

**ANNEXURE- II****'BILL OF QUANTITIES OF TENDER FOR REPAIRS & RENOVATION WORKS AT L & M BLOCKS, IDRBT STAFF QUARTERS, BEGUMPET'**

SL NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (IN FIGURES)	RATE (IN WORDS)	AMOUNT
<b>A. DISMANTLING, CLEANING &amp; PRE-TREATMENT</b>						
A.1.	Removal of loose plaster, opening of cracks upto a width of 1 inch on both sides of the crack, removal of all loose debris, scrubbing the surface with wire brushes, cleaning of reinforcement bars where exposed and treatment of reinforcement bars with zinc primer, all necessary treatment required for the surface to receive 1 or more coats of cement plaster etc. at all heights including the cost of labour, scaffolding till required height, tools and tackles required for the job, stacking and removal of debris from site at regular intervals and any other item required for satisfactory completion of the work.	SQ.M.	550.00			
<b>B. REPAIRS TO EXTERNAL BUILDING SURFACE</b>						
B.1.	Procurement and application of Polymer Modified Mortar of any reputed brand (Fosroc/Sika/BASF etc.) of average 20 mm thickness achieved in one or more layers at any height and level. The first coat shall be of 12 mm thick waterproof cement mortar of proportion 1:4 (1 Cement: 4 Coarse Sand) and second coat shall be of balance thickness according to finished surrounding surface in 1:3 (1 Cement: 3 Coarse Sand) waterproof cement mortar. Proprietary waterproofing compound confirming to IS: 2645 (Latest Version) will be mixed with cement mortar as per manufacturer's specification. The quoted rate shall also include for provision of necessary scaffolding up to a height of 25 meter, curing, making drip mould at any height and level etc. all complete as required at site and directed by Engineer -in - Charge. The Polymer Modified Mortar & Water Proofing chemical to be used after approval of Engineer-in-Charge.	SQ.M.	550.00			

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<b>C. PAINTING</b>						
C.1.	Procurement and Application of 2 or more coats of External Damp-Proof compound of any reputed make (Asian Paints/Berger etc.) after application of crack-seal compound wherever necessary and thorough cleaning with water on all designated walls/ceilings with history of seepage or dampness at all heights. Rates must include cost of all material, labour, scaffolding upto a height of 25 Meter, tool and tackles etc. Works must be done with strict adherence of instructions received from Engineer-in-Charge.	SQ.M.	500.00			
C.2.	Procurement and Application of 1 coat of external primer & 2 or more coats of Acrylic External Emulsion Paint of any reputed make (Asian Paints/Berger etc.) after application of crack-seal compound wherever necessary and thorough cleaning with water on all external walls/ceilings with direct exposure to weather elements. Rates must include cost of all material, labour, scaffolding upto a height of 25 Meter, tool and tackles etc. Works must be done with strict adherence of instructions received from Engineer-in-Charge.	SQ.M.	5,500.00			
C.3.	Procurement and Application of 1 coat of primer & 2 or more coats of Internal Emulsion Paint of any reputed make (Asian Paints/Berger etc.) after application of crack-seal compound wherever necessary and thorough cleaning with water on all external walls/ceilings without any exposure to weather elements. Rates must include cost of all material, labour, scaffolding upto a height of 25 Meter, tool and tackles etc. Works must be done with strict adherence of instructions received from Engineer-in-Charge.	SQ.M.	1,300.00			
C.4.	Procurement and Application of 2 or more coats of Synthetic Enamel Paint of any reputed make (Asian Paints/Berger etc.) after necessary cleaning of surface on all metal entitites like window grills, door grills, staircase hand rails etc. Rates must include cost of all material, labour, scaffolding upto a height of 25 Meter, tool and tackles etc. Works must be done with strict adherence of instructions received from Engineer-in-Charge.	SQ.M.	350.00			

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<b>D. WINDOWS</b>						
D.1.	Removal of existing aluminium windows as per the instructions of the Engineer-in-Charge and stacking the removed items properly at the place designated for it. Finishing of the Window sills for receiving the new window with cement plaster after removal of old window. Rates must include cost of Labour, Tools & Tackles, necessary scaffolding to required height etc.	L.S.	1.00			
D.2.	UPVC Sound-proof Windows with the following specifications <b>Sliding Window (3 Track)</b> <b>Main Frame Material::</b> uPVC <b>Colour::</b> Ivory/White <b>uPVC Outer wall thickness::</b> Minimum 2.3 mm <b>uPVC Frame Width::</b> Minimum 110 mm <b>Sash Height::</b> Minimum 60 mm <b>Reinforcement::</b> Minimum 1.2 mm Thick Galvanized Iron <b>Glass::</b> Saint Gobain Tempered Glass of Minimum 5 MM thick <b>Glazing::</b> Double Glazing on each Pane with glass specified above. <b>Mesh::</b> SS 304 Grade mesh on one pane With EPDM Gaskets, Touch Locks and all Stainless Steel fixtures. Complete with Transportation, Storage, Installation charges and charges for sealing gaps with silicon sealant.	SQ.M.	110.00			
<b>E. PLUMBING WORKS</b>						
E.1.	Carefully removing/dismantling, stacking at the designated place of all old GI Pipelines laid from the tanks in the terrace and the drop downs in the service shafts till the flat wise ditribution level. The cost should include labour, material, tools & tackles etc. and entire work should be done with strict adherence to instructions received from Engineer-in-Charge.	L.S.	1.00			

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E.2.	Providing and Fixing of 50mm dia CPVC pipes of Reputed makes (Astral/Ashirvad/Finolex etc.) from Terrace overhead Tank to ground floor in ring main and backbone model as directed by the Engineer-In-Charge along the parapet walls and into the service shafts fixed with neccessary clamps on wall along with pipe at every 2 mtrs. Rates shall include scaffolding till a height of 24 Meters and nesscessary fittings like MABT/FABT/Coupling/Bend/Tie/Union/Ball Valves etc. at designated places and as per instructions of the Engineer-in-Charge	MTR.	750.00			
E.3.	Providing and Fixing of PVC Tanks of reputed makes along with proper masonry base and holding clamps made of metal strips. The cost must include transportation charges to site, Lifting to the site using mechanical lifts, installation at place , masonry work required to prepare the base, joineries etc.	LTR.	30,000.00			
<b>F. OTHER REPAIRS AND RENOVATION OF CANTEEN</b>						
F.1.	Providing and constructing brick masonry <b>230mm thick/115 mm thick</b> , using Standard Red Bricks/AAC block masonry and approved size and strength, in cement mortar 1:4 in superstructure , incl striking joints on unexposed faces, racking of joints curing, scaffolding etc complete.	CU.M.	15.00			
F.2.	Providing & applying internal/external cement plaster 10-12 mm thick smooth plaster in cement mortar 1:4 for faces of blockwork / concrete at all elevations including hacking of concrete surfaces,double scaffolding, curing, forming grooves, wherever necessary all complete as per drawings and specifications.	SQ.M.	150.00			
F.3.	Providing & Fixing in position 597 x 597 tiles / marbles over 20 mm thick cement mortar 1:4 (to be laid atleast 48 hours before laying of tiles), laid with cement slurry of 2.75 Kg/m2 and pointing the joints neatly with cementitious grout of (Roff /Bal Endura) make to match the tiles, and patterns complete for flooring all as per specifications & as recommended by the Manufacturer for Flooring and Skirting.	SQ.M.	60.00			

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F.4.	Providing and Fixing of Lintel beam over doors and widows of appropriate length including cost of steel, cement, sand etc. The lintel must rest at least 450 mm on both sides on the masonry. Of either 4.5" or 9" size.	NOS.	2.00			
F.5.	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for all reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centring, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 380kg. of cement per cum of concrete. the rate must include the cost of necessary steel required for casting.	CU.M.	1.00			
F.6.	Providing & fixing in position mirror polished granite of selected quality slabs of thickness 18mm (+/- 2mm tolerance) in approved shape, size & colour and pattern in kitchen platforms, counter washbasins, vanity counters facias, drops and in similar locations with machine cut all exposed edges rounded & other edges polished and making necessary opening for wash basins/sinks etc as per the drawings over cement, sand. backing coat plaster of 15mm / required thickness in CM 1:4 proportion, including pouring cement slurry of required consistency to avoid any possibility of hollowness behind the slabs, filling the joints with white cement and matching color pigments including hand polishing for removing any unevenness on the surface, curing, scaffolding etc. complete as per drawing, specifications and as directed by the Engineer-in-Charge.	SQ.M.	5.00			
F.7.	Providing and Fixing of wooden Frame and shutters in kitchen/bed rooms over existing masonry shelves made of fire proof, water proof and termite proof plywood with shutters and laminates of approved shade on all faces.	SQ.M.	10.00			

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F.8.	Providing and Fixing Flush doors with Teak/Sal wood frame as per instructions of the Engineer-In-Charge including cost of all hardware like 2 aldrops on each side, one tower bolt, 2 4" handles on each face, door stopper, 3/4 hinges as per requirement etc.	SQ.M.	6.00			
F.9.	Providing point wiring (3 lengths) for lights, fans, geysers, air conditioners, etc. with appropriate wire ratings and Anchor Roma switches, sockets, face plates, Concealed metal boxes of appropriate sizes etc. complete as per instructions of Engineer Incharge from tapping point in MCB to termination point.  A centralised MCB Box along with appropriate no. of MCBS needs to be provided in the premise at defined location and wiring from main Energy Meter and the MCB Box has also to be provided. Prices of all items is deemed included in point wiring rate.	NOS.	25.00			
F.10.	Providing and fixing of 20 mm Dia PVC pipeline with all couplings, bends, Ball valve etc. including all material labour transportation.	R.M.	60.00			
F.11.	Providing and fixing of UPVC pipeline for waste water lines including all bends couplings material labour and transportation. (75 mm Dia)	R.M.	15.00			
F.12.	Providing and fixing Hindware / Parryware Wash basin with waste coupling and waste pipe, pvc Connector and Wall Angle cock + Sink Faucet.	NOS.	3.00			
F.13.	Providing and Fixing of S.S. niral sink of size 2' x 2' along with all PVC connections, waste pipe waste coupling, Kitchen Sink Tap etc .	NOS.	1.00			
F.14	Providing and fixing of mirrors of size 24"X 18" on wall mount studs. Along with all accessories and glass/pvc rack below mirror	NOS.	3.00			

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F.15.	Providing and Fixing of Chrome Plated Jallis for Drains/Nahani Traps	NOS.	5.00			
F.16.	Providing and Fixing of Chrome Plated Towel Rods	NOS.	2.00			
F.17.	Providing and Fixing of Chrome Plated Water Taps.	NOS.	3.00			
F.18.	Dismantling of walls, door frames, window frames, wall tiles old electrical conduits etc. Required for carrying out the desired renovation as per instructions of Engineer In-charge. The bidders are advised to physically visit the site and verify the work to be done before quoting for this item. No price escalation shall be entertained under any circumstances.	L.S.	1.00			
<b>Total Base Cost (Exclusive of Taxes):</b>						
<b>RATE OF TAX/GST APPLICABLE ON ABOVE (%):</b>						
<b>G. BUYBACK</b>						
G.1.	Buyback of all GI Pipes, Aluminium Windows, any other usable or recyclable item recovered during the works etc. on as is where is basis.	L.S.	1.00			