</p> <p>Width - 101cm</p> <p>Depth - 93cm</p> <p>Height - 89cm</p> <p>Seat Height - 46cm</p> <p>Dimensions (in cm) -</p> <p>Width - 201cm</p> <p>Depth - 93cm</p> <p>Height - 89cm</p> <p>Seat Height - 46cm</p> <ul style="list-style-type: none"> • Upholstery: Composite Leather. Pure Leather at touch points – seat and backrest and Syn Lth at non touch point matching with the pure leather • Leather Type: Pigmented • Syn Leather: PVC • Thickness of upholstery: Leather : 1 mm Syn Lth : 1 mm • Shade Black • Frame: Material - Solid wood frame with plywood cross section <p>Moisture Content: 12%</p> <ul style="list-style-type: none"> • Foam Density: Seat: 28 kg/ cubic meter Back: Conjugated hollow fibre • Webbing: S spring • Legs: Rubber wood " 	Nos	1
5	Modular work station	<p>WORKSTATIONS - 1500W X 2400D – 8 seating</p> <p>Providing and placing WISH panel & tile based modular workstation, with partition</p> <p>thickness as 52.4 mm thick and height - 1200 including powder coated aluminium trims.</p> <p>Tiles: Top tiles are fabric magnetic tile. Bottom tiles - Plain metal.</p>	Nos	1

		<p>SPLIT Tiles: Combination of two finishes for the top tiles on the user side shall be split fabric magnetic along with split white board.</p> <p>INTERMEDIATE BLOCKS Intermediate blocks are given in fabric + Fabric finish.</p> <p>Wire Management - Wires shall be taken into the system through cable ducts from the junction boxes and it is carried up to the panels through concealed conduits inside the blocks.</p> <p>MODESTY PANELS WITH ASSEMBLY LEG - 25 MM THICK PLB modesty has been given on the front of the main worktop which is attached to the partition on one end with gable end bkts and on the other end with metal powder coated frontier leg.</p> <p>Legs - Metal powder coated legs at the end and shared condition. System shall also have 120 mm high powder coated standalone panel legs to give the system an elevated look.</p> <p>Worksurface - Main table recta out of 25 mm thick prelam particle board with flat pvc lipping edge banding of size 1500 mm w x 600 mm d and ERU table recta of size 900 mm w x 450 mm.</p> <p>Pedestals - Nova pedestal flat metal front, full ht free standing central locking of size 390 mm w x 435 mm d x 646 mm ht 3dr = 2box+1file.</p> <p>CPU trolley - with castors</p> <p>KBPT with mousetray - Metal</p> <p>Note: All partitions and side panels have levelling screws for adjustment in case of Uneven floor to take care of +/- 40 mm of uneven flooring.</p> <p>Note 2: SPECIFICATIONS OF FLOORING FOR THE FREE STANDING PARTITION :- GRADE OF PCC SHOULD BE MINIMUM OF M20 (MIX RATIO 1:5:5:3) OR M25 (MIX RATIO 1:1:2). THE DIMENSION OF EACH PCC SHOULD BE 450 MM L X 300 MM W X 140 TO 150 MM HT AT THE MARKED LOCATION. (MIX RATIO OF CEMENT: SAND: STONE). ALSO ELECTRICAL TRUNKING SHOULD NOT BE LAID BELOW THESE PARTITIONS.</p>		
6	Modular Storage unit	<p>Body</p> <p>Shutter</p> <p>"Providing, placing and supplying of storage:</p> <p>Eco wooden storage range comprises of a range of Low height to medium height</p> <p>wooden HDU</p> <p>Body: Body is made from 18mm PLB with all the edges sealed with 0.8 mm thick PVC Edge band. The Back panel is 9mm White PLT. The entire construction is ready to assemble unit and is assembled with suitable KD fittings.</p> <p>The shelves and separator panels (if available) is made from 18 mm white PLT and edges are sealed with 0.8 mm edge band. The bottom shelf is fixed and other shelves have one step adjustment for optimizing the space.</p>	Nos	8

		<p>Doors: Door Panels are made from 18 mm PLB with 2 mm Edge band on all edges and a flush Plastic handle is fitted vertically at the centre of the door. The hinge door has suitable hinges and HDU is fitted with an adjustable fitting for height adjustment.</p> <p>HDU has a three-point lock</p> <p>All the storages are fitted with a 6 mm leveller at bottom for levelling."</p>		
7	Modular Desking	<p>"Providing, supplying and placing of Desk cum Bench N Seater. Its size shall be 1240 x 1130 x 757 .Desk-Top Panel-All panels are made from 18mm thick Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage</p> <p>Understructure: All side metal frames and cross connectors are made from combination of 25.4 x 1.2 mm thick (approx. 18 SWG) Round ERW tubes, 31.8 x 1.2 mm thick (approx. 18 SWG) Round ERW tubes and 28.6 x 1.2 mm thick (approx. 18 SWG) Round ERW tubes (As per IS:7138) which are welded together. The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating. Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thick (approx. 18 SWG) rectangular ERW tubes (As per IS:7138). The tubes are coated with min. 45 micron thickness of epoxy polyester coating. The storage shelves are made from 0.6 mm thick MS sheet (As per IS:513) fixed below the desk top panel and are coated with min. 45 micron thickness of epoxy polyester coating</p> <p>Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thick MS sheet (As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating.</p> <p>The under structure is assembled using M6 trilocular screws (As per DIN 7500) with Zn blue plating.</p> <p>Compact Laminate seat and back panels are assembled using M6 Countersunk Trilocular screws (as per DIN 7500) with Zn Black Plating (As per IS 1573:1986)</p> <p>Spacers Are provided on the top of round tubes for wooden panels fixing. They are made of PP Glass filled (30%)</p> <p>Plastic Caps made of PP copolymer (3530 Grade) are also provided on the rear frames adding more aesthetic value to the product.</p> <p>M6 high tensile TVS make bolt (Class 8.8) with glass filled nylon level adjusters are provided at the bottom of under structure to take care of unevenness in floor with height adjustment of approx. 15mm.</p> <p>Providing, supplying and placing of Desk cum Bench N Seater. Its size shall be 1840 x 984 x 757. Desk-Top Panel-All panels are made from 18mm thick Pre-laminated twin board (E1/P2 GRADE) with PVC edge banding on all sides. The panels have corners rounded for safety usage</p>	Nos	200

		<p>Understructure:All side metal frames and cross connectors are made from combination of 25.4 x1.2 mm thick(approx. 18 SWG) Round ERW tubes ,31.8 x 1.2 mm thick(approx. 18 SWG) Round ERW tubes and 28.6 x 1.2 mm thick(approx. 18 SWG) Round ERW tubes(As per IS:7138) which are welded together.The Welded structures and cross connectors are coated with min. 45 micron thickness of epoxy polyester coating.Back supports which are provided at the rear back are made of 50.8 x 25.4 x 1.2 mm thick(approx. 18 SWG) rectangular ERW tubes(As per IS:7138).The tubes are coated with min. 45 micron thickness of epoxy polyester coating. The storage shelves are made from 0.6 mm thick MS sheet(As per IS:513) fixed below the desk top panel and are coated with min. 45 micron thickness of epoxy polyester coating.</p> <p>Hooks are provided on the vertical side frames on both sides of the desk for hanging bags/bottles. They are made from 2 mm thick MS sheet(As per IS:513) and are coated with min. 45 micron thickness of epoxy polyester coating.</p> <p>The understructure is assembled using M6 trilobular screws(As per DIN 7500)with Zn blue plating.</p> <p>Compact Laminate seat and back panels are assembled using M6 Countersunk Trilobular screws(as per DIN 7500) with Zn Black Plating (As per IS 1573:1986)</p> <p>Spacers Are provided on th top of round tubes for wooden panels fixing. They are made of PP Glass filled (30%)</p> <p>Plastic Caps made of PP copolymer(3530 Grade) are also provided on the rear frames adding more aestheic value to the product.</p> <p>M6 high tensile TVS make bolt(Class 8.8) with glasss filled nylon level adjustors are provided at the bottom of understructure to take care of unevenness in floor with height adjustment of approx 15mm."</p>		

3. Lab Furniture Details

Sl No	Lab 01	Technical specification		
1		<p>ISLAND TABLE</p> <p>Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-sectional dimensions of the pipe should be 30 x 30mm with a minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the work-bench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500</p> <p>Providing Under bench cabinets which are Pure epoxy powder coated with thickness of 40-60 microns and will be suspended from tubular structure. The cabinet will have a corrosion resistance magnetic strip as shutter catch, shutter and drawer are to be equipped with 180 degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are of SS-304 knuckle overlay type with 270 degree opening and 2 nos of hinges are to be screw fitted to each shutter and cabinet.</p> <p>Unit Construction : It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.</p> <p>Shelf : Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.</p>	Nos	1

	<p>Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.</p> <p>Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening. Units will be in 450mm and 600mm widths.</p>	
	UNDERBENCH CABINET 600W-450D-674H 2S 1D	
	<p>Providing Fixed Reagent Shelves: It will be complete modular design consisting of 2 stage horizontal storage shelves. 270mm gap to be maintained between two shelves. Reagent shelf post will have a cross section of 115mm x 30mm hollow structure of 1.2mm thick. Welded frames to be screw fitted between two posts and to be made of 1.2 mm thick. And, metal shelves of 0.8mm thick CRCA MS with pure epoxy powder coating sheets to kept in between the frames</p>	
	<p>REAGENT SHELF ISLAND ADDON 1500W REAGENT SHELF ISLAND MAIN 1500W</p> <p>All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating</p> <p>LEG SPACE PANEL SET 900W-900H</p> <p>All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating</p> <p>ISLAND SIDE PANEL SET 1500W-900H</p> <p>Bracket for island table</p> <p>Providing and supply of Granite Work Top : It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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. Size 9920mm L x 900mm H x 1500mm</p> <p>ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification</p>	
	Wall Saide Table	

		<p>Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-sectional dimensions of the pipe should be 30 x 30mm with a minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the work-bench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500</p>	
		<p>Providing Under bench cabinets which are Pure epoxy powder coated with thickness of 40-60 microns and will be suspended from tubular structure. The cabinet will have a corrosion resistance magnetic strip as shutter catch, shutter and drawer are to be equipped with 180 degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are of SS-304 knuckle overlay type with 270 degree opening and 2 nos of hinges are to be screw fitted to each shutter and cabinet.</p> <p>Unit Construction : It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.</p> <p>Shelf : Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.</p> <p>Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.</p> <p>Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening.</p> <p>Units will be in 450mm and 600mm widths.</p> <p>UNDERBENCH CABINET 600W-450D-674H 2S 1D</p> <p>All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating</p>	

		<p>LEG SPACE PANEL</p> <p>All leg-space panels, rear cover panels, side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating</p> <p>Providing and supply of Granite Work Top : It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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.</p> <p>Size 12000 mm L x 750mm H x 750mm</p> <p>ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification</p>			
	1	TABLE MAIN 1200W-750D-900H	1200W-750D-900H	6	Nos.
	2	TABLE ADDON 600W-750D-900H	600W-750D-900H	1	Nos.
	3	TABLE ADDON 1200W-750D-900H	1200W-750D-900H	61	Nos.
	4	TABLE ADDON 1050W-750D-900H	1050W-750D-900H	1	Nos.
	5	UNDERBENCH CABINET 600W-450D-674H 2S 1D	600W-450D-674H 2S 1D	68	Nos.
	6	UNDERBENCH CABINET 450W-450D-674H 1S 1D RH	450W-450D-674H 1S 1D (RH)	1	Nos.
	7	REAGENT SHELF ISLAND MAIN 1200W	M-RS-I-1200 (3M X 2 ON B)	3	Nos.
	8	REAGENT SHELF ISLAND ADDON 1200W	A-RS-I-1200 (3M X 2 ON B)	21	Nos.
	9	LEG SPACE PANEL SET 600W-900H	LEG SPACE 600W-900H	68	Nos.
	10	REAR SIDE PANEL SET 750D-900H	REAR SIDE PANEL	2	Nos.

		750D-900H		
11	ISLAND SIDE PANEL SET 1500W-900H	ISLAND SIDE PANEL 1500W-900H	6	Nos.
12	CORNER TABLE PIPE FRAME 750D-900H	PIPE FRAME 750D-900H	1	Nos.
13	CORNER TABLE DOOR FRAME 900H	DOOR FRAME 900H	1	Nos.
14	Table Mounted Trunking	TABLE MOUNTED TRUNKING	21	Nos.
15	SIDE PANEL FOR SINK UNIT	SIDE PANEL FOR SINK UNIT (900H)	2	Nos.
16	INLINE SINK UNIT 750W x 750D x 900H	ILS-750W-750D-900H	1	Nos.
17	Pp Drop-In Sink Model S 06 560 Mm (W) X 355 Mm (D)	Model S 06	2	Nos.
18	3 Way Water Faucet Bench Mounted, 8" Swing Gooseneck Model No. 100/32	Model No. 100-32	2	Nos.
19	Bracket for island table	BKT-ISLAND	27	Nos.
20	Jet Black Granite (Sq.Mt.) 20 (±2) Mm Thick		66	Sq.Mtrs.
21	Silicon Sealant - Black		7	Nos.
22	Masking Tape		7	R.Mtrs.
23	6 MM Self Adhesive Natural Rubber Strip		270	R.Mtrs.
24	Flexible/F Serated Connector Model : Hp 01 Make: Premier		2	Nos.
25	Anti-Siphon Bottle Trap Model : S 04 Make: Premier		2	Nos.
26	16A, 1 Way Switch - Model No: M0130		138	Nos.
27	6/16A, 6 Pin Shutter Socket - Model No: M1332		138	Nos.
28	3 Module Plate - Model No: Cs933M		96	Nos.

	Lab 02	<p data-bbox="533 73 1037 118">4. Technical specification</p> <p data-bbox="389 174 564 201">ISLAND TABLE</p> <p data-bbox="389 215 1137 958">Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-sectional dimensions of the pipe should be 30 x 30mm with a minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the work-bench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500</p> <p data-bbox="389 1010 1137 1323">Providing Under bench cabinets which are Pure epoxy powder coated with thickness of 40-60 microns and will be suspended from tubular structure. The cabinet will have a corrosion resistance magnetic strip as shutter catch, shutter and drawer are to be equipped with 180-degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are of SS-304 knuckle overlay type with 270 degrees opening and 2 nos of hinges are to be screw fitted to each shutter and cabinet.</p> <p data-bbox="389 1375 1137 1514">Unit Construction: It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.</p> <p data-bbox="389 1565 1137 1632">Shelf: Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.</p> <p data-bbox="389 1684 1137 1823">Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.</p> <p data-bbox="389 1874 1137 2013">Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening. Units will be in 450mm and 600mm widths.</p>	Nos	1
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UNDERBENCH CABINET 600W-450D-674H 2S 1D

Providing Fixed Reagent Shelves: It will be complete modular design consisting of 2 stage horizontal storage shelves. 270mm gap to be maintained between two shelves. Reagent shelf post will have a cross section of 115mm x 30mm hollow structure of 1.2mm thick. Welded frames to be screw fitted between two posts and to be made of 1.2 mm thick. And, metal shelves of 0.8mm thick CRCA MS with pure epoxy powder coating sheets to kept in between the frames

REAGENT SHELF ISLAND ADDON 1500W

REAGENT SHELF ISLAND MAIN 1500W

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

LEG SPACE PANEL SET 900W-900H

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

ISLAND SIDE PANEL SET 1500W-900H

Bracket for island table

Providing and supply of Granite Work Top : It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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.

Size 9920mm L x 900mm H x 1500mm

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification

Wall Saide Table

Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-

sectional dimensions of the pipe should be 30 x 30mm with a minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the work-bench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500

Providing Under bench cabinets which are Pure epoxy powder coated with thickness of 40-60 microns and will be suspended from tubular structure. The cabinet will have a corrosion resistance magnetic strip as shutter catch, shutter and drawer are to be equipped with 180-degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are of SS-304 knuckle overlay type with 270 degrees opening and 2 nos of hinges are to be screw fitted to each shutter and cabinet.

Unit Construction: It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.

Shelf: Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.

Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.

Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening.

Units will be in 450mm and 600mm widths.

UNDERBENCH CABINET 600W-450D-674H 2S 1D

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

LEG SPACE PANEL

All leg-space panels, rear cover panels, side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

	<p>Providing and supply of Granite Work Top : It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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.</p> <p>Size 12000 mm L x 750mm H x 750mm</p> <p>ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification</p>				
1	TABLE MAIN 1200W-750D-900H	1200W-750D-900H	6	Nos.	
2	TABLE ADDON 600W-750D-900H	600W-750D-900H	1	Nos.	
3	TABLE ADDON 1200W-750D-900H	1200W-750D-900H	61	Nos.	
4	TABLE ADDON 1050W-750D-900H	1050W-750D-900H	1	Nos.	
5	UNDERBENCH CABINET 600W-450D-674H 2S 1D	600W-450D-674H 2S 1D	68	Nos.	
6	UNDERBENCH CABINET 450W-450D-674H 1S 1D LH	450W-450D-674H 1S 1D (LH)	1	Nos.	
7	REAGENT SHELF ISLAND MAIN 1200W	M-RS-I-1200 (3M X 2 ON B)	3	Nos.	
8	REAGENT SHELF ISLAND ADDON 1200W	A-RS-I-1200 (3M X 2 ON B)	21	Nos.	
9	LEG SPACE PANEL SET 600W-900H	LEG SPACE 600W-900H	68	Nos.	
10	REAR SIDE PANEL SET 750D-900H	REAR SIDE PANEL 750D-900H	2	Nos.	
11	ISLAND SIDE PANEL SET 1500W-900H	ISLAND SIDE PANEL 1500W-900H	6	Nos.	
12	CORNER TABLE PIPE FRAME 750D-900H	PIPE FRAME	1	Nos.	

		750D-900H		
13	CORNER TABLE DOOR FRAME 900H	DOOR FRAME 900H	1	Nos.
14	Table Mounted Trunking	TABLE MOUNTED TRUNKING	21	Nos.
15	SIDE PANEL FOR SINK UNIT	SIDE PANEL FOR SINK UNIT (900H) (RH to LH)	1	Nos.
16	SIDE PANEL FOR SINK UNIT	SIDE PANEL FOR SINK UNIT (900H)	1	Nos.
17	INLINE SINK UNIT 750W x 750D x 900H	ILS-750W-750D-900H	1	Nos.
18	Pp Drop-In Sink Model S 06 560 Mm (W) X 355 Mm (D)	Model S 06	2	Nos.
19	3 Way Water Faucet Bench Mounted, 8" Swing Gooseneck Model No. 100/32	Model No. 100-32	2	Nos.
20	Bracket for island table	BKT-ISLAND	27	Nos.
21	Jet Black Granite (Sq.Mt.) 20 (±2) Mm Thick		66	Sq.Mtrs.
22	Silicon Sealant - Black		7	Nos.
23	Masking Tape		7	R.Mtrs.
24	6 MM Self Adhesive Natural Rubber Strip		270	R.Mtrs.
25	Flexible/F Serated Connector Model : Hp 01 Make: Premier		2	Nos.
26	Anti-Siphon Bottle Trap Model: S 04 Make: Premier		2	Nos.
27	16A, 1 Way Switch - Model No: M0130		138	Nos.
28	6/16A, 6 Pin Shutter Socket - Model No: M1332		138	Nos.
29	3 Module Plate - Model No: Cs933M		96	Nos.

Lab 03	5. Technical specification		
	<p>ISLAND TABLE</p> <p>Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-sectional dimensions of the pipe should be 30 x 30mm with a minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the work-bench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500</p> <p>Providing Under bench cabinets which are Pure epoxy powder coated with thickness of 40-60 microns and will be suspended from tubular structure. The cabinet will have a corrosion resistance magnetic strip as shutter catch, shutter and drawer are to be equipped with 180 degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are of SS-304 knuckle overlay type with 270 degree opening and 2 nos of hinges are to be screw fitted to each shutter and cabinet.</p> <p>Unit Construction : It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.</p> <p>Shelf : Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.</p> <p>Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.</p> <p>Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening. Units will be in 450mm and 600mm widths.</p> <p>UNDERBENCH CABINET 600W-450D-674H 2S 1D</p>	Nos	1

Providing Fixed Reagent Shelves: It will be complete modular design consisting of 2 stage horizontal storage shelves. 270mm gap to be maintained between two shelves. Reagent shelf post will have a cross section of 115mm x 30mm hollow structure of 1.2mm thick. Welded frames to be screw fitted between two posts and to be made of 1.2 mm thick. And, metal shelves of 0.8mm thick CRCA MS with pure epoxy powder coating sheets to kept in between the frames

REAGENT SHELF ISLAND ADDON 1500W

REAGENT SHELF ISLAND MAIN 1500W

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

LEG SPACE PANEL SET 900W-900H

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

ISLAND SIDE PANEL SET 1500W-900H

Bracket for island table

Providing and supply of Granite Work Top : It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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.

Size 9920mm L x 900mm H x 1500mm

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification

Wall Saide Table

Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-sectional dimensions of the pipe should be 30 x 30mm with a

minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the work-bench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500

Providing Under bench cabinets which are Pure epoxy powder coated with thickness of 40-60 microns and will be suspended from tubular structure. The cabinet will have a corrosion resistance magnetic strip as shutter catch, shutter and drawer are to be equipped with 180-degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are of SS-304 knuckle overlay type with 270 degrees opening and 2 nos of hinges are to be screw fitted to each shutter and cabinet.

Unit Construction: It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.

Shelf: Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.

Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.

Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening.

Units will be in 450mm and 600mm widths.

UNDERBENCH CABINET 600W-450D-674H 2S 1D

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

LEG SPACE PANEL

All leg-space panels, rear cover panels, side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

		<p>Providing and supply of Granite Work Top : It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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.</p> <p>Size 12000 mm L x 750mm H x 750mm</p> <p>ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification</p>			
	1	TABLE MAIN 1200W-750D-900H	1200W-750D-900H	4	Nos.
	2	TABLE ADDON 600W-750D-900H	600W-750D-900H	4	Nos.
	3	TABLE ADDON 1500W-750D-900H	1500W-750D-900H	1	Nos.
	4	TABLE ADDON 1200W-750D-900H	1200W-750D-900H	21	Nos.
	5	TABLE ADDON 1050W-750D-900H	1050W-750D-900H	1	Nos.
	6	UNDERBENCH CABINET 600W-450D-674H 2S 1D	600W-450D-674H 2S 1D	29	Nos.
	7	UNDERBENCH CABINET 450W-450D-674H 1S 1D RH	450W-450D-674H 1S 1D (RH)	1	Nos.
	8	UNDERBENCH CABINET 450W-450D-674H 1S 1D LH	450W-450D-674H 1S 1D (LH)	2	Nos.
	9	REAGENT SHELF ISLAND MAIN 1200W	M-RS-I-1200 (3M X 2 ON B)	2	Nos.
	10	REAGENT SHELF ISLAND ADDON 600W	A-RS-I-600 (3M X 2 ON B)	2	Nos.
	11	REAGENT SHELF ISLAND ADDON 1200W	A-RS-I-1200 (3M X 2 ON B)	6	Nos.
	12	LEG SPACE PANEL SET 600W-900H	LEG SPACE 600W-900H	27	Nos.
	13	REAR SIDE PANEL SET 750D-900H	REAR SIDE PANEL	2	Nos.

			750D-900H		
	14	ISLAND SIDE PANEL SET 1500W-900H	ISLAND SIDE PANEL 1500W-900H	4	Nos.
	15	CORNER TABLE PIPE FRAME 750D-900H	PIPE FRAME 750D-900H	1	Nos.
	16	CORNER TABLE DOOR FRAME 900H	DOOR FRAME 900H	1	Nos.
	17	Table Mounted Trunking	TABLE MOUNTED TRUNKING	11	Nos.
	18	SIDE PANEL FOR SINK UNIT	SIDE PANEL FOR SINK UNIT (900H)	2	Nos.
	19	INLINE SINK UNIT 750W x 750D x 900H	ILS-750W-750D-900H	1	Nos.
	20	Pp Drop-In Sink Model S 06 560 Mm (W) X 355 Mm (D)	Model S 06	2	Nos.
	21	3 Way Water Faucet Bench Mounted, 8" Swing Gooseneck Model No. 100/32	Model No. 100-32	2	Nos.
	22	Bracket for island table	BKT-ISLAND	14	Nos.
	23	Jet Black Granite (Sq.Mt.) 20 (±2) Mm Thick		30	Sq.Mtrs.
	24	Silicon Sealant - Black		3	Nos.
	25	Masking Tape		3	R.Mtrs.
	26	6 MM Self Adhesive Natural Rubber Strip		120	R.Mtrs.
	27	Flexible/F Serated Connector Model: Hp 01 Make: Premier		2	Nos.
	28	Anti-Siphon Bottle Trap Model: S 04 Make: Premier		2	Nos.
	29	16A, 1 Way Switch - Model No: M0130		62	Nos.
	30	6/16A, 6 Pin Shutter Socket - Model No: M1332		62	Nos.
	31	3 Module Plate - Model No: Cs933M		40	Nos.

Lab 04	6. Technical specification		
	<p>ISLAND TABLE</p> <p>Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-sectional dimensions of the pipe should be 30 x 30mm with a minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the workbench is formed on which the worktop can be placed, and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500</p> <p>Providing Under bench cabinets which are Pure epoxy powder coated with thickness of 40-60 microns and will be suspended from tubular structure. The cabinet will have a corrosion resistance magnetic strip as shutter catch, shutter and drawer are to be equipped with 180-degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are of SS-304 knuckle overlay type with 270 degrees opening and 2 nos of hinges are to be screw fitted to each shutter and cabinet.</p> <p>Unit Construction: It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.</p> <p>Shelf: Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.</p> <p>Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.</p> <p>Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening. Units will be in 450mm and 600mm widths.</p> <p>UNDERBENCH CABINET 600W-450D-674H 2S 1D</p>	Nos	1

Providing Fixed Reagent Shelves: It will be complete modular design consisting of 2 stage horizontal storage shelves. 270mm gap to be maintained between two shelves. Reagent shelf post will have a cross section of 115mm x 30mm hollow structure of 1.2mm thick. Welded frames to be screw fitted between two posts and to be made of 1.2 mm thick. And metal shelves of 0.8mm thick CRCA MS with pure epoxy powder coating sheets to kept in between the frames

REAGENT SHELF ISLAND ADDON 1500W

REAGENT SHELF ISLAND MAIN 1500W

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

LEG SPACE PANEL SET 900W-900H

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

ISLAND SIDE PANEL SET 1500W-900H

Bracket for island table

Providing and supply of Granite Work Top: It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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.

Size 9920mm L x 900mm H x 1500mm

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification

Wall Side Table

Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-sectional dimensions of the pipe should be 30 x 30mm with a

minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the work-bench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500

Providing Under bench cabinets which are Pure epoxy powder coated with thickness of 40-60 microns and will be suspended from tubular structure. The cabinet will have a corrosion resistance magnetic strip as shutter catch, shutter and drawer are to be equipped with 180 degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are of SS-304 knuckle overlay type with 270 degree opening and 2 nos of hinges are to be screw fitted to each shutter and cabinet.

Unit Construction: It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.

Shelf: Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.

Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.

Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening.

Units will be in 450mm and 600mm widths.

UNDERBENCH CABINET 600W-450D-674H 2S 1D

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

LEG SPACE PANEL

All leg-space panels, rear cover panels, side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

Providing and supply of Granite Work Top : It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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.

Size 12000 mm L x 750mm H x 750mm

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification

7. Technical specification

Wall Side Table

Providing D-Frames 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. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops. Its superior strength combined with aesthetically appealing end caps shall give maximum flexibility and modularity while making a layout. Horizontal Members are made from square pipes of 1.6 mm thickness. Cross-sectional dimensions of the pipe should be 30 x 30mm with a minimum of 1.6 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two D-Frames together as shown using C-clamps/U-clamps. Together with the D-Frames and Horizontal Members connected together, the skeletal structure of the workbench is formed on which the worktop can be placed and the hanging-type storage cabinets can be suspended. Horizontal Members determine the width of the lab workbench as they form the member (distance) between two adjacent D-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500

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Unit Construction: It will be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 0.8 mm and drawer separator should be of 1.2mm thick.

Shelf: Will be made of 0.8mm thickness which should be adjustable to 6 steps of 50mm.

Shutter will be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.

Drawer: Will be welded single piece construction with over-closing sandwich drawer front filled with 15mm thick paper honeycomb for sound dampening.

Units will be in 450mm and 600mm widths.

UNDERBENCH CABINET 600W-450D-674H 2S 1D

All leg-space panels, rear cover panels, island side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

LEG SPACE PANEL

All leg-space panels, rear cover panels, side panels etc. should be made from CRCA MS panels of minimum 0.8mm thickness with pure epoxy powder coating

Nos

1

	<p>Providing and supply of Granite Work Top : It shall be 19mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop shall be chamfered and smoothened. The bottom of the worktop shall be polished and there shall 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.</p> <p>Size 12000 mm L x 750mm H x 750mm</p>		
	ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, SEFA Membership, ASHRAE 110, SEFA 10 certification		
1	TABLE MAIN 1200W-750D-900H	1200W-750D-900H	4 Nos
2	TABLE ADDON 600W-750D-900H	600W-750D-900H	4 Nos.
3	TABLE ADDON 1500W-750D-900H	1500W-750D-900H	1 Nos.
4	TABLE ADDON 1200W-750D-900H	1200W-750D-900H	21 Nos.
5	TABLE ADDON 1050W-750D-900H	1050W-750D-900H	1 Nos.
6	UNDERBENCH CABINET 600W-450D-674H 2S 1D	600W-450D-674H 2S 1D	29 Nos.
7	UNDERBENCH CABINET 450W-450D-674H 1S 1D RH	450W-450D-674H 1S 1D (RH)	2 Nos.
8	UNDERBENCH CABINET 450W-450D-674H 1S 1D LH	450W-450D-674H 1S 1D (LH)	1 Nos.
9	REAGENT SHELF ISLAND MAIN 1200W	M-RS-I-1200 (3M X 2 ON B)	2 Nos.
10	REAGENT SHELF ISLAND ADDON 600W	A-RS-I-600 (3M X 2 ON B)	2 Nos.
11	REAGENT SHELF ISLAND ADDON 1200W	A-RS-I-1200 (3M X 2 ON B)	6 Nos.
12	LEG SPACE PANEL SET 600W-900H	LEG SPACE 600W-900H	27 Nos.
13	REAR SIDE PANEL SET 750D-900H	REAR SIDE PANEL 750D-900H	2 Nos.

14	ISLAND SIDE PANEL SET 1500W-900H	ISLAND SIDE PANEL 1500W- 900H	4 Nos.
15	CORNER TABLE PIPE FRAME 750D-900H	PIPE FRAME 750D- 900H	1 Nos.
16	CORNER TABLE DOOR FRAME 900H	DOOR FRAME 900H	1 Nos.
17	Table Mounted Trunking	TABLE MOUNTED TRUNKING	11 Nos.
18	SIDE PANEL FOR SINK UNIT	SIDE PANEL FOR SINK UNIT (900H) (RH to LH)	1 Nos.
19	SIDE PANEL FOR SINK UNIT	SIDE PANEL FOR SINK UNIT (900H)	1 Nos.
20	INLINE SINK UNIT 750W x 750D x 900H	ILS-750W- 750D- 900H	1 Nos.
21	Pp Drop-In Sink Model S 06 560 Mm (W) X 355 Mm (D)	Model S 06	2 Nos.
22	3 Way Water Faucet Bench Mounted, 8"" Swing Gooseneck Model No. 100/32	Model No. 100-32	2 Nos.
23	Bracket for island table	BKT- ISLAND	14 Nos.
24	Jet Black Granite (Sq.Mt.) 20 (±2) Mm Thick		30 Sq.Mtrs
25	Silicon Sealant - Black		3 Nos.
26	Masking Tape		3 R.Mtrs
27	6 MM Self Adhesive Natural Rubber Strip		120 R.Mtrs
28	Flexible/F Serated Connector Model : Hp 01 Make: Premier		2 Nos.
29	Anti-Siphon Bottle Trap Model : S 04 Make: Premier		2 Nos.
30	16A, 1 Way Switch - Model No: M0130		62 Nos.
31	6/16A, 6 Pin Shutter Socket - Model No: M1332		62 Nos.
32	3 Module Plate - Model No: Cs933M		40 Nos.

8. LABORATORY INFRASTRUCTURE

Sl No	Product	Description	Quantity
1	Modular Laboratory doors with all fittings	Door Leaf: Solid core, GI powder coated Door, 35mm-50mm thickness, thermal insulation, acoustic insulation. Size 1150 X 2260 mm. Frame: Anodized aluminum, steel, or UPVC, 75mm-100mm profile, rubber gasket seals. Fittings: Stainless steel hinges, mortise lock, lever lock, deadbolt, panic bar (optional), hydraulic door closer, vision panel (optional), threshold. Surface Finish: Powder-coated GI. Performance: Thermal conductivity: low, R-value compliant, soundproofing: 25-30 dB, fire-resistant core (optional), moisture resistance, weatherproof. Installation: Precision alignment, sealing for insulation.	28
2	UPVC windows track	3 Providing and fixing of 3-track x 3-panel sliding windows, constructed using multi-chambered UPVC sections that are matching to RAL-9016, a standard color code for white. The UPVC material used will be formulated with a minimum content of 6 PHR (Parts per Hundred Resin) of TiO2 (Titanium Dioxide), which acts as a UV stabilizer to enhance the durability and color retention of the window frame. The material will also include TPE (Thermo Plastic Elastomer) and be lead-free, ensuring both environmental safety and compliance with modern health and safety standards. These windows will feature gaskets in a grey color, which provide an effective sealant to prevent air and water infiltration, contributing to the weatherproofing of the window. The window frame will be reinforced with a galvanized iron profile, ensuring structural strength and stability throughout the entire window assembly. The outer frame will have an overall size of 44mm width x 40mm height with a reinforcement thickness of 1mm, providing the necessary rigidity to support the moving panels. The sash (the part of the window that holds the glass) will have an overall size of 27mm x 53mm, and it will incorporate a UPVC honeycomb structure inside, which serves as a reinforced core, substituting the traditional GI (Galvanized Iron) reinforcement. This design ensures strength while maintaining a lightweight structure. The co-extruded glazing bead used for fixing the glass will have a size of 9.5mm x 21.5mm, ensuring secure and precise holding of the glass panes within the window frame. The glass used will be 5mm plain float glass, which provides clear visibility and adequate durability for typical residential or commercial applications. The window will come with standard hardware, including a single-point locking system with crescent locks for enhanced security and ease of operation. The frame and sash will have a wall thickness of 2mm, which ensures the overall strength and robustness of the window structure. The size for each window unit will be 1819mm x 1219mm. The cost for the work includes all necessary materials, such as the UPVC sections, glass, gaskets, hardware, and reinforcements, as well as the installation labor. Providing and fixing M.S. (Mild Steel) grills of the specified design and pattern in the frames of windows, ventilators, or similar openings. The grills will be fabricated using M.S. flats, square bars, or round bars, depending on the design requirements, with the bars cut, shaped, and welded to form the desired grill pattern as per the project specifications. The M.S. bars will be selected based on the required load-bearing capacity. the entire grill structure will be coated with a primer using an approved steel primer to enhance adhesion and prevent rust formation, providing a base layer to protect the steel from corrosion due to exposure to environmental elements such as moisture and air.	72

3	Flooring for laboratories	Epoxy resin flooring provides a long-lasting, chemically resistant, and safe flooring solution, designed to meet the rigorous demands of industrial and laboratory spaces. Typically applied at 2mm to 6mm thickness, depending on traffic load and exposure to chemicals. Requires thorough cleaning and priming of the concrete substrate to ensure optimal adhesion. Specific hardeners for optimal bond strength and chemical resistance. Bisphenol A-based epoxy or novolac epoxy for superior chemical resistance. Provides high adhesion to substrates and resists degradation from acids, alkalis, solvents, and oils. Medium to low viscosity, allowing for easy application and even spreading over floor surfaces. Silica sand or fine aggregates for added anti-slip properties and better traction in wet conditions. Excellent resistance to a wide range of chemicals, including acids, alkalis, solvents, and oils, making it ideal for laboratory environments. High impact resistance to withstand heavy foot traffic, dropped objects, and other stresses. Abrasion resistance, ensuring long-lasting durability in high-traffic areas. Non-porous surface, making it resistant to liquid absorption and ensuring easy cleaning. Tensile Strength- around 40-50 MPa. Compressive Strength -80-90 MPa. Flexural Strength- Approximately 60 MPa. Shore D Hardness: Usually around 70-80 for enhanced durability.	693.3 sqm
4	Security surveillance systems for the building	Providing long-range surveillance with weatherproof casings. Resolution 1080p/4k. Fixed or variable or wide angle field of view. With IR for night vision and low light capabilities. DVR for analog CCTV systems and NVR for IP CCTV systems. Storage Capacity: Typically 4TB to 12TB HDD, scalable depending on the number of cameras and required retention period. Video Compression: Use of H.264 or H.265 for efficient storage without compromising quality. 30 fps (frames per second) for smooth, real-time video recording. For high-security applications, recording at 60 fps or higher may be necessary. As Required, 1 HDMI, 1 VGA, H.264 / MJPEG, 2560 X 1920, 2048 X 1536, 1920 X 1080, 1280 X 720, 1920 X 1080, upto 30 fps per channel, Motion, Video Loss, Camera Blank, Min 2 SATA ports, 2TB, Raid (Redundancy), iPhone, iPad, Android, Windows Phone, IPv4/IPv6, HTTP, TCP/IP, UDP, UPnP, RTSP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, Manual, Schedule, STOP, Alarm and MD, Time/Date, Alarm, Motion Detection, Exact Search (accurate to second), Play, Stop, Pause, Rewind, Fast Play, slow play, full screen, backup, USB Device / Network, USB 2.0 port, USB 3.0 port, 1, RS485, 1 RS232, 1 RJ45, 1 RJ-45 port (10/100M Base T), AC 100V~240V 50/60Hz. Minimum 32", Full HD, 1080p and minimum viewing of 16 cameras, Dynamic Edge LED 480/60i, 480/60p, 1080/60i, 1080/50p (HDMI) Yes, HDMI/Audio in, USB 2.0, Ethernet connection, HD15 PC input, NTSC (3.58 MHz, 4.43 MHz), PAL, PAL60, SECAM Unshielded Twisted Pair (UTP) CAT 6 cable Pair-shielded 100 Ohm installation cable with overall braided screen, suitable for transmission frequencies of up to 600 MHz, 4 pair UTP armoured cable 23 AWG Solid bare Copper High Density polyethylene, FR-PVC Insulation thickness 0.2 mm nominal.	125

5	LAN Infrastructure Networking	Category 6 (Cat 6) or higher UTP cables for wired connectivity, ensuring high data transfer rates up to 1 Gbps with minimal interference. Network distribution will be managed through rack-mounted switches (Layer 2/3) with PoE (Power over Ethernet) support for powering IP phones and wireless access points. The office setup will include LAN points for workstations, printers, VoIP telephony, biometric attendance systems, and secure data storage solutions. Enterprise-grade Wi-Fi 6 access points will provide seamless wireless connectivity across the campus. A centralized server room. Security measures such as firewalls, intrusion detection systems, and VLAN segmentation will ensure data integrity and network protection and provision for suvh will be made.This infrastructure will support e-learning, video conferencing, online examinations, and research collaborations, making the college a technologically advanced institution. The network design will comply with TIA/EIA-568, ISO/IEC 11801, and IEEE 802.3 standards, ensuring industry best practices in performance and reliability.	Total area of 3582 sqm, with local server
6	Drop ceilings False for Labs	Providing & Fixing of Intergral Densified Micro Look edged Eco Friendly Lightweight Calcium Silicate Suspended Ceiling System in Module Size of 600x600x3.2mm Suitable with Exposed GI Silhouette Profile Black Reveal T 15 Grid for Offices, Hospitals, Institutions, Airports, Banking Sector, Auditoriums, Community halls, laboratories, Factories and All buildings in high humidity or coastal Areas. The Lightweight Calcium Silicate Ceiling tiles shall be made from Non Cementitious Hydrated Calcium Silicate Slurry/Mixture, Reinforced recycled material with fibers and natural fillers. Free from Formaldehyde and other harmful materials. Doesn't contain any toxic ingrediants. The Tiles should have Humidity Resistance (RH) of 100%, Water Resistance, Non Combustible: as per BS:476 Part-4, Fire Performance: as per BS:476 Part-6 for Fire Propagation, as per BS:476 Part-7 for Surface Spread of Flame, As per UK standards Fire Performace A1-S1-d0, Thermal Conductivity K= 0.048 to 0.050 w/m K as per ECBC code 2007, NRC (Noise Reduction Coefficient) 0.5 to 0.75 (Semi Perforated and Fully Perforated tiles) as per IS 8225:1987, Sound Attenuation (STA) 30-32dB,Thickness of tile should be 15mm thick with 450 kg/m3 density all around on edge resting portion with Integral Densified edge and 10mm thick with 50kg/m3 density in the center of the body,Light Reflectance > 85%, Weight of material is 5-5.5 kg/m2 and Suitable for Green Building application with In Organic Recycled content of 46- 50% out of which 18-20% should be FLYASH and meets the GRIHA & SVAGRIHA norms under the categories: GRIHA V.2015 criterion:11&12, GRIHA V.3 criterion: 17&29 and SVAGRIHA criterion:12.	693.3 sqm
7	Electrification for Modular Laboratory Equipments	Laboratories and special equipment areas require specialized electrical systems to ensure safety, precision, and uninterrupted operation. These systems typically include dedicated circuits for high-sensitivity or high-load equipment, stable and regulated power supply (often via UPS or isolation transformers), and stringent grounding and bonding to prevent electrical noise or interference. Additional provisions may include emergency power backup, surge protection, clean earth systems, and compliance with safety codes like IEC or NFPA. Specialized outlets, proper labeling, and environmental	8

		controls (like temperature and humidity regulation) also support the safe and efficient functioning of lab equipment.	
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