

**Indian Institute of Technology, Kanpur
G.T. Road, Kalyanpur, Kanpur – 208016
Uttar Pradesh, India**



Notice Inviting Tender

Tender Details

Tender Reference Number	IITK/BSBE/JGR/23-24/06
Item Description	Lab furnishing – Laurus Center for Gene Therapy (As per Annexure I-A and II-A)
Item Quantity	BOQ in Annexure I-B and II-B
Bid Submission Start Date & Time	04.10.2023 (16:00 hr)
Bid Submission End Date & Time	15.10.2023 (16:00 hr)
Bid Opening Date	16.10.2023 (11:00 hr)
Bid Submission Address	Dr. Jayandharan G Rao, Professor, Lab-13, Dept. of BSBE, IIT Kanpur, Kalyanpur-208016, U.P.

Sealed quotations are invited for the purchase of the above items in the Two bid system. Both Technical bid and financial bid in separate envelopes must be kept in a big envelope which must be superscribed by Tender Reference number, Item Description and bid submission end date. The sealed copy of bids must reach the above designated address on or before the Bid Submission End Date & Time.

Terms and Conditions	
Quotation Validity	90
Place of Delivery	Laurus Center for Gene Therapy, MFCEM, IIT Kanpur
Delivery with Installation	06 weeks for delivery and 01 week for installation
Warranty	07 Years on furniture and 03 Years on Video conference setup
Payment Terms	As per IIT Kanpur Norms

Indian Institute of Technology, Kanpur
Laurus Center for Gene Therapy, MFCEM, IIT Kanpur

Sub: TENDER FOR LAB FURNISHING – LAURUS CENTER FOR GENE THERAPY

Enquiry date: 04.10.2023

Enquiry No: IITK/BSBE/JGR/23-24/06

Last date: 15.10.2023

Quotations are invited for the above-mentioned subject as per the detailed specifications in I-A and II-A & quantity listed in I-B and II-B, respectively

ANNEXURE I-A

Item Description: For BOQ Line Item 1

Executive table set of combination of Table with Pedestal & Side return unit,

Overall table Size 1800W x 900D x 750H mm,

Table top Made of 36mm thick Pre laminated Plywood Board (PLPB) top with 2mm thick PVC edge banding, Sides made of 18mm thick PLPB legs, 2mm thick PVC edge banding, modesty & Pedestal made of 18mm thick PLPB with 2mm thick PVC edge banding, Three drawers pedestal made of 450mm width in 18mm thick PLPB material with SS handles, Side return unit 36mm thick PLPB top rest complete body made of 18mm thick PLPB material with 2 Nos. Swing door shutters & 3drawer pedestal with SS handles

Side return size 1200W x 600 D mm, product as per design given in image.

Board- Century / Greenply / Greenlam

Item Description: For BOQ Line Item 2

Executive Chair with Head rest: The Chair Shall be of Overall Size: H: 106-120, D 72.8, W 73.8 cm. Seat Height 44.5-54.5, SEAT/BACK ASSY.: The Cushioned seat made of 15mm thick hot pressed plywood with Fabric upholstery, The Net Back is made up of back outer (material-Glass Filled) & Back inner (material- PP) upholstered with polyester Mesh fabric. The size of the Back & seat are 44.5 cm. SEAT SIZE: 47.0 cm. (W) x 48.0 cm. (D), POLYURETHANE FOAM: The Polyurethane foam is moulded with density = 45 +/- 2 kg/m³ and Hardness = 20 +/- 2 at 25% compression. ARMRESTS: The armrest is having two adjustments, Height and Depth. The depth adjustment is provided in pad which is fixed to armrest structure. Armrest Top is made up of PU molded over plastic inner. SYNCHRO MECHANISM: The adjustable tilting mechanism is designed with the following features: • 360 revolving type. • Front-pivot for tilt with feet resting on ground and continuous lumbar support ensuring more comfort, Tilt tension adjustment can be operated in seating position. • 3-position Tilt locking mechanism is provided. Seat/back tilting ratio of 1: 2. The Lumbar pad (material- Poly Propylene) is fixed to lumbar spine through lumbar Pad support. Lumbar Support Assembly has height adjustment of approx 40mm. Neck-rest ASSEMBLY: The Neck-rest assembly consists of upholstered Neck-rest inner (material- Poly Propylene) with moulded Polyurethane foam & polyester fabric. Upholstered inner is fixed to Neck-rest cover. Neck-rest is fixed to back assembly through Neck-rest spine. PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of 8.0 cm. PEDESTAL ASSEMBLY: The pedestal is High Pressure Die cast Aluminium and fitted with 5 nos. twin wheel castors. The pedestal pitch-centre dia. is 60.0cm without castors. TWIN WHEEL CASTORS: The twin wheel castors are injection moulded in black nylon having 60mm wheel Diameter.

Item Description: For BOQ Line Item 3

Fixed Chair, Seat & back made of SS hollow pipe, 40 density foam & upholstered with crape fabric, fixed armrest.

Item Description: For BOQ Line Item 4

High Back Revolving Chair For Conference Room, Overall Dimension: 720W ±10 x 720D ±10 x 1250H ±10 mm, Seat of High back chair is made of 12mm thick hot pressed plywood pasted with PU Moulded foam with Fabric upholstery on Seat, Used PU Moulded foam on Seat of D-45 kg/m³, Back of High back chair is made of Injection moulded PP material structure in Black & steel colour combination upholstered with Mesh fabric, Adjustable Lumber support upholstered with fabric, Adjustable Headrest on back Upholstered with Mesh Fabric, Seat Size: 470W ±10 x 460D ±10 x 70Thick. ±5 mm, Back Size: 500W ±10 x 760H ±10, Mechanism: Synchro Tilt Mechanism 3 position locking, Tilt tension knob to loosen or tighten the tension according to users body weight, Gaslift: Lift -Used gaslift of 85 mm size of Class-IV grade, Plastic Gas lift cover, Armrest: Pu padded adjustable armrest, armrest fixed with Seat, Chair Base & Wheels: Aluminium die casted Chair Base, base consists of 5 prongs with 650±5 mm pitch circle diameter, 60mm Dia. Black Nylon - Twin Wheel Pin castor.

Item Description: For BOQ Line Item 5

Medium Back Revolving Chair, Overall Dimension: 720W ±10 x 720D ±10 x 1050H ±10 mm, Seat of High back chair is made of 12mm thick hot pressed plywood pasted with PU Moulded foam with Fabric upholstery on Seat, Used PU Moulded foam on Seat of D-45 kg/m³, Back of High back chair is made of Injection moulded PP material structure in Black & steel colour combination upholstered with Mesh fabric, Adjustable Lumber support upholstered with fabric, Seat Size: 470W ±10 x 460D ±10 x 70Thick. ±5 mm, Back Size: 500W ±10 x 550H ±10, Mechanism: Synchro Tilt Mechanism 3 position locking, Tilt tension knob to loosen or tighten the tension according to users body weight, Gaslift: Lift -Used gaslift of 85 mm size of Class-IV grade, Plastic Gas lift cover, Armrest: Pu padded adjustable armrest, armrest fixed with Seat, Chair Base & Wheels: Aluminium die casted Chair Base, base consists of 5 prongs with 650±5 mm pitch circle diameter, 60mm Dia. Black Nylon - Twin Wheel Pin castor.

Item Description: For BOQ Line Item 6

Conference table of overall size 3600 W x 1200D x 750H, Table top made of 36mm thick MDF with 4mm thick Veneer and PU polish, under structure legs & modesty made of 18mm thick PLPB with 2mm thick PVC edge banding, Legs & modesty should be in box style so can use it as a raceway channel, two nos. pf Popup box given on the top.

Item Description: For BOQ Line Item 7

3-seater sofa – Material: Leatherette, Colour & Colour Family Black , Dimension (L)1800mm X (D)710mm X (H)770mm, Seating Capacity 3 Seater, Seating Height 425mm , Legs Chrome plated, Finish Matte
Size Compact, Style Modern, SKU CLEMENT/3/L-37

Item Description: For BOQ Line Item 8

Single seater sofa - Material: Leatherette, Colour & Colour Family Black , Dimension (L)800mm X (D)710mm X (H)770mm, Seating Capacity 1 Seater, Seating Height 425mm , Legs Chrome plated, Finish Matte
Size Compact, Style Modern, SKU CLEMENT/1/L-37

Item Description: For BOQ Line Item 9

Center table with Glass top Made of 18mm thick pre laminated MDF board with glass top
Dimension 1200mm * 600 mm * 450 mm

Item Description: For BOQ Line Item 10

Magazine stand

Magazine Stand for office should be well designed magazine holders made of wood with four racks for holding magazines, books, newspapers etc. Both sides of this magazine stand should be carved with single wood giving it a unique attraction.

Item Description: For BOQ Line Item 11

Side Table: Made of 18mm thick pre laminated board

Dimension 450mm * 450 mm * 450 mm

Item Description: For BOQ Line Item 12

Back Cabinet, Over all size 1800W x 450D x 750H, made of 18mm thick PLPB with 2mm thick PVC edge banding, Table top of Size 1800W x 450D made of 18mm thick PLPB with 2mm thick PVC edge banding, Back cabinet consist of 4nos. of drawers & 4nos. of shutters, shelf provided in shutter storage, overall height 750mm, Stainless steel handles provided. Made of 18mm thick pre laminated board with glass shutters

Dimension 1500mm * 450 mm * 750 mm

Item Description: For BOQ Line Item 13

Wooden Book shelf

Made of 18mm thick pre laminated board

Dimension 900mm * 450 mm * 1800 mm

Item Description: For BOQ Line Item 14

Chair for Tissue Culture Room

Medium Back Revolving Chair, Overall Dimension: 720W ±10 x 720D ±10 x 1050H ±10 mm, with hand rest and solid base with adjustable height.

Item Description: For BOQ Line Item 15

Vendor Chair

Material: Powder Coated perforated Seat and Back, Chrome Plated , Dimension (L)1400mm X (D)600mm X (H)800mm, Seating Capacity 2 Seater, Seating, Legs Chrome plated,

Size Compact, Style Modern, SKU, L-3CH UP

Item Description: For BOQ Line Item 16

Video conferencing setup (software based)

4K ultra-high-definition ePTZ camera with a new design. Auto frame according to the number of people in the scene, and the characters are in the middle. It has perfect functions and superior performance, which employs advanced ISP processing algorithms so as to provide vivid images with evenly clear brightness, strong color layering, high resolution, and fantastic color rendition. Easy and convenient to install and maintain, stable and reliable.

- **Ultra HD 4K Resolution:** 1/2.8 inch high quality CMOS sensor. Resolution is up to 4K with frame rate up to 30fps (MJPG) or 30fps (H.264); compatible with 1080P and 720P
- **ePTZ:** ePTZ and 10X digital Zoom
- **Built-in MIC:** Built-in two omni-directional MIC pickups; with unique noise suppression algorithm, effective pickup distance up to 6 meters
- **Auto Framing:** Employing superior face detection algorithm to intelligently and automatically frames according to the number of people in the scene, and the characters are in the middle
- **Wide FOV:** 100 Degree wide angle and small distortion lens
- **Video output interface:** Video output interface USB 3.0
- **Multiple Audio/Video Compression Standard:** Supports H.264, MJPG, YUY2, NV12 video compression, to made video play smoothly

- **Low Noise and High SNR:** Super high SNR image is achieved with low noise CMOS. Even in the case of ultra-low illumination, the picture remains clean and clear
- **Multiple Installations:** Standard equipped with mold clamp. Easy to install on any devices, such as LCD screen, laptop, table and tripod
- **Easy to Use:** No need to download driver; USB 3.0 Plug and play
- **Wide Applications:** Personal video conferencing, enterprise video conferencing, collaboration meeting, etc

Item Description: For BOQ Line Item 17

Mobile Shelving unit for Archive room- Compactor

Size of each body H-1980 mm x Width -915mm x Depth 457mm, each body has 4 No of adjustable shelves making 5 compartments.

Provide centralise locking system in both push and mechanical compactors. Provide individual temporary locking of each carriage bas in mechanical compactors. Base /Carriage: Rigid welded construction made up of 3mm thick HR steel sheet. Rail/ track made up of 25x25mm square MS bar, 2.5mm and 3.0mm thick HR steel sheet.

Item Description: For BOQ Line Item 18

Foldable Ladder

5 steps 6 ft Ladder which can be used as a self-support, material should be aluminium, there should be heavy duty anti-skid & Guard rail for safety.

Item Description: For BOQ Line Item 19

Warranty& Maintenance – 07 years for lab furniture & 03 years on Video conference setup.

ANNEXURE I-B

Office Furniture		No of Set	Unit
1	Executive table set of combination of Table with Pedestal & Side return unit, Overall table Size 1800W x 900D x 750H mm,	1	SET
2	Executive Chair with Head rest	1	SET
3	Fixed Chair	4	SET
4	High Back Revolving Chair For Conference Room	20	SET
5	Medium Back Revolving Chair	30	SET
6	Conference table of overall size 3600 W x 1200D x 750H	1	SET
7	3 seater sofa set	1	SET
8	1 seater Sofa set	2	SET
9	Center table with Glass topMade of 18mm thick pre laminated board with glass top Dimension 1200mm x 600 mm x 450 mm	1	SET
10	Magazine stand	1	SET
11	Side Table Made of 18mm thick pre laminated board Dimension 450mm * 450 mm * 450 mm	1	SET
12	Back unit(low height) Made of 18mm thick pre laminated board with glass shutters Dimension 1500mm * 450 mm * 750 mm	1	SET
13	Wooden Book shelf Made of 18mm thick pre laminated board Dimension 900mm * 450 mm * 1800 mm	1	SET
14	Fixed Chair for Tissue Culture Room	12	SET
15	Vendor Chair	1	SET
16	Video conferencing set up(without Microphone)	1	SET
17	1 BAY - 4 HC Mechanical drive Mobile shelving unit for library ,	1	SET
18	Foldable Ladder	3	SET
19	Warranty& Maintenance	5	YRS

ANNEXURE II-A

Item Description: For BOQ Lab 16(i), Lab 17(i), Lab 18(i), Tissue Culture Lab(i), Central Facility(i) Island Laboratory Workbench

I-Frame System

1. The suspended under-bench welded units should be supported on heavy-duty steel frames fully carrying the load of worktops.
2. Its superior strength combined with aesthetically appealing end caps should give maximum flexibility and modularity while making a layout.
3. I-frame should be constructed with a cross section of 60mm x 40mm and should be 2 mm thick and should be without a vertical front leg to give a clean look. This should provide more knee space or leg space and should facilitate uninterrupted lateral movement of the under-bench units within the bench run.
4. The I-frame legs should be supplied with adjustable feet (tolerance from -5mm to +20mm) to correct the unevenness of flooring.
5. The tubular enclosed type construction should discourage dust accumulation and unwanted development of bacteria & fungus.
6. Drainage gradient should be well adjusted throughout the length of table and should have horizontal supports for drainage systems.
7. The structure should have a removable back panel to provide access for maintenance throughout the length of table.

ELECTRICAL TRUNKING WITH TWO SHELVES REAGENT RACK WITH OVERHEAD STORAGE:

1. Electrical trunking is made up of 1.6 mm thick GI MS Sheet.
2. The complete M.S. material of cabinet should be pre-treated (degreased, Zinc phosphate) and epoxy powder coated for better corrosion resistance.
3. The thickness of powder coat should be 45-50 microns, which passes the test of Salt Spray for 1000 hours.
4. It should have a high temperature withstanding capacity with excellent electrical insulation properties.
5. The rear portion of above accessories which is in contact with live metal should be made from thermo set material which will not melt on heating.

UNDER-BENCH STORAGE CABINETS ON HEAVY DUTY CASTORS: Suspended welded cabinet body should be of flush face construction with intersection of vertical and horizontal members like LH and RH side panel along with front horizontal channel, back panel and bottom panel. It should have the provision for relocation anywhere easily as it should be an independent unit. Cabinet should be of square non-sharp edge construction. Doors should be assembled with SS-304 hinge assembly. Removable back panel should be provided to easily access the service lines running behind the cabinet benches. Intermediate horizontal channels should be provided between door and drawer. Shelf should be eight bend panel with 20mm height. Drawer tray should be of single piece construction. Drawer should be well supported on LH and RH ball slide suspension system. Steel door and drawer front should be of double wall construction with sound dampening material filled inside. Doors should be easily removable, and hinges should be easily replaceable. The under-storage units for Island tables should be ergonomically distributed at an alternative intervals with leg space of same length as that of the under storage unit. And for wall facing tables continuous movable understorage units with castor wheels to be provided.

Dimensions: The dimensions of the cabinets should be W = 600/750, D = 530mm.

Configuration: The configurations should be 2 Shutter/ 2 Shutters and 1 Drawer.

MOC: The entire material construction for the storage units should be MSGI: IS – 513 (1994). **Thickness:** LH/RH side panels, shutter front, Bottom panel, Top front, Drawer separator, shelf, Alignment channel should be of 1.2mm thk. Removable Back panel, Shutter cover, Fr. Rack strip, Top cover panel should be of 1mm thick. **FINISH:** The finish of the welded cabinets should be powder coated pure epoxy of thickness 40- 60 microns. **Handles** should be Anodized Aluminium Recessed-Type, **CTC:** 160.0 mm. **LOCK:** Units should have a locking facility with 180° cam lock mechanism. **HINGES:** Soft-closing type SS 304 Hinges. Shutter should be of twin-type construction with sound dampening effect

using profeel. Shutter cover should be equipped with Bump on for sound dampening. **Ball Slide** : for drawer units should be 400mm length.

SERVICE FITTINGS AND ACCESSORIES: The service fittings (Sink, Faucet, Valve, Light fittings, Tube Light, Socket, Switch, drain board etc.) should be laboratory grade, and water faucets and valve bodies should be cast red brass alloy or bronze forgings, all fittings should be powder plated unless specified otherwise. Fittings should be identified with service indexes in the color coding as per DIN 12920.

ELECTRICAL TRUNKING:

The electrical trunking used for housing electrical switches and sockets, its top panel, bottom panel of the trunking should be made from 1.2 mm thick GI MS panel. It should be available in both, single sided and double-sided configurations. It should be made from GI MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope. The electric trunking unit should consist of Three Modular 16/6A switch socket MCB unit.

SWITCH & SOCKETS

1. These are made of High gloss virgin grade engineering thermoplastics to impart a defect free surface. 2. They impart excellent electrical insulation properties.
3. Owing to this all electrical switches and sockets are capable of handling higher currents and operating temperatures.
4. Front plates can be changed at any time with ease without disturbing the wiring to quickly and economically match changes in the surroundings.

Item Description: For BOQ lab 16(ii), Lab 17(ii), Lab 18(ii,viii,ix,x), Central facility Lab(ii,iii) Wall Laboratory Workbench

Supply and placing of laboratory workbenches .

C-FRAME SYSTEM: All C-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 GI 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. C-frame should be constructed from a rectangular pipe with a cross section of 60mm x 40mm and should be 2 mm thick and should be without a vertical front leg to give a clean look. This shall provide more knee space or leg space and would facilitate uninterrupted lateral movement of the under- bench units within the bench run. The C-frame legs should be supplied with adjustable feet (tolerance from - 5mm to +20mm) to correct the unevenness of flooring.

UNDERSTRUCTURE ON HEAVY DUTY CASTORS: All understructure assemblies shall be made up of GI sheet metal confirming to IS Code 513:1994. The assemblies consists of horizontal members made up of 1 mm thick GI MS with pure epoxy powder coating of 50 – 70 micron thickness. The back panels, cover panels and side panels are made up of 1 mm thick GI MS with pure epoxy powder coating of 50 – 70-micron thickness. The cover panels shall cover the service lines that run behind them and easily removable for future service line maintenance purposes. The tubular enclosed type of construction shall discourage dust accumulation and unwanted development of bacteria & fungus. Drainage gradient should be well adjusted throughout the length of table and should have horizontal supports for drainage systems. The structure should have a removable back panel to provide access for maintenance throughout the length of table. The C-frame shall also have skirting at back bottom side. It should be suitable for standing nominal heights of 900mm respectively for the laboratory. The table depth/width should be 750/900mm for Wall facing tables and 1500/1800 mm for Island tables. The length of the table should be as per the approved laboratory furniture layout.

REMOVABLE BACK PANELS: These cover panels should cover the **service lines (eg: for sink, Laboratory faucet, Valve etc.** with complete pipeline for inlet and outlet and electrical Switch, Socket, light etc with complete internal

electrical wiring as per standard wherever required) that run through the middle for the island units. These should be easily removable (unclipped) and the service line should be accessed for maintenance. They should be made of GI MS of 1mm thickness with pure epoxy powder coating of 50-70 microns.

COVER PANELS: All side cover panels and back panels, filler panels should be made from GI MS panels of 1.0 mm thickness with pure epoxy powder coating of 50-70 microns.

ADJUSTABLE REAGENT SHELVES: Depending upon the layout, height adjustable reagent rack shelves should be provided with 1" of height adjustability. It should be complete modular design consisting of 2 stage horizontal storage shelves made of minimum 1 mm thick GI MS with pure epoxy powder coating and having cutouts for electrical switches and sockets. Cutout for 3 module plate to be provided. All the members are knock down and can be restructured. The Reagent Racks vertical pillars should be made from GI MS of 1.6 mm thickness with pure epoxy powder coating with MS brackets of 2 mm thickness.

Item Description: For BOQ Lab 16(iii),Lab 17(iii),Lab 18(iii)

Modular Wall Facing Workbench without base cabinet , with 7 nos of Electrical raceway with 16 amp switches and sockets with granite top Full Length Adjustable Reagent Shelves in 14-16 gauge GI sheet constructure to increase load capacity Two tier - Depth 300mm Ht 600mm

Table top: 18 +/- 2 mm thick well-polished Jet Black Granite with half round nosing, acid-resistant, alkali-resistant Material of Construction for Work Bench: C Frame assembly from standard hollow section conforming to IS 7138/60 mm X 30 mm x 2 mm thick with all other structures made in GI sheet of 16-18 gauge.

All C-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 GI confirming to IS Code 513:1994. C-frame should be constructed from a rectangular pipe with a cross section of 60mm x 30mm and should be 2 mm thick and should be without a vertical front leg to give a clean look.

This shall provide more knee space or leg space and would facilitate uninterrupted lateral movement of the under-bench units within the bench run.

The C-frame legs should be supplied with adjustable feet (tolerance from -5mm to+20mm) to correct the unevenness of flooring.

The tubular enclosed type construction shall discourage dust accumulation and unwanted development of bacteria & fungus. The structure should have a removable back panel to provide access for maintenance throughout the length of table.

The C-frame shall also have skirting at back bottom side. Finish on metal surface: Epoxy polyester powder coating with dry film thickness of 50 – 70 microns.

Interior & Exterior will be provided with powder-coated finish. Under Bench Cupboards will be provided with Top Drawer and Bottom Two Shutter with one Horizontal Partition.

All necessary hardware fitting like Heavy Duty Drawer Channels for smooth rolling to be provided.

Item Description: For BOQ Lab 16(iv),Lab 17(iv),Lab 18(iv)

GI Modular Wall facing Workbench (L shaped) Modular Wall facing Workbench with 1 base cabinet (2 shutters 1 no) and 1 corner unit , with 2 PP sink and 3 way faucet with 2 pegboard and eyewash.

Table top: 18 +/- 2 mm thick well-polished Jet Black Granite with half round nosing, acid-resistant, alkali-resistant with 2 PP sink & 3 way faucet brass type

Material of Construction for Work Bench: C Frame assembly from standard hollow section conforming to IS 7138/60 mm X 30 mm x 2 mm thick with all other structures made in GI sheet of 16-18 gauge.

All C-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 GI confirming to IS Code 513:1994.

C-frame should be constructed from a rectangular pipe with a cross section of 60mm x 30mm and should be 2 mm

thick and should be without a vertical front leg to give a clean look.

This shall provide more knee space or leg space and would facilitate uninterrupted lateral movement of the under-bench units within the bench run.

The C-frame legs should be supplied with adjustable feet (tolerance from -5mm to+20mm) to correct the unevenness of flooring.

The tubular enclosed type construction shall discourage dust accumulation and unwanted development of bacteria & fungus. The structure should have a removable back panel to provide access for maintenance throughout the length of table.

The C-frame shall also have skirting at back bottom side. Finish on metal surface: Epoxy polyester powder coating with dry film thickness of 50 – 70 microns.

Interior & Exterior will be provided with powder-coated finish. Under Bench Cupboards will be provided with Top Drawer and Bottom Two Shutter with one Horizontal Partition.

LABORATORY SINK AND ACCESSORIES: The sinks should be polypropylene molded construction made up of 5 mm thick high density and elastic poly propylene with good resistance to organic solvents. Bowl size should be 560 L x 350 W x 255 D mm. Faucet should be 3-way type. The worktop 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 meeting 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.

[NOTE : Supply and installation of laboratory furniture with necessary placement of sink, Laboratory faucet, valve etc. with complete pipeline for inlet and outlet and electrical Switch, Socket, light fittings etc with complete internal electrical wiring as per standard wherever required will be within the scope of the Bidder/Agency. Source of Water inlet and waste outlet and Electricity Source will be provided within the room.]

Item Description: For BOQ lab 18(vi)

SINK UNIT : Providing and Placing in position Sink Unit. Welded cabinet body shall be of flush face construction with intersection of vertical and horizontal members along with front horizontal channel, back panel and bottom panel. It shall be relocated anywhere easily as it should be an independent unit. Cabinet shall be of square non-sharp edge construction. Doors shall be assembled with SS-304 hinge assembly. Door front shall be of double wall construction with sound dampening material filled inside. Doors shall be easily removable and hinges shall be easily replaceable. Thickness of side panels, shutter front, Bottom panel, Top front, should be of 1.2mm and for Shutter cover, Front Rack strip, Top cover panel shall be of 1 mm. Powder coating shall be pure epoxy with thickness of 50-70 microns. Anodized Aluminum Recessed- Type handles shall be provided. Providing and fixing PP Drop-In Sink with Anti-Siphon Bottle Trap and Flexible Serated Connector to connect sink to the waste line, length 1metre. and 38mm Dia. Polypropylene Molded Sinks shall be made up of 5 mm thick high density and elastic poly propylene with good resistance to organic solvents. Polypropylene Sinks (Drop-in) of overall size 560 L x 350 W x 255 D (mm), (Black color). Classic timeless appearance in matt finish, non rusting and easy to maintain with bottle trap. Providing and fixing 3-way outlet Water Faucet on each Sink Unit. The Faucet shall have 3 swan neck type water faucet made up of Brass with epoxy powder coating. It should be PH and rust resistant. The switch valve cast to be made of ceramic that can avoid acid wear. The outlet produced in PVC, has detachable hose nozzles, allay pressure, changeable high-pressure outlet constructed or normal clean outlet control of water flow faucet immediately

PEG BOARDS : Supply and installation of single faced high grade Polypropylene pegboard having a tray hole for water drainage and detachable pegs . Minimum 20 no's of Pegs should be present.

EYE WASH : Supply and Installation of Emergency Eye Wash with double spray-type outlet heads to deliver a soft , wide , high volume spray of water . Outlet heads should have an internal self-regulating flow control, a reticulated polyurethane filter, a threaded spray cover and a hinged swing-away dust cover. Hinged cover should be permanently

attached to outlet head body with a stainless steel pin. All wearing components should be located inside spray head for ease of service. All emergency eye wash and shower equipment should be third party certified to comply with ANSI Z358.1-2009.

Item Description: For BOQ Lab 18 (vii)- Anti Vibration Workbench

Supply and placing of Anti Vibration workbench of Size-750mm L X750mm W X750mm H.

Table Top - 18 +_ 1 mm Thick Granite.

Shock Absorber - Rubber pads

Structure Details- Made of Custom designed rubber pads are provided below the granite & at the bottom of the table to absorb the vibrations. Structure made with 1mm thick CRC material. Interior & Exterior Finish with 50-70 microns powder - coated finish.

SPECIFICATION : 2Hz natural frequency built-in air isolators .Active self-levelling and passive pump up versions. Highly rigid laminated construction with damping core.

Item Description :For BOQ Central facility iv- Fumehood & its auxiliaries

Supply and Installation of Laboratory grade Fume Hood with inbuilt blower and overall Dimension of Length : 1200 mm , Width – 900mm , Height -2250mm- 1 Unit

Design Structure: Aerodynamic, Floor mounted, Airflow type: Auto by pass type (for non AC labs),

Exterior Construction: 1.2 & 1.5 mm heavy duty electro galvanized Steel (as per IS: 513) sheets with epoxy powder coating and rigid structure.,

Interior Construction: Chemical and Heat resistant, Fire retardant, Smooth finish, Easily Cleanable Panels made out of durable material integral work walls, 6 mm thick,

Front Top Panel: Easily open able hinged top panel for easy access to Flow control Valve and electrical lighting fixtures for maintenance.,

Airfoil: Aerodynamic design. Horizontal airfoil mounted on the worktop made of 1.6mm thick GI sheet.

Worktop: Chemical resistant slash and spillage proof dished HPL worktop (16 to 18 mm thick)., Sash (Shutter): Vertical rising counter-balanced sash. Toughened Float Glass sash for full work area visibility (5 mm thick). Smooth and light sash operation. Clear operable height (750 mm).,

Lighting: Fluorescent light (20 watt, 1 nos.) with vapour proof housing and fitting for proper illumination., Electrical

Utilities: 3 Nos. of 5/15 amp electrical points shall be provided on the right side of the fume hood with tube light switch.

Push button starter and electrical connector shall be fixed on the top of the fume hood with all internal connections.,

Working Surface`& Drip Cup: 19mm thick super black granite will be provided for the table top of fume hood also PP Small drip cup for the draining of water from the fume hoods.,

Utility Services: Remote operated services fitting will be provided inside the fume hood with 1 Water, 4 Nos. for Gas., CENTRIFUGAL BLOWER: 1350 CFM Chemical & heat resistant PP blower with aerodynamically balanced impeller, with drain plug. Conforming to fume hood face velocity as required. Electrical motor 1 HP, 1 phase TEFC, IP55, Class F, direct drive foot mounted motor will be provided

Item Description :For BOQ Auxillary works (ii)-Laboratory Stool:

Supplying and placing of stool. The seat should be made up of 1.2±0.1cm thick flat plywood and with moulded Polyurethane foam and should be upholstered with replaceable synthetic leather covers. The seat size to be of diameter 38.0 cm having adjustments of 360° revolving type. The back foam should be designed with contoured Lumbar support for extra comfort. The upholstery should be made of synthetic leather. The back size should be of 45.0 cm (W) covered with polyurethane foam. The High Resilient (HR) polyurethane foam should be moulded with density = 45 +1-2 kg/m3 and Hardness load 16 ± 2 kgf for 25% compression.

The manual height adjustment should be easy to operate with the help of a knob. It should be easily lockable at the most comfortable position. The five-prong pedestal should be fabricated from 0.2 ± 0.02 cm DD 1079 / HR sheet, powder coated (DFT 40-60 microns) and fitted with an injection moulded black Polypropylene Hub Cap and 5 nos. twin wheel castors. The pedestal-should be 45.0±0.5cm pitch-circle diameter-(50.0±-1,0cm-with-castors). Circular-foot-ring of

042.0±0.2cm should be made up of 01.9±0.2 x0.12±0.0096cm thick MS ERW Tube for foot support. The twin wheel castors should be injection moulded in Black Nylon.

LIST OF APPROVED MAKES FOR COMPONENTS

Steel	TATA Steel, JINDAL Steel, SAIL
Powder Coating	Kansai Nerolac, Berger Paints, Asian Paints
Switches Sockets with MCB Unit	Northwest, Anchor , Norisys, Havells, Legrand
Locks, Fittings & Hardware	Hettich, Hafele,Ebco ,Godrej
Drawer Slides, Hinges	Hettich, Hafele,Ebco ,Godrej
LED Tubelight	Phillips, Havells
Electric Cable	Havells , Polycab, Finolex
Water Faucets and Gas Valves:	Broen/Watersaver/ L&T/RWD/ Amtech
Video Conferencing Unit	Polycomm/Ekin/BenQ

ANNEXURE II-B

BOQ

Lab 16 - Laboratory Workbenches in 60mm x 30mm x 2mm C-frame Construction		In RMT	No of Set	Total	Unit
i	Island Workbench : Lab Counter 750 mm wide, 900 mm high as above with heavy duty Reagent racks with built in Overhead storage units throughout the running length supported by master uprights and with mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	7.2	3	21.6	RMT
ii	Instrument Lab Counter 900 mm wide, 900 mm high as above with Electric Trunking Unit and continuous mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	1.5	2	3	RMT
iii	Lab Workstation Counter 900 mm wide, 750 mm high as above with continuous heavy duty 2 tier storage racks with electrical raceway(1.2mm GI construction)	6.6	1	6.6	RMT
iv	Sink table: L shape Lab Counter 750 mm wide, 900 mm high as above with 2 sink units(1 corner+1 terminal)with 2 shutter	1.5+1	1	2.5	RMT
v	Glass Shutter Over Head cabinet : Made of epoxy powder coated 16-18 gauge sheet, Dimension-600 mm W x 400 mm D x 600 mm H		9	9	SET

Lab 17 - Laboratory Workbenches in 60mm x 30mm x 2mm C-frame Construction		In RMT	No of Set	Total	Unit
i	Island Workbench : Lab Counter 750 mm wide, 900 mm high as above with heavy duty Reagent racks with built in Overhead storage units throughout the running length supported by master uprights and with mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	7.2	3	21.6	RMT
ii	Instrument Lab Counter 900 mm wide, 900 mm high as above with Electric Trunking Unit and continuous mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	1.5	2	3	RMT
iii	Lab Workstation Counter 900 mm wide, 750 mm high as above with continuous heavy duty 2 tier storage racks with electrical raceway(1.2mm GI construction)	6.6	1	6.6	RMT
iv	Sink table: L shape Lab Counter 750 mm wide, 900 mm high as above with 2 sink units(1 corner+1 terminal)with 2 shutter	1.5+1	1	2.5	RMT
v	Glass Shutter Over Head cabinet : Made of epoxy powder coated 16-18 gauge sheet, Dimension-600 mm W x 400 mm D x 600 mm H		15	15	SET

Lab 18 - Laboratory Workbenches in 60mm x 30mm x 2mm C-frame Construction		In RMT	No of Set	Total	Unit
i	Island Workbench : Lab Counter 750 mm wide, 900 mm high as above with heavy duty Reagent racks with built in Overhead storage units throughout the running length supported by master uprights and with mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	7.2	3	21.6	RMT
ii	Instrument Lab Counter 900 mm wide, 900 mm high as above with Electric Trunking Unit and continuous mobile	1.5	2	3	RMT

	understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction				
iii	Lab Workstation Counter 900 mm wide, 750 mm high as above with continuous heavy duty 2 tier storage racks with electrical raceway(1.2mm GI construction)	4.4	1	4.4	RMT
iv	Sink table: Lab Counter 750 mm wide, 900 mm high as above with 1 sink units	1.2	1	1.2	RMT
v	Sink Unit 900x750x900	0.9	1	0.9	
vi	Glass Shutter Over Head cabinet : Made of epoxy powder coated 16-18 gauge sheet, Dimension-600 mm W x 400 mm D x 600 mm H		20	20	SET
vii	Anti Vibration Table		2	2	SET
viii	Inner room 1 table 1: L shape Lab Counter 900 mm wide, 900 mm high and lab counter 750mm wide,900mm high with continuous mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	1.1+ 1.2	1	2.3	RMT
ix	Inner room 2 table: L shape Lab Counter 900 mm wide, 900 mm high and lab counter 750mm wide,900mm high with continuous mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	1.5+ 1.2	1	2.7	RMT

Tissue Culture Laboratory Workbenches in 60mm x 30mm x 2mm C-frame Construction		In RMT	No of Set	Total	Unit
i	Island Workbench : Lab Counter 750 mm wide, 900 mm high as above with heavy duty Reagent racks with built in Overhead storage units throughout the running length supported by master uprights and with continuous mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	5.2	1	5.2	RMT
ii	Virus Room Workbench: Lab Counter 900 mm wide, 900 mm high as above with built in Overhead storage units throughout the running length supported by master uprights and with mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	4.5	1	4.5	RMT
iii	Stainless Steel 316 Shoe Rack : Made of 18 gauge sheet, Dimension-900 mm W x 450 mm D x 600 mm H		2	2	SET
iv	Providing & Fabrication of Aluminum Partition & Door Providing and fixing full height single skin aluminum partition with 4mm thick float glass and 10mm thick pre laminated particle board combination. Fixing with required hardware and rubber gasket all complete		1	340	SQFT
v	Air Curtain Supply and installation of Aluminum body air curtain 5 feet model -AAS-225 with door on off sensor		1	1	SET
vi	Glass Shutter Over Head cabinet : Made of epoxy powder coated 16-18 gauge sheet, Dimension-600 mm W x 400 mm D x 600 mm H		4	4	SET

Central Facility Laboratory Workbenches in 60mm x 30mm x 2mm C-frame Construction		In RMT	No of Set	Total	Unit
i	Island Workbench : Lab Counter 750 mm wide, 900 mm high as above with heavy duty Reagent racks with built in Overhead storage units throughout the running length supported by master uprights and with continuous mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	5.2	1	5.2	RMT
ii	U shaped Lab Counter 900 mm wide, 900 mm high as above with Electric Trunking Unit and 2 corners of 1050mm and continuous mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	3.6+4 .65+3	1	13.35	RMT
iii	Dark room Lab Counter 600 mm wide, 900 mm high as above with Electric Trunking Unit	1.8	1	1.8	RMT
iv	Fume hood		1	1	SET
v	Centrifugal Blower		1	1	SET
vi	PP + FRP ducting for Fume-hood	15	1	15	RMT
vii	Providing & Fabrication of Aluminum Partition & Door Providing and fixing full height single skin aluminum partition with 4mm thick float glass and 10mm thick pre laminated particle board combination. Fixing with required hardware and rubber gasket all complete		1	135	SQFT
viii	Supply & Installation of Wallpaper Vinyl Wallpaper in solid Dark Colour		1	130	SQFT
ix	Glass Shutter Over Head cabinet : Made of epoxy powder coated 16-18 gauge sheet, Dimension-600 mm W x 400 mm D x 600 mm H		17	17	SET
Cold Room		In RMT	No of Set	Total	Unit
i	Lab Counter 600 mm wide, 900 mm high as above with Electric Trunking Unit a and continuous mobile understructure on heavy duty castor wheels of 1-Drawer+2 shutter construction	1.2	1	1.2	RMT
Auxiliary works		In RMT	No of Set	Total	Unit
i	Slotted Angle Rack Material of Construction: 18G thick perforated GI Sheet. Interior & Exterior should be provided with powder- coated finish with 3 nos. of shelved and 4 nos. of compartments. Rack Dimension-900mm W*450 mm D*1800 mm H		4	4	SET
ii	Lab stools		54	54	SET
iii	Providing & Fabrication of Aluminium Partition & Door Providing and fixing full height single skin aluminium partition with 4mm thick float glass and 10mm thick pre laminated particle board combination. Fixing with required hardware and rubber gasket all complete		1	160	SQFT
iv	Water Pipeline and Connection B. Internal Water Pipeline Connection- for Labs B.1. PVC Pipe 25 mm for Water Inlet B.2. PVC Pipe 75 mm for Water Outlet B.3. Individual Water connection to all the sinks. (as per site requirements).Source of Water inlet and waste outlet and Electricity Source will be provided within the room by the buyer.		1	1	SET
v	Internal Electrical Connection. Internal Electrical Connection - 2.5 cable (ISI mark) cover with flexible pipe & PVC Casing from inside of lab. (as per site requirements)		1	1	SET

Warranty and Maintenance	
i	Warranty & Maintenance – 07 years for lab furniture & 03 years on Video conference setup.

Scope of Annual Maintenance Services

- Cleaning and Inspection:** Experienced technicians should perform a thorough cleaning of all furniture, including caseworks, storages, fume hood body and linings, worktops, sink units and any other materials. And also should conduct a detailed inspection to identify any existing or potential issues.
- Alignment and Repairs:** Any minor repairs or adjustments required for furniture should be promptly addressed to concerned authority. This includes fixing loose joints (if any), replacing worn-out components (if any), and addressing any structural concerns (if any). Auxiliary works like plumbing line, electrical connections, ducting line should be assessed thoroughly.
- Refinishing:** The firm should assess the condition of metal and wood finishes, polishing, and coatings. If necessary they should refinish or touch up the furniture to restore its original luster.
- Upholstery Care:** For upholstered furniture, they should clean and condition the fabric, addressing stains and wear and tear also provide fabric protection treatments if desired.
- Hardware and Accessories:** All hardware components and accessories should be inspected and, if necessary, replace to ensure the furniture functions perfectly.
- Preventive Maintenance:** Provide recommendations for ongoing care and maintenance to minimize future wear and tear, extending the life of furniture.

The quotation should reach the undersigned on or before the last date

PI/ Indentor details:

Dr. Jayandharan G Rao

Professor

Lab-13, Dept. of BSBE

Indian Institute of Technology Kanpur

Kalyanpur-208016, Uttar Pradesh

Contact: 0512-2594084, e-mail ID: mgtlab13@gmail.com

Terms and Conditions:

- Quotations should be sent to the PI/ Indentor address
- Quotation should be valid for minimum 90 days
- Ensure to specify details clearly during technical bid
- Payment terms should be mentioned in the quote
- All process should be F.O.R.
- Delivery period should be within 6 weeks from the date of purchase order followed by the installation in one week.
- The Institute reserves the right to cancel the tender at any stage without assigning any reason thereof.


Signature of the PI/ Indentor

➤ **Selection Criteria:**

Phase-I: Technical Evaluation & Sample Approval

Technical evaluation will be done based on information/item or product catalogue provided in technical bids submitted by the bidders. A bid containing partial, incomplete, unclear, superfluous and unwanted information will be summarily rejected.

Technical declaration must be supported with relevant documents. Discrepancy in relevant supporting documents and technical compliance sheet shall lead to rejection of technical bids.

Phase-II

- a. Financial bids of technically qualified or/and approved samples shall be opened.
- b. Financial evaluation is purely done on the total financial implication.
- c. Financial Bids with any superfluous, unreasonable rates will be summarily rejected.

➤ **Late Delivery:**

Delivery must be completed within the period mentioned in tender document from the date of receipt of the order. Penalty @ 1% per week or part thereof subject to a maximum of 10% of the delivery price will be deducted from the balance payment if supply is not completed within stipulated period.

➤ **Instruction to the bidder of countries which share land border with India (Rule 144(xi) of GFRs, 2017)**

- I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT). Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with any entity from a country which shares a land border with India, shall also require to be registered with the DPIIT.
- II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- III. "Bidder (or entity) from a country which shares a land border with India" for the purpose of this Order means: -
 - a. An entity incorporated, established, or registered in such a country; or

- b. A subsidiary of an entity incorporated, established, or registered in such a country; or
- c. An entity substantially controlled through entities incorporated, established, or registered in such a country; or
- d. An entity whose beneficial owner is situated in such a country; or
- e. An Indian (or other) agent of such an entity; or
- f. A natural person who is a citizen of such a country; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

IV. The beneficial owner for the purpose of (III) above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation-

- a. "Controlling ownership interest" means ownership of, or entitlement to, more than twenty-five per cent of shares or capital or profits of the company.
 - b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions, including by virtue of their shareholding or management rights or shareholders agreements or voting agreements.
2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.
 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals.
 4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.
 5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

- V.** An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

[Note:i. A person who procures and supplies finished goods from an entity from a country which shares a land border with India will, regardless of the nature of his legal or commercial relationship with the producer of the goods, be deemed to be an Agent.

ii. However, a bidder who only procures raw material, components etc. from an entity from a country which shares a land border with India and then manufactures or converts them into other goods will not be treated as agent.]

- VI.** In case of tenders for Works contracts, including Turnkey contracts, The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority
- VII.** The registration shall be valid at the time of submission of bid and at the time of acceptance of bid.
- VIII.** If the bidder was validly registered at the time of acceptance / placement of order, registration shall not be a relevant consideration during contract execution.
- As per the Ministry of Commerce and Industry Order No. P-45021/2/2017-PP(BE-II) dated 16.09.2020 preference shall be given to Make in India products for which it is mandatory for bidders to declare Country of Origin of goods and percentage of Local contents in the product.

Definitions:

“Local Content” means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

“Class-I local supplier” means a supplier or service provider, whose goods, services or works offered for procurement, has local content to or more than 50%, as defined under this order.

“Class-II local supplier” means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this order.

“Margin of purchase preference” means the maximum extent to which the price quoted by a Class-I local supplier may be above the L1 for the purpose of purchase preference. (shall be 20%)

Purchase Preference:

- (a) Subject to the provisions of this Order and to any specific instructions issued by the Nodal Ministry or in pursuance of this Order, purchase preference shall be given to ‘Class-I local supplier’ in procurements undertaken by procuring entities in the manner specified here under.
- (b) In the procurements of goods or works, which are covered by para 3(b) above and which are divisible in nature, the Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:
- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is Class local supplier', the contract for full quantity will be awarded to L1.
 - ii. If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1

price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.

- (c) In the procurements of goods or works, which are covered by para 3(b) above and which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-1 local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:
- i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-1 local supplier', the contract will be awarded to L1.
 - ii. If L1 is not 'Class-1 local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
 - iii. In case such lowest eligible 'Class-1 local supplier' fails to match the L1 price, the 'Class-1 local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-1 local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.
- (d) "Class-II local supplier" will not get purchase preference in any procurement, undertaken by procuring entities.

(A)
COMMERCIAL TERMS AND CONDITIONS

1. DEFINITIONS

These Commercial Terms and Conditions shall constitute the General Conditions of Contract, where no separate contract is signed with the selected Bidder(s), and, the Bidders by putting their signature and stamp on each page of this Section V are binding themselves to these Terms and Conditions. In the Commercial Terms and Conditions as defined below, words and expressions shall have the following meanings assigned to them:

- a. "Contract" means the agreement of the Parties relating to the procurement of Goods and / or the IITK Purchase Order (PO), and all attachments incorporated by reference, which shall form an integral part of the Contract. In the event of any discrepancy, the documents to prevail shall be given precedence in the following order: (i) the Contract (where separately signed), (ii) the IITK Purchase Order, (iii) its attachments, and (iv) these Commercial Terms and Conditions;
- b. "Contractor" means the person or entity named in the 'CONTRACTOR' named field of the IITK Purchase Order and any agreed in writing by the IITK legal successor(s) in title;
- c. "Day" means any calendar day;
- d. "Delivery Date" means the latest possible date by which the Goods shall be delivered by the Contractor to the IITK, as specified in the 'DELIVERY DATE' named field of the IITK Purchase Order;
- e. "Force Majeure" shall mean any unforeseeable exceptional situation or event beyond the Parties' control which prevents either of them from fulfilling any of their obligations under the Contract, was not attributable to error or negligence on their part (or of their partners, contractors, agents or employees), and could not have been avoided by the exercise of due diligence. Defects in equipment or material or delays in making them available, labour disputes, strikes or financial problems cannot be invoked as Force Majeure by the defaulting Party. Neither of the Parties shall be held liable for breach of its obligations under the Contract if it is prevented from fulfilling them by Force Majeure. The Party invoking Force Majeure shall notify the other without delay, stating the nature, likely duration and foreseeable effect, and take any measure to minimise possible damage;
- f. "Goods" means all of the goods to be supplied to the IITK by the Contractor under the Contract;
- g. "IITK" means the Indian Institute of Technology Kanpur;
- h. "IITK Purchase Order" means the IITK's official Purchase Order document;
 - (i) "Party" means the IITK or the Contractor and "Parties" means the IITK and the Contractor; and
 - (ii) "Place(s) of Delivery" means the location(s) or place(s) where the Goods are to be delivered, as specified in the 'SHIP TO' named field of the IITK Purchase Order.

2. CONCLUSION OF THE CONTRACT

- 2.1.** The Contract is made between the IITK and the Contractor. The Contractor is engaged as an independent contractor for the sole purpose of delivering the Goods.
- 2.2.** The Contract shall be concluded upon the Contractor duly following the countersigning procedure as stated in the IITK Letter of Intent (LOI).

3. FUNDING

This Contract shall become and remain effective only on the condition that an official Purchase Order is issued by IITK following the conclusion of tender exercise. In the event this is not or no longer shall the case, the IITK without unreasonable delay notify the Contractor thereof.

Any continuation of the Contractor's performance under this Contract after being notified by the IITK shall be at the Contractor's risk and expense.

4. DELIVERY AND TAKE-OVER OF GOODS

The Contractor shall deliver the Goods at the Place(s) of Delivery. On behalf of the IITK, a duly authorised representative(s), shall take-over the Goods upon delivery. Take-over of the Goods by the IITK shall not be deemed acceptance of the Goods by the IITK. The time of delivery as specified in the Contract / PO shall be strictly adhered to, and time shall be of the essence.

5. QUALITY OF GOODS

- 5.1.** The Contractor shall deliver Goods that are:
 - a.** of the quality, quantity and description as required by the Contract / PO; and
 - b.** free from any right or claim of a third party, including rights based on industrial property or other intellectual property.
- 5.2.** Should the Goods be of the type "homogeneously defined" or disposable, the Contractor shall provide a sample and undertake, certify, and guarantee that all Goods delivered shall be of the same quality and characteristics as the sample(s) provided.

6. INSPECTION AND ACCEPTANCE

- 6.1.** The duly authorised representative(s) of the IITK shall have the right, before payment, to inspect the Goods either at the Contractor's stores, during manufacture, at the ports and/or in places of shipment, or at the Place(s) of Delivery. The Contractor shall provide all facilities for such inspection. The IITK may issue a written waiver of inspection. Any inspection carried out by representative(s) of the IITK or any waiver thereof shall be without prejudice to other provisions of the Contract concerning obligations assumed by the Contractor, including specifications of the Goods.
- 6.2.** Upon delivery and inspection of the Goods, the IITK shall inspect the goods as soon as possible and complete the Goods Receiving Document. Should any Goods fail to conform to the technical specifications, codes and standards under the Contract, the IITK may reject the Goods. The Contractor shall, at no cost to the IITK, replace the rejected Goods or, alternatively, rectify the non-conformity.
- 6.3.** In the case of Goods ordered on the basis of specifications or samples, the IITK shall have the right to reject the Goods or any part thereof and terminate the Contract if the Goods do not conform to the specifications and/or samples. Nothing in this clause shall in any way release the Contractor from any warranty or other obligations under the Contract.

7. SHIPPING AND INSURANCE

For overseas orders, shipping arrangements shall be co-ordinated by IITK. Original shipping documents including the packing list shall be airtailed/mailed by the Contractor to the (Deputy Registrar (S&P), IIT, Kanpur – 208 016, UP, India).

8. OBSERVANCE OF LAW AND EXPORT LICENCES

The Contractor shall comply with all laws, ordinance, rules and regulations bearing upon the performance of its obligations under the terms of the Contract. If an export licence or any other governmental authorisation is required for the Goods, it shall be the obligation of the Contractor to obtain such licence or governmental authorisation. In the event of the Contractor's failure to obtain such licence or authorisation within a reasonable time, the IITK may immediately terminate the Contract. Where the award procedure or execution of the Contract is vitiated by substantial errors or irregularities or by fraud, the IITK shall suspend execution of the Contract.

Where such errors, irregularities or fraud are attributable to the Contractor, the IITK may also refuse to make payments or may recover monies already paid, in proportion to the seriousness of the errors, irregularities or fraud. The purpose of suspending the Contract shall be to verify whether presumed substantial errors and irregularities or fraud have actually occurred. If they are not confirmed, execution of the Contract shall resume as soon as possible. A substantial error or irregularity shall be any infringement of a contract or regulatory provision of India, resulting from an act or an omission that causes or might cause a financial loss.

9. PRICE

The price of the Goods shall be as stated in the Purchase Order and may not be increased.

10. PAYMENT

- 10.1.** Unless otherwise stipulated in the Purchase Order, the IITK shall make payment within thirty (30) Days of the later of:
- a.** Successful delivery of the goods to IITK as confirmed by the consignee (Assistant Registrar, Store & Purchase, IIT-Kanpur), endorsed by the indenter and approved by the indenters' Head of Department / Section;
 - b.** Receipt of customary shipping documents and any other documents specified in the Contract; and (c) Receipt of the original invoice issued by the Contractor.
- 10.2.** All invoices shall be in original and shall contain the IITK Purchase Order number, and a description, the quantities, unit and total price(s) of the Goods delivered. The currency of invoice and payment shall be as specified in the Purchase Order. Unless otherwise authorised by the IITK, a separate invoice shall be submitted for each shipment under the Contract / PO. Subject to Clause 11 below ('Tax Exemption'), if applicable, the GST amount shall be separately identified in the invoice.
- 10.3.** Payments shall be made in the currency stated in the Contract / PO, on the basis of the equivalent value of INR on the day of payment and paid directly into the nominated bank account.
- 10.4.** The IITK shall not pay any charge for late payments.

11. TAX EXEMPTION

The Contractor's price shall reflect any tax exemption to which the IITK is entitled. If it is subsequently determined that any taxes that have been included in the price are not required to be paid or if, having been paid, any such taxes are subject to refunding, the IITK shall deduct the amount from the Contract price. Payment of such adjusted amount shall constitute full payment by the IITK. In the event that any taxing authority refuses to recognize the IITK's exemption from taxes, the Contractor shall immediately consult with the IITK to determine a mutually acceptable procedure for settling the applicable amount.

12. WARRANTY

- 12.1.** The Contractor warrants that the Goods furnished under the Contract conform to the technical specifications, description and standards specified in the Contract, and are new and unused, and free from defects in design, workmanship and/or materials.
- 12.2.** The Contractor shall provide a warranty for the Goods for a period of one year from the date of acceptance of the Goods by the IITK, unless the standard manufacturer's warranty period is longer in which case the longer period shall apply.
- 12.3.** In the case of "homogeneously defined" or disposable goods, should any portion of the Goods, at any time, not comply with clause 5.1 or 5.2 herein or otherwise prove to be defective, the Contractor shall, upon written notification from the IITK, replace that portion of the Goods and bear all costs associated with the replacement of same.

13. PACKING

- 13.1.** The Goods shall be packed and marked in a proper manner and in accordance with the Contract and any statutory requirements and any requirements of the carrier(s). In particular, the Goods shall be marked with the IITK Purchase Order number and the net, gross and tare weights, the name of the contents shall be clearly marked on each container and all containers of hazardous goods (and all documents relating thereto) shall bear prominent and adequate warnings.
- 13.2.** The Contractor shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination and the absence of appropriate handling facilities at all points in transit.
- 13.3.** All packaging materials shall be non-returnable.

14. DEFAULT AND DAMAGES

- 14.1.** If due to reasons attributable to the Contractor, the Contractor fails or refuses to:
 - a. deliver any or all of the Goods under the Purchase Order;
 - b. comply with any or all of the terms and conditions set out in the Purchase Order; or
 - c. deliver any or all of the Goods under the Purchase Order on or before the Delivery Date;the IITK may hold the Contractor in default under the Purchase Order.
- 14.2.** When the Contractor is thus in default, the IITK may, by written notice to the Contractor, immediately terminate the Purchase Order in whole or in such part or parts thereof in respect of which the Contractor is in default.
- 14.3.** Alternatively, to clause 14 above when the Contractor is thus in default, the IITK may, at its own discretion, set a reasonable period of time for the Contractor to remedy its default. Any new Delivery Date shall be specified in a written amendment to the Purchase Order, duly countersigned by the Contractor.

- 14.4.** The IITK may, at its discretion, impose penalties upon the Contractor calculated in accordance with clause 15 for each Day the Contractor is late in delivering the Goods past the Delivery Date initially specified in the Purchase Order.
- 14.5.** If the Contractor does not remedy its default within the period of time accorded under clause 16, the IITK may, by written notice to the Contractor, terminate the Purchase Order with immediate effect.
- 14.6.** Upon any termination of the Purchase Order, in whole or such part(s) thereof in respect of which the Contractor is in default, the IITK may engage another contractor to deliver the Goods and recover any difference in price and any additional costs from the Contractor.
- 14.7.** The Contractor shall indemnify the IITK for all losses, charges, costs and expenses, which the IITK may suffer or incur as a result the Contractor's default, including those resulting from engaging another contractor pursuant to this clause 14.

15. PENALTIES

If, in accordance with clause 15, the IITK imposes penalties on the Contractor, such penalties shall amount to One percent (1%) of the total Purchase Order price for each week following the initial Delivery Date specified in the Purchase Order but shall not amount to more than Ten percent (10%) of the total Purchase Order value. The penalties for the delay may be deducted by IITK from any sum(s) due, or to become due, by the IITK to the Contractor.

16. DELAY NOT ATTRIBUTABLE TO THE CONTRACTOR

If the Contractor is delayed at any time in the delivery of the Goods or fulfilment of any other of the Contractor's obligations by any act or omission of the IITK, or by any of its officials, or by any separate contractor(s) contracted by the IITK, or by changes ordered in the type and/or quantity of the ordered Goods, or the Place(s) of Delivery, or any causes beyond the Contractor's reasonable control, or by any other cause, which the IITK determines may reasonably justify the delay, the Delivery Date of the Goods, or fulfilment of any other of the Contractor's applicable obligations shall be extended for such reasonable period of time as the IITK and the Contractor mutually determine. The set reasonable period of time and any amended delivery date shall be specified in a written amendment to the Contract / PO, duly countersigned by the Contractor.

17. FORCE MAJEURE

As soon as possible after the occurrence of any event constituting Force Majeure, but no later than three (3) Days, the Contractor shall give notice and full particulars in writing to the IITK of the Force Majeure. If the Contractor is thereby rendered unable, wholly or in part, to meet its obligations under the Contract, the IITK may terminate the Contract / PO with immediate effect by providing written notice to the Contractor.

18. INDEMNITY

- 18.1.** The Contractor shall indemnify, hold and save harmless and defend at its own expense the IITK, and all of the foregoing's officials, agents, servants and employees from and against all suits, claims, demands and liability of any nature or kind, including costs and expenses, arising out of acts or omissions of the Contractor or its employees, agents or subcontractors in the performance of the Contract.
- 18.2.** Clause 18 shall include, without limitation, claims and liabilities in the nature of workmen's compensation and claims and liabilities arising out of the use of patented inventions or devices.

19. ASSIGNMENT

- 19.1.** The Contractor shall not assign, transfer, pledge or make other disposition of the Purchase Order or any part thereof or of any of the Contractor's rights, claims or obligations under the Purchase Order except with the express written consent of the IITK. Any assignment made without such consent shall be void and of no effect.
- 19.2.** The Contractor shall not subcontract any of its obligations under the Contract / PO without the express written consent of the IITK. The IITK may require the Contractor to furnish particulars of the proposed subcontract as the IITK deems necessary.
- 19.3.** The IITK's approval of any subcontracting shall not relieve the Contractor from any liability or obligation under the Contract. In any subcontract, the Contractor agrees to bind the subcontractor by the same terms and conditions by which the Contractor is bound under the Contract / PO.

20. INSOLVENCY AND BANKRUPTCY

- 20.1.** Should the Contractor become insolvent or should control of the Contractor change by virtue of insolvency, the IITK may with immediate effect and without prejudice to any other right or remedy available to it, suspend the performance of the Contractor's obligations or terminate the Purchase Order with immediate effect, by providing the Contractor with written notice thereof.
- 20.2.** Should the Contractor be adjudged bankrupt, or should the Contractor make a general assignment for the benefit of its creditors, or should a receiver be appointed on account of the Contractor's insolvency, the IITK may, without prejudice to any other right or remedy available to it, terminate the Purchase Order with immediate effect by providing the Contractor with written notice thereof.

21. TERMINATION

- 21.1.** The IITK shall have the right to terminate the Purchase Order or any of the provisions thereof at any time by serving a three days' notice to the Contractor.

22. WAIVER

A waiver of any breach of or default under the Contract / PO shall not constitute a waiver of any other breach or default and shall not affect the other terms of the Contract / PO. The rights and remedies provided by the Purchase Order are cumulative and are not exclusive of any other rights or remedies.

23. ADVERTISING

The Contractor shall not advertise or otherwise make public the fact that it is a contractor to the IITK. The Contractor shall not in any way use the name, emblem, logo, official seal, or any abbreviation of the IITK.

24. DISCRETION AND CONFIDENTIALITY

The Contractor is required to exercise the utmost discretion in all matters relating to the Contract / Purchase Order. Unless required in connection with the performance of the Purchase Order or expressly authorised in writing by the IITK, the Contractor shall not disclose at any time to any third party any information which has not been made public and which is known to the Contractor by reason of its association with the IITK. The Contractor

shall not, at any time, use such information to any private advantage. These obligations do not lapse upon any completion, expiration, cancellation or termination of the Contract / PO.

25. NOTICES

Any notice given in connection with the Contract shall be given in English and in writing and shall be deemed to be validly given if sent by registered mail or by fax or by email to the other Party at the following:

- a. for the IITK: the contact details set out in the 'IITK BUYER' name field of the Purchase Order; and
- b. for the Contractor: the contact details set out in the 'CONTRACTOR' named field of the IITK Contract/Purchase Order.

26. STAFF MEMBERS NOT TO BENEFIT

The Contractor shall not grant to any official of the IITK any direct or indirect benefit or preferential treatment on the basis of the Purchase Order or the award thereof. Any breach of this provision shall constitute a fundamental breach of the Purchase Order.

27. GOVERNING LAW

The Contract shall be governed by and construed in accordance with the substantive laws of the Republic of India.

28. SETTLEMENT OF DISPUTES

- 28.1.** The Parties shall use their best efforts to negotiate and amicably settle any disputes, controversies or claims arising out of, or in connection with, the Contract / Purchase Order or its interpretation.
- 28.2.** If the Parties fail to settle the dispute amicably within thirty (30) Days of commencement of the negotiations, the dispute shall be settled through arbitration. One (1) sole arbitrator shall be appointed by the Director of IITK who shall have full powers to make final and binding decisions subject to prevailing laws of India. The appointing authority shall be the Director of IITK. The place of arbitration shall be Kanpur and the language used in the arbitration proceedings shall be English.

29. PRIVILEGES AND IMMUNITIES

No provision of the Contract / Purchase Order shall be deemed, or interpreted as, a waiver of the privileges and immunities enjoyed by the IITK.

30. AMENDMENTS

No modification, amendment or change to the Contract/Purchase Order, or waiver of any of its provisions, or any additional contractual relationship with the Contractor shall be valid unless approved in the form of a written amendment to the Contract/Purchase Order, signed by a fully authorised representative of each Party.

31. VALIDITY

The invalidity in whole or part of any condition of the Contract / Purchase Order or clause thereof shall not affect the validity of the remainder of such condition or clause.

32. ENTIRE AGREEMENT

The Contract / Purchase Order constitute the entire agreement and understanding of the Parties and supersede any previous agreement, whether orally or in writing, between the Parties relating to the subject matter of the Contract.

33. GOVERNING LANGUAGE

The Contract / Purchase Order shall be executed in the English language which shall be the binding and controlling language for all matters relating to the meaning and interpretation of the Contract / Purchase Order.

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date: _____

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

_____ as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred/ terminated/ banned by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,
(Signature of the Bidder, with Official Seal)

Declaration for Local Content

**(To be given on Company Letter Head - For tender value below Rs.10 Crores)
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above
Rs.10 Crores)**

Date: _____

To,
The Director,
Indian Institute of Technology Kanpur,
GT Road, Kalyanpur, Kanpur -208016

Sub: Declaration of Local content

Tender Reference No: _____

Name of Tender / Work: - _____

1. Country of Origin of Goods being offered: _____
2. We hereby declare that items offered has _____% local content.

“Local Content” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

*“*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.”*

**Yours Faithfully,
(Signature of the Bidder, with Official Seal)**

Bid Security Declaration
(To be given on Company Letter Head)

Date: _____

To,
The Officer-In-Charge
Central Stores
IIT Kanpur-208016

Sub: Certificate for bid security declaration

Tender Reference No : _____

Tender ID : _____

Name of Tender / Work: -

"I/We have read the clause regarding Bid Security Declaration/Earnest Money Deposit and I/We are fully aware that if I/We withdraw or modify the bid during the period of validity I may be suspended for a period of 3 years ."

Yours Faithfully,
(Signature of the Bidder, with Official Seal)