REQUEST FOR PROPOSAL

Design, Supply, Installation, and Commissioning of Stationary and Mobile Accessories of Dry and Wet Laboratory for cGanga as per Available Space

Reference No.:: IITK/CGRB/2024-25/CPPP/03; Date: October 25, 2024

Location: *cGanga Office, 4th Floor, Research Park Complex, IIT Kanpur*
Indentor: Dr Purnendu Bose**, Phone no. 7792; email: pmc@cganga.org**

The bid forms and other details may be downloaded from Central Public Procurement Portal (http://eprocure.gov.in/eprocure/app). Aspiring bidders who have not enrolled / registered in e-procurement should enroll / register themselves before participating through web site http://eprocure.gov.in/eprocure/app. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at "Instructions for online bid submission."

Bidders can access quotation / tender documents on the website (for searching in the NIC site), kindly go to quotation search option and type 'IIT'. Thereafter, click on "GO" button to view all IIT quotations. Select the appropriate quotation / tender and fill them with all relevant information and submit the completed Quotation / Tender document online on the website http://eprocure.gov.in/eprocure/app. as per the schedule given in the next page.

Note: No manual bids will be accepted. All bids (both Technical & Financial) should be submitted in the e-procurement portal.

Applicants are advised to keep visiting the above-mentioned websites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.

The Project Management Cell, cGanga, IIT Kanpur
Environmental Engineering Laboratory
116 Western Laboratories (WL – 116))
IIT Kanpur Campus-208016, India

IMPORTANT INFORMATION:

Head, Centre for Ganga River Basin Management and Studies, IIT Kanpur is requesting for proposal from eligible and competent experienced agencies for **Design, Supply, Installation, and Commissioning of Stationary and Mobile Accessories of Dry and Wet Laboratory for cGanga as per Available Space.**

The single point of contact (SPOC) for this solicitation is:

PROJECT MANAGEMENT CELL
Email id: pmc@cganga.org
Phone: +91-512-259-7792

Questions about this RFP must be submitted via e-mail pmc@cganga.org. No additional project questions will be entertained after due date. A response addendum listing all question received and their responses will be posted on web site www.eprocure.gov.in/eprocure/app.

TARGET SCHEDULE OF EVENTS

EVENT	DATE
Issue of RFP document	25.10.2024
Start date of downloading	25.10.2024
Last date of submission of bid	16.11.2024 upto 3.00 PM
Date of Pre-bid meeting along with site visit	11.11.2024 at 1.00 PM
Date of opening of technical bid	18.11.2024 at 3.30 PM
Date of opening of financial bid	19.11.2024 at 3.30 PM
Venue of Pre-bid meeting	Environmental Engineering Laboratory, 116 Western Laboratories (WL – 116), IIT Kanpur, India.
RFP Questions responses	**14.11.2024 up to 3.00 PM**
Technical Presentation by qualified bidders	**Date and time shall be informed**
Estimated Cost	**Rs 2,00,00,000 (Approx.) / Rs. 2 Crore (approximately) exclusive of GST**
Earnest Money Deposit	Rs. 4,00,00.00 (Rs. Four lakh Only) The EMD shall be in the shape of FDR**/** Bank Guarantee from the National Scheduled Bank. The scan copy of the same shall be attached along with the technical bid and original FDR shall be submitted to the **Project Management Cell, cGanga, IIT Kanpur, Environmental Engineering Laboratory, 116 Western Laboratories (WL – 116), IIT Kanpur Campus-208016, India on or before upto 15.11.2024 up to 03.00** PM

EVENT	DATE
Processing fee	Rs. 40,000/- for non MSME / NSIC / Startup Rs. 10,000/- having MSME/NSIC/ Starup Registration (The scan copy of the transaction slip (proof of payment of processing fee) shall be attached alongwith technical bid, without which the bid shall not be opened.
Details of Institute Account for submitting processing fees	Bank Name: SBI IIT Kanpur Beneficiary Name: The Registrar IIT Kanpur A/c No. 30632766814 IFSC Code: SBIN0001161
Performance Guarantee	**The selected bidder have to deposit Performance Guarantee @ 5.00% of tendered amount and same shall be of refunded after 1 year of successfully commissioning**.
Earnest Money Deposit	**Proforma for Declaration in lieu of submitting Earnest Money Deposit is to be submitted.**

Background

The Centre for Ganga River Basin Management and Studies (cGanga) at IIT Kanpur invites online tenders under a two-part bid system (Technical and Financial) for the Design, Supply, Installation, and Commissioning of Stationary and Mobile Accessories of Dry and Wet Laboratory for cGanga as per Available Space. This includes equipment and accessories required for the analytical measurements in wet and dry laboratories as well as fit for purpose revolving and/or fixed platforms, stands, racks, benches, tables, stools, chairs, etc.

Scope of Work: Design, supply, installation, and commissioning of stationary and mobile accessories of dry (AI, GIS, etc, related works) and wet (analysis of water, soil, solid wastes, raw, processed and residual agriculture/horticulture, etc. items) Laboratory for cGanga as per Available Space. The work is to be executed Tailor made as a Turnkey Project.

Tailor made as a Turnkey Project, meaning the vendor will manage all aspects of the project from start to finish, ensuring that all specified functions can be carried out in the laboratories including providing instructions, demonstrations, remote and human less supervision, and that laboratories are fully functional and meet the required specifications upon completion. Coordination with relevant end-users/stakeholders, adherence to timelines, quality control, and ensuring compliance with safety and regulatory standards is mandatory.

The project is to be executed in three phases:

Phase 1: Needs Assessment and Design

Bidders are expected to:

- Thoroughly study the laboratory floor plans. CAD drawings (floor plans) will be provided upon request.
- Conduct a comprehensive needs assessment for the laboratory. If required, bidders may visit the designated site and meet the stakeholder team at IIT Kanpur
- Submit 3D models of the proposed items along with the technical bid. **Submission of these models is mandatory.**

Phase 2: Supply and Installation

- Supply and deliver the items as per the BOQ to the designated site.
- Install the accessories and associated equipment according to the provided floor plan and technical specifications.

Phase 3: Testing, Commissioning, and Handover

- Verify the functionality of all equipment after installation.
- Conduct a final inspection to ensure compliance with safety and operational standards.
- Provide a detailed maintenance schedule and a support plan for the installed items.

Project Execution Timeline:

The entire project must be completed within **8 weeks** from the issuance of the purchase order/Contract. The timeline is broken down as follows:

Phase 1: Needs Assessment and Design (Week 1)
Within the first week, the successful bidder must complete a detailed review of the provided CAD drawings and conduct a thorough needs assessment. This includes on-site visits if necessary, and the submission of detailed 3D models for all proposed accessories and equipment. The design phase should be concluded within this week to ensure that any feedback or adjustments can be incorporated without delaying subsequent phases.

Phase 2: Supply and Installation (Weeks 2-5)
After the design has been finalized and approved, the supply and installation phase will commence. All items outlined in the Bill of Quantities (BOQ) must be delivered to the designated site within this period. Installation should follow immediately after delivery and must adhere to the technical specifications and floor plan provided. This phase should be completed by the end of Week 3, allowing time for any adjustments or corrections during installation.

Phase 3: Testing, Commissioning, and Handover (Week 5-8)
The final week will focus on testing and commissioning the installed accessories and equipment. The bidder will be responsible for verifying that all items are fully functional and meet the operational and safety standards outlined in the project. A final inspection will be conducted to ensure all specifications have been met, followed by the submission of a maintenance schedule and support plan. Once the inspection is successfully completed, the project will be handed over to the client within the stipulated time frame.
Timely execution is crucial, and any delays will need to be communicated and resolved amicably to avoid overrunning the 4-week deadline.

Instructions to Bidders

1. **Eligibility Criteria:**
   - Bidders must be registered firm/company with at least 5 years of relevant experience in the designing, supply and installation of Laboratory accessories in reputed institutions such as IITs / NITs or any reputed laboratories.
   - The bidder must submit valid certifications and previous work experience in similar supplies.
   - The technical committee will poses the right to select bidders based on designs as per suitable and required applications.

2. **Technical Bid Documentation:**
   - Detailed project description and timelines.
   - Company profile and eligibility documents.
   - Detailed specifications with layout drawings explaining positioning of laboratory furniture and 3D layouts of each lab along with separate layouts for auxiliary works plan i.e., electrical and plumbing work, gas distribution system to ensure functionality of the labs with detailed explanation. If required, the committee may ask the bidder to make presentation of their understanding with relevant drawing/explanations.
   - **One perfectly sized Epoxy powder coated 300 mm Length X 300 mm Width X 1.2 mm thickness sample With UV film coating on top, laser cut and laser printed with Consignee's Institution Logo imprinted. This may be supplied at the time of presentation/discussion with the technical evaluation committee, if invited for presentation.**
   - List of items and technical specifications, adhering to the BOQ.
   - Delivery and installation plan.

3. **Financial Bid Documentation:**
   - The financial bid must include the costs for each item in the BOQ, with all taxes, freight etc. **Excluding GST.**
   - The GST shall be paid extra.

4. **Earnest Money Deposit (EMD):** The bidders who will submit the EMD declaration form alongwith technical bid are not required to deposit the earnest money in shape of FDR/ bank guarantee.

5. **Performance Guarantee: The selected bidder have to deposit Performance Guarantee @ 5.00% of tendered amount and same shall be of refunded after 1 year of successfully commissioning**.

6. **Security: 2.5 % of the value of guaranteed items and the same shall be refunded after warranty and maintenance period.**

General Conditions of Contract

1. **Delivery:** All items should be delivered within **8 weeks** from the issuance of the order.
2. The bidder must ensure proper packaging, transport, and installation at the designated site at IIT Kanpur.
3. **Warranty and Maintenance:** The equipment and accessories supplied must have a minimum warranty of **[05 Years]**. Regular maintenance services should be provided as per the agreement.
4. **Experience:**

   (Firms/Contractors must have completed satisfactorily)

   i) One similar work of 80% value of the estimated cost put to tender O R

   ii) Two similar work of 60% value of the estimated cost put to tender O R

   iii) Three similar work of 40% value of the estimated cost put to tender

Works completed during last 7 years ending last day of the month previous to the one in which applicable are invited.

And

One completed work of similar nature costing not less than the amount equal to 40% of the estimated cost put to tender with Central Government Department/ Central Autonomous Body / Central Public Sector Undertaking / State Government Department.

Solvency Certificate- 40% of the estimated cost put to tender

5. **Payment Terms:**
   Payments will be made as per milestones agreed upon in the contract. The typical payment schedule is:
   - [5 %] upon submission of detailed drawings/3D models/presentation.
   - [30%] upon supply of materials with all inventory at IIT Kanpur.
   - [45 %] Installation of all facilities.
   - [10%] On commissioning of the installed facilities.
   - [10 %] On obtaining completion certificate.

Evaluation Criteria

S No	Evaluation Criteria (Technical Proposal)	Max Points
1	***Compliance Certificates*** Bidder / OEM Compliance Certificates / Test Reports with valid Compliance Certificates such as SEFA 8M & SEFA 10, GREEN GUARD, EN13150 and EN14727	**20**
2	***Design Based Evaluation*** Detailed specifications with layout drawings explaining positioning of laboratory furniture and 3D layouts of each lab along with separate layouts for auxiliary works plan i.e., electrical and plumbing work, gas distribution system to ensure functionality of the labs with detailed explanation.	**40**
3	***Product Sample*** One perfectly sized Epoxy powder coated 300 mm Length X 300 mm Width X 1.2 mm thickness sample With UV film coating on top, laser cut and laser printed with Consignee's Institution Logo imprinted	**20**
4	**Work Experience** Bidders must be registered firm/company with at least 5 years of relevant experience in the designing, supply and installation of Laboratory accessories in reputed institutions such as IITs / NITs or any reputed laboratories.	**20**

Technical Specifications

Part A: Dry Lab Specifications

Dry labs are primarily to be used for AI, GIS and IT-related tasks, as well as housing some of the advanced analytical instruments as per requirements of cGanga, IIT Kanpur. The benches and work tables should be designed to facilitate the use of instruments and accommodate computer peripherals and accessories such as UPS systems, printers, instrument accessories, multiple screens, and other related equipment.

The design of the lab must take into account integrated or provided wiring, ensuring that it supports the seamless connection and operation of all necessary equipment and peripherals.

The basic requirements are produced as below:

- **Lab Counters** with electrical trucking units and understructures on C-Frame assembly.
- **Wall-Type Lab Counters** and **Island Lab Counters** with jet black granite worktop.
- **Table-Top:** Tabletops with laminated plywood top.
- **Cupboards:** Cupboards with locks to store working chemical/glassware.

Part B: Wet Lab Specifications

Wet labs are primarily to be used for analytical applications. The benches and work tables should be tailored to the needs of analytical professionals, providing all necessary facilities for the safe storage of chemicals and glassware, in line with the latest models available on the market.

The lab design must also consider integrated wiring and drainage systems to ensure compatibility with the equipment and the safe handling of materials within the lab environment.

The basic requirements are produced as below:

- **C-Frame System:** Constructed from standard hollow metal sections, powder-coated with epoxy finish.
- **Bench/Tabletop:** Acid and organic solvent resistant granite table-top
- **Reagent Shelves**: Modular design with two-stage horizontal shelves.
- **Lab Sink:** Polypropylene molded sinks with resistant properties.
- **Cupboards:** Cupboards with locks to store working chemical/glassware.

Detailed Technical Specifications of Lab Accessories in Dry & Wet Labs

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 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.
- C-frame should be constructed from a square pipe with a cross section of 60mm x 30mm and should be a minimum 2 mm thick.
- The C-frame legs should be supplied with adjustable levelling screw (M-10 levelers of Nylon + MS, tolerance from -5mm to +15mm) to correct the unevenness of flooring.
- The tubular enclosed type 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. It should be suitable for sitting and standing nominal heights of 750mm & 900mm respectively. The nominal table depths should be 750 mm for wall side and 1200mm, 1500mm for Island tables. The Corner Units shall fit well with 750mm table depths. All frame-work is should be pre-treated with superior pure epoxy powder coated finish.

The C-Frames structure should be for suspended storage cabinets.

Horizontal Members

The Horizontal Members should be made from square pipes of 2 mm thickness. Cross-sectional dimensions of the pipe should be 60mm x 30mm with a minimum of 2 mm. They should be made of CRCA MS and coated with pure epoxy powder. These connect two C-Frames together as shown using C-clamps/U-clamps. Together with the C-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 C-Frames. They should be available in various widths of 450, 600, 1050, 1200, and 1500.

Cover Panels

All leg-space panels, rear cover panel, island side panels etc. should be made from CRCAMS panels of minimum 1mm thickness with pure epoxy powder coating. Island side panels to be made of 1mm thick sandwich system with laser printed UV coating on top.

Welded Under-Bench Storage Cabinets

Under bench cabinets are to be Pure epoxy powder coated with thickness of 40-60 microns and should be suspended from tubular structure. The cabinet should 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 to be 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 should be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 1 mm and drawer separator should be of 1.2mm thick.

Shelf: Shelf should be made of 1mm thickness which should be adjustable to 6 steps of 50mm.

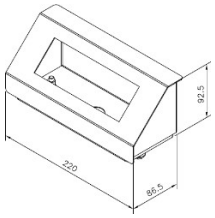
Shutter: should be over-closing type. It has a sandwich door construction with shutter front & shutter cover with 1.2mm thick hinge stiffener. Empty gap should with filled with 15mm thick paper honeycomb for sound dampening.

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

Units should be in 450mm/600mm/750mm widths and 520mm depth

Electrical Trunking

Used for housing electrical switches and sockets, its top panel, bottom panel of the trunking should be made from minimum of 1mm thick body. It should be available in both, single sided and double-sided configurations. It should be made from GI / CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope.

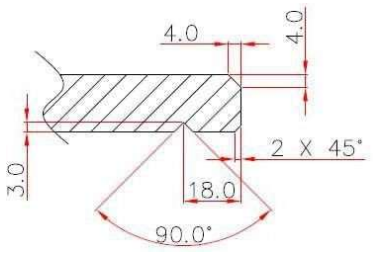


Worktop (Table-Top Surface)

It should be 18mm (+/- 2mm) thick Jet Black Granite worktop for Wet Lab Benches/Tables and 18mm (+/- 2mm) thick laminated plywood worktop for Dry Lab.

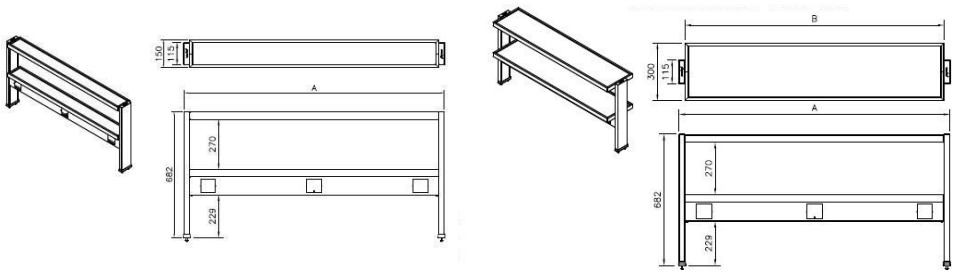
The exposed edges of the worktop should be chamfered and smoothened. The bottom of the worktop should be polished and there should be a V-groove throughout the length of the exposed edges to protect the cabinets from coming in contact with the spillages. The

overhang on the storage cabinet is 25 mm at the front side and 25 mm at the sides. The backing material used is a neoprene mat of 6mm thickness. A representation the worktop edges is shown as under



Dropper: All the service lines (ex. Gas lines, electrical lines, water lines etc.) are to be drawn above the false ceiling through a service dropper of hollow cross section of size: 115mm X 45mm with minimum thickness of 1mm.

Reagent Shelves: Adjustable-Type reagent shelves should be provided. It should be complete modular design consisting of 2 stage horizontal storage shelves. 270mm gap to be maintained between two shelves. Reagent shelf post should 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 1mm thick GI MS with pure epoxy powder coating sheets to kept in between the frames. The shelves can be removed for cleaning purpose. A total depth of reagent shelves to be maintained at 150mm for wall benches and 300mm for island benches. Reagent shelves modules to have electrical book and having cutouts for electrical switches and sockets.



Welded Over Head Storage Cabinets: Overhead cabinets are to be Pure epoxy powder coated with thickness of 40-60 microns and should be fixed on the workbenches with base support and not on the wall. The cabinet should have a corrosion resistance magnetic strip as shutter catch, shutters are to be equipped with 180-degree cam lock. PP constructed semi recessed handle to be screw fitted to the shutters. Hinges are to be 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 (Wet Lab): It should be Welded body construction with load bearing members such as top, bottom and stiffeners should have a minimum thickness of 1 mm.

Shelf (Wet Lab): Should be made of 1mm thickness which should be adjustable to 6 steps of 50mm.Shutter should 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.

Units should be in 600mm widths, 450mm depth.

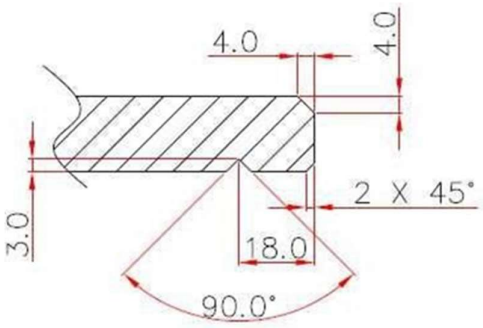
Service Fittings and Accessories: Service fittings should be laboratory grade, and water faucets and valve bodies should be cast red brass alloy or bronze forgings, all fittings should be powder plated unless specified otherwise.

Service Indexes: Fittings should be identified with service indexes in the color coding as per DIN 12920.

Laboratory Sink and Accessories for Wet Lab

Polypropylene Molded Sinks: Made up of 5 mm thick high density and elastic poly propylene with good resistance to organic solvents. Bowl size to be a minimum of (L x W x D) 560 x 355 x 200 mm. Faucet should be 3-way type faucet of reputed make (Ex. Premier Polymer)

Worktop (Wet Lab): It should be 18mm (+/- 2mm) thick Jet Black Granite worktop. The exposed edges of the worktop should be chamfered and smoothened. The bottom of the worktop should be polished and there should be a V-groove throughout the length of the exposed edges to protect the cabinets from coming in contact with the spillages. The overhang on the storage cabinet is 25 mm at the front side and 25 mm at the sides. The backing material used is a neoprene mat of 6 mm thickness. A representation the worktop edges is shown as following:



Fumehood:

Supply and Installation of Laboratory grade Fume Hood with inbuilt blower and overall Dimension of Length: 1500 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 Granite 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 1.5 HP, **3 phase TEFC, IP55, Class F, direct drive foot mounted motor will be provided**

Chemical Cabinet:

Dimension: Height 1980 mm, Width 915mm, Depth 485mm (+/-10mm). The Chemical storage cabinet should be made of GPSP sheet of uniform thickness of 1 mm for the body and shelves, 1.2mm for doors' frame duly cut and bends with the help CNC machines.

Cabinet should have two back sheets and internal sheet is provided with perforations. Top is provided with cutout of dia 100 mm for exhaust of fume. The doors should have high quality rubber beading on all four sides and further holding with sheet metal strips. Welding on the front frame of the doors should not be acceptable. The doors are provided with 3 way bolting system. The top and bottom end of the locking rod should be horizontally hook type and to be inserted into the horizontal slot and 3-way lock should be operated by single key.

The chemical storage cabinet shall be equipped with four adjustable perforated shelves thereby making five compartments. The steel shelf shall be capable of carrying a uniformly distributed load of 70 kg .The tall cabinet shall be provided with three hinges for each door having removable hinge pins. All the steel components should be pre-treated for de-greasing, de-rusting and phosphating. After proper pre-treatment, the steel components should be epoxy powder coated and oven baked at temp. Above 200 deg. C to provide scratch resistance surface coating film thickness 50-60 microns.

Laboratory Stool:

Supplying and placing of stool. The seat should be made up of 1.2±0.1cm thick flat plywood and with molded 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 molded 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 molded 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 molded in Black Nylon.

Revolving Chairs:

Seat Depth: 510 mm; Seat Width: 500 mm; Seat thickness (with ply and fabric): 68 mm; Chair width overall: 645 mm

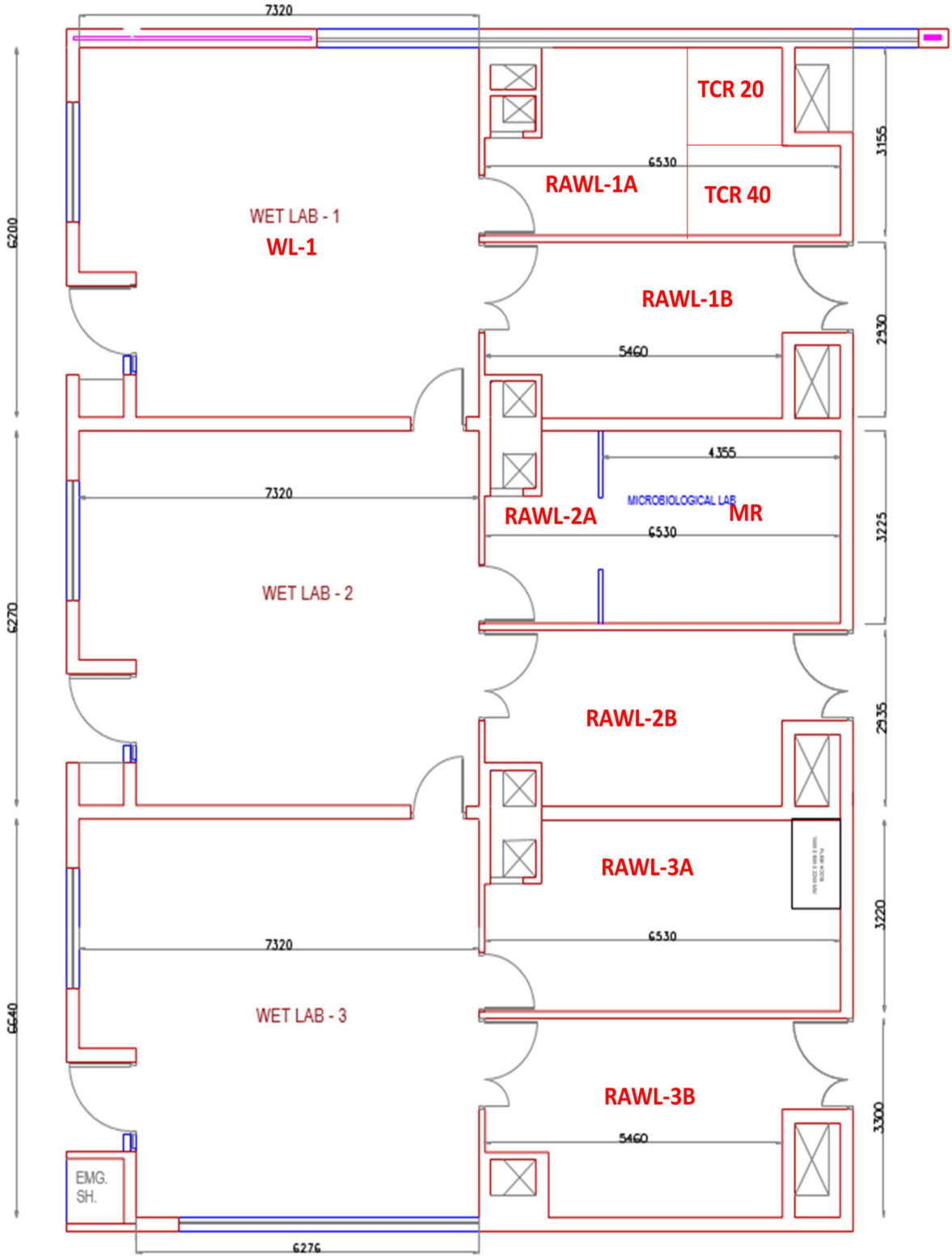
- Seat Depth: 510mm; Seat Width 500mm; Seat thickness (with ply & fabric): 68mm
- Chair Width (overall): 645mm; Chair Depth (overall): 665mm; Chair Height Minimum (from floor Level): 1050mm
- Chair Height Maximum: 1150mm; Seat Height Minimum (from floor Level): 468mm Seat Height Maximum (from floor Level): 568mm
- Backrest Height from Seat: 580mm; Backrest Width: 490mm; Backrest Support (type)
- Arm Rest Type Fixed with seat & Tilting Arms Fixed with chair Back Frame; Arm Rest Height (from seat level); Arm Depth (front to back): 180mm 298mm; Arm Width (inside arm to arm) 495mm
- Mechanism Type: Mechanism Locking & Tilting options Synchronized Tilt Mechanism One Point Locking & Full Back Tilting
- Mechanism Load Bearing capacity; Gas Lift Details 180 kgs Max (+/- 2%) Cylindrical Hydraulic Class 4 (taper shaped bottom); Black PU foam used in Seat (thickness & 55 Density high quality PU Foam. (+/- 5%) Density)
- Plywood Details (type & thickness); Fabric for Seat Details (GSM & type & Brand) 16mm thick BWP grade Hot Press Plywood 100% Polyester. 350grams Per liner meter. Brand: - Response Fabric (India)
- Base Type (details): Wheel / Castor details Pentagonal Base (NYLON) full Grey Color. 60mm DIA Soft Castor / Wheel. (Pin & Push type) Hub: High Impact Nylon Core & Hub with Soft Highly Hydrolysis Resistant PU Treads on Wheel Wheel Core: High Impact Thermoplastics Wheel Tread: Soft Thermoplastic Polyurethane
- Chair's Back Frame (details) Injection moulded Glass filled Nylon frame. Upholstered using nylon mesh fabric with high tenacity yarn giving the perfect balance between form, functionality and comfort.
- Back "Mesh" details (GSM & type & brand): Hardware & Accessories Details Silver Grey Nylon Mesh & 380 grams Per liner meter. Allen cap Bolt & Screw.
- Chair Net weight 12.6Kgs (without packing) & 13.8kgs (with box pack)
- BIFMA Certification: BIFMA Level and class to be clearly evident in the assembly video for Class 4 hydraulic gas lift.
- Bidder should provide a link of full assembly video of the exact product as mentioned in the above specification.

Financial Bid Format (for reference only, not to be submitted along with technical bid)

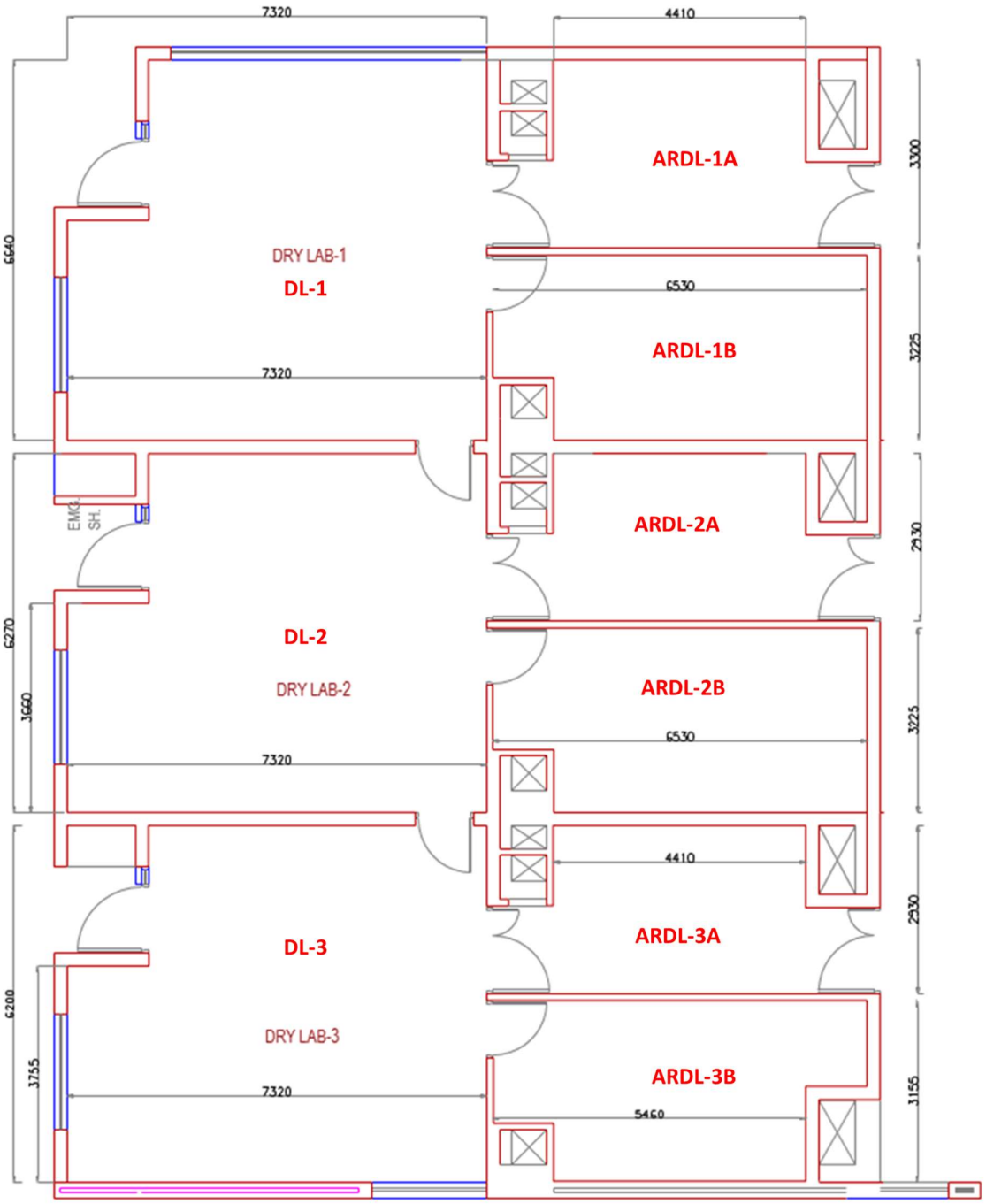
(BOQ)

S No.	Space Name	Space ID	Amount
1	**Design, Supply, Installation, and Commissioning of Stationary and Mobile Accessories of Dry and Wet Laboratory for cGanga as per Available Space**		
1.01	Dry Lab 1	DL-1	
1.02	Room 1 Adjacent to DL-1	RADL-1A	
1.03	Room 2 Adjacent to DL-1	RADL-1B	
1.04	Dry Lab 2	DL-2	
1.05	Room 1 Adjacent to DL-2	RADL-2A	
1.06	Room 2 Adjacent to DL-2	RADL-2B	
1.07	Dry Lab 3 (DL-3)	DL-3	
1.08	Room 1 Adjacent to DL-3	RADL-3A	
1.09	Room 2 Adjacent to DL-3	RADL-3B	
1.10	Wet Lab 1 (WL-1)	WL-1	
1.11	Room 1 Adjacent to WL-1	RAWL-1A	
1.12	Room 2 Adjacent to WL-1	RAWL-1B	
1.13	Wet Lab 2 (WL-2)	WL-2	
1.14	Room 1 Adjacent to WL-2	RAWL-2A	
1.15	Room 2 Adjacent to WL-2	RAWL-2B	
1.16	Wet Lab 3 (WL-3)	WL-3	
1.17	Room 1 Adjacent to WL-3	RAWL-3A	
1.18	Room 2 Adjacent to WL-3	RAWL-3B	
1.19	Temperature Controlled Room 20 Deg C (TCR 20)	TCR 20	
1.20	Temperature Controlled Room 40 Deg C (TCR 40)	TCR 40	
1.21	Microbiology Room	MR	
1.22	Gas Distribution System	GDS	
1.23	Any other item – 1	OTH-1	
1.24	Any other item – 2	OTH-2	
1.25	Any other item – 3	OTH-3	
	GST		
	Total		

Floor Plan: WET LAB



Floor Plan: DRY LAB



Various Forms and Formats
(Mandatory to submit alongwith technical bid)

1. Proforma for Declaration in lieu of submitting Earnest Money Deposit (Scanned copy of this Declaration to be uploaded at the time of submission of bid)

Whereas, I/we ..... (name of agency) have submitted bids for Name of work: - "_____".

I/we hereby submit following declaration in lieu of submitting Earnest Money Deposit:

1. If after the opening of tender, I/we withdraw or modify my/our bid during the period of validity of tender (including extended validity of tender) specified in the tender documents,

   or

2. If, after the award of work, I/we fail to sign the contract, or to submit performance guarantee before the deadline defined in the tender documents,

I/we shall be suspended for two year and shall not be eligible to bid for IITK tenders from date of issue of suspension order.

Signature of bidder(s)

2. Format for submission of processing fees

Format for proof of submission to be uploaded along with transaction slip (Scanned copy of this page to be uploaded at the time of submission of bid).

I/we have submitted the processing fess as per the following details:

RFP/NIT No	:	
Name of Agency	:	
GST Number of Agency	:	
Date of transaction	:	
Total amount Transferred	:	
UTR No.	:	

Signature of Bidder(s)

Details of Institute Account for submitting processing fees are as follows:

Beneficiary Name : The Registrar, IIT, Kanpur,
Account Number : 30632766814
Bank Name : SBI, IIT Kanpur-208016
IFSC Code : SBIN0001161

3. Undertaking regarding obtaining GST registration

Proforma for Undertaking regarding obtaining GST registration Certificate of TheState in which work is to be taken up

(Undertaking to be furnished on a 'non-judicial' stamp paper worth Rs.100/)

(Scanned copy of this notarized undertaking to be uploaded at the time of submission of bid, if required)

If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in whichwork is to be taken up within one month from the date of receipt of award letter or before release of any payment by IITK, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or forany action taken by IITK or GST department in this regard.

Signature of bidder(s)

OR

(An authorized Officer of the firm with stamp)

Signature of Notary with Seal

4. Affidavit for not being blacklisted/debarred/restrained

Proforma for AFFIDAVIT for not being blacklisted /debarred /restrained (AFFIDAVIT to be submitted on a 'non-judicial' stamp paper worth Rs.100/) (Scanned copy of this notarized affidavit to be uploaded at the time of submission of bid)

I/we undertake and confirm that our firm/partnership firm has not been blacklisted and /or debarred /restrained by any Central Govt./ State Govt. Agency/ Autonomous body of the Central or State govt./ PSU etc. Further that, if such information comes to the notice of the Institute, then I/we shall be debarred for bidding in the Institute in future forever. Also, if suchinformation comes to the notice of the Institute on any day before date of start of work, the competent authority shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit / Performance Guarantee.

Signature of bidder(s)

OR

(An authorized Officer of the firm with stamp)

Signature of Notary with Seal

5. Performance report on work executed

Proforma of Performance report on works referred to in Financial Information
(To be printed in Company's Letterhead)

(Scanned copy of the Performance Reports to be uploaded at the time of submission of bid)

1. Name of work/project & location:
2. Agreement no.:
3. Estimated cost:
4. Tendered cost:
5. Date of start:
6. Date of completion:
7. Stipulated date of completion:
8. Actual date of completion:
9. Amount of compensation levied for delayed completion, if any:
10. Amount of reduced rate items, if any:
11. Performance Report:
    (a) Quality of work: Outstanding / Very Good / Good /Poor
    (b) Technical Proficiency: Outstanding / Very Good / Good /Poor
    (c) Resourcefulness: Outstanding / Very Good / Good /Poor
    (d) General Behavior: Outstanding / Very Good / Good /Poor

Signature of Superintending Engineer or Equivalent

Dated:

6. Structure and Organization of the Agency

Proforma of providing Structure and Organization of the Bidding Agency
(To be printed in Company's Letterhead)

(Scanned copy of the Structure and Organization Document to be uploaded at the time ofsubmission of bid)

1. Name & address of the bidder:
2. Telephone no./Telex no./Fax no.:
3. Email address for Communication:
4. Legal status of the bidder (attach copies of original document defining the legal status):
   (a) An Individual:
   (b) A proprietary firm:
   (c) A firm in partnership:
   (d) A limited company or Corporation:
5. Names and titles of Directors & Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization
7. Has the bidder, or any constituent partner in case of partnership firm, ever been convictedby the court of law? If so, give details.
8. Any other information considered necessary but not included above.

Signature of bidder(s)

7. Declaration on Details of the Bidders

Proforma of Declaration on Details of the Bidders

(To be printed in Company's Letterhead)

(Scanned copy of the Performance Reports to be uploaded at the time of submission of bid)

DECLARATION

I/We, ...hereby declare that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I/we have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

Particulars of the bidder as per following details:

1.	Name of the firm / organization	:	
2.	Type of the firm / organization: Public Ltd, / Private Ltd./ Registered firm	:	
3	Registered office	:	
4	Address of office	:	
5	Contract people	:	
6	Name & designation	:	
7	Land line & mobile no.	:	
8	Email	:	
9	PAN No.	:	
10	GST No.	:	
11	EPF Registration No.	:	
12	ESI Registration No.	:	
13	EMD Declaration attached with signature	:	
14	Has the applicant ever been required to suspend any project for a period of more than six months continuously after Commencement of work?	:	If so, give the name of the project and reasons ofsuspension of project
15	Has the applicant ever been convicted bya court of law?	:	YES / NO, If yes give details of the case
16	Details of any litigation in which the applicant is / was involved.	:	
17	All forms submitted as desired in the bid	:	Yes / No
18	Undertaking regarding no subletting of work.	:	

We further declare that our organization has not been blacklisted /delisted or put to any holiday by any Institutional agency / Govt. Department / Public Sector Undertaking in the last three years.

Signature of Bidder(s) with seal

Dated:

8. Details of Similar Nature of Works Completed

*Proforma for submission of Details of Eligible Similar Nature of Works Completed*during the Last Seven Years ending previous day of the last date of submission of tenders (Scanned copy of the Performance Reports to be uploaded)*

The bidding capacity of the contractor should be equal to, or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula: Bidding Capacity = $[A \times N \times 2] - B$, where

A = Maximum turnover in construction works executed in any one year during the last seven years taking into account the completed as well as works in progress. The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7N = Number ofyears prescribed for completion of work for which bids has been invited. B = Value of existingcommitments and ongoing works to be completed during the period of completion of work forwhich bids have been invited.

The contractor needs to submit the supporting documents for calculation of A & B as above. For calculation of B, information is to be supplied in the following tabular format:

Sr. No	Name of work / project and location	Owners or sponsoring organization	Const of work in croresof rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/ arbitration cases pending /in Progress with details*	Name and address / tele- phone number of officers to whom reference may be made	Whether the work was done on back to back basis Yes/No
1	2	3	4	5	6	7	8	9	10

***** Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of bidder(s) with seal

Dated:

9. Declaration About Site Inspection

Declaration about Site Inspection

(By Bidder)

To
The Project Management Cell
Centre for Ganga River Basin
Management and Studies
IIT, Kanpur-208016 (U.P.)

Subject: Submission of Tender for the work of "_____".

Dear Sir/Madam,

It is hereby declared that as per terms and conditions of this tender document, **I/** We the bidder inspected and examined the subject site and its surrounding and satisfy myself / ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site./ ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date. I /We bidder shall be responsible for arranging and maintaining at own cost all materials,tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by me/us implies that I **/** We have read this notice and all other contract documents and has made myself /ourselves aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

Sincerely

(Duly authorized signatory of the Bidder)

10. Letter of Transmittal

11. To
12. The Project Management Cell
13. Centre for Ganga River Basin
14. Management and Studies
15. IIT, Kanpur-208016 (U.P.)

Name of Work: _____"

Dear Sir/Madam

Having examined details given in Notice and bid document for the above work, I/we hereby submit the relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed forms and accompanying statement are true and correct.
2. I/we have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
3. I/We also authorize the Project Manager, CGannga Indian Institute of Technology Kanpur or his representative(s) to approach individuals, employers, firms and corporation to verify our competence, work experience, and general reputation.
4. I/we submit the following certificates in support of our suitability, technical knowledgeand capability for having successfully completed the following eligible completed works:

Sl. No.	Name of work	Amount	Certificate issued by
1			
2			
3			

CERTIFICATE

It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I/We shall be liable to be debarred, disqualified/ cancelation of enlistment in case any information furnished by me/us found to be incorrect.

Signature(s) of Bidder with seal

Enclosures: Date:

16. Tender Acceptance Letter

(To be given on Company Letter Head)

Date: .....

To
The Project Management Cell
Centre for Ganga River Basin
Management and Studies
IIT, Kanpur-208016 (U.P.)

Sub: Certificate of compliance as per Rule 144 (xi) GFR's 2017
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 / weshall abide hereby by the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization 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/ organization 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(s), with Official Seal)

17. Certificate for Tender

(To be given on Company Letter Head)

To
The Project Management Cell
Centre for Ganga River Basin
Management and Studies
IIT, Kanpur-208016 (U.P.)

Tender Reference No: ..... Date: .....

Name of Tender / Work:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]" 2. "I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all the requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

18. Financial Information

Proforma for providing Financial Information

(Scanned copy of the completed information sheet to be uploaded at the time of submission ofbid)

Financial Analysis: Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last three financial years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

Financial Years	2020-21	2021-22	2022-23	2023-24
Gross Annual turnover				
Profit/Loss				

Signature of Chartered Accountant with Seal

Signature of bidder(s)

19. Banker's Certificate from a scheduled Bank

Proforma of Banker's Certificate from a Scheduled Bank
(To be printed in Bank's Letterhead)

(Scanned copy of the Certificate to be uploaded at the time of submission of bid)

This is to certify that to the best of our knowledge and information that M/s./Sh..... having marginally noted address, a customer of our bank are/is respectable and can be treated as good for any engagement up to a limit of Rs ..... (Rupees .....). This certificate is issued without any guarantee or responsibility on the bank or any of the officers.
.....

(Signature for the Bank)

NOTE:
Bankers certificates should be on letter head of the Bank, addressed to tendering authority.

In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

20. Net Worth Certificate by certified Chartered Accountant

Proforma of Net Worth Certificate by certified Chartered Accountant

(To be printed in Letterhead of Chartered Accountant)

(Scanned copy of the Certificate to be uploaded at the time of submission of bid)

This is to certify that as per the audited Balance Sheet and Profit & Loss statement of the account during the financial year ....., the net worth of M/s./Sh.....(Name & Registered Address of individual/firm/company) as on 31.3.2024 is Rs. ..... (Rupees. .....) after considering all liabilities.. It is further certified that the net worth of the company has not eroded by more than 30% in the last three years ending on 31.3.2024.
.....

(Signature of the Chartered Accountant)
.....

(Name of the Chartered Accountant)
.....

(Membership No. of ICAI)
.....

(Date & Seal)

21. Proforma for Contract for Removal of Defects after Completion in Respect of work order

Contract for Removal of Defects after Completion in Respect of work order

The Agreement made this. . . . . day of ..... Two thou- sand and between. . . . . son of (hereinafter called the Guarantor of the one part) and the BOARD OF GOVERNORS (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract (hereinafter called the contract) dated . . . . . and made between the GUARANTOR OF THE ONE part and the Government of the other part, whereby the contractor, inter alia, undertook to render the buildings and structures in the contract recited completely water and leak-proof. AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for 08 (eight) years from the date after the maintenance period prescribed in the contract. NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak proof and the minimum life of such water proofing treatment shall be ten years to be reckoned from the date after the maintenance period prescribed in the contract. Provided that the Guarantor will not be responsible for the leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose: (a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof. (b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts. (c) The decision of the Engineer-in –charge with regard to cause of leakage/seepage shall be final. During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water proof to the satisfaction of the Engineer-in–charge at his cost and shall commence the work for the rectification within seven days from the date of issue of the notice from the Engineer- in–charge calling upon him to rectify the defects failing which the work shall be done by the department by some other agency contractor at the GUARANTOR's risk and cost. The decision of the Engineer-in–charge as to the cost payable by the Guarantor shall be final and binding. That if guarantor fails to make good all defects or commits breach there under then the Guarantor will indemnify the principal and his successors against all loss, damage, cost expense otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be

final and binding on the parties. 34 35 IN WITNESS WHEREOF these presents have been executed by the Obliger. . . . . and by. ..... and for and on behalf of the PRESIDENT OF INDIA on the day, month and year first above written

SIGNED, SEALED AND delivered by OBLIGOR in the presence of :
1. . . . . .
2. . . . . .

SIGNED FOR AND ON BEHALF OF THE BOARD OF GOVERNORS BY in the presence of:
1. . . . . .
2. . . . . .