



GENERAL ADMINISTRATION SECTION
CANARA BANK, 2ND FLOOR, B WING,
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Date: 06.03 .2024

CIVIL REPAIR AND RENOVATION WORKS OF CANARA BANK RESIDENTIAL QUARTERS AT SHER E PUNJAB PLOT NO 283, MAHAKALI CAVES ROAD, ANDHERI EAST MUMBAI

CORRIGENDUM TO TENDER DOCUMENT

The BOQ in the published tender documents having Ref no: 24/SHER E PUNJAB/CO/BKC/23-24 dated 10.02.2024 towards "CIVIL REPAIR AND RENOVATION WORKS OF CANARA BANK'S OWN RESIDENTIAL BUILDING AT SHER-E-PUNJAB PLOT NO. 283, MAHAKALI CAVESROAD, ANDHERI EAST, MUMBAI from page number 118-139 is replaced with the BOQ attached with the corrigendum. While submitting the tender bidders are requested to fill and submit the BOQ attached with **Corrigendum only**.

This Corrigendum shall form a part of and shall be read with tender/ contract documents and shall become part of the contract and shall be signed on every page and shall be enclosed with the bid.

In case of any discrepancy between this Corrigendum and other tender/ contract documents, the former shall prevail.

All the tender terms and conditions other than those modified in this Corrigendum remain unchanged.

Sd/-

ASSISTANT GENERAL MANAGER

CLARIFICATIONS FOR THE PRE BID QUERIES AND CORRIGENDUM TO TENDER DOCUMENT

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SL. No	DESCRIPTION OF ITEM	QTY	Unit	Rate	Amount
A	<u>SCHEDULE A: - CIVIL REPAIRS, RENOVATION & RESTORATION WORKS</u>				
	<u>GENERAL NOTES FOR ALL THE BILL OF QUANTITIES FOR VARIOUS WORKS ENNUMERATED IN THIS TENDER: -</u>				
a	<p><u>The quoted rates for all the items mentioned hereinunder the BOQ's for various works to be executed shall be inclusive of the Demolition / Dismantling / Shifting / Reshifting& Refixing of all the existing items of work including all the internal & exterior areas where the works are to be carried out including the toilets & toilet interiors with respect to any material required to be removed for proper working on site & compliance of all the activities on site including removal of debris from site on day to day basis to avoid inconvenience to the residents / office, stacking the same till the time of removal at the desired location including carting away of debris at the designated MCGM limits including shifting, relocating & refixing the dismantled items if in good condition & if instructed by the Consultants and Bank's Engineer in charge and making good the same if damaged during shifting etc complete as per the instructions and directions. The said item comprises of the following: -</u></p>				
	Flooring of all types, Tiles of any type, floor finishes, Wall dados, kerbs, Water-proofing, Brick bat coba				
	Walls, Brick works, Platforms, Bunds, Stone work, Counters, tree guards, treads, risers etc				
	Concrete dismantling, mortar, RCC elements, Steel, structural steel etc				
	Partitions of all types, Paneling of all types				
	Doors, Windows of all types, Steel work, Frames, Grills etc				
	False Ceilings				
	Wiring, Cables, Electrical fittings, fixtures, accessories, Cables, Wires, Cable Trays, Lighting fittings & fixtures,				

	Shifting of tables, chairs, furniture items of all types such as Beds, Wardrobes, tables, counters, credenzas, TV units, loose furniture such as sofas, chairs, decorative items etc complete.				
	Air Conditioning units of all types				
	Miscellaneous items such as Manure, Plants etc.				
	The above dismantling works are to be carried out upto the Terrace Floor level. The debris is to be carted outside the premises and disposed off at the MCGM designated place upto any lead. The serviceable and unserviceable materials excluding debris shall be stacked properly in the designated place and to be secured in safe custody till the disposal of the same. Sufficient manpower shall be provided for movement of furniture from one floor to other during execution.				
b	The rates quoted shall be inclusive of Providing temporary plywood, 6mm thk covering to the existing openings / doors / windows with temporary plywood before starting of the repair works including the removal of the same after completion of the works. The rate shall be also inclusive of temporary wooden partitions, 6mm thk plywood with door shutters at the desired locations, sealing joints with POP / masking tapes.				
c	The quoted rates shall also include the provision of Props & other necessary temporary supporting arrangements such as bracings, steel angles, plates etc, which shall be provided for the areas in the vicinity in adequate numbers as directed by the Consultants including the safety netting required for the work all around the buildings & structures and removal of the same after completion of the works including all the safety gadgets for the work-force such as Goggles, Hand-gloves, Helmets, Suspending belts & hooks, aprons, shoes & boots etc complete.				
I	<u>PRELIMINARY PREPARATION WORKS:</u>				
	-				
1	Scaffolding:-				
	Providing, erecting double bamboo scaffolding to reach any place of work on external façade of building including approaches, extensions, anchorages etc. complete for safe working & dismantling the same & taking away all materials after completion of work. Scaffold is not to be supported to plumbing lines and should not rest on parapet wall/external walls by making holes to them. (Only elevation area of building will be measured).	1286	Sq. Met.		

2	Safety Nets:- Providing and laying Nylon heavy duty net of 8mm thick will be provided for all areas with 12mm rope of 4" x 4" sq. The rope border with additional thim nylon net where the work is in progress and car parking and other passage areas will be protected.	L.S.	L.S.		
3	Hasein Cloth:- Providing, erecting, maintaining and removing temporary protective screens of Jute cloth with all necessary fixing arrangement to ensure that it remains in position for the entire work duration as required by the Consultants.	L.S.	L.S.		
4	Steel M.S. Props:- Providing labour and materials for temporary adjustable steel tubular props to relieve load on the member and removing the same including packing, wedging at top & bottom, providing wooden battens at top and bottom for uniform distribution of load etc. complete as directed by the consultant (up to 15 feet height).	100	Nos.		
5	Removal of Vegetation:- Removing all the vegetation from the external faces of the building. All such vegetation growths must be first destroyed with the use of weed killing chemicals and then properly grouted after removing all the roots embedded deep in to the structure etc. complete as directed by the consultant.	L.S.	L.S.		
6	Breaking of External Plaster:- Removing cement plaster of any finish from the wall, complete with racking out the joints to a depth of 20 mm.	643	Sq. Met.		

7	Breaking of Internal Plaster:- Removing cement plaster of any finish from the wall, complete with racking out the joints to a depth of 20 mm.	115	Sq. Met.		
8	Breaking of existing Waterproofing:- Removing any existing water proofing layers of I. P. S. with bituminous joints and brick bat concrete over the existing terrace floor, chajja, top of headroom slab and canopy including cement vata and exposing R.C.C. slab top complete.	205	Sq. Met.		
9	Breaking of existing Waterproofing inside OH Watertank:- Removing any existing water proofing layers of any thickness inside the OH Watertank, roughnening and celaning the exposed concrete slab and side walls etc. complete.	30	Sq. Met.		
II	<u>STRUCTURAL REPAIR WORKS:</u>				
1	Readymix Polymer Modified Mortar (PMM):-				
a)	Chipping of RCC:- Chipping of existing loose and damaged cover concrete at specified locations (including non load bearing members) up to the concrete core with chisel & hammer, cleaning the surface with wire brush and washing concrete surface with water etc. complete as directed by the consultant.	322	Sq. Met.		
b)	Removal of corrosion from steel reinforcement:- Application of rust converting alkaline primer: Thoroughly clean the corroded reinforcement/steel rebar by wire brush or rotary grinder. Remove all the corrosion scales present on the bare and reach up to sound steel. Apply of rust converting				

	alkaline primer on corrosion affected steel bars after removing all the scales. It is alkaline in nature and convert both hematite & magnetite compounds in to stable compounds. The material shall pass minimum 400 alternate immersion cycles of 2 minutes in 3.5% NaCl solution at room temperature.				
c)	Application of two coats of IPNet- RB on steel reinforcement:-				
	Application of primer shall be followed with application of two coats of IPNet- RB (confirming to CBRI requirement) anticorrosive epoxy coating for bar protection against future corrosion. Coating is for old as well as newly provided steel. This system (Interpenetrating polymer network system for rebars: IPNet- RB) once applied on steel shall provide extended protection against future carbonation and chloride attack. The material shall pass minimum 720 hours as per ASTM - B-117 and shall confirm to IS 2770 PART I and ASTM 3963-86.				
d)	Bond Coat:-				
	Providing and applying raw polymer Bond Coat to all exposed concrete surface and rebars prior to polymer treatment complete or as directed by the consultant.				
e)	Readymix Polymer Modified Mortar (PMM):-				
	Providing and applying ready mix polymer modified repair mortars of approved make to RCC surface duly treated as above with appropriate thickness. (Rate includes application of Item no. 1a), 1b), 1c), 1d), 1e)				
2	Drilling Holes for Grouting:				
	Drilling straight/inclined holes up to 100 mm depth and up to 20 mm diameter in concrete/masonry using electrically operated drilling machine, etc. complete	50	Nos.		

3	Grouting:-				
	Injection Grouting High Performance Polymer Cement Grout: Providing & injecting high performance non shrink, Antiwashout Polymer Cement Grout per pack of 225gm for 50kg bag of cement as per manufacturer's specifications into honeycombing area / porous concrete with suitable pump at pressure of 2.0 Kg/Cm2 and subsequently cutting /removal of nozzles and sealing of holes with grout etc., complete. This does not include the rate of cement bag.	10	Per 50 kg Bag of Cement		
	Cement Bag	10	Bags		
4	Micro Concrete:-				
	Repairing to the existing RCC structural members (vertical or horizontal) using ready mix Micro Concrete of approved brand where the thickness of repair is more than 30 mm and upto 115 mm. It can be used for carrying out extensive repairs to beams, columns and other structural elements, repairing of structural members subjected to repetitive loading & for Jacketing of beams, columns and other structural elements for strengthening. Procedure for carrying out repairing/jacketing using ready mix micro concrete-	2500	kg		
	Surface preparation- (separate payment shall be made) All loose traces of concrete or mortar, dust, grease oil, etc. must be removed. Damaged or contaminated concrete shall be removed to obtain a keyed aggregate exposed surface. Non-impact/ vibrating cleaning methods, e.g. grit or high pressure water blasting are recommended. Cut the edges of the repair vertically to a minimum depth of 20 mm. Clean all exposed reinforcement to a minimum grade of Sa 2				

	<p>according to ISO 8501-1 / ISO 2944-4. Ensure back of reinforcing bar is also clean. Where reinforcing bars are corroded, cut back the concrete to at least 20mm behind the reinforcing bars and coat old and new with approved epoxy coating for corrosion protection Water Powder ration Grit blast around the reinforcing bars to remove corrosion products or any other method recommended by Engineer In charge or Structural Consultant. Replace the affected part of reinforcing bar if the diameter after grit blasting is found reduced by more than 20% of the original diameter on the advice of the structural engineer responsible for the works. Bond Coat- (separate payment shall be made)</p>				
	<p>Providing & applying One coat of structural grade epoxy bond coat by brush conforming to ASTM-C-882-87 to the prepared concrete surface to be repaired / strengthened and micro concreting pouring shall be done when the surface is tacky.</p>				
	<p>Formwork – (No separate payment shall be made) The forms must be of good quality, treated with a chemical release agent for smooth release, provided with water drain holes, strong and well braced to withstand the fluid pressure of the mortar until it hardens. Mixing - Only full bags are mixed. Damaged or opened bags should not be used. Mix the ready mix Micro Concrete in a forced action pan mixer, or with a helical paddle attached to a low speed (300-600rpm) mixer for 3 minutes until a lump free, flowable consistency is achieved. Only use clean water. Mixing water</p>				

	<p>needed: 3.25 to 3.75 litres per 25kg bag or as recommended by the Manufacturer of Micro Concrete. Allow the mortar to rest for 2 - 3 minutes and then remix briefly before pouring into formwork. If temperature more than 40°C then use chilled water for mixing.</p>				
	<p>Mortar application- The minimum temperatures must be maintained during application and for at least 24 hours thereafter for optimum curing of the product. The prepared substrate should be presoaked, preferably for 24 hours, but at least 2 hours before applying Ready Mix Micro Concrete ensure all water is removed from formwork prior to installation and formwork is resealed. Ready Mix Micro Concrete should be pumped or poured into the prepared formwork until the void is filled. Pumping is recommended for larger pours. Do not vibrate Ready Mix Micro Concrete as it could lead to segregation. The formwork should be removed after 1-3 days and a curing compound applied. If subsequent coats are to be applied the use of clear polythene is recommended for the first three days after removal of formwork.</p>				
	<p>For repairs beyond 80mm to 100mm in thickness, extend Ready Mix Micro Concrete with up to 25kg of 5-12mm sized washed, saturated surface-dry (SSD), graded low absorption, high density aggregates. Protective coatings- (separate payment shall be made) Subsequent coatings of any anticarbonation barriers or silane impregnations should be applied if recommend by the Structural Engineer.</p>				
	<p>Curing - Minimum 7 days curing shall be done to the newly repaired/jacketed area using any suitable method. Required Compressive strength (ASTM C109 7cm</p>				

	cube) Ready Mix Micro Concrete used on site shall be sent for testing of compressive strength and minimum strength required to be achieved is as follows – 1 Day-15 MPa, 3 Day-25 MPa, 7 Day-35 MPa, 28 Day-40 MPa. Note- Payment is to be made by weight premixed of micro concrete product consumed as per site register records.				
5	Micro Concrete without shuttering:- Providing and laying superfluid micro-concrete of approved brand including machine mixing, etc. complete or as directed by the consultant.	3500	kg		
6	Steel Reinforcement:- Providing and fixing in position steel bars reinforcement of various diameters for R.C.C. pile, pile caps, footings,raft,retainingwall,shear wall, lift wall, foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, coping, fins, arches, etc. as per detailed designs, drawings and bar bending schedules,including straightening, cutting, bending, hooking the bars, binding with wires or tack welding, supporting as required etc. all complete at all levels.				
	Thermo-Mechanically Treated steel bars. (Fe 500 D)	1	MT		
7	Jacketing of Column:- Jacketing the existing column by removing the concrete cover to reinforcement, by chipping or other suitable means to expose the reinforcement of existing column in order to make available the same for binding the extra reinforcement and also removal of rust, scales of the reinforcement in order to provide and apply approved make of	1	CUM		

	epoxy resin to get proper bond with newly laid M25 grade concrete. The aforesaid concrete shall be laid by the sides of the existing column with uniform thickness of 115 mm or as specified, for jacketing purposes thereby increasing the sectional dimensions by 150 mm or as specified (excluding finishing) at any height with requisite shuttering, centring, scaffolding, propping, repairing the existing surface as specified and also removal of debris, curing etc. complete or as directed. (NOTE :- Reinforcement will be paid separately under respective item of schedule).				
III	<u>CIVIL WORKS:</u>				
1	Sealing Separation Gaps:-				
	Providing & Fixing bird wired mesh/wired fabric (12.5mm x 24 SWG) in strips of 200 mm width or as required over junctions of concrete & brick / block masonry or any other specified location at all heights including minimum 200mm overlap at all joints / junction prior to plastering, drilling, nailing etc. complete as directed By Engineer In Charge.	50	Sq. Met.		
2	Readymix Sand Faced Plaster:-				
	Providing and applying 25 mm thick external sand faced cement plaster with neat cement rendering upto 10m from ground level and at all locations in cement mortar proportion specified below in two coats for masonry (except stone masonry) and concrete surfaces including providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By				

	Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.)				
	In Cement mortar 1:3	950	Sq. Met.		
3	Readymix Internal Plaster:- Providing and applying 12 mm thick internal plaster with neeru finish by using ready-mix mortar as per manufacturers recommendations at all heights and locations for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc. complete.	250	Sq. Met.		
4	Hacked Plast:- Providing and applying MCON Ultra Plaster Bond as per specification or as directed by the consultant.	760	Sq. Met.		
IV	<u>WATERPROOFING WORKS:</u>				
1	RCC Coping:- Providing and laying new RCC coping 1'0" wide 4" thick (mix 1:1.5:3)including providing necessary shuttering but including steel reinforcement, removing old coping etc. complete or as directed by the consultant. Provide 2-T10 at bottom and 2-T8 at top and links of T8 at 8" c/c.	55	RMT		
2	Waterproofing Coating:- Providing and applying one coat of Primer and two coats of PU Coating (PU270-I of Dr. Fixit or equivalent) on top of terrace slab, chajjas, OHW tank top, canopy top, staircase room top, etc. complete or as directed by the consultant.	185	Sq. Met.		

3	Terrace Water Proofing:-				
a)	Waterproofing the terrace slabs with average 100 mm thick, brick bats laid in cement mortar bed 1:4 filled with mortar 1:4 of total thickness 100 mm, laid to slope (1:100) with vata 15 cm, at the junction of walls and IPS flooring (1:2:3) 40 mm thick with admixture, of approved water proofing compound, as per manufacturers specification laid after grouting the slab, finishing curing etc. complete as directed and specified. (Horizontal measurement clear between walls will be paid for).	155	Sq Met.		
b)	Do with broken China mosaic flooring instead of IPS set in cement mortar (1:4) 40 mm thick	155	Sq. Met.		
4	Over Chajja/Balcony/Canopy Top W. P.				
	Providing & Making Waterproofing Treatment to the Chajja by finishing top surface with 20 mm thick 12 C.M. plaster with addition of approved water proofing compound as per manufacturers specifications and neat cement finish,including drip moulding at edge ,at bottom of chajja & cement vatta above chajja along the junction with wall etc complete. as per FMB item No. 5.22 but for new surfaces & as directed by the Engineer-In-Charge.	40	Sq. Met.		
5	Overhead Tank/Staircase Top W.P.:-				
	Providing & Making Waterproofing Treatment to the Overhead Tank/Staircase Top by finishing top surface with 20 mm thick 12 C.M. plaster with addition of approved water proofing compound as per manufacturers specifications and neat cement finish,including drip moulding at edge ,at bottom of chajja & cement vatta above chajja along the junction with wall etc complete. as per FMB item No. 5.22 but for new surfaces & as directed by the Engineer-In-Charge.	10	Sq. Met.		

6	Overhead Tank W.P. – Base and Side:- Providing water proofing treatment to existing RCC overhead tank, basements, lift-pits and other underground structures. The treatment shall be done by giving INJECTIONS wherever necessary with waterproofing compound and cement solution as per tenderer’s specifications into the floor & walls upto the full height of structures. All inherent holes, cavities, voids & honeycomb shall be filled up to make the structure consistent, homogenous resistant to water breakages, seepage, dampness and moisture etc. The floor shall then be treated with waterproofing metal coba of 30 mm to 35 mm thick in 1:4 C.S. mortar and walls with first coat of waterproofing plaster as per tenderer’s specifications. Finally both floor and walls shall be finished smooth with jointless waterproofing plaster 1:3 C.S. 12 mm to 15 mm thick with water proofing materials as per tenderer’s specifications in cement or finished rough to receive tile pavement or dado. The thickness of the treatment shall not be less than 50 mm to 60 mm for floors and 25 mm for walls. (The actual area of the treatment will be paid)	26	Sq. Met.		
7	Crack Filing:- Identifying cracks and making of “V” groove along with the existing cracks on the exterior walls surface by using electric cutter machine, cleaning the groove with water jet and filling the same with approved polymer base ready mix crack sealing compound complete as per the technical specification or as directed by the consultant.	1550	Sq. Met.		

V	PLUMBING DRAINAGE WORKS: (All fittings / pipes to have ISI mark)				
1	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge : 15 mm to 40 mm nominal bore	220	RMT		
2	Providing & Fixing CPVC Pipes:- Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, 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 complete as per direction of Engineer in Charge.				
a)	15 mm nominal outer dia Pipes	75	RMT		
b)	20 mm nominal outer dia Pipes	50	RMT		
c)	25 mm nominal outer dia Pipes	95	RMT		
d)	32 mm nominal outer dia Pipes	90	RMT		
3	Providing & Fixing C.I. Pipes:-				
a)	Providing and fixing in position uPVC/SWR (Soil/Waste/Rain) pipe of type-B 110 mm dia. in any position including all fittings and accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories like clamps,etc. should be of same brand. No separate payment shall be made for fittings and accessories).	130	RMT		
a)	Providing and fixing in position uPVC/SWR (Soil/Waste/Rain) pipe of type-B 75 mm dia. in any position including all fittings and	105	RMT		

	accessories, making joints / connections water tight with solvent cement, scaffolding if necessary and making good the damages if any (excluding excavation and refilling the trenches) etc. complete as specified and directed.(All fittings and accessories like clamps,etc. should be of same brand. No separate payment shall be made for fittings and accessories).				
4	G.I. Wall Piece of Overhead Tank:- Replacement of wall pieces of overhead water tank with new G.I. wall piece completely threaded including making and filling holes with micro concrete, application of epoxy on pipes etc. all complete.	3	Nos.		
5	Stop Cock Valves:- Providing and fixing stop cock valve (brass) of approved quality :				
a)	15 mm nominal bore	36	Nos.		
b)	20 mm nominal bore	10	Nos.		
6	Temporary PVC Water Tank:- Providing and placing in position temporary PVC water tank & providing temporary connection to existing water supply arrangement and resuming the existing connections after the completion of repairs of overhead water tank.	L.S.	L.S.		
VI	<u>PAINTING WORKS:</u> <u>(Note: Rates for all items to include scaffolding where necessary.)</u>				
1	M.S. Grill Oil Paint:-				

	Providing and applying first single coat of approved primer and two coats of synthetic enamel paint/flat oil paint of an approved make and colour as per manufacturers specifications to surfaces specified below, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge.				
	For steelwork	170	Sq. Met.		
2	Semi Plastic Paint				
	Providing and applying first single coat of approved primer and two coats of acrylic plastic emulsion paint of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineerin- charge.	240	Sq. Met.		
3	Acrylic Paint:-				
	Providing and applying first single coat of approved primer and two coats of anti-algal, anti-fungal, exterior paint as specified below of an approved make and colour as per manufacturers specifications to any surface, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge.				
	By using acrylic based exterior paint with silicone additives	1106	Sq. Met.		
4	Semi Acrylic Paint on Compound Wall				
	Thoroughly scraping, cleaning and	175	Sq. Met.		

	removing old loose flakes if any from the external compound wall and apply over the same one coat of primer as base coat and two coats of Acrylic Paint of approved brand as directed by the consultant.				
VII	<u>MISCELLANEOUS WORKS:</u>				
1	Dismantling doors, windows, fanlight and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
	Of area 3 sq. metres and below	161	SQ MET.		
2	Removing old doors and Providing and Fixing new backlite heavy duty doors with aluminum frame for Balcony, toilet, bathroom and terrace including all fittings fixtures and hinges etc. as directed by the consultant	60	Sq. Met.		
3	Providing & fixing 1 mm thick laminate to flush doors instead of synthetic enamel painting including all material and labour.	28	Sq. Met.		
4	Providing and fixing all sides polished natural stone as specified below of approved quality, pattern, colour and thickness for door and window frames / architraves including preparing the surface and levelling in the desired line, machine cutting, jointing in approved adhesives, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with pigment mixed with cement, cleaning, finishing, curing etc complete as directed by Engineer In Charge.				
	With Steel gray Granite	656	RMT		
5	RCC Jallies/Grills:-				
a)	Removing existing R.C.C. jallies of any design & deposit to ward store complete.	20	SQ MET		
b)	Providing and Fixing new RCC grills in staircase area	20	SQ MET		

6	Staircase wooden patti Polishing:-				
	French spirit polishing :One or more coats on old work.	5	Sq. Met.		
7	Staircase Landing :-				
a)	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	For thickness of tiles 10 mm to 25 mm	30	Sq. Met.		
b)	Providing and laying 8mm thk. ceramic tiles as specified below conforming to I.S.15622-2006 for flooring of an approved, quality, make, size and pattern /design, for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, neat cement float, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.				
	Light coloured antiskid / matt ceramic tiles	30	Sq. Met.		
8					
	Kitchen Repair Works				
a)	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	For thickness of tiles 10 mm to 25 mm	70	Sq. Met.		
b)	Providing and fixing 8mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.				
	Light coloured glazed ceramic tiles	70	Sq Met.		
c)	Removing existing kitchen cabinet door, Providng and Fixing new cabinet door in marine ply 15mm thick with T. W. patti all around the door with hinges, handles with one side sunmica 1mm thick and other side enamel paint (One coat of primer and two coats of enamel paint) etc. complete or as directed by the consultant	20	Sq. Met.		

d)	Providing and constructing raised platform of 750mm wide and 600 to 750mm high using minimum 40mm thick polished kadappa stone slab base with minimum 15mm thk. polished stone top as specified below of approved quality, colour and texture, supported by both side polished, 40mm thk. and minimum 700mm wide kadappa spaced at not more than 1200mm clear, including polished facia of min. 100mm height as specified below with chamfered/rounded at the top edges, jointing in approved adhesives, machine cutting, making opening for sink and fixing the same in position, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with pigment mixed with cement, cleaning, finishing, curing etc complete as directed by Engineer In Charge. (The cost of providing the sink shall be paid extra as per plumbing items)				
	Steel gray Granite granite slab at top and facia	23	Sq Met		
e)	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
	Kitchen sink without drain board				
	610x460 mm bowl depth 200 mm	12	No.		
9)	Removing existing mosaic tiles from balcony, providing one coat of Magic coat primer and two coats of Magic coat flexi on flooring including 1'0" above the balcony walls and pardi, Providing and applying one coat of waterproof single coat plaster on slab and 1'0" on walls and pardi of balcony with providing and fixing anti skit tiles on waterproof plaster with bedding materials including 4" skirting etc. complete or as directed by consultant. (Basic rate of tiles is Rs. 60/-per Sqft) The rate should include 2" dia PVC pipe with finishing on both sides. (The rate should include ponding test and only tile area will be measured).				
		30	Sq met		
10.	Ferrocement Weathershed:-				
	Providing & fixing factory made Fibreglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick	12	Sq. Met.		

	M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP chajja should be manufactured using unsaturated Polyester resin as per IS:6746, duly reinforced with fibre glass chopped stand mat (CSM) as per IS:11551 complete with protective gel coat U/V coating on top for complete resistance from the extreme of temperature, weather and sunlight.				
11.	Bath and Toilet Works:-				
a)	Removing G.I. pipes internal concealed of any size including fittings etc complete.	192	RMT		
b)	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
	20 mm nominal outer dia Pipes	192	RMT		
c)	Removing any existing water proofing layers of I. P. S. with bituminous joints and brick bat concrete over the existing terrace floor, chajja, top of headroom slab and canopy including cement vata and exposing R.C.C. slab top complete.	55	Sq Met.		
d)	Providing and fixing 8mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in proportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.				
	Light coloured glazed ceramic tiles	200	Sq Met		
e)	Carefully removing existing WC in toilet with fitting etc. complete or as directed by the consultant. The cost should include removal of flush tank.	12	each		

f)	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
	W.C. pan with ISI marked white solid plastic seat and lid	12	each		
12	Nahani Trap		Nos.		
a)	Removing existing Nahani Trap in bathroom and Kitchen	24	Nos		
b)	Providing and Fixing New 75 mm C.I nahani trap with grating with 75 mm C.I. bend with cleaning caps fixed complete. (for Kitchen)	12	Nos		
c)	Providing and Fixing New 75 mm C.I nahani trap with grating with 75 mm C.I. bend with cleaning caps fixed complete. (for bathroom)	12	Nos		
13	Providing and fixing brass bib cock of approved quality :				
	15 mm nominal bore	60	each		
14	Providing and Fixing Anodized aluminium louvers window with 4 mm thick glass etc. complete or as directed by the consttant.	15	Sq Met		
15	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet				
	100 mm diameter	12	NOS		
16	Collapsible gate:-				
	Providing and fixing in position collapsible steel gates with vertical channels 20 x 10 x 2 mm & braced with flat iron diagonals 20 x 5 mm size, top & bottom T section 40 x 40 x 6 mm size, 30 mm steel pulleys complete with bolts-nuts, locking arrangements, stoppers, handles and painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint including all labour, materials, tools and equipments, etc complete as directed by Engineer Incharge.	6	SQ MET		
17	Tiling inside Flat:-		.		
a)	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	For thickness of tiles above 10 mm and up to 25 mm	480	SQ MET		
b)	Providing and laying 600 x 600 x 8 mm thk. vitrified tiles as specified below conforming to I.S.15622-2006 with water				

	absorbtion less than 0.08% for flooring of an approved, quality, make and pattern/design for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge.				
	Light coloured glazed vitrified tiles	480	SQ MET		
c)	Providing and fixing 8mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for flush/projected skirting / riser including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or pigments mixed with cement, finishing, curing etc complete as directed by Engineer In Charge.				
	Light coloured glazed vitrified tiles for height upto 150mm	540	RMT		
d)	Preparing and finishing plastered wall surfaces / concrete surfaces, steel or wood surfaces in line and level for acrylic (oil bound) distemper/ synthetic enamel paint or plastic emulsion paint by scrapping/removing the old paint if any with wire brush or blades and rubbing, with sand papers as required, filling in cracks in cement mortar 1:3, applying the whole surface with mixture of whiting powder or plaster of paris and double boiled inseed oil of premium quality or second quality synthetic enamel paint, filling the cracks with premium quality putty or hard glue in case of woodwork, rubbing down and even up the surface by any approved means etc. complete as directed by Engineer-in-charge.	1900	Sq. Met.		
	Providing and applying first single coat of approved primer and two coats of luster paint of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in-charge				
18	Removing existing slab of pump room and securtiy cabin, providing and fixing M.S. tee section with fixing shahbad ladi between two tee section, providing 4 inch thick RCC slab with 8 mm dia. Torsteel at 6 inches c/c both side with brick bats waterproofing on top finished with IPS with false marking etc. completer or as directed by consultant.	8	SQ MET		

19	Compound Wall Repair work:-				
a)	Providing & laying quality brick partition work on Compound wall 230 mm thick in C:M 1:5 with racking of joints curing complete.	35	SQ MET		
b)	Providing, fabricating and fixing M.S. grill work as per approved design and as per weight specified below to fencing / compound made out of square / round bars, M.S. flats, angles, with necessary holdfast including painting with one coat of red oxide zinc chromate primer and two coats of approved synthetic enamel paint etc. complete as directed by Engineer In Charge.				
	Mild steel grill of weight 10 to 15 Kg/sq. m.	8	SQ MET		
20	Common Toilet:-				
a)	Providing and laying new waterproofing treatment for Common toilet with brick bat coba in Cement Mortar 1:5 on concrete floor and IPS in Cement Mortar 1:3 with rough finish, including breaking old W.P. upto slab etc. complete including ponding test for 7 days as directed by the Consultant. The rate is inclusive to waterproofing coating. (Sunken portion will not be paid extra. Contractor to submit Guarantee for 10 years for the same)	3	SQ MET		
b)	Removing existing tile in Common toilet	17	SQ MET		
c)	Providing and fixing 8mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in proportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge.				
	Light coloured glazed ceramic tiles	17	SQ MET		
d)	Carefully removing existing WC in Common toilet with fitting etc. complete or as directed by the consultant. The cost should include removal of flush tank.	1	NOS		
e)	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever)				

	conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required .:				
	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	1	NOS		
f)	Providing & Fixing backalite heavy duty doors in Common toilet of the approved brand with all necessary fittings & fixtures, etc all completed or as per directed by the Consultant. The frame to be kept as per the original.	1	NOS		
21	Compound Flooring:-				
a)	Removing any type of flooring i.e.mosaic, cement marble, granites non-slippery, tandur, kotah, shahabad stone or Indian Pattern stone, glazed tiles in flooring including bedding brick bat coba , paver blocks of any thickness etc in open passage, footpath, or any flooring laid on ground mechanically or manually and delivering materials in Ward Office and carting away unserviceable materials.	735	SQ MET		
b)	Providing and fixing 50 mm thick precast concrete interlocking paving block of concrete grade M30 for non traffic areas like footpath, paving etc. and as per the approved size, pattern, shape, colour, make, conforming to IS 15658, including 30mm thick sand bedding and edge confinements in cement mortar 1:3, laying in perfect line and grade etc. complete.	735	SQ MET		
	Removing existing PCC & Providing & laying 4" thk M20 PCC on the balance portion of pavor block near the compound wall with curing etc complete or as directed by the consultant.				
22	Providing, erecting and dismantling after use a temporary platform made up of plywood/GI Sheets etc. supporting with props to safeguard or protect the entire area while work in progress with all necessary arrangements complete or as instructed by the Consultant.	15	SQ MET		
TOTAL COST : - CIVIL REPAIRS, RENOVATION & RESTORATION WORKS (ALL ITEMS MENTIONED ABOVE)					

GST EXTRA AS APPLICABLE