



Part – II

Financial Bid Document For

PROPOSED STRUCTURAL AND CIVIL REPAIRS, WATERPROOFING, PLUMBING, PAINTING & ALLIED WORKS AT INDIAN BANK OFFICERS QUARTERS, GAUTAM APARTMENT, RAHEJA TOWNSHIP, RANI SATI MARG, MALAD, MUMBAI 400 097.

ZO/MUM(W)/PROP/TNDR/GAUTAM 01

Date: 19.12.2022

PROJECT MANAGEMENT CONSULTANTS:

M/S CREATIVE CONSULTANTS

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Financial Bid

Tender for Structural And Civil Repairs, Waterproofing, Plumbing, Painting & Allied Works at Indian Bank Officers Quarters, Gautam Apartment, Raheja Township, Rani Sati Marg, Malad, Mumbai 400 097

Sr. No.	Description of the item	Unit	Quantity	Rate	Amount
I. ENABLING SYSTEM:					
1	<p><u>ERECTION & REMOVAL OF BAMBOO SCAFFOLDING: -</u> Supplying and erecting Single or double as required good quality bamboo scaffolding with verticals @ 1.2m to 1.8m c/c inner as well as outer faces or as required as per site conditions and horizontals and braces on the Building structure or any other places without any puncher to wall surface etc. including the removal of scaffolding after completion of the work at all heights, etc. all complete as per the direction of Consulting Engineer / in-charge.</p> <p>Note: The painting and other work will be carry out on the same scaffolding, the charges will be paid only one time for entire work as mentioned in tender BOQ . And height measurements of scaffolding considered shall be Gr. Level to above parapet height i.e. 3'0". And width shall be considered at actual on site.</p>	Square Meter	9600.00		
2	<p><u>JUTE KANTAN (TARAT) SCREEN: -</u> Providing & Fixing Synthetic cloth / bardan covering screen to the external side scaffolding including removing the same after the work etc. complete.</p> <p>Note: The measurement same as bamboo Scaffolding.</p>	Square Meter	9600.00		
3	<p><u>SAFETY NYLON NET: -</u> Providing erecting, maintaining and removing temporary protective screens of NYLON NET (Safety Net) with all necessary fixing arrangement to ensure that it remains in position for the entire work duration etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Square Meter	600.00		
4	<p><u>WINDOW COVERING:-</u> Providing and covering windows, doors or other openings with 3 to 4 mm thick new or old Plywood at all levels including securing it properly to avoid damage to the glass panels and to prevent dust entering into flats/units etc. including dismantling the same after completion of the work etc. all complete as per the direction of Consulting Engineer / in-</p>	Square Meter	900.00		

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	charge.				
5	<u>REMOVAL OF EXISTING CEMENT PLASTER: -</u> Breaking of old plaster of any thickness by breaker machine or manually at all levels, including cleaning of exposed surface etc. all complete as per the direction of Consulting Engineer / in- charge.	Square Meter	8200.00		
6	<u>BREAKING/CHIPPING LOOSE CONCRETE:-</u> Chipping of existing loose and damaged cover concrete, remove loose particles at specified locations up to the concrete core with chisel and hammer, cleaning the surface with wire brush and washing concrete surface with water etc. all complete as per the direction of Consulting Engineer / in- charge.	Square Meter	1715.00		
7	<u>REMOVING BRICK BAT COBA: -</u> Removing existing water proofing treatment over terrace, Chajja etc. up to mother slab by mechanical as well as manual means upto slab level and cleaning the surface for providing new specialized water proofing treatment etc. complete as per the direction of Consulting Engineer / in-charge.	Cubic Meter	117.00		
8	<u>REMOVAL OF THE DEBRIS:-</u> Removing all debris, spalls, etc. outside the building compound upto the municipal dump with all lead and lift complete as per the direction of Consulting Engineer / in-charge. (Minimum 08 Cu.Mt debris material considered in one nos. of truck.)	One Trip	60.00		
			TOTAL AMOUNT:		
TOTAL AMOUNT IN WORDS:					

II. STRUCTURAL & CIVIL REPAIRING WORKS:

1	<u>ANTI-CORROSIVE TREATMENT:-</u> Providing and applying Anticorrosive treatment to exposed reinforcement portion for Column/Beam/Slab with one coat of alkaline RUST CONVERTER Feovert / Rusticide or equivalent on exposed reinforcement after cleaning the surface with wire brush, followed by two coats of anticorrosive epoxy phenolic IPNET RB (two component system to be mixed in 1:1 proportion) /POLYALK FLXOPRIME two component inhabitant on concrete surface or equivalent rebar protection coating on exposed reinforcement after gap of 6 hrs. and concrete penetrating corrosion inhibitor EPCO KP-100/POLYALK CP 113 or equivalent over adjoining concrete surfaced as per the direction of	Square Meter	1715.00		
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	Consulting Engineer / in-charge.				
2	<p><u>BOND COAT:-</u> Providing and applying of bond coat approved epoxy resin EPI Bond of Krishna Conchem or equivalent before polymer plaster/concrete to have the perfect bond between old concrete and new concrete/polymer plaster surface within half an hour of after application of bond coat confirming to ASTM-C-882-87 using nylon brushes scaffolding labour etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Square Meter	1715.00		
3	<p><u>POLYMER MORTAR (15MM):-</u> Providing and applying upto 15 mm thick polymer mortar to load carrying R.C.C member in two layers in proportion of 1:5:15 by weight Polymer of approved quality and make, cement and quartz sand with required W.C. ratio for desired consistency and applying and finishing by floating, curing after initial setting time etc. as per manufactures specification etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Square Meter	1029.00		
4	<p><u>POLYMER MORTAR (30MM):-</u> Providing and applying upto 30 mm thick polymer mortar to load carrying R.C.C member in two layers in proportion of 1:5:15 by weight Polymer of approved quality and make, cement Band quartz sand with required water cement ratio for desired consistency and applying and finishing by floating, curing after initial setting time etc. as per manufactures specification etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Square Meter	686.00		
5	<p><u>MICRO CONCRETE:-</u> Providing and applying micro concrete of approved brand to columns/ beams/ pardi etc., with free flow high strength non-shrink micro concrete M - 35 using single cement micro concrete shrinkage components added with 100% by weight saturated dry- stone dust. The water cement ratio should be maintained as per manufacturer's specifications, The Micro concrete shall be poured properly in slurry tight prefixed holding boards formwork, fixed properly in line, level and in the required size/shape and well-oiled etc. The air bubbles, if any shall be removed by tapping the boards and removing the same after 24 hours, curing the micro- concrete thoroughly for 14 Days etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Kilograms	14200.00		

6	<u>EXTERNAL SAND FACE PLASTER:-</u> Providing 25mm thick External Plastering in two coats, under layer 15mm thick with C.M. 1:4 finished with a top layer 10mm thick in C.M. 1:5 including admixture with approved Water proofing admixture @ 2% by weight of cement used or as per manufacturer's specifications, sieving of sand to required fineness, drip mould, patta, finishing, curing, etc. complete as per specifications, drawings and as per the direction of Consulting Engineer / in-charge.	Square Meter	8200.00		
7	<u>CHICKEN MESH: -</u> Providing and fixing chicken wire mesh of 150 mm wide of aperture at the junction of R.C.C. members and brick work of approved quality including fixing mesh in position by necessary nailing in concrete or / B.B. masonry and/or tying with binding wire etc. All complete as per the direction of Consulting Engineer / in- charge.	Running Meter	775.00		
8	<u>SEPERATION JOINT FILLING: -</u> Providing & sealing separation cracks between RCC and brick work by cutting groove on both sides crack along the length by electrically operated groove cutter Breaking / removing plaster & loose mortar (up to 75mm depth) in the area between two grooves by chiseling. Washing by drinking water to make it dust free surface. Hammering 10 to 20mm size aggregates in the crack as directed by the consultant. Sealing the crack with polymer modified cementations. Mortar 9 Up to 50mm depth in two layers 1:5.15. complete as per the direction of Consulting Engineer / in-charge	Running Meter	775.00		
9	<u>JOINT RACKING OF STONE MASONARY COMPOUND WALL: -</u> Providing flush grooved pointing with cement mortar 1:3 for stone masonry work including scaffolding and curing etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	490.00		
			TOTAL AMOUNT:		
TOTAL AMOUNT IN WORDS:					

III. WATERPROOFING & GENERAL WORKS:

1	<u>WATER TANK INSIDE WATERPROOFING:-</u> Providing and applying a base coat comprising of 1 Kg Polydee-MC and 1 Kg fresh cement after wetting the surface followed by drying the surface for 2 days, apply primer coat of TP-40 and after drying, applying Polydee-11 two component (mixing ratio 2 A : 1 B) Antibacterial food grade	Square Meter	310.00		
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	coating inside drinking water tank in two coats with time interval of minimum 8 hrs. Covering 7 years guarantee on Court Fee Stamp Paper of Rs. 500/- etc. complete as per the direction of Consulting Engineer / in-charge.				
2	<u>WATER TANK LIFT, HEAD ROOM AND CHAJJA & BALCONY TOP WATERPROOFING: -</u> Providing & laying brick bat coba waterproofing treatment on Chajjas top/ Balcony top with 65 mm average thickness with small brick finished with joint less waterproofing layer in CM 1:4 of average 25mm to 30 mm thick finished smooth with cement slurry & marking thin lines in to 300 x 300 mm false squares with minimum 6mm thick cotton line 150mm x 150mm Watta carried along with the wall with throating at the junction of the wall and Watta top curing, cleaning, as directed etc. complete. As per the Direction Of Consulting Engineer - In-Charge.	Square Meter	705.00		
3	<u>TERRACE TOP WATERPROOFING: -</u> Providing and laying integral cement based waterproofing treatment upto 112 mm thickness including preparation of surface as required for treatment of roof, balconies, terraces etc. consisting of following operations. A) applying waterproofing coating of approved brand in 02 coats in perpendicular after making slab dust free filling of crakes etc. complete B) Laying brickbat coba using broken brick/brick bats 25mm to 100 mm size with cement mortar upto 50% 1:5 (1cement: 5 coarse sand) admixed with proprietary waterproofing compound conforming to IS: 2645 over 20mm thick layer of cement mortar mix 1:5 (1 cement 5 coarse sand) admixed with proprietary waterproofing compound conforming to IS:2645 to required slope and treating similarly the adjoining walls upto 300mm height including rounding of junction of walls and slabs. C) After two days of proper curing Providing & laying IPS in C.M 1:4 i/c roughening the surface to receive China Mosaic and ponding the entire terrace after laying china mosaic chips for 07 days etc. complete As per the Direction Of Consulting Engineer / In-Charge.	Square Meter	780.00		
4	<u>BROKEN CHINA MOSAIC ON TERRACE TOP:-</u> Laying the terrace flooring of broken China-mosaic (broken pieces of China glazed tiles mixed colour) of 25 mm. average bed of C.M. 1:3 with waterproofing compound to correct level and slope (1:100) well compacted and finished; The above treatment shall continue along the inner side of parapet or the adjoining wall upto 30 cm. high as per the above specifications regarding cement mortar in shape of round watta with necessary groove etc. complete. As per the Direction Of Consulting	Square Meter	780.00		

	Engineer / In-Charge.				
4	<u>COPING ON PARAPET TOP: -</u> Providing and laying RCC coping in 100mm thick and 375mm wide using 20mm down metal in proportion of (1:1.5:3) including tying reinforcement, shuttering compacting curing etc. complete.as per the Direction Of Consulting Engineer / In-Charge.	Cubic Meter	15.50		
5	<u>PCC: -</u> Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for steps including steel centring, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centring will not be allowed.), with fully automatic microprocessor-based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete as per the direction of Consulting Engineer / in-charge. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc.)	Cubic Meter	29.00		
6	<u>PAVER BLOCKS (WHEREVER REQUIRED): -</u> Providing and fixing in the interlocking concrete pavers unshaped (monolithic single layer precast concrete blocks) of grey cement and of approved colour with lacquer coating as per technical specification, 60 mm thick having average crushing strength of 35 N/ m2 placed on average thickness of 65 mm uniformly graded river sand cushioning with properly compacted with mechanical compactor with required level grade and camber etc. complete as directed.	Square Meter	1450.00		
			TOTAL AMOUNT:		
TOTAL AMOUNT IN WORDS:					

IV. PLUMBING WORKS:

A	<u>PROVIDING AND FIXING PVC PIPE :-</u> Removing Existing Plumbing Lines & Providing and fixing new PVC pipes after removing the existing plumbing lines, Sealing the joints with lead with all fittings and Nails, cutting holes in walls complete as per the Direction Of Consulting Engineer / In-Charge. NOTE: Rate including the provision of temporary plumbing lines				
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	during the execution.				
1	<p><u>160mm RAIN WATER LINE PVC:-</u> Providing and fixing P.V.C. Rain water pipes of 160mm outer diameter and having wall thickness of 2.2 to 2.7m confirming to I.S. 13592-1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved m s brackets projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs. for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2-piece socket clips shall be got approved from engineer in charge including providing of temporary lines etc. complete. As per the Direction Of Consulting Engineer / In-Charge.</p>	Running Meter	260.00		
2	<p><u>110mm W/C LINE PVC: -</u> Providing and fixing 110mm dia. stabiliser pipe/P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps including providing of temporary lines etc. complete. As per the Direction Of Consulting Engineer / In-Charge.</p>	Running Meter	305.00		
3	<p><u>75mm VENT LINE PVC: -</u> Providing and fixing 75 mm dia. Stabiliser pipe/ P.V.C. soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps including providing of temporary lines etc. complete. As per the Direction Of Consulting Engineer / In-Charge.</p>	Running Meter	745.00		
4	<p><u>75mm BATH LINE PVC: -</u> Providing, laying and fixing P.V.C. pipe of75mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same in as directed and providing of temporary lines etc. complete. As per the Direction Of Consulting Engineer / In-Charge.</p>	Running Meter	250.00		
5	<p><u>50mm BALCONY OUTLINE LINE PVC: -</u> Providing, laying and fixing P.V.C. pipe of 50mm dia. with fittings such as bends, tees, reducers, clamps, etc. including necessary excavation, trench filling etc. complete. Including removing existing pipe line if necessary and conveying and stacking the same as directed and providing of temporary line etc. complete. As per the Direction Of Consulting Engineer / In-Charge.</p>	Running Meter	275.00		

B	<u>PROVIDING AND FIXING CPVC LINE: -</u> Removing the existing G.I. and other water supply lines & Providing and fixing the new CPVC pipes of approved brand with all temporary line & necessary fittings to terrace loop line and also down take lines, filling the joints with chemical complete as per the direction of Consulting Engineer / in-charge.				
1	<u>40mm DIA CPVC PIPE: -</u> Providing and fixing on walls/ceiling/floor 40mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line and providing temporary lines if necessary and conveying and stacking etc. complete. As per direction of Engineer in Charge.	Running Meter	435.00		
2	<u>25mm DIA CPVC PIPE: -</u> Providing and fixing on walls/ ceiling/floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line and providing temporary lines if necessary and conveying and stacking etc. complete. As per direction of Engineer in Charge.	Running Meter	340.00		
3	<u>20mm DIA CPVC PIPE: -</u> Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line and providing temporary lines if necessary and conveying and stacking etc. complete. As per direction of Engineer in Charge.	Running Meter	255.00		
4	<u>15mm DIA CPVC PIPE: -</u> Providing and laying in trenches 15 mm dia. CPVC pipe including necessary excavation, fittings. Refilling trenches etc. complete Including removing existing pipe line and providing temporary lines if necessary and conveying and stacking etc. complete. As per direction of Engineer in Charge.	Running Meter	475.00		
5	<u>65mm DIA CPVC PIPE FOR DELIVERY LINE:-</u> Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes of 65 mm nominal inner dia, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints and providing temporary lines if necessary etc. complete as per direction of Engineer in Charge.	Running Meter	50.00		

6	<p><u>75mm DIA CPVC PIPE:-</u> Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes of 75 mm nominal inner dia, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints and providing temporary lines if necessary etc. Complete as per direction of Engineer in Charge.</p>	Running Meter	140.00		
7	<p><u>65mm DIA CPVC PIPE FOR LOOP LINE:-</u> Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes of 65 mm nominal inner dia, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints and providing temporary lines if necessary etc. Complete as per direction of Engineer in Charge.</p>	Running Meter	340.00		
8	<p><u>25mm DIA CPVC PIPE: -</u> Providing and fixing on walls/ ceiling/floor 25 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion including removing existing pipe line and providing temporary lines if necessary, conveying and stacking and etc. Complete as per direction of Engineer in Charge.</p>	Running Meter	110.00		
9	<p><u>GATE VALVE 80mm: -</u> Providing and fixing gun metal gate valve with C.I. wheel of approved bar and of 80 mm nominal bore complete Or as directed, etc. Complete as per direction of Engineer in Charge.</p>	Numbers	4.00		
10	<p><u>GATE VALVE 60mm: -</u> Providing and fixing gun metal gate valve with C.I. wheel of approved bar and of 80 mm nominal bore complete Or as directed, etc. Complete as per direction of Engineer in Charge.</p>	Numbers	14.00		
11	<p><u>GATE VALVE 25mm: -</u> Providing and fixing gun metal gate valve with C.I. wheel of approved bar and of 80 mm nominal bore complete Or as directed, etc. Complete as per direction of Engineer in Charge.</p>	Numbers	56.00		
12	<p><u>GATE VALVE 40mm: -</u> Providing and fixing gun metal gate valve with C.I. wheel of approved bar and of 40 mm nominal bore complete Or as directed, etc. Complete as per direction of Engineer in Charge.</p>	Numbers	16.00		

13	<u>WALL PIECE: -</u> Providing and fixing new Wall Piece of required sizes with all necessary fittings after removing the existing lines, filling the joints, providing PVC sleeves on top, cutting holes in external walls complete as per the direction of Consulting Engineer / in-charge.	Numbers	180.00		
14	<u>G.I BRACKET: -</u> Providing and fixing G.I. Brackets as required size for PVC & UPVC pipes with U Bolt complete as per the direction of Consulting Engineer / in-charge.	Numbers	600.00		
			TOTAL AMOUNT:		
TOTAL AMOUNT IN WORDS:					

V. CONSTRUCTION OF NEW PUMP ROOM:

1	<u>DEMOLITION: -</u> Demolishing R.C.C. slab, R.C.C. wall of any thickness, R.C.C. beams, joists, R.C.C. columns, piles, pile caps etc., in any thickness and size manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cubic Meter	16.00		
2	<u>EXCAVATION: -</u> Excavation for foundation in Hard murum including removing the excavated material upto a distance of 50 metres beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift from 1.5 to 3.0m.) By Mechanical Means as per direction of Engineer - in- charge.	Cubic Meter	24.00		
3	<u>RUBBLE STONE MASONARY: -</u> Providing uncoursed rubble masonry of trap / granite / quartzite / gneiss stones in cement mortar 1:6 in foundation and plinth of inner walls / in plinth of external walls including bailing out water manually, striking joints on un exposed faces and watering etc. complete as per direction of Engineer - in- charge.	Cubic Meter	12.00		
4	<u>RUBBLE SOLING: -</u> Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15 cm to 20 cm thick including hand packing and compacting etc. complete as per direction of Engineer - in- charge.	Cubic Meter	5.00		

5	<p><u>PCC: -</u> Providing and laying Cast in situ/Ready Mix cement concrete in M20 of trap/ granite/quartzite/gneiss metal for steps including steel entering, formwork, laying/pumping, compacting, roughening them if special finish is to be provided, finishing uneven and honeycombed surface and curing etc. complete. The Cement Mortar 1:3 plaster is considered for rendering uneven and honeycombed surface, only. Newly laid concrete shall be covered by gunny bag, plastic, tarpaulin etc. (Wooden centring will not be allowed.), with fully automatic microprocessor-based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete as per direction of Engineer - in- charge. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc.)</p>	Cubic Meter	2.50		
6	<p><u>BRICK MASONRY WORKS: -</u> Providing and laying 100 mm to 230mm thick Brick partition using Chimney burnt locally available approved bricks with minimum crushing strength 35 Kg/Sq cm as per sample approved by the bank in CM 1:4 including curing, raking the joints complete as per the direction of consulting engineer / in-charge.</p>	Cubic Meter	9.00		
7	<p><u>RCC SLAB CASTING WORKS:-</u> Providing and laying Cast in situ/Ready Mix cement concrete M-30 of trap/ granite / quartzite/ gneiss metal for R.C.C. slabs and landings as per detailed designs and drawings including steel cantering, formwork, cover blocks, laying/pumping, compaction finishing the formed surfaces with cement mortar 1:3 of sufficient minimum thickness to give a smooth and even surface or roughening if special finish is to be provided and curing etc. complete,(Excluding reinforcement and structural steel).with fully automatic microprocessor based PLC with SCADA enabled reversible Drum Type mixer/ concrete Batch mix plant (Pan mixer) etc. complete as per the direction of Consulting Engineer / in-charge. With fine aggregate (Natural Sand / Crushed sand VSI Grade finely washed etc.)</p>	Cubic Meter	3.80		
8	<p><u>NEW REINFORCEMENT STEEL: -</u> Replacement / making up of lost area of reinforcement due to corrosion providing additional steel reinforcement. The steel shall confirm to IS 1786 grade Fe 415/ Fe500 of TATA / Vizag / Sail / Zindal, Anchor the steel rebar in sound concrete body up to desired depth by structural GRADE adhesive anchor fasteners Fixing of rebar's is to be welded or Banded by binding wires to existing steel at regular grid as in</p>	Metric Tonne	0.15		

	compatibility to original design. Any additional space bars are welded to keep main reinforcement in perfect vertical position to keep the bar equidistant from center of gravity, minimum diameter of stirrups should be 8mm for columns and 10mm for beams and maximum spacing should be 0.15m C/C as per direction of consulting engineering in-charge.				
9	<u>WATERPROOFING ON NEW TERRACE SLAB: -</u> Providing & laying brick bat coba waterproofing treatment on New terrace top with 65 mm average thickness with small brick finished with joint less waterproofing layer in CM 1:4 of average 25mm to 30 mm thick finished smooth with cement slurry & marking thin lines in to 300 x 300 mm false squares with minimum 6mm thick cotton line 150mm x 150mm Watta carried along with the wall with throating at the junction of the wall and Watta top curing, cleaning, as directed etc. complete. As per the Direction Of Consulting Engineer - In-Charge.	Square Metre	12.00		
10	<u>EXTERNAL SAND FACE PLASTER:-</u> Providing 25mm thick External Plastering in two coats, under layer 15mm thick with C.M. 1:4 finished with a top layer 10mm thick in C.M. 1:5 including admixture with approved Water proofing admixture @ 2% by weight of cement used or as per manufacturer's specifications, sieving of sand to required fineness, drip mould, patta, finishing, curing, etc. complete as per specifications, drawings and as per the direction of Consulting Engineer / in-charge.	Square Meter	36.00		
11	<u>INTERNAL PLASTER: -</u> Providing and applying 12 mm thick internal plaster in one coat in cement mortar 1:3 with white cementicious wall putty for finishing the surface (Birla or equivalent) at all heights and locations for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	51.00		
12	<u>MARBLE FLOORING/WALL/FRAMING:-</u> Providing and laying in position flooring, skirting, wall and door/window framing of telephone black / Amba White / Cat bray brown / Ruby red / Ocean Brown granite stone of approved shade and size 18 mm to 20 mm thick on bed 1:6 cement mortar including cement floats striking joints, pointing in C.M. 1:3 curing and cleaning etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	80.00		

13	<u>ANTI-SKID FLOORING TILES:-</u> Providing and laying Antiskid Ceramic tiles of approved quality of size 30 cm x 30 cm and confirming to IS 15622-2006 (Group-B IIA) for antiskid flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	16.00		
14	<u>NEW FRP DOORS: -</u> Providing and fixing fiber glass reinforced polyester door shutter 35 mm thick as per IS 14856 (2000) (Reaffirmed 2006) without ventilator including chromium plated fixtures and fastening with chromium plated handles on both sides, etc. complete.as per the Direction of Consulting Engineer / In-Charge.	Square Meter	2.10		
15	<u>LOUVERES WINDOW: -</u> Providing and fixing in position powder coated aluminium louvered windows / ventilator of various sizes with powder coating as per detailed drawing and specifications including aluminium frames 80 x 38 mm x 1.22 mm box type, 5 mm thick sheet glass louvers, of approved quality etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	0.80		
			TOTAL AMOUNT:		
TOTAL AMOUNT IN WORDS:					

VI. PAINTING WORKS:

1	<u>EXTERNAL TEXTURE PLASTER: -</u> Thoroughly cleaning all external wall surfaces, removing all fungus / plantation, Removing old flakes / paint from the plaster surface, making the surface clean and dry. Pre wetting of wall surfaces. Mixing the product with clean water thoroughly with an electrical mixer for 3-5 minutes until the desired homogeneous paste is achieved so as to ensure that the mixture is free from lumps before use. Applying average thickness of 1.5 to 2mm of the homogeneous paste thus prepared on the plastered surface with a steel trowel so as to have the desired texture finish. If necessary, a second layer may be applied. All this works to be carried out in accordance with the manufacturer's specs and as per the Direction Of Consulting Engineer / In-Charge.	Square Meter	665.00		
2	<u>EXTERIOR WEATHER SHIELD PAINT: -</u> Providing and applying one coat base coat then apply Primer and two coat of Elastomeric Paint of approved brand of Asian Paints, ICI Dulex, and Berger Paints Completes as per the direction of Consulting Engineer	Square Meter	14650.00		

Seal and Signature of the contractor

	/ in-charge. Note: - It should carry minimum 10 years warranty given by the manufactures on their letter head.				
3	<u>CEMENT PAINT IN LIFT SHAFT: -</u> Providing and applying three coats of water proof cement paint of approved manufacture and of approved colour to old plastered surfaces including scaffolding if necessary, cleaning and preparing the surface, watering for two days etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	700.00		
4	<u>INTERNAL PRIMER COAT: -</u> Providing and applying priming coat on concrete/ masonry/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	1075.00		
5	<u>INTERNAL PLASTIC PAINT: -</u> Providing and applying plastic emulsion paint of approved quality, colour and shade to old surface in three coats including scaffolding, preparing the surface. (Excluding primer coat) etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	1075.00		
6	<u>REMOVING OLD PAINT FROM STEEL: -</u> Removing old paint from steel and other metal surfaces and making the surfaces even with hand scrapping, scaffolding etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	1425.00		
7	<u>OIL PAINT ON OLD/NEW STEEL: -</u> Providing and applying two coats of flat oil paint of approved colour to the old structural steel work and iron work previously painted in building including scaffolding, if necessary, cleaning and preparing the surface (excluding primer coat) etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	1425.00		
			TOTAL AMOUNT:		
TOTAL AMOUNT IN WORDS:					

VII. INTERNAL WORK

1	<u>ERECTION & REMOVAL OF BAMBOO SCAFFOLDING:-</u> Supplying and erecting Single or double as required good quality bamboo scaffolding with verticals @ 1.2m to 1.8m c/c inner as well as outer faces or as required as per site conditions and horizontals and braces on the Building structure or any other places without any puncher to wall surface etc. including the removal of scaffolding after completion of the work etc. all complete as per the direction of Consulting Engineer / in-charge. Note: The painting and other work will be carry out on the same scaffolding, the charges will be paid only one time for entire work as mentioned in tender BOQ . This item shall be used only in headroom area. No separate payment will be paid for the scaffolding Rest internal area in the premises.	Square Meter	200.00		
2	<u>REMOVAL OF EXISTING CEMENT PLASTER:-</u> Breaking of old plaster of any thickness by breaker machine or manually at all levels, including cleaning of exposed surface etc. all complete as per the direction of Consulting Engineer / in- charge.	Square Meter	1125.00		
3	<u>BREAKING/CHIPPING LOOSE CONCRETE:-</u> Chipping of existing loose and damaged cover concrete, remove loose particles at specified locations up to the concrete core with chisel and hammer, cleaning the surface with wire brush and washing concrete surface with water etc. all complete as per the direction of Consulting Engineer / in- charge.	Square Meter	350.00		
4	<u>REMOVING BRICK BAT COBA:-</u> Removing existing water proofing treatment over terrace, Chajja etc. up to mother slab by mechanical as well as manual means upto slab level and cleaning the surface for providing new specialized water proofing treatment etc. complete as per the direction of Consulting Engineer / in-charge.	Cubic Meter	53.00		
5	<u>REMOVAL OF THE DEBRIS:-</u> Removing all debris, spalls, etc. outside the building compound upto the municipal dump with all lead and lift complete as per the direction of Consulting Engineer / in-charge. (Minimum 08 Cu.Mt debris material considered in one nos. of truck.)	One Trip	17.00		

6	<p><u>ANTI-CORROSIVE TREATMENT:-</u> Providing and applying Anticorrosive treatment to exposed reinforcement portion for Column/Beam/Slab with one coat of alkaline RUST CONVERTER feovert/Rusticide or equivalent on exposed reinforcement after cleaning the surface with wire brush, followed by two coats of anticorrosive epoxy phenolic IPNET RB (two component system to be mixed in 1:1 proportion) /POLYALK FLXOPRIME two component inhabitant on concrete surface or equivalent rebar protection coating on exposed reinforcement after gap of 6 hrs. and concrete penetrating corrosion inhibitor EPCO KP-100/POLYALK CP 113 or equivalent over adjoining concrete surfaced etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Square Meter	350.00		
7	<p><u>BOND COAT:-</u> Providing and applying of bond coat approved epoxy resin EPI Bond of Krishna Conchem or equivalent before polymer plaster/concrete to have the perfect bond between old concrete and new concrete/polymer plaster surface within half an hour of after application of bond coat confirming to ASTM-C-882-87 using nylon brushes scaffolding labour etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Square Meter	350.00		
8	<p><u>POLYMER MORTAR (15MM):-</u> Providing and applying upto 15 mm thick polymer mortar to load carrying R.C.C member in two layers in proportion of 1:5:15 by weight Polymer of approved quality and make, cement and quartz sand with required W.C. ratio for desired consistency and applying and finishing by floating, curing after initial setting time etc. as per manufactures specification etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Square Meter	210.00		
9	<p><u>POLYMER MORTAR (30MM):-</u> Providing and applying up to 30 mm thick polymer mortar to load carrying R.C.C member in two layers in proportion of 1:5:15 by weight Polymer of approved quality and make, cement and quartz sand with required water cement ratio for desired consistency and applying and finishing by floating, curing after initial setting time etc. as per manufactures specification etc. complete as per the direction of Consulting Engineer / in-charge.</p>	Square Meter	140.00		

10	<u>INTERNAL PLASTER:-</u> Providing and applying 12 mm thick internal plaster in one coat in cement mortar 1:3 with white cementitious wall putty for finishing the surface (Birla or equivalent) at all heights and locations for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	1125.00		
11	<u>REMOVAL OF EXISTING WC/BATH WATERPROOFING:-</u> Removing existing water proofing treatment over WC/Bath up to mother slab by mechanical as well as manual means upto slab level and cleaning the surface for providing new specialized water proofing treatment etc. complete as per the direction of Consulting Engineer / in-charge.	Cubic Meter	53.00		
12	<u>REMOVAL OF EXISTING FLOORING/TILES:-</u> Removing cement tiles, or marble or polished shahabad floor or dado without bed concrete including stacking the materials as directed with all leads, lifts etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	150.00		
13	<u>REMOVAL OF EXISTING WASH BASIN/URINAL PAN/WC PAN/DOORS/WINDOWS:-</u> Removing W.C. pans/ Wash Basin/Urinal Pans/Doors/Windows including disconnecting the sanitary and water supply connections, removing and breaking flooring and bed concrete around pan removing the same carefully and stacking the serviceable materials as and where directed including throwing the unserviceable materials outside etc. carefully and throwing out the refusal outside etc. complete as per the direction of Consulting Engineer / in-charge.	Numbers	78.00		
14	<u>WC/BATH WATERPROOFING:-</u> Providing waterproof bedding for flooring of Bath and WC 25mm thick in C.M.1:3 including using approved waterproofing compound in specified proportion as per manufacturers specifications for per bag of cement including leveling, curing and covering 10years guarantee on court fee stamp paper of Rs.500/- including ponding test etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	150.00		

15	<u>WATERPROOF PLASTER:-</u> Providing waterproof plaster in W.C. and bath 20mm thick for dado in cement mortar 1:3 with neat finishing, floating using waterproofing compound at the rate of 1Kilogram per bag of cement of approved make and manufacturer and curing(and filling joints of Nahani trap and any outlet by properly) etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	830.00		
16	<u>ANTI-SKID FLOORING TILES:-</u> Providing and laying Anti-skid Ceramic tiles of approved quality of size 30cmx30cm and confirming to IS15622-2006 (Group-BIIA) for anti-skid flooring in required position laid on a bed of 1:4 cement mortar including cement float, filling joint with cement slurry cleaning curing etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	150.00		
17	<u>WALL/DADO TILES:-</u> Providing and laying ceramic tiles of having size 30cm.x30cm and confirming to corresponding I.S. for dado and skirting in required position with ready-made adhesive mortar of approved quality on plaster of 1:2 cement mortar including joint filling with white/ colour cement slurry cleaning curing etc. complete as per the direction of Consulting Engineer / in-charge.	Square Meter	830.00		
18	<u>20mm DIA CPVC PIPE:-</u> Providing and fixing on walls/ceiling/floor 20 mm dia. CPVC pipe with necessary fittings, remaking good the demolished portion etc. complete. Including removing existing pipe line if necessary and conveying and stacking or as directed etc. Complete as directed by Engineer in charge.	Running Meter	210.00		
19	<u>INDIAN TYPE WC PAN:-</u> Providing and fixing 1st class white glazed earthenware Orissa Type W.C. Pan 580mm dia including P or S trap cast iron soil and vent pipe upto the outside face of the wall (1:5:10)cement concrete bedding 15mmthick, 10 liter P.V.C. flushing cistern with all necessary pipe connection etc. complete as directed by Engineer in charge.	Numbers	21.00		
20	<u>EUROPEAN TYPE WC PAN:-</u> Providing and fixing European type wall-hung white water closet of approved make with push valve concealed type with cover plate 32mm size of approved make including soil pipe, vent pipe upto outside face of wall, 100mm dia. G.I. plug bend inlet pipe all fittings, cutting and making good walls, floors etc. Complete as directed by Engineer in charge.	Numbers	19.00		

21	<u>BIB COCK:-</u> Providing and fixing C.P. BIB cock with wall flange of approved make including necessary sockets/unionnut etc. complete as directed by Engineer in charge.	Numbers	84.00		
22	<u>STOP COCK:-</u> Providing and fixing Auto closing pillar cock of pressmatic tap of approved make or equivalent including all fixtures, fittings etc. complete as per the direction of Consulting Engineer / in-charge.	Numbers	42.00		
23	<u>PILLAR COCK:-</u> Providing and fixing C.P. pillar cock long neck with aerator of approved make including necessary sockets/union nut etc. complete as directed by Engineer in charge.	Numbers	37.00		
24	<u>NHANI TRAP:-</u> Providing and fixing 10cm C.I. Nahani Trap including C.I. grating bend and piece of C.I. pipe upto the outside face of the wall complete as directed by Engineer in charge.	Numbers	63.00		
25	<u>JET SPRAY:-</u> Providing & fixing in position 'Jacquar Continental' make CP Jet Spray with flexible CP supply pipe, and all other accessories, complete as directed by Engineer in charge.	Numbers	19.00		
26	<u>BATHROOM MIXER:-</u> Providing and fixing heavy ISI marked single lever concealed diverter for bath & shower system Rain shower & its accessories. (Mixer Cat.No. CON- 421 Jaquar make OR consider equivalent make) as directed by Engineer in charge.	Numbers	42.00		
27	<u>SOAP DISH:-</u> Supplying and providing C.P.soap dish (polyurethane) jaquar make continental (Cat. No. AQN 7733) as directed by Engineer in charge.	Numbers	42.00		
28	<u>TOILET RACK:-</u> Providing and fixing C.P.Toilet rack 24"with lower hanger jaquar make continental (Cat. No. ACN 1181N) as directed by Engineer in charge.	Numbers	42.00		
29	<u>TOILET PAPER HOLDER:-</u> Providing and fixing C.P.Toilet paper holder jaquar make continental (Cat. No. AQ 7751) as directed by Engineer in charge.	Numbers	19.00		

30	<u>INTERNAL PRIMER COAT:-</u> Providing and applying priming coat on concrete/ masonry/ Asbestos Cement plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required etc. complete as per the direction of Consulting Engineer / in-charge	Square Meter	23600.00		
31	<u>INTERNAL LUSTER PAINT (WALLS & STAIRCASE):-</u> Providing and applying pearl/ luster finish paint of approved colour and shade to the existing plaster surface including scaffolding, preparing the surface, applying the acrylic wall putti etc. complete as per the direction of Consulting Engineer / in-charge	Square Meter	11350.00		
32	<u>INTERNAL PLASTIC PAINT:-</u> Providing and applying plastic emulsion paint of approved quality, colour and shade to old surface in three coats including scaffolding, preparing the surface. (excluding primer coat) etc. complete as per the direction of Consulting Engineer / in-charge	Square Meter	12250.00		
33	<u>REMOVING OLD PAINT FROM STEEL:-</u> Removing old paint from steel and other metal surfaces and making the surfaces even with hand scrapping, scaffolding etc. complete as per the direction of Consulting Engineer / in-charge	Square Meter	2110.00		
34	<u>OIL PAINT ON OLD/NEW STEEL:-</u> Thoroughly scraping and cleaning the surface applying one coat of prime, and two coats of oil paint to window etc. complete as per the direction of Consulting Engineer / in-charge	Square Meter	2110.00		
			TOTAL AMOUNT:		
TOTAL AMOUNT IN WORDS:					

SUMMARY		
I.	ENABLING SYSTEM:	
II.	STRUCTURAL & CIVIL REPAIRING WORKS	
III.	WATERPROOFING & GENERAL WORKS	
IV.	PLUMBING WORKS	
V.	CONSTRUCTION OF NEW PUMP ROOM	
VI.	PAINTING WORKS	
VII.	INTERNAL WORK	
TOTAL AMOUNT WITHOUT GST:		
TOTAL AMOUNT IN WORDS WITHOUT GST:		

Declaration

I/We have read and understood all instructions/conditions and I have taken into account the above instructions/conditions while quoting the rates.

Seal and Signature of the contractor :

Place:

Date: