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CORRIGENDUM – I

TO

BIDDING DOCUMENTS

FOR

**Supply, Fitting & Fixing of Laboratory Furniture at Sarat Chandra Chattopadhyay Government Medical College & Hospital,
Uluberia, Howrah, West Bengal**

Bid Reference No.: WBMSCL/NIQ-142/2022

Dated: 11/04/2022

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1	3	A.Terms & Conditions for Participating this NIQ:	Sl. 10	The bid shall be valid for a period of 90 days from the date of opening of Technical Bid.	Bids shall remain valid for a period not less than 180 (one hundred twenty) days from the date of opening of the Financial Proposal. However, extension of bid validity may be suitably considered by the Tender Inviting Authority, if required, subject to obtaining a written confirmation of the contractor/bidder(s) to that effect
2	3	A.Terms & Conditions for Participating this NIQ:	Sl. 8	To be eligible for award of contract, Bidder / OEM must possess following Certificates / Test Reports on the date of bid opening (to be uploaded with bid): Valid certificates i.e., BIFMA, SEFA-10 and GREEN GUARD Compliance, EN13150, EN14727. Powder Coating test reports from any ISO 9001 certified OEM/agency of powder coating compounds against categories including : dry film thickness test, Gloss @60 degree test, hardness test, impact resistance test, Cross cut adhesion test, Elasticity-Cupping test, Salt spray test, Conical Bend Test as per ASTM D522 (Certifications of OEM/agency needs to be attached), ISO 45001:2018, ISO 14001 &ISO 50001:2018. Bidders should have GRIHA/ SVAGRIHA/ BIFMA/ FICCI/ ASSOCHAM etc certification as applicable for this type of work.	To be eligible for award of contract, Bidder / OEM must possess following Certificates / Test Reports on the date of bid opening (to be uploaded with bid): Valid certificates i.e. BIFMA, SEFA-10 and GREEN GUARD Compliance, EN13150, EN14727. Powder Coating thickness must be 40-60 micron & test reports from any ISO 9001 certified OEM/agency of powder coating compounds against categories including: dry film thickness test, Gloss @60 degree test, hardness test, impact resistance test, Cross cut adhesion test, Elasticity-Cupping test, Salt spray test, Conical Bend Test as per ASTM D522 (Certifications of OEM/agency needs to be attached), ISO 45001:2018, ISO 14001 &ISO 50001:2018. Bidders should have GRIHA/ SVAGRIHA/ BIFMA/ FICCI/ ASSOCHAM etc certification as applicable for this type of work.

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3	4	A.Terms & Conditions for Participating this NIQ:	Sl.14	Delivery: The Furniture items should be delivered, placed, installed and commissioned at Medical College Campus, within stipulated time period from date of issue of letter of award. Supply and installation of laboratory furniture with necessary placement of sink and tap units and necessary electrical points and light sources with complete internal wiring wherever required.	Delivery: All the Furniture items should be delivered, placed, installed and commissioned at Medical College Campus, within stipulated time period from date of issue of letter of award. 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. Source of Water inlet and waste outlet and Electricity Source will be provided within the room.
4	20	Section-III, FORM-V	BOQ Item No.4	UNIT – No.	UNIT – Feet
5	2	D.Details Specification of Furniture	Sl.4	Item Description: Island Laboratory Workbench: Supply and placing of laboratory tables as per the approved layout. 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	Item Description: Island Laboratory Workbench: Supply and placing of laboratory tables as per the required furniture layout. 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

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				flexibility and modularity while making a layout. 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 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 sitting and standing nominal heights of 750mm & 900mm respectively depending on the layout and the requirement of the laboratory. The table depth should be 1540 mm. The length of the table should be as per the approved layout (or BOQ). The horizontal members which should connect the c-frames should be made from rectangular pipes of 2mm thickness. Cross-sectional dimensions of the pipe should be 60 x 30 x 2 mm. They should be made of CRCA MS and coated with pure epoxy powder. They should be available in various widths of 600, 750, 900, 1050, 1200, 1350, 1500, 1650, and 1800, depending on the layout of the laboratory furniture.	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 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 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 1540 mm. The length of the table should be as per the approved laboratory furniture layout. HORIZONTAL MEMBERS: The horizontal members which should connect the c-frames should be made from rectangular pipes of 2mm thickness. Cross-sectional dimensions of the pipe should be 60 x 30 x 2 mm. They should be made of CRCA MS and coated

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				The cover panels should cover the service lines that runs behind for the wall side units and through the middle for the island units. These should be easily removable (unclipped) and the service line be accessed for maintenance. They should be made of CRCA MS with pure epoxy powder coating and are of 1mm thickness. The master upright should be of the dimensions: 300 x 150 x 1.2 mm. It should be made from 1.2mm thick CRCA MS with pure epoxy powder coating. It should have an open-able door for easy service maintenance and should extend till the false ceiling. The vertical upright should form the backbone for internal distribution of GDS, electrical supply systems shelves and top units and should be constructed from 16-gauge CRCA formed steel panels with removable covers. Shelf height should be adjustable with an increment of 1inch / 25mm. Uprights should be supplied with adjustable feet from -5mm to +20mm. Depending upon the layout, height adjustable shelves should be provided between uprights with 1" of height adjustability. The ends and intermediate vertical supports should be 2mm thick aluminum extrusion with MS brackets of 2 mm thick. Toughened glass should be put-on over these shelves for taking care of bottle marks/corrosion. 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. The storage cabinets should have the provision for horizontal sliding to make available leg space as per the need. It should have	with pure epoxy powder coating of thickness 40-60 micron. They should be in combination of various lengths (modular type) of 600/ 750/ 900/ 1050/ 1200/ 1350/ 1500/ 1650/ 1800, depending on the layout of the laboratory furniture. REMOVABLE BACK PANELS: The 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 CRCA MS of 1mm thickness with pure epoxy powder coating. COVER PANELS: All side cover panels and back panels, filler panels should be made from CRCA MS panels of 1.0 mm thickness with pure epoxy powder coating MASTER UPRIGHT: The master upright should be of the dimensions: 300 x 150 x 1.2 mm. It should be made from 1.2mm thick CRCA MS with pure epoxy powder coating. It should have an open-able door for easy service maintenance and should extend till the false ceiling. VERTICAL UPRIGHT: The vertical upright should form the backbone for internal distribution of GDS,

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				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. Knee space panel should be in 22-gauge construction. The dimensions of the cabinets should be W = 450/600 (as per the layout) D = 530mm, H = 635/485 mm. The configurations should be 1 Shutter/ 2 Shutters and 1 Drawer as per the layout. The entire material construction for the storage units should be MSCRCA: IS – 513 (1994). Thickness of 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 0.8mmthk. The finish of the welded cabinets should be powder coated pure epoxy of thickness 40-50 microns. Handles should be AnodizedAluminium Recessed-Type, of CTC:160.0mm. Units should have a locking facility with 180° and 10 lever cam lock mechanism. The hinges should be Knuckle-butt type	electrical supply systems shelves and top units and should be constructed from 16-gauge CRCA formed steel panels with removable covers. Shelf height should be adjustable with an increment of 1inch / 25mm. Uprights should be supplied with adjustable feet from -5mm to +20mm. ADJUSTABLE REAGENT SHELVES: Depending upon the layout, height adjustable shelves should be provided between uprights with 1” of height adjustability. The ends and intermediate vertical supports should be 2mm thick aluminum extrusion with MS brackets of 2 mm thick. Toughened glass should be put-on over these shelves for taking care of bottle marks/corrosion. WELDED UNDER-BENCH STORAGE CABINETS: 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. The storage cabinets should have the provision for horizontal sliding to make available leg space as per the need. 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

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				SS Hinge. The screws should be SS304. 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 500mm length. The 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. Fittings should be identified with service indexes in the color coding as per DIN 12920. The electrical trunking used for housing electrical switches and sockets, data and voice points, its top panel, bottom panel of the trunking should be made from 1.0 mm thick CRCA MS panel. It should be available in both, single sided and double-sided configurations. It should be made from CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope. The sinks should 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 500 L x 400 W x 300 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 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 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	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. Knee space panel should be in 22-gauge construction. The under storage units should be ergonomically distributed at an alternative intervals with leg space of same length as that of the under storage unit. Dimensions: The dimensions of the cabinets should be W = 300/450/600/750/900, D = 530mm, H = 635/485 mm. Configuration: The configurations should be 1 Shutter/ 2 Shutters and 1 Drawer. MOC: The entire material construction for the storage units should be MSCRCA: 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 0.8mm thk. 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° and 10 lever cam lock mechanism. HINGES: Knuckle-butt type SS Hinge. SCREW: SS304. 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 500mm length.

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				thickness. The laboratory furniture should meet the performance requirements described in the latest SEFA 10-2016 class 7/8 guideline for the most adaptive range of furniture. The product should also have SEFA 8M-2016 for laboratory grade metal casework. Should have the certification from the competent SEFA approved test lab. It should also be mentioned on the website of SEFA (https://www.sefalabs.com/). The product should be certified as per EN 13150; EN 14727.	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 1.0 mm thick CRCA MS panel. It should be available in both, single sided and double-sided configurations. It should be made from CRCA MS with pure epoxy powder coating. The front surface that houses the electrical points should have a slope. LABORATORY SINK AND ACCESSORIES: The sinks should be polypropylene molded construction made up of 5 mm thick high density and elastic polypropylene with good resistance to organic solvents. Bowl size should be 500 L x 400 W x 300 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

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					mm at the sides. The backing material used is a neoprene mat of 6 mm thickness. One Sink should be placed at every interval of 2.00-2.40 Metre of the workbench. [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.]