

**Details of the requirement for Refurbishment of the HIV Drug Resistance Phenotypic Laboratory**

(PP No. 2719)

Sr. No.	Category	Name of the Item	Quantity	Specification
1	Laboratory Partition	Aluminium Partition With 2 sliding doors & 1 openable door 180 square feet	01	Should have Lockable doors, a bottom powder-coated aluminum section (3 feet), and a top portion of clear glass
2	Laboratory Tables	Lab wall Table without Storage 2.5 X 4 ft Base Structure Dimension 50 x 25 x 1.6 mm	03	Base Structure In C Shape Design and Granite Tabletop Sheesha polish of thickness 18±1 mm. Material: Sheet Metal should be of GI (Galvanised Iron) Powder Coated. With a thickness of 1 mm (20 Gauge)
		Lab wall Table with Storage 2.5 X 4 ft Base Structure Dimension 50 x 25 x 1.6 mm	02	Storage unit with 1 Drawer and 1 Stutter, Base structure in C frame design, Granite Tabletop Sheesha polish of thickness 18±1 mm. Material: Sheet Metal should be of GI (Galvanised Iron) Powder Coated. With a thickness of 1 mm (20 Gauge) Shelves of Reagent Rack: 1.2mm (18 Gauge)
		Lab wall Table with Sink and Storage 2.5 X 4 ft	01	Base Structure In C Shape Design and Granite Tabletop Sheesha polish of thickness 18±1 mm. Large sink 600WX450D MM Tap duly powder coated. Material: Sheet Metal should be of GI (Galvanised Iron) Powder Coated. With a thickness of 1 mm (20 Gauge) Shelves of Reagent Rack: 1.2mm (18 Gauge)
3	Overhead Storage	Wall Mounted Storage Unit 2.5'	05	With Locks, Material: Sheet Metal should be of GI (Galvanised Iron) Powder Coated. With a thickness of 1 mm (20 Gauge) Shelves of Reagent Rack: 1.2mm (18 Gauge)
		Wall Mounted Storage Unit 2'	04	With Locks, Material: Sheet Metal should be of GI (Galvanised Iron) Powder Coated. With a thickness of 1 mm (20 Gauge) Shelves of Reagent Rack: 1.2mm (18 Gauge)

5	Window Curtains	Curtain line Size: 4x4 4.1 feet x 4.1 feet	12	PVC Roller Blinds of white/Beige color
6	Seating Requirements	Laboratory stool	10	Should have non-absorbable, non-fabric cushioning (e.g. Rexine), With lower back support and wheels, and with adjustable heights
		Office Chairs	04	With back support and wheels, it Should have an adjustable Headrest/Armrest, and height
7	Painting	Wall painting of Room Size: 400 square feet		White antifungal-Acrylic or urethane epoxy wall paints

**Additional Terms and Conditions for the Work of Refurbishment of the Laboratory at  
ICMR-NITVAR (Ref PP No. 2719)**

1. Design, fabrication, testing and inspection at manufacturer site, supply of all materials required for assembly, packing, forwarding and safe delivery to Laboratory Refurbishment Site, ICMR-NITVAR, Pune and all activities at Laboratory site leading to complete erection, installation, commissioning and performance testing of all supplied items.
2. Quoted rates shall include the cost of all the components specified in the specifications, all necessary tests in the factory and the tests conducted after receipt of materials at purchaser's site, performance tests and all minor items/accessories not specified but necessary / required to make the component operational /functional in all aspects.
3. All internal civil, electrical, plumbing & other minor works required for installation and commissioning of Laboratory furniture are in the supplier's scope.
4. The Table Tops of the Laboratory should be of Granite of appropriate Laboratory Standard.
5. The laboratory, following the refurbishment, will be equipped with two air conditioners. The selected contractor must design and execute the refurbishment work with this requirement in mind.
6. Electrical utility is provided at multiple points in every room. Further connection to Fume hoods, wall tables, island tables is in supplier's scope.
7. Dismantling of any present Laboratory furniture set up necessary for the refurbishment of the laboratory..
8. Removal of all debris, dirt and rubbish accumulated as a result of the dismantling of existing furniture and installation of new laboratory furniture. Transportation of the same Laboratory to the appropriate disposal site, leaving the premises broom clean and orderly.
9. The bidder while submitting the offer should clearly study the specifications and understand the requirements of the tender. The bidder should not miss any minor items/ accessories not specified but necessary/required to make the component functional in all aspects as per requirements of the tender. Before submitting a quotation, the bidder can attend the pre-bid meeting as per the schedule and can clarify the doubts if any.
10. Quoted rates should include the cost of all the components specified in the specifications, all necessary tests in the factory and tests conducted after receipt of the material at the site, all taxes as per bid document, all minor items/accessories not specified but necessary/required to make the component functional in all aspects.
11. After placement of Purchase Order, the supplier must obtain approvals from purchaser for design and drawing, material of construction before starting manufacturing.
12. All various equipment fittings, assemblies, accessories, hardware, foundation bolts, supports, terminal lugs for electrical connections, cable glands, junction boxes and other standard items for proper assembly and installation of various equipment and components of the work is in the supplier's scope irrespective of the fact whether such items are specifically mentioned in the tender or not.
13. Integration of all the components of the work i.e. Lab furniture, fume hoods, exhaust system, integration with electrical and all other services is in the scope of the supplier.

14. The scope of work attached along with the document is tentative and for representation purpose only. However, after placement of purchase order the supplier shall visit the Laboratory and take necessary measurements in consultation with purchasers personal and prepare 3D/shop drawing and get it approved from purchaser before taking up the production.
15. Personal protective equipment (PPEs) e.g. safety cap (Hard), Safety shoes, eye protections, Ear protection, protective Goggles, Safety belt and Mask etc. are to be used while executing the work. Supply of these items is in the supplier's scope.
16. Before commencement of work, Job Hazard Analysis (JHA) is to be carried out by the supplier for Lab Infrastructure indicating job, potential hazard associated, Actions taken to reduce risk and responsible persons at site shall be identified.
17. The bidder shall clearly mention the break-up of quoted price for (i) supply of material (ii) installation and commissioning (iii) dismantling of existing Laboratory furniture and transportation of the same.
18. The Payment to the successful bidder shall be made only after the submission of satisfactory report by the authorities concerned to the laboratory being refurbished.
19. Successful bidder has to seek permission from the administration department of NITVAR before the initiation of the work after duly submitting the detailed blueprint and schedule for server shifting well in advance. Successful bidders shall be completely responsible for the actions and damages caused by the manpower deployed for the refurbishment of the laboratory. No claim for any kind of entitlement shall be considered by the NITVAR from the manpower deployed by the successful bidder.
20. If any damage to the property of the NITVAR occurred during the refurbishment of the laboratory operation, if so claimed by the Maintenance Division of the NITVAR, Pune, the successful bidder shall be bound to pay the damages done as the cost assessment by the Maintenance Division of the NITVAR.
21. After placement of purchase order the successful bidder should complete the refurbishment work within 30 working days from the date of Generation of Contract Order.
22. The Successful bidder has to provide the 5 years comprehensive warranty on the material, fittings and supplied parts.
23. Conformity with Statutory Acts, Rules, Standards and Codes is essential. All components should conform to Specifications mentioned in the latest version of the relevant Indian standard wherever existing and/or relevant international standard irrespective of whether explicitly mentioned or not. All electrical work should be carried out in accordance with the provision of Indian Electricity Act 2003 and Indian Electricity Rules 1956, amended to date.

All lab fixtures should conform to relevant standards or guidelines and the bidder should provide documentary evidence to this effect. These include the following or equivalent International Standards amended to date:

1. SEFA1 - Scientific Equipment and Furniture Association for Laboratory Fume Hoods.
2. SEFA 3 - Scientific Equipment and Furniture Association for Work surface.

3. SEFA 8M - Scientific Equipment and Furniture Association for Steel Caseworks.
4. SEFA 10 - Scientific Equipment and Furniture Association for modular furniture
5. NFPA 30 - National Fire Protection Association
6. NFPA-45 - National Fire Protection Association
7. ASTM D522 - Bending Test of coatings
8. ASHRAE 110-2016
9. IS 513:1994 formed steel
10. IS 2379 for pipe line color code
11. IS 4923:2017 for pipe
12. GI as per IS 277
13. Eye wash and safety shower as IS:10592