

## *Section VI. Specifications*

**INSTRUCTION:** Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a) (ii) and/or GCC Clause 2.1(a)(ii).

Technical Specifications Particulars	Requirements	Statement of Compliance
<b>1. Application of the INFRASTRUCTURE PROJECT NO. 03-2023</b> (Construction of New Laboratory Building)	<b>SCOPE OF WORKS</b>  <b>I. GENERAL REQUIREMENTS</b> a. Mobilization. b. Construction of temporary site facility. c. Fabrication and installation of Construction billboard. d. Fabrication and installation of COA billboard. e. Fabrication and installation of Health and Safety Reminder billboard.	
	<b>II. DEMOLITION WORKS</b> a. Demolition of existing floor slab b. Demolition of existing structural roofing system. c. Demolition of existing ceiling system. d. Demolition of existing plumbing and electrical fixtures and lines. e. Dismantling of existing fabricated materials.	
	<b>III. EARTHWORKS</b> a. Excavation of adobe soil. b. Application of gravel bedding in footings, strap footings, wall footing and slab on fill. c. Application of soil poisoning/treatment.	

	<p><b>IV. CONCRETE WORKS</b></p> <ol style="list-style-type: none"> <li>a. Fabrication and installation of column footing reinforcing bars.</li> <li>b. Fabrication and installation of strap footing reinforcing bars.</li> <li>c. Fabrication and installation of tie beam reinforcing bars.</li> <li>d. Fabrication and installation of column reinforcing bars.</li> <li>e. Fabrication and installation of retaining wall reinforcing bars.</li> <li>f. Fabrication and installation of concrete canopies reinforcing bars.</li> <li>g. Fabrication and installation of second floor beam reinforcing bars.</li> <li>h. Fabrication and installation of roof beam reinforcing bars.</li> <li>i. Fabrication and installation of lintel beams reinforcing bars for all window openings.</li> <li>j. Fabrication and installation of slab reinforcing bars.</li> <li>k. Fabrication and installation of exterior ramp reinforcing bars.</li> <li>l. Fabrication and installation of stair reinforcing bars.</li> <li>m. Fabrication and installation of formworks and scaffoldings.</li> <li>n. Concrete pouring using 4500 psi and 3500 psi design as per plan specifications.</li> <li>o. Application of cementitious waterproofing for roof slab, comfort room and shower areas and retaining wall.</li> <li>p. Testing and Commissioning.</li> </ol>	
	<p><b>V. MASONRY WORKS</b></p> <ol style="list-style-type: none"> <li>a. Fabrication and installation of reinforcing bars for masonry wall.</li> <li>b. Fabrication and installation of reinforcing bars for masonry drainage canal.</li> <li>c. Installation and laying of 6" CHB for exteriors walls and 4" CHB for interior walls, parapet wall and plant boxes as reflected on plans.</li> <li>d. 16mm plastering on all surfaces including cement plaster mouldings as per plan specifications.</li> </ol>	



	<p>e. Application of cementitious waterproofing on parapet wall, roof deck and comfort room areas that was specified in the given complete set of plans.</p> <p>f. Testing and Commissioning.</p>	
	<p><b>VI. CEILING SYSTEM WORKS</b></p> <p>a. Fabrication and installation of required ceiling joists, fiber cement board, etc. to complete the ceiling system.</p>	
	<p><b>VII. ROOFING SYSTEM AND OTHER STEEL WORKS</b></p> <p>a. Fabrication and installation of required trusses, roofing sheets and other accessories to complete the roofing system.</p> <p>b. Fabrication and installation of steel framing ramp, steel emergency exit stairs, steel canopies and others as per plan requirements and specifications.</p> <p>c. Application of metal primer with exceptional rust – inhibiting properties on Black Iron (BI) and Galvanized Iron (GI) steels.</p>	
	<p><b>VIII. ELECTRICAL WORKS</b></p> <p>a. Installation and testing of required electrical fixtures and lines to complete the electrical system.</p> <p>b. Testing and Commissioning.</p>	
	<p><b>IX. PLUMBING WORKS</b></p> <p>a. Installation and testing of required plumbing fixtures and lines to complete the plumbing system.</p> <p>b. Testing and Commissioning.</p>	
	<p><b>X. TILING WORKS</b></p> <p>a. Installation of Hospital Antibacterial Homogenous Vinyl Flooring on the required Laboratory Working Areas that was specified in the given architectural plans.</p> <p>b. Installation of required 60cm x 60cm glazed wall tiles on comfort rooms as specified in the given architectural plans.</p> <p>c. Installation of required 60cm x 60cm homogenous floor tiles on offices as specified in the given set of architectural plans.</p> <p>d. Installation of required 60cm x 60cm</p>	

	<p>non-skid floor tiles on all other floor areas as specified in the given architectural plan.</p> <p>e. Installation of Granite Counter Top including its accessories.</p>	
	<p><b>XI. PAINTING WORKS</b></p> <p>a. Application of painting materials and finishes on all required surfaces (Exterior and Interior wall, Ceiling and etc.). Acrylic paints for interior walls and ceiling and elastomeric paint for exterior walls.</p> <p>b. Painting of miscellaneous pre-finished items such as grills and wooden cabinet as per plan specifications.</p>	
	<p><b>XII. FABRICATED MATERIALS</b></p> <p>a. Fabrication and Installation of Glass Windows with security grills on all areas required as per the approved plan specifications.</p> <p>b. Fabrication and Installation of Glass Doors on all areas required as per the approved plan specifications.</p> <p>c. Fabrication and Installation of Wooden Doors on all areas required as per the approved plan specifications.</p> <p>d. Fabrications and installation of Plastic Laminated and PVC Accordion Partitions on all areas as per the approved plan specifications.</p> <p>e. Supply of Wooden Lockers complete with necessary accessories with paint finish specified in the given set of plans.</p> <p>f. Fabrication and Installation of all other items specified in the given complete set of plans.</p>	
	<p><b>XIII. HVAC</b></p> <p>a. Supply and installation of required HVAC units as per plan specifications.</p> <p>b. Detailed plan (Mechanical Plans), bill of materials and materials specification for the Design and Build of Negative Pressure System at <b>Processing, Pre-Analysis, Analysis and Specimen Receiving Area of the MOLECULAR DIAGNOSTIC UNIT OF THE PROJECT</b>. The exhaust must produce at least 12 air</p>	

	<p>changes per hour (ach) and must be directed away from people and adjacent structures. Signed and sealed by a Professional Mechanical Engineer.</p> <ol style="list-style-type: none"> <li>i. Additional exhaust requirement to be considered if the area has adjacent buildings, exhaust stack should not have gooseneck or cap and should be at least 3.00m higher than the highest point of the roof or adjacent building and distant to other taller structures with open windows above. If this criterion was not met, additional exhaust requirement must be installed (e.g. bag-in bag-out (BIBO) HEPA filter box).</li> <li>ii. Exhaust air grille must be on the dirty side of the laboratory should be on top of the Biosafety Cabinet.</li> <li>iii. Supply air grille locations were on the clean side of the laboratory preferably near entrance doors.</li> <li>iv. Includes installation of pressure monitoring device (e.g. magnehelic gauge) per room for monitoring pressure differential especially for Specimen Receiving Area.</li> <li>v. All split type air – conditioning units must be reflected on the submitted plans</li> <li>vi. Air direction must should be away from the biosafety cabinets, isolation hoods and alike.</li> <li>vii. Location of switch/es of the HVAC systems (AHU) shall be located in the doning area of the laboratory, and access and control shall be restricted only to authorized personnel only, away from the public.</li> </ol> <p>c. Installation and testing of Negative Pressure System at <b>Processing, Pre-Analysis, Analysis and Specimen Receiving Area</b> which includes the supply of necessary equipment and materials that conforms the required guidelines.</p> <p>d. Testing and Commissioning.</p>	
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	<p><b>XIV. SEPTIC TANK AND CONCRETE CANAL</b></p> <ul style="list-style-type: none"> <li>a. Construction of 5m x 3m x 2.3m septic tank.</li> <li>b. Construction of new concrete canal with cover and catch basin as per plan specifications</li> </ul>	
	<p><b>XV. MISCELLANEOUS</b></p> <ul style="list-style-type: none"> <li>a. Installation of required signages including the building identity signage, room signage and other directional signage.</li> <li>b. Fabrication and installation of one meter diameter NCMH Logo with lighting as per the required specification</li> <li>c. Installation of FDAS (Fire Detection and Alarm System) devices and wirings as per plan specifications and existing code requirements.</li> <li>d. Installation and testing of required CCTV lines, cameras and monitors as per plan specifications.</li> <li>e. Installation and testing of required telecommunication lines and WIFI system including the required devices as per plan specifications.</li> <li>f. Installation and testing of required generator set and construction of generator set housing as per plans specifications.</li> <li>g. Supply and installation of 2.6 cubic meter water storage tank including its pump and other required accessories. Construction of water storage tower as per plan specifications.</li> <li>h. Supply and installation of ornamental landscaping plants specified in the given architectural plans.</li> <li>i. Processing of Building Permit complete with all necessary documents that is signed and sealed (if needed) by a duly licensed professional.</li> <li>j. Supply and installation of fixed high grade aluminium cabinets under all granite counter top. Complete with all necessary accessories.</li> </ul>	
	<p><b>XVI. CLEARING/GRUBBING/HAULING</b></p>	

	<ul style="list-style-type: none"> <li>a. Hauling of demolished materials and excavated adobe soil.</li> <li>b. Clearing of site from construction debris in preparation for project turn-over.</li> <li>c. Submission of required engineering documents and As-built plans.</li> <li>d. Demobilization.</li> </ul>	
<b>CONFORME:</b>		
<i>(Company Name)</i>		