

PRICE BID: LAST DATE AND TIME FOR SUBMISSION AT 14:00 HRS ON 13.10.2023

BOQ FOR THE EXTERIOR RENOVATION OF

A-BLOCK OF STAFF QUARTERS AT SECTOR-21, ROURKELA

Sl. No.	Description of the Works	Unit	Quantity	Rate	Amount
1	DISMANTLING WORKS				
1.1	Dismantling of old damaged plastering work (Exterior) from the walls of the building by chiselling carefully from the affected area of exterior / interior surface of wall / ceiling etc including rubbing / scrapping the surface by means of wire brush to receive new plaster. The rate shall be inclusive of all material, tools, equipment and scaffolding etc.	SQM	1147.00		
1.2	Dismantling & removing the loose concrete from RCC chajas, columns beams etc by using mechanical means, disposal of debris out of complex premises complete in all respects to receive the new concrete as directed by the Engineer In Charge.	CUM	5.57		
1.3	Removal of damaged GI rain water Pipe / soil pipe / waste pipe from the buildings and disposal of the same as per the local municipality rule. The garbage shall not be dumped in the premises permanently. The rate shall be inclusive of the scaffolding, labour and tools required. (From all the buildings)	RMT	51.22		
1.4	Dismantling of the damaged MS grill window shutter from all level of the building, and disposal of the damaged window and glass out of the premises as per the municipal rule.	SQM	47.03		
2	SPECIALIZED WORK				
2.1	Providing & Laying of Microconcrete in RCC Columns/beams/slabs/chajja damaged severely including removing damaged concrete by wooden hammer and cleaning the surface and P&L concrete bonding agent to the area including centring, shuttering, vibrating etc complete. 1 bag weighs 30 kg of fosroc/ ultratech/ sika as approved by EIC.	BAG	10.00		
2.2	Cleaning the exposed reinforcement and applying rust cleaning agent to the reinforcements.	RMT	90.00		
2.3	Cutting reinforcement and replacing with new reinforcement and tying with existing reinforcements including reinforcement for RCC work. It can be grouted to RCC through lockfox grout of Fosroc or equiv as approved	KG	85.00		
2.4	Chipping the structural members chajja, lintels, ceilings, beams, columns upto 50 mm thickness average exposing reinforcement and providing and mixing and applying SBR polymer of approved make @ 2l per bag of cement used in modified plain/reinforced cement concrete for structural members (1:1.5:3) using 8mm and down stone aggregate in proportion as directed by engineer in charge including scaffolding etc complete in all respect (fosroc (Nitobond SBR Latex /Sika/ Ultratech/ Dr Fixit as approved)	SQM	40.00		
2.7	Water proofing				
	Surface dressing or preparation				
a)	Removal of loose concrete and dressing the surface properly by mechanical or manually means as per the site condition up to original surface of mother slab, followed by cleaning the surface 2-3 times by water, the depth may vary from 50 mm to 200mm. The mucks/debris needs to be removed from the terrace to unobjectional area or dumping yard as per the norms of the BMC. The item includes lead, manpower etc, complete in all respect as per the direction of EIC.	CUM	16.38		
b)	Repairs of surface cracks by cutting the "V" grooves on the cracks by mechanical means, cleaning the surface with compressed air, repairing the damaged areas, filling the groove with polymer mortar in two coats inside the crack, supply & application of epoxy based bonding agent and filling the same in micro concrete of higher grade than the existing roof slab, curing the joints complete in all respects as directed by Bank and as per manufacturer's specifications. Make: Pidilite/Fosroc/Sikka/STP	RMT	93.25		
c)	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying	SQM	84.75		
	i) after surface preparation and repair to cracks, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.				
	ii) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.				
	iii) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.				

	d)	Supply & provision of screed concrete of 1:1: 2 ratio (M25) reinforced with polypropylene fibres (PMM) & mixed with approved water proofing compound 10% by weight of cement complete as per manufactures specifications over the RCC roof (Minimum thickness 50 mm to max thick ness 200 mm) complete in all respects as directed by Bank. (Note: Agreegate size shall be Bajri 60% & 12 mm aggregate 40%). The cost also includes laying of 120 gsm geo fabric layer as directed . The surface of screed shall be finished with saw cut joints to be formed in 10mmX10mm groove after final setting time of concrete but must be completed groove cutting work within 72hours after concreting work and fill with expansible bituminious material.	CUM	9.75		
		Note: Contractor to arrange and lay tarpulin sheet to cover roof slab during monsoon to arrest water leakage during the course of work as per site condition and as directed.The work shall be executed by the authorized applicator and as per specification of the manufacturers.Water ponding tests shall be done for a period of 7 days for testing against seepage or leakage as advised by the Bank. There should not be any sign of water leakage. A gurantee of 5 years shall be given by the Vendor against water proofoing work in a Rs.100/- .				
3	TILE WORK					
		Providing and laying AntiSkid Vitrified tiles in floor/stairs/lobby in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently+B28 and easily.	SMT	132.26		
4	PAINTING WORK					
	4.1	Painting Exterior walls with dust resistant and antifungal premium acrylic smooth exterior paint with silicon additives of required shade of APEX ULTIMA of Asian Paint/ Equivalent of Nerolac/ Berzer on walls mixed with maximum (1:4) ratio with water and to be applied over one coat of primer (Asian base coat) diluted maximum (1:1) in ratio with water. The masonry walls are to be prepared free from dust & dirt, fungal etc. using wire brush and cleaning the surface with water jet complete with the cost of all materials, rigid-firm bamboo scaffolding, ladders ropes brush and any other materials, tools etc. to complete the work in all respect as per instruction of the Bank. The shade in combination will be submitted to bank for finalization of the shade. Spread of the paint should not more than 10 Sqm/ 1.43 Ltr and primer as per manufacturer specification.	SQM	1346.33		
	4.2	Supplying and applying of two coats of emulson paints of ICI/DULUX/BERGER over a single coat of primer to all the inside walls,roofs of toilet.The surface to be painted need to be prepared by applying one layer of putty to make it smooth as per the direction of Bank.Item to be completed with the cost of all labour, materials and scaffolding charges including necessary curing.	SQM	292.80		
	4.3	painting two coat (excluding priming coat) on previously painted steel and other metal/wood surfaces with enamel paint of approved brand and manufacture (Asian paint/ berger/ ICI/ J&N/nerolac) to give an even shade including cleaning the surface of all dirt, dust, rust and other foreign matter.	SQM	47.03		
5	PLUMBING WORK					
	5.1	Supplying, fitting and fixing PVC pipes of 6 Kg/cm2 (Make: Supreme/ Prince) or other ISI approved including joining ,fitting and fixing wiyh clamps etc.as necessary complete at all levels including below G.L as directed and specified. 110 MM Dia Rain Water Pipe. Note: All the joints shall be joined as per specification of the Manufacturer	RMT	63.50		
	5.2	Supplying, fitting and fixing 87.5 degree PVC bend of (Make: Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified. Note: All the joints shall be joined as per specification of the Manufacturer (110 MM DIA)	EACH	8.00		
	5.3	Supplying, fitting and fixing PVC pipes of 6 Kg/cm2 (Make: Supreme/ Prince) or other ISI approved including joining ,fitting and fixing wiyh clamps etc.as necessary complete at all levels including below G.L as directed and specified. 75 MM Dia Waste Water Pipe. Note: All the joints shall be joined as per specification of the Manufacturer	RMT	95.25		
	5.4	Supplying, fitting and fixing 87.5 degree PVC bend of (Make: Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified. Note: All the joints shall be joined as per specification of the Manufacturer	EACH	16.00		

5.5	Supplying fitting and fixing PVC Plain single tee of (Make: Supreme/ Prince) or other ISI approved including joining, fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. Note: All the joints shall be joined as per specification of the Manufacturer	EACH	16.00		
5.6	Supplying, fitting and fixing PVC pipes of 6 Kg/cm ² (Make: Supreme/ Prince) or other ISI approved including joining ,fitting and fixing with clamps etc.as necessary complete at all levels including below G.L as directed and specified. 160 MM Dia SOil line. Note: All the joints shall be joined as per specification of the Manufacturer	RMT	63.50		
5.7	Supplying, fitting and fixing 87.5 degree PVC bend of (Make: Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified. Note: All the joints shall be joined as per specification of the Manufacturer	EACH	16.00		
5.8	Supplying fitting and fixing PVC Plain single tee of (Make: Supreme/ Prince) or other ISI approved including joining, fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. Note: All the joints shall be joined as per specification of the Manufacturer	EACH	16.00		
5.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 32 mm nominal dia Pipes	RMT	63.50		
5.11	Supplying, fitting and fixing 87.5 degree CPVC bend of (Make: Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified. Note: All the joints shall be joined as per specification of the Manufacturer	EACH	16.00		
5.12	Supplying fitting and fixing c-PVC Plain single tee (Equal or reducing) of (Make: Supreme/ Prince) or other ISI approved including joining, fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.	EACH	16.00		
6	MS GRILL WORK				
6.1	MS Main Entry Gate				
	Fabricating and Installing Main Entry MS Gate in two panes with minimum Three Number of Hinges at each side, Roller with guiding rail, One small entry gate shall provided at one side to make access of the pedestrian. The gate shall be made from 2" X1" MS tube of 5 mm thickness (22 gauge)	KG	195.00		
6.2	P&F 12mm square bars grills the window frames as per shape and size approved (Considered as 30kg/ per sqm of area)	KG	161.00		
6.3	Repairing to the existing MS grills and MS framed window with all required hardwares with necessary welding as per the site requirement to make it good and complete (without glass to pans)	SQM	15.00		
7	ALUMINIUM SLIDING WINDOW WORK				
	Providing and fixing in position powder coated anodized aluminum openable sliding 2 track windows using standard extruded aluminum sections for frames etc. (heavy type) having anodization not less than 15 microne. Use PVC gasket, pins, 5.0 mm thick obscured glass panes as panels, including fixing in position in jambs / lintel / sills as directed with PVC lugs, steel screws and all other hardware fittings such as anodized aluminum handles with locking arrangements peg stay etc. Item to be completed with the cost of all labour, materials and scaffolding charges at all level for (G+3) building.	SQM	44.60		
8	PLASTERING WORK				
	15 mm thick Cement plaster in single coat on rough side of single or half wall for interior plastering including arises, internal rounded angles not exceeding 80 mm in girth and finished even and smooth and including curing complete as directed in 1:4 Cement Mortar. Item to be completed with the cost of all labour, materials and scaffolding charges at all level for (G+3) building including necessary curing.	SQM	950.00		
9	SITE DEVELOPMENT & SURFACE DRAIN WORK				
9.1	Desilting Work				
	Desilting of the surface drain surrounded around the block including minor repairing work to the drain bed with PCC of 1:2:4 (One Cement : 2 Sand : 4 Bajri) with neat cement finish work as instructed by the Engineer	RMT	48.05		
9.2	Brick Work				
	112.5 mm thick 1st class brick nogged wall in cement mortar including racking out joints and curing complete as directed in super structure above plinth up to 1st floor level (protruding M.S rod/Tor steel of column to be embedded in cement mortar and will be measured and paid separately in cement mortar in proportion 1:4 (1 cement :4 sand). Item to be completed with the cost of all labour, materials and scaffolding charges at all level for (G+3) building.	SQM	49.50		
9.3	Paver Block				

	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	SQM	124.00		
		TOTAL			

Note: Rate shall be inclusive of all material labour and scaffolding.