

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
SCHEDULE A: - CIVIL REPAIRS & RESTORATION WORKS					
GENERAL NOTES FOR ALL THE BILL OF QUANTITIES FOR VARIOUS WORKS ENNUMERATED IN THIS TENDER: -					
a	<p>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 the instructions and directions. The said item comprises of the following: -</p> <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, Panelling 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, 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</p>				
b	<p>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.</p>				
c	<p>The rates quoted shall be inclusive of Providing Double steel / metal scaffolding having two sets of vertical supports which shall be provided. The supports shall be sound and strong, tied together with horizontal steel / metal support pieces over which scaffolding planks shall be fixed properly & secured. The rates quoted 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.</p>				
d	<p>The Mode of Measurements shall be as per B.I.S standards for all the items of works mentioned herein under. Further, incase of any item of work not forming part of the B.I.S mode of measurements, weightage would be given to the C.P.W.D mode of measurements which would prevail upon. In case of item of works missing in either of the two documented manuals, the decision of the Engineer in charge of the Project & in consultation with the Architect would be final and binding upon the contractor. No say whatsoever would be entertained during the course of execution of works on site. The Safety gadgets to be used in the project including the safety codes and procedures to be followed shall be strictly in accordance with the B.I.S codal provisions & /or CPWD defined standards for Safety procedure to be followed in Construction works. Safety measures as defined in the Technical bid document would also be adhered to by the contracting agency during the course of execution of works on site. The rates quoted for all the item of works herein under shall be inclusive of the parameters of the mode of measurements to be followed as detailed out herein above as well towards the Safety measures and codes to be strictly followed and adhered to, duly mentioned above. No additional claim by the contractor whatsoever would be entertained.</p>				
e	<p>The rates quoted shall be inclusive of Providing Tarpaulin sheet for working in monsoon and erecting the necessary framework for the same at the desired height. The tarpaulin used for the work will be handed over to the contractor after completion of work</p>				
1	Providing & laying External 9" thk brickwork in cement mortar 1:6, in superstructure, compound wall, steps, brick pillars of any size / shape etc. using approved conventional bricks of best available quality in the market including raking out joints or simultaneous pointing, curing, scaffolding etc complete as per the specifications and directions & instructions of the Consultant. Plastering would be paid for seperately under relevant item.	Sq. Mts	30		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
2	Providing and erecting in position, level and plumb Internal 4.5" thk siporex walls in cement mortar 1:6 (1 cement : 6 coarse sand) etc. complete. Plastering would be paid for seperately under relevant item.	Sq. Mts	60		
	115mm Siporex masonary wall				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in all kinds of Soil (Soil of any type) over areas (Generally Exceeding 1.5 m in depth, 1.5m in width as well as approximately 10 sq.m on plan) including getting out and disposal of the excavated earth, lead up to 50m and lift up to 1.5m as directed by the Architect / Engineer in charge	Cu. Mts	30		
4	Filling of the available excavated earth (excluding rock) in excavated pits for foundations, trenches, plinth, sides of foundations etc in layers not exceeding 20cm in depth each, consolidating each deposited layer by ramming and watering upto any lead and lift etc complete as directed by the Architect / Engineer in charge	Cu. Mts	25		
5	Supplying and filling in the excavated pits for foundations, plinth, sides of foundations etc, the bought-out local earth (Including royalty) by mechanical transport up to any lead, ramming and watering of the earth in layers not exceeding 20 cm in depth, upto any lead and lift etc complete as directed by the Architect / Engineer in charge	Cu. Mts	10		
6	Providing and laying in position M-25 grade of Reinforced cement concrete including the cost of centering, shuttering, finishing and reinforcement - All works up to plinth level	Cu. Mts	8		
7	INTERNAL PLASTERING				
	Carefully breaking & removing the existing plaster in patches or long stretches without damaging the plaster, brickwork in the vicinity including cutting a groove first to demarcate exact area & Providing and applying one pack Bonding coat between the concrete members like RCC slabs, columns, beams, Chajjas, pardis and brickwork etc with cement mortar plaster using HACK AID PLAST or equivalent of M/s. Sunanda Speciality Coatings or equivalent. Clean the surface thoroughly to remove dust, dirt, grime, deshuttering oils and rub down to a clean surface. Apply HACK AID PLAST by spray on the entire concrete or brick surface. Provide a lean cement - sand dash coat over the same. Allow the dash coat to set for around 24 hours.				
	Further Providing and applying internal cement plaster in patches or long stretches over the removed plaster portion in C.M. 1:4 upto average 20 mm thickness, including addition of water proof chemicals of Sunanda or equivalent approved make, providing bands, drip moulds, grooves, scaffolding, curing for 7 days, application of Terraco Spray after cement plaster has dried out etc. complete.	Sq. Mts	159		
8	EXTERNAL CEMENT PLASTER				
	Carefully breaking and removing the existing external plaster of walls, compound walls etc in patches or long stretches without damaging the plaster, brickwork in the vicinity including cutting a groove first to demarcate the exact area, including supplying, providing & erecting in position the necessary scaffolding, disposal & cating away of the debris, cleaning etc. complete & Providing and applying one pack Bonding coat between the concrete members like RCC slabs, columns, beams, Chajjas, pardis and brickwork etc with cement mortar plaster using HACK AID PLAST or equivalent of M/s. Sunanda Speciality Coatings or equivalent. Clean the surface thoroughly to remove dust, dirt, grime, deshuttering oils and rub down to a clean surface. Apply HACK AID PLAST by spray on the entire concrete or brick surface. Provide a lean cement - sand dash coat over the same. Allow the dash coat to set for around 24 hours.	Sq. Mts	450		
	Further to the same, Providing and applying 20-25 mm thk cement plaster in two coats with first coat in 12-15 mm thick in 1:4 C.M and second coat in 8-10 mm thick in C.M 1:4 finished in proper line and level including addition in both the coats shrinkage compensating admixture cum plasticizer-"SUNPLEX" or equivalent 330 gms pouch per 50 Kg bag of cement including SUNPLEX or equivalent mix to be in dry machine mix before addition of gauging water. The rate to include providing drip moulds, fibres, wire mesh, grooves, bands, watas at all heights including necessary curing for both the coats etc complete.				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	Note:				
	No extra payment shall be made for extra thickness of plaster carried out to match with existing surface.				
	The rate shall also include removing the existing mosaic chip kent tiles including providing & fixing the matching kent tiles whichever directed and instructed, which are removed during plastering including filling the gaps with white cement, adhesives, mortars, cleaning etc complete.				
9	PATCHWORK CONCRETE (M25)				
	Carefully breaking, removing and exposing the existing loose & damaged concrete in patches or long stretches by means of light chisel including supplying, providing & erecting in position the necessary scaffolding, disposal & cating away of the debris, cleaning etc. complete & providing and laying M25 concrete in patches with 10 to 20 mm downgraded aggregate as required, including providing the necessary formwork, water tight and removal after prescribed duration, compaction, curing, chipping of excess concrete and bringing it to original profile etc. complete. The rate shall include the usage of appropriate chemicals, setting agents etc of Sunanda or equivalent manufacturer etc complete.	Cu. Mts	4		
	Note:				
	Providing and laying R.C.C. of designed grade at all heights and levels on well compacted/sound surfaces using a mechanical mixer including dewatering, shuttering, vibrating, curing and finishing as required. Admix integral corrosion inhibitor POLYALK CP293 or equivalent @ 1% by weight of cement. The rate to include for storage, handling, transportation of materials, equipments etc using appropriate methods etc. complete.				
	1. Quoted rate shall be inclusive of additional concreting done and applying protection coat of polymer + cement (1:1 by volume) to existing reinforcement, which will not be paid seperately.				
	2. Hammers weighing more than 2 kg shall not be used. The rate shall also include the replacement of the totally corroded and damaged reinforcement steel bars wherever necessary & directed including welding, lapping, clening etc complete.				
	3. No Handmix allowed at site.				
	4. Formwork shall be approved by Engineer/Architect in charge				
10	Breaking & removing the existing surface & base course upto the required surface & levels as directed by the Consultants / Engineer-in-charge & providing & laying 9" thk Dry Rubble Soling over the existing surface / earth filling including filling the voids with murum, ramming etc complete. This item shall be provided for road work below the PCC & RCC layers only on the instructions & directions of Consultants / Engineer-in-charge. (For the Item of Plinth Protection & Canopy Pedestals)	Sq. Mts	68		
11	Providing & laying over the freshly laid Dry Rubble Soling, 4" thk Plain Cement Concrete (PCC), 1:2:4 (M15) (1 Cement : 2 Sand : 4 stone metal) using graded stone aggregate of 30mm & down including necessary formwork, laying, consolidation, finishing, curing, etc. complete as per the directions & instructions of Consultants / Engineer-in-charge. This item shall be provided for road work below the PCC & RCC layers only on the instructions & directions of Consultants / Engineer-in-charge. This item shall be provided for road work below the RCC layer only on the instructions & directions of Consultants / Engineer-in-charge. The item can be operated in patches without removing the existing PCC, which is in an acceptable condition. (For the Item of Plinth Protection & Canopy Pedestals)	Sq. Mts	68		
12	GAP FILLING WITH WATER PROOF CHEMICAL PASTE				
	Providing & applying sealants with white cement for sealing gaps & joints of various works such as external elevational box cill gaps, varying materials gaps etc including addition of appropriate water proof chemicals in white / matching cement paste as per manufacturers specifications etc complete.	Sq. Mts	20		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
13	TERRACE WATERPROOFING				
	Terrace Waterproofing without removing the Brickbat coba with the Innovative application of FLEXIROOF PU: - Carefully removing the entire existing water proofing treatment on the terrace floor including disposal & carting away of the debris, cleaning etc to reach upto the top layer of brick bat coba, break open the existing IPS and all the other layers of water-proofing. Provide & lay a thin screed with cement mortar (1:4) so as to have a uniform level. Cure the same as per good engineering practices. Provide and apply a primer coat of FLEXIROOF – PU PRIMER or equivalent on the entire terrace surface using a soft paint brush. Shake the container well and directly apply the primer by brush. Allow to set for 30-45 minutes depending on the ambient temperature and as directed. Ensure that the surface is dry prior to the application of primer coat. After the primer has totally cured and dried, apply FLEXIROOF- PU or equivalent by brush or roller. Apply at a rate of 1kg / sqm for the first coat evenly over the primer surface and allow to set for 12 hours.	Sq. Mts	95		
	After ensuring that the first coat is set and cured, apply the second coat in similar manner at a rate of 0.5 kg / sqm and allow to set. While the second coat has reasonably hardened but still wet and tacky on surface, sprinkle sand over the surface to make it rough so as to provide mechanical key for the protective screed. Ensure that the sand does not get embedded in the second coat and remains on the surface. Allow the two coats of FLEXIROOF- PU or equivalent to air cure for 4-5 days before proceeding with the IPS. Lay minimum 25-40 mm thick IPS of 1:2:4 mix (1 cement : 2 sand : 4 aggregates). Admix shrinkage compensating admixture SUNPLEX (330gms pouch) or equivalent per bag of cement in this mix. Grooves may be cut at regular intervals of 2-3 m into the IPS as deemed fit and as per the directions and instructions of Architect. Cure the surface for minimum 7-10 days.				
	Consume the prepared mix within 30 minutes. Payment will be made as per the plan area. Lay small sized well soaked brick bat metal coba in cement mortar 1:3 to proper level and slope as per instructions adding "SUNPLEX" - 330 gms pouch per 50 Kg bag of cement to the mortar mix. Provide about 9" to 12" watta along the walls with cement mortar 1:3. Rate to include for making border at the junction of watta and wall plaster, ponding for seven days by closing the RW outlets and making watas etc complete to the satisfaction of the EIC.				
	The rate shall also include Providing & fixing China mosaic (broken tiles) flooring over freshly laid top surface of brick bat water proofing and IPS etc complete including clat of water proof chemicals.				
14	WATERPROOFING OF CHAJJAS, FINS, PADADIS ETC				
	Carefully removing the entire water proofing treatment on the chajjas, fins, paradis etc of any thickness including disposal & cating away of the debris, cleaning etc and Providing and applying water proofing treatment of upto any thickness with average 150mm thickness for chajjas, fins, padadis etc consisting of 12mm thick layers in 1:4 cement mortar with water proofing compound comprising of the following operations: - Two coats of "POLYALK WP" or equivalent of M/s. Sunanda Speciality Coatings Pvt. Ltd or equivalent and cement in 1:1.25 ratio, constructing and laying brick bat coba in cement mortar 1:5 including the water proofing compound upto the desired thickness as directed at an interval of 24 hours on the surfaces and extending it upto 1'0" over the side walls. Air cure the same for 24 hours and damp cure for next 4-5 days. Providing and applying single coat of bonding agent HACK-AID-PLAST or equivalent of M/s. Sunanda Speciality Coatings Pvt. Ltd or equivalent on the POLYALK WP coating by spray and providing wet on wet a chat/dash coat of 1:4 cement mortar in 12 mm thickness including all leads, lifts and laid to proper slope to drain off water entirely	Sq. Mts			QRO

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	The rate shall include watta at the junction of wall as directed and including finishing the top layer of water proofing treatment with IPS or as directed and covering the whole waterproofing treatment with ten year's guarantee on requisite stamp paper etc complete as directed by Consultant in line with the technical specifications.				
	All mortar mix to be necessarily added with "SUNPLEX" or equivalent 330 gms pouch per 50 Kg bag of cement. All coats of POLYALK WP or equivalent to be inspected using a Magnifying glass by the EIC to satisfaction to ensure pinhole free coating. Ensure mechanical mixing of "POLYALK WP" or equivalent and cement slurry using stirrers and check that cement particles do not settle down in the prepared mix. Consume the prepared mix within 30 minutes. Payment will be made as per the plan area. Lay small sized well soaked brick bat metal coba in cement mortar 1:3 to proper level and slope as per instructions adding "SUNPLEX" - 330 gms pouch per 50 Kg bag of cement to the mortar mix.				
	Fill up the joints adding SUNPLEX or equivalent 330 gms pouch per 50 Kg bag of cement to the cement mortar 1:3 mixed and finished smooth with neat cement on top so as to drain water smoothly. Provide about 9" to 12" watta along the walls with cement mortar 1:3 small brick bats. Rate to include for making border at the junction of watta and wall plaster, ponding for seven days by closing the RW outlets and making watas etc. complete to the satisfaction of the EIC.				
15	POLYMER MODIFIED MORTAR/CONCRETE				
	Carefully breaking & removing the existing damaged / corroded R.C.C. Columns, beam, slabs, chajjas, paradis, fins etc including disposal & cating away of the debris, cleaning etc in the patches or long stretches by means of light chisel upto 50mm depth, upto the level of reinforcement without damaging brickwork, plaster in the vicinity, including supplying, providing & erecting in position the necessary scaffolding, cleaning, disposing of debris etc complete & then providing and applying polymer modified cementitious mortar treatment upto 25 mm thk. comprising of following operations:	Sq. Mts	150		
	a) Reinforcement treatment coat				
	# Scrapping reinforcement with wire brush and cleaning the same from all sides by light tapping, wire brushing and emery paper.				
	# applying Rusticide Rustprime/Ruskill A or approved equivalent in one or more coats as directed as per manufacturers specification, washing with water.				
	b) Bond coat				
	# Providing & applying Polyalk Fixoprime or equivalent and Cement (1:1.25) to exposed steel bars in two coats as per manufacturer's specifications and brushable consistency for bonding old and new concrete surfaces.				
	Providing and applying bonding coat of POLYALK EP or equivalent and Cement (1:1.25) to the entire concrete surface.				
	c) Mortar application				
	Applying Polymer modified mortar/concrete treatment as per manufacturer's instructions in layers of thickness not exceeding 20 mm (applying bonding coat at every layer) upto profile of concrete in the vicinity by applying Hand pack Polymer Modified Mortar by mixing 1 part by weight of "POLYALK EP" or equivalent with 5 parts by weight of cement and 15 parts by weight of well graded sand and water to achieve the desired consistency [Sand Grading IS383, Zone II, Silt content <6%]				
	Including curing, scaffolding, cleaning etc. complete				
	Note:				
	If the depth of polymer modified mortar/concrete exceeds 50 mm, then quantity shall be paid by considering multiplication factor = (actual depth) / 50mm for additional thickness.				
	At a time apply mortar layer not more than 20 mm thick. The mortar should be prepared using mechanical mixers / stirrers & should be well compacted and finished using appropriate methods. The rate to include for necessary compaction with mechanical plate vibrator etc. complete to the satisfaction of the EIC.				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
16	CRACK FILLING WITH PMCM Carefully removing the existing plaster / mortar / loose concrete, chasing the cracks, including supplying, providing & erecting in position the necessary scaffolding, disposal & cating away of the debris, cleaning etc & sealing the separation cracks between R.C.C. and brickwork by raking, open the crack by electrically operating groove cutter as directed, insertion of 20 mm downgraded aggregates by hammering as per the instructions of the consultant, sealing with polymer modified cementitious mortar (25mm width x 25mm depth) using Polyalk EP or equivalent as per the specification of item polymer modified cementitious mortar/concrete, application of chicken mesh (200mm wide, 200mm overlapping length) along the crack by 'U' nails spaced at 300 mm c/c, including necessary breaking plaster, concrete, brickwork, washing with water, curing, cleaning etc. complete	R.Mt	100		
17	PAINTING (EXTERNAL IN ACRYLIC EMULSION PAINT) Scrapping the existing paint and finishes & Providing and applying 100% acrylic, heat insulating & thermal resistant, high quality, decorative external acrylic emulsion paint coating "Apex Ultima" or equivalent approved make including a priming coat on the surface and applying by brush two subsequent coats of paint of approved shade, colour, texture & design. The rate shall include erection of scaffolding at all levels, applying three coats at an interval of 4-6 hours between each coat etc all complete as per the satisfaction of the consultant / engineer-in-charge. The rate shall be inclusive of 7 years guarantee. Note : No extra cost will be paid for additional coat for the purpose of finishing of surface if required.	Sq. Mts	12		
18	PAINTING (ENAMEL PAINT FOR ROLLING SHUTTER, GRILLS ETC) Providing and applying synthetic enamel paint, at all heights of required shade and approved make on old work including the scrapping/cleaning and preparation of surfaces for painting, applying primer, with two or more coats of approved first quality enamel.	Sq. Mts	306		
19	PAINTING (INTERNAL IN ACRYLLIC EMULSION PAINT) Same as above but the internal paint in Acryllic Emulsion Paint including scrapping and Providing and applying Acrylic Emulsion Paint in minimum of three coats of approved make and shade on Walls, Ceiling, plywood, gypsum board, surfaces etc including all the necessary surfaces preparation. The walls / surfaces shall be cleaned, filled with putty & applied with one coat of primer so as to achieve a even surface to further apply two coats of paint of approved colour, shade, texture, design etc as per the directions to the satisfaction of the Consultant.	Sq. Mts	1001		
20	P/F RAIN WATER DISPOSAL PVC PIPE Providing & Fixing 110 mm dia PVC pipe 4 Kg/Cm2 for rain water disposal including welding of joints, Fixing with M.s Clamps as per approved design from Architect details and as directed. This also includes fixing of shoe band. The item shall be measured in RMT and nothing extra shall be paid for the fitting. Pipes shall be Finolex/Prince/Supreme make at all levels.	R.Mts	90		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
21	REPAIR & REFIXING OF EXISTING PIPES				
	Cleaning the necessary vertical drainage pipe line of the flats including checking the joints, making them water tight and seepage proof, necessary repairs to the pipelines, replacement of clamps, cleaning of the drainage chambers, removal of sludge and carting away the same upto any lead. etc. complete	Job	1		
22	WEATHER SHED				
A	Providing and fixing weather shed for the windows in 12mm polycarbonate roofing sheets including the necessary M.S square pipes, angle sections framework including J- bolts , necessary fittings and fixtures, accessories, clamps & brackets for fixing to the external main wall including applying 3 coats of enamel paint over red oxide primar ,maxing the assembly water tight , scaffolding and making good the damages during the work etc. complete	Sq.Mt.	35		
B	Providing & Fixing in position Fibre-board designer Chajjas as per Site Condition & also to include Lead sheet above boarding including inserting the chajja, proper supporting elements in M.S framework (Rate of M.S framework to be included in the said item) in M.S pipe supporting frame with 2 coats of enamel paint over red oxide primer to be included in the quoted rate and including providing and applying of silicon sealant or Rubber Epoxy putty of Ahura brand or equivalent make for the joints between the chajjas, elements, frame and masonry &/or any other elements as per site condition etc complete.	Sq.Mt.			QRO
23	CORROSION PROTECTION TO STEEL WITH SACRIFICIAL ANODE				
	Clean the existing steel surface by scrubbing, chipping etc. so as to remove all the existing loose rust. Using cotton waste swab apply "RUSTICIDE" after 24 hours remove the free / loose rust particles by simple dusting with brush, etc. complete to the satisfaction of the EIC.				
	Providing and fixing in position zinc based sacrificial anode- SUNSHILED or equivalent over the cleaned steel surface. Fixing to be done using anode connectors or tack welding to steel surface. The rate includes cleaning, applying, fixing in position, welding at all heights etc. complete to the satisfaction of the EIC.	Nos	8		
24	MICRO CONCRETE				
	Micro Concrete - Providing and laying M-35 Grade of 75 mm thk. prepacked dual shrinkage compensated polymer modified microconcrete like Master Emaco S346 of BASF /Renderoc LA55 of Fosroc/ Sikarep Microcrete -4 of Sika or equivalent material, Pouring in narrow location for column, beam, slab. (Rate includes scaffolding,shuttering with the marine plywood/M.S. sheets/plates to be fixed in true line and level as required as per site condition. materials, labour etc. Measurement on the basis of actual consumption of micro concret on square feet area)	Kgs	2000		
	The rate is inclusive of chipping of the loose concrete and its disposal away from the site. (The rate should include 8a,b,c and 10) AVERAGE THICKNESS 75 MM (Polymer treatment for damaged R.C.C column/ beams/ slabs/ chajja etc. only upto 50 mm thicknes and microconcrete for entire thickness of damaged area upto only 75 mm- 100 mm), core cutting, bond coatetc complete the work as per instruction of the architect / Bank's Engineer.				
25	Providing and fixing in position - M.S / H.Y.S.D / T.M.T bar reinforcement of various diamaters for slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, paradis, coping, fins, arches etc as per detailed designs, drawings and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required etc complete. The item shall also include anchoring reinforcement bar in existing RCC member in holes of minimum 10d depth for 8 to 12 mm dia. bars and grouting in position with lacfix (fosroc), including drilling of holes, cleaning etc. complete.				
	With HYSD bars / Tor steel bars conforming to IS1786 (TMT Steel)	Tonnes	2		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
26	<u>WATERPROOFING WITH ELASTOMERIC COATING ON EXTERNAL WALLS</u>				
	Clean the receiving plastered surface of all loose particles, dirt & rub down to original hard surface. Inspect for cracks if any, and clean and moisten them. Define the crack with sharp edge tool. Providing and applying ready to use acrylic polymeric non-shrink auto-suction putty – "POLYFILL-AR" or equivalent of M/s. Sunanda Speciality Coatings Pvt. Ltd. or equivalent on the crack and finish at all heights, level etc. complete. After 24 hours inspect and if required as a result of auto-suction, provide another filling over the same. Provide and apply a coat of POLYALK WP or equivalent & cement in 1:1 proportion by weight in slurry form on the crackfilled area	Sq.Mt.	737		
27	<u>JACKETING</u>				
	Providing & fixing shear keys upto 12 mm dia and 175 mm long bent to required shape at regular intervals including drilling holes in concrete, dipping ends in epoxy, fixing etc complete for column jacketting etc as directed.				
	Providing and laying ready mixed Reinforced cement concrete of M-35 grade for jacketting using approved plasticizer etc, including waterproof shuttering, mixing, pouring, tamping, consolidation, curing, chemicals & compounds of approved make etc complete. Reinforcement shall be paid for seperately under relevant item.	Cu.Mts	20		
28	<u>FIBRE WRAPPING TECHNIQUE</u>				
	Preparing the surface to be wrapped, free from fins, protrusions, depressions, spalls, cracks, moisture and honeycombed / segregated concrete patches. Rounding off the corners of the elements around which the high strength composite system is to be wrapped to a minimum radius of 20 mm, by mechanical or other approved means including preparing the surface with a bedding coat in cement mortar as required to form rounded edges to receive pre-cut fabric.	Sq. Mts	100		
	Supplying & Installing Fibrewrap system in conformance to the approved manufacturers specifications and as per the design, fibre orientation, number of layers as detailed in approved drawings or as directed by the Consultant or Engineer-in-charge in accordance with the manufacturers specifications and without any appreciable dead loads on the structure in accordance with ACI 440 code for structural strengthening of RCC elements etc complete.				
	Providing and installing approved, non intrusive, impervious and wet wrapping type high strength composite wrapping system comprising of bi-directional fabric reinforcement and high strength fibres interwoven in the desired orientation & direction, priming the prepared surface with fabric reinforcement saturating the fabric with approved two component high strength saturate resin that is compatible to the fabric reinforcement and wrapping the prepared surface in accordance to the designed main fibre orientation including removing / drawing out the entrapped air etc complete as per the manufacturers specifications.				
	Mode of Measurements for High Strength Composite Wrapping System: -				
	The High strength composite wrapping system shall be measured in terms of the surface area per layer of the composite material installed onto the RCC element. Laps provided in the main and secondary directions shall additionally be considered for measurements. No allowances shall be considered for wastages in the reinforcement fabric and epoxy resins as the same shall be included in the rate quoted. The rate shall also include supplying, providing & erecting in position the necessary scaffolding, disposal & cating away of the debris, cleaning etc. complete.				
	415 GSM (45/45) Bi-directional Glass fiber sheet for RCC elements.				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
29	HACK AID PLASTER FOR OLD RCC SURFACE Clean the surface with water jet thoroughly to remove dirt, loose, particles etc. Moisten the surface with water. On the entire clean moist surface, apply a coat of HACK AID PLAST by spray. When surface becomes tacky, apply a chat / dash-coat of cement mortar say in 10 minutes. Tacky period may vary depending on external atmospheric conditions, saturation degree of substrate etc. Check and ensure that the surface is tacky prior to application. Plaster the surface or place the concrete in the usual manner after setting of the chat / dash coat. Complete as specified by company and directed by Architect / Bank's Engineer.	Sq. Mts			QRO
30	RCC WORKS IN 1:2:4 Providing, hoisting and fixing reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills, fins, padadis & other RCC elements and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size.	Cu.Mts	3		
31	GROUTING Drill the holes of 12mm dia for depth upto 30mm to 50mm inside the damaged or honey combed concrete areas at spacing as instructed by consultants. Clean the holes by blast of air or by jet of water. Insert the PVC nipples into pre drilled holes and seal peripherally by "M Seal". After 24 hours, inject the "Polymer Cementaceous slurry mix" in the proportion as under into the nipples, at a pressure of 2 kg / Sq. cm using gum pumps of capacity not less than 30 PSI in the ratio of (1 kg polymer EP: 3 KG cement: 2 litres of water). After two days of curing, cut the nipples and seal it with polymer modified mortar.	Nos	52		
32	ANTI-TERMITE TREATMENT TO THE BUILDINGS (BUILT-UP AREA) Supplying Aldrex 30 E.C. of NOCIL or equivalent emulsifiable concentrate conforming to IS-1307 at site & injecting the same with dilution as per manufacturer's specification for post-constructional anti-termite treatment and erecting a chemical barrier under / around the column pits, walls, trenches, basements, excavation top surface of plinth filling, exposed surfaces etc. as directed at site all complete.	Sq. Mts	383		
33	STRUCTURAL STEEL WORKS FOR ROOF TRUSS & CANOPY :				
a	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. : With Hot finished seamless type tubes.	kg	6000		
b	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	kg	2400		
c	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	kg	120		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
34	ROOFING :(GALVALUME SHEETS / POLYCARBONATE SHEETS)				
a	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sq. Mts	420		
b	Providing and fixing of Polycarbonate Skylights, Domes, Canopies, Roofing sheds etc with MS Hollow Sections Frame work (steel and supporting MS frame work would be paid separately under relevant item) as per drawing and design. (Shop drawings to be prepared by the contractor for approval) with one coat of Zinc Chromater primer & two coats of Enamel Paint as per IS standards along with coloured Multi-cell heavy-duty designer Polycarbonate Sheets of 16mm thickness of approved colour & design with Standing Seam Connecting System as per technical specifications. The installation is inclusive of Multi-cell Rib support structure with ultra-violet protection coating with tight spacing between the ribs. The full assembled system shall be in free floating etc complete as per standard technical specifications, instructions of Architect / Engineer-in-charge on site & codes.	Sq. Mts	119		
35	Roofing Accessories:				
	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05%) total coated thickness, Zinc coating 120gsm as per IS: 277, in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete Ridges plain (500 - 600mm).	Rmetre	110		
36	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05%) total coated thickness, Zinc coating 120gsm as per IS: 277, in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete. Gutter (600 mm over all girth)	Rmetre	200		
37	Designing, Supplying, Assembling / fabricating, Installation, finishing, testing and fixing in position Curtain Wall with 2 Hours Fire Rated Aluminium Composite Panel Cladding in combination of solid/Metallic colours, including all necessary frame work and complete weather sealing, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including:	Sq.Mts	250		
	Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.				
	Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, EPDM, Neoprene, backer rods etc.				
	The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium items.				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places."				
38	FALSE CEILING				
	General :				
	The filler, paper tapes, finishes and primers suitable for Gypsum boards, shall be as per recommended practises of India Gypsum.				
	Framework grid and suspenders shall be fixed to avoid fouling with services such as ducting, sprinklers, electricals fixtures, etc				
	T.W. framing may be allowed in certain areas for the Gypsum Board ceiling with the approval of the Architect. The same should have three coats of fire resistant paint.				
	Note: All the hardware such as fastners, hangers, suspenders, etc. required for erection of the false ceiling shall be of standard approved make & manufacturers specifications and approved by the Architect.				
A	Metal frame False Ceiling of 12 mm thk. Gypsum Board including vertical drop panels.	Sq.Mts	280		
	Providing and Fixing 12 mm Thk. Gypsum board on metallic grid, conforming to IS: 2095 :1982. The metallic grid shall consists of the following :				
	GI Perimeter channels of size 27mm and 0.5mm thk. having one flange of 20mm and another flange of 30mm.				
	GI intermediate channel of size 45mm 0.5mm thk. With two flange of 15mm each at 4'-0" centre to centre.				
	GI Hanger of size 1"x1", 0.5mm thk. A 4'-0" centre to centre distance.				
	GI Cleat and Steel Expansion Fasteners.				
	Ceiling section of 0.5mm thickness having curled wedge of 51.5 mm and two flanges of 26mm each with lips of 10.5mm at 450mm center to center. Connecting clips & 12.5 mm dry wall screws at 230 mm center to center.				
	The metallic grid shall be installed as follows :				
	The perimeter channel along the perimeter of the ceiling with screw fixed to brickwall / partition with the help of rawlplugs and screws.				
	The intermediate channels shall be suspended from the ceiling with steel GI hanger fixed to the slab soffit with GI cleat and steel expansion fasteners.The intermediate channels shall be at 4'-0" centre to centre distance.				
	The ceiling section placed in a direction perpendicular to the intermediate channel at 1'-6" C/C distance shall be fixed to the intermediate channel with the help of connecting clips and 12.5 mm dry wall screws at 230 mm centre to centre distance.				
	Finally, the 12mm thk. Gypsum boards shall be fixed to the metal frames and the tapered/square edges of the boards shall be finished to a flush joint with requisite filler, paper tapes, finisher and primer suitable for Gypsum plaster boards, (as per recommendations of manufacturers, Indian Gypsum or equivalent) including Acrylic Emulsion Paint of approved make and shade and colour.				
	The rate shall include the cut-outs to be made for light fittings, grills, diffusers, speakers, smoke detectors, sprinklers etc. with provision of the frame along perimeter of the cut outs/ opening with channels/ ply to support the ceiling adequately as per the directions of Architect. The rate shall include necessary shapes, designs, patterns in curvature, sloping, dome, oval & elliptical shaped etc including the necessary provisions of coved lighting scheme etc complete as per the designs, drawings and instructions of the Architect.				
B	Mineral Fibre Board False Ceiling				
	Providing and erecting false ceiling of Mineral Fiber ceiling Board of approved make with framework, runners, cross runners & suspenders from the existing ceiling as per the manufacturers details and specification and 600X 600mmX 15mm thk tiles of approved design, texture & in microlook pattern including the grids in black / white silhouette pattern, 15mm as per manufacturers specifications complete including making necessary cut-outs for electrical fixtures, AC diffusers, access etc as per the instructions of the Architect.				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
(i)	Approved premium Tile in Dune RH Microlook or equivalent approved category with black silhouette locking supporting system, 15 mm grid. The rate shall also include Providing & Fixing in position 50 mm high Axiom with all its associated Accessories as per manufacturers specifications & standards etc complete. Rate to also include providing & fixing additional 6mm thk. commercial ply backing on mineral fibre modular false ceiling tiles of support light fitting, speakers, CCTV cameras in grid work wherever directed	Sq.Mts	50		
(ii)	Approved premium Tile in 19 mm thk. fine fissured high accoustic tile board with a minimum NRC of 0.95, Class I (Class A) fire rating with black silhouette locking supporting system locking supporting system, 15 mm grid etc complete. The rate shall also include Providing & Fixing in position 50 mm high Axiom with all its associated Accessories as per manufacturers specifications & standards etc complete. Rate to also include providing & fixing additional 6mm thk. commercial ply backing on mineral fibre modular false ceiling tiles of support light fitting, speakers, CCTV cameras in grid work wherever directed	Sq.Mts			QRO
C	Providing and erecting false ceiling in veneer in any shape, design, pattern such as curvature, sloping, dome, oval, suspended dome, cylinder, inverted dome, elliptical shaped, battens & any other shape as directed or instructed etc including the necessary provisions of coved lighting arrangement etc complete as per the designs, drawings and instructions of the Architect to be provided with 12 mm thk Commercial ply backing on teak wood frame to be anchored to the main ceiling with cross runners tongued and grooved including anchor fasteners, cross bracings, brackets etc. Ply to be fixed to the teakwood frame to be finished with approved 3.0 mm thk high end premium class veneer & high end melamine polish etc complete as per directions of the Architect.	Sq.Mts	14		
39	PANELLING :-				
A	Providing and fixing Wall & Column Panelling for the existing surfaces to be made out of 16 gauge Aluminium framework backing of size 2" X 1" at 1'6" to 2' c/c bothways to be covered with 12mm thk 303 MR grade Commercial Plywood and finished with approved 3.0 mm thk Veneer and melamine polish in any design, pattern, veneer alignment etc including skirting & band at top in the same alignment with a groove and including teakwood moulding of approved size as shown in detailed drawing or as directed by Architect	Sq.Mts	27		
B	Providing and fixing Wall & Column Panelling for the existing surfaces to be made out of 16 gauge Aluminium framework backing of size 2" X 1" at 1'6" to 2' c/c bothways to be covered with 12mm thk 303 MR grade Commercial Plywood and finished with approved 1.0mm thk laminate including skirting & band at top in the same alignment with a groove and including teakwood moulding of approved size as shown in detailed drawing or as directed by Architect. {Item shall be operated on all surfaces including fixing above the storage units mounted on exterior walls within cubicles and as an partial enclosure to the exposed Glazing portion}	Sq.Mts	95		
C	Providing & Fixing designer approved Accoustic Fabric Panelling of Armstrong, Anutone or equivalent make including approved leatherite, satin or approved fabric of standard width over and 25mm thk glasswool or soft board backing, total thickness as per manufacturers specifications. The NRC to be minimum of 0.9. All around the panelling, decorative teak wood mouldings shall be provided and shall be finished with melamine polish complete as per the instructions of Architect.	Sq.Mts			QRO
D	Providing and fixing Wall & Column Panelling for the existing surfaces to be made out of 16 gauge Aluminium framework backing of size 2" X 1" at 1'6" to 2' c/c bothways to be directly finished with skin in 12 mm thk approved Gypsum Board to be screwed directly to the Aluminium framing including POP Punning, levelling etc complete. The finishes for the said item shall comprise of the following: -				
i	Providing & Fixing Acrylic Emulsion Paint finish to the skin in coats of desired number	Sq.Mts	8		
ii	Providing & Fixing Textured Paint finish finish to the skin	Sq.Mts	10		
iii	Providing & fixing approved wallpaper over the Gypsum surface in paneling, false ceiling or any surface as directed. (Only the cost towards supply & fixing of wall paper shall be quantified in this item. All other items including surface preparation shall be quantified under relevant items). (Basic rate of Rs. 200/ Sq. Fts + GST).	Sq.Mts			QRO

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
E	Providing & Fixing Mirror Panelling using 6 mm thick mirror of approved make over 19mm 710 BWP grade Marine Plywood backing. The mirror to be fixed with T.W beading of size 12.5mm X 19mm, finished with melamine polish complete as per the instructions of EIC. The rate shall be inclusive of providing & fixing S.S studs of appropriate size & diameter as directed including bevelling for the mirror	Sq.Mts	5		
F	Providing and laying in position approved designer cut panels or standalone partition separators of approved make and in ABS material (toughened plastic) of size 300 mm X 300 mm interlocking arrangement for any length and height in thickness upto 25 mm and in any designs and body and cover colour finish such as jali, matrix, aura etc including providing and fixing 12 mm thk frosted glass on the rear side of the panel as backing material including provision for providing LED back-lit lighting on the rear side, necessary framework for fixing the arrangement, brackets for fixing glass, teakwood moulding all around the periphery, necessary hardware, fittings, fixtures etc complete as per the manufacturers specifications & directions of Architect. (Basic rate shall be Rs. 1700 / Sq. Fts plus taxes {GST})	Sq.Mts	9		
G (i)	Providing and fixing Wall & Column Panelling for the existing surfaces to be made out of 16 gauge Aluminium framework backing of size 2" X 1" at 1' 6" to 2' 0" c/c to be covered with 12mm thk 303 MR grade Commercial Plywood backing and finished with 4mm designer, decorative MDF board including coats of duco paint of approved shade, colour & texture including teakwood moulding of 4mm size all around the periphery as directed by Architect	Sq.Mts			QRO
H	Providing and fixing back-painted 6 mm thk colored glass to be provided for any type of Partitions, Panelling, False Ceiling, Tables, Furniture etc as per directions for the existing raw surfaces such as plywood, partial board, MDF, Aluminium framework etc directly to be mounted over the surface or over and including SS studs including making provision for providing LED cove backlit lighting wherever directed, brackets, necessary hardware, fittings, fixtures etc complete as per the directions of Architect. Basic rate for back painted glass / muralic glass shall be Rs. 300 / Sq. Fts.	Sq.Mts			QRO

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	PARTITIONS / PANELLING				
	General Specification for partition :-				
	Main frame -Aluminium sections of 16 Gauge mentioned are out of size 2"x2" Aluminium section verticals at minimum 1' 6"-2'-0" Centre-Centre spacing approx. and 2" X 1" size Aluminium sections horizontal at 1' 6"-2'-0" Centre-Centre spacing approx. Extra frame below slab soffit for conduit to run above. All verticals shall be secured to the ceiling.				
	SKIN: - 303 MR grade Commercial Plywood shall be screwed to frame work on both sides with joints as shown or directed.				
	SKIRTING : In the same alignment, 3" high in 303 MR grade Commercial Plywood with a groove finished with laminate / veneer as the case maybe, or as directed by the Architect.				
	Finishing :-				
	VENEER:- 4mm thk natural venner with matching superior approved grade to be fixed to the plywood having joints as shown or directed complete with melamine polish finish.				
	LAMINATE:- Approved laminate shall be of 1.5 mm thick.				
	Internal Laminate shall be fixed on plywood skins with glue having grooves as shown or directed. Internal surfaces at specified places shall be 0.8 mm thick as directed by Architect. The rates quoted for the items of partions & paneling shall be inclusive of providing & fixing M.S. plate & brackets over & above the aluminium frame work as directed & wherever instructed for mounting the TV units & screens etc complete.				
	IMPORTANT NOTE ON THE DESIGN REQUIREMENTS APPLICABLE IN CASE OF ALL THE ITEMS OF PARTITIONS & PANELLING: - The design & the elevation of the various items under the heads: Partition & Panelling shall be at the complete discretion & directions / instructions of the Engineer in charge & Architects on site. Wherever instructed & directed, the rate shall include providing & fixing additional 6mm thk plywood backing over and above the 303 MR grade Commercial plywood so provided in the items of partition / panelling to form raised panel design at regular intervals as directed and to be finished with high end approved 4.0 mm thk veneer with high end melamine polish (proportion of gloss and matt as directed) with uniform shade & texture. Incase of 9mm thk plywood used instead of 6mm thk plywood for the raised panels for the items of Partition or Paneling works, the difference between the cost of 9mm thk plywood and 6mm thk plywood for the actual quantity of plywood used for the said partition or panelling items shall be the item of works herein				
	The level difference between the said raised panels and recessed panels shall be finished with approved designer moulding to be finished with high end (proportion of gloss and matt as directed) melamine polish and shall also include designer inlays to be finished with high end veneer with high end melamine polish, pattas & bands at various levels etc in veneer and melamine polish and combinations of raised and recessed panels with inlays etc complete to the complete satisfaction of the Architect and Engineer in charge.				
	For all items of Interior Furnishing works & Furniture works, the basic rate of Laminate considered for all the specifications / BOQ items herein shall be Rs. 55 / Sq. Fts plus taxes (GST) whereas the basic rate of Veneer, which shall be high end, uniform and without any variations, 4.0 mm thk considered for all the specifications / BOQ items herein shall be Rs. 100 / Sq. Fts plus taxes (GST). Basic rate for Frosted / Designer film of 3M, Llumar or equivalent approved wherever mentioned separately shall be Rs. 90 / Sq. Fts plus taxes (GST). The basic rate would be the rate offered to the bidder by the vendor / supplier after discounts and excluding the cost towards transportation, freight, loading, unloading etc and also exclusive of taxes (GST). Necessary documentary evidence in the form of challans & Tax invoices, details of payments released to the vendor for the purchase of such materials & including the loading-unloading transport slips needs to be submitted at the time of billing without which the paymehe item of works herein under shall be				
	Further, Corian wherever mentioned in the BOQ (For items of Panelling, Reception Counter, Furniture elements etc) shall be high end, of desired and approved color and adhering to the BOQ specifications. Corian thickness shall be 6mm thk for vertical surfaces & fascias and 12mm thk for horizontal surfaces shall be provided and with a basic rate of Rs. 1200 / Sq. Fts plus taxes (GST) for 6mm thk Corian and Rs. 1500 / Sq. Fts plus taxes (GST) for 12 mm thk Corian.				
40	Providing and fixing Full ht. double skin Partitions as per specifications including skirting, complete as per the design, drawings and instructions in all respects. The specifications for the said item shall comprise of the following and with varying finishes as mentioned hereinunder: -				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	FRAMEWORK -2"x2" Aluminium section of 16 Gauge verticals at minimum 1' 6"-2'-0" Centre spacing approx and 2" X 1" size Aluminium sections horizontal at 1' 6"-2'-0" Centre spacing approx extra frame below slab soffit for conduit to run above. All verticals secured to ceiling. Measurement of the said item shall be upto the False Ceiling level.				
	SKIN:- Both side with 12mm thk 303 MR grade Commercial Plywood screwed to frame work on both sides with joints as shown or directed.				
	SKIRTING : In the same alignment, 3" high in 12mm thk 303 MR grade Commercial Plywood with a groove finished with laminate / veneer as the case maybe, or as directed by the Architect.				
	The rate shall include providing & fixing t.w. beading all throughout the exposed edges & periphery, sealing all the joints, grooves in finishes, melamine polish to the mouldings & t.w members, complete as per the directions of Architect. All Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically.				
	The finishes for the skinning to be screwed to the framework on both the sides as duly mentioned above shall comprise of the following types: -				
a	Both side skins to be finished with 1.5 mm thk Laminate as shown in drawing or as directed by Architect.	Sq.Mts	70		
b	Both side skins to be finished with 3.0 mm thk approved quality veneer finished with high-end melamine polish as shown in drawing or as directed by Architect.	Sq.Mts	50		
c (i)	Both sides to be directly finished with skin in 12 mm thk approved Gypsum Board to be screwed directly to the Aluminium framing including POP Punning, levelling etc complete. Rate to also include Providing & Fixing Acrylic Emulsion Paint finish to the skin in coats of desired number	Sq.Mts	29		
(ii)	Both sides to be directly finished with skin in 12 mm thk approved Gypsum Board to be screwed directly to the Aluminium framing including POP Punning, levelling etc complete. Rate to also include Providing & Fixing approved wallpaper over the skin surface (Basic rate of Rs. 200/ Sq. Fts	Sq.Mts	28		
d	One side skin to be finished with 1.0mm thk approved laminate & other side skin with 3.0 mm thk approved quality veneer finished with high-end melamine polish as shown in drawing or as directed by Architect.	Sq.Mts	12		
41	Carrying out repairs to the rolling shutter by providing, welding & fixing in position frames, M.S sections, floor channel, rails, sliders etc including providing and fixing in position new frames, sections and accessories etc complete wherever damaged. The rate for enamel painting would be quantified under relevant item	Sq.Mts	8		
Total A for RECEPTION BUILDING				Rs.	
BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS OF SUB-STATION CUM TRANSFORMER BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
SCHEDULE A: - CIVIL REPAIRS & RESTORATION WORKS					
GENERAL NOTES FOR ALL THE BILL OF QUANTITIES FOR VARIOUS WORKS ENNUMERATED IN THIS TENDER: -					
a	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 the instructions and directions. The said item comprises of the following: -				
	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, Panelling of all types				
	Doors, Windows of all types, Steel work, Frames, Grills etc				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	False Ceilings				
	Wiring, Cables, Electrical fittings, fixtures, accessories, Cables, Wires, Cable Trays, Lighting fittings & fixtures,				
	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				
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 rates quoted shall be inclusive of Providing Double steel / metal scaffolding having two sets of vertical supports which shall be provided. The supports shall be sound and strong, tied together with horizontal steel / metal support pieces over which scaffolding planks shall be fixed properly & secured. The rates quoted 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.				
d	The Mode of Measurements shall be as per B.I.S standards for all the items of works mentioned herein under. Further, incase of any item of work not forming part of the B.I.S mode of measurements, weightage would be given to the C.P.W.D mode of measurements which would prevail upon. In case of item of works missing in either of the two documented manuals, the decision of the Engineer in charge of the Project & in consultation with the Architect would be final and binding upon the contractor. No say whatsoever would be entertained during the course of execution of works on site. The Safety gadgets to be used in the project including the safety codes and procedures to be followed shall be strictly in accordance with the B.I.S codal provisions & /or CPWD defined standards for Safety procedure to be followed in Construction works. Safety measures as defined in the Technical bid document would also be adhered to by the contracting agency during the course of execution of works on site. The rates quoted for all the item of works herein under shall be inclusive of the parameters of the mode of measurements to be followed as detailed out herein above as well towards the Safety measures and codes to be strictly followed and adhered to, duly mentioned above. No additional claim by the contractor whatsoever would be entertained.				
e	The rates quoted shall be inclusive of Providing Tarpaulin sheet for working in monsoon and erecting the necessary framework for the same at the desired height. The tarpaulin used for the work will be handed over to the contractor after completion of work				
1		Sq. Mts	40		
	Providing & laying External 9" thk brickwork in cement mortar 1:6, in superstructure, compound wall, steps, brick pillars of any size / shape etc. using approved conventional bricks of best available quality in the market including raking out joints or simultaneous pointing, curing, scaffolding etc complete as per the specifications and directions & instructions of the Consultant. Plastering would be paid for seperately under relevant item.				
2		Sq. Mts	60		
	Providing and erecting in position, level and plumb Internal 4.5" thk siporex walls in cement mortar 1:6 (1 cement : 6 coarse sand) etc. complete. Plastering would be paid for seperately under relevant item.				
	115mm Siporex masonry wall				
3		Cu. Mts	20		
	Providing and laying in position M-25 grade of Reinforced cement concrete including the cost of centering, shuttering, finishing and reinforcement - All works up to any level				
4					
	INTERNAL PLASTERING				
	Carefully breaking & removing the existing plaster in patches or long stretches without damaging the plaster, brickwork in the vicinity including cutting a groove first to demarcate exact area & Providing and applying one pack Bonding coat between the concrete members like RCC slabs, columns, beams, Chajjas, pardis and brickwork etc with cement mortar plaster using HACK AID PLAST or equivalent of M/s. Sunanda Speciality Coatings or equivalent. Clean the surface thoroughly to remove dust, dirt, grime, deshuttering oils and rub down to a clean surface. Apply HACK AID PLAST by spray on the entire concrete or brick surface. Provide a lean cement - sand dash coat over the same. Allow the dash coat to set for around 24 hours.	Sq. Mts	545.2		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	Further Providing and applying internal cement plaster in patches or long stretches over the removed plaster portion in C.M. 1:4 upto average 20 mm thickness, including addition of water proof chemicals of Sunanda or equivalent approved make, providing bands, drip moulds, grooves, scaffolding, curing for 7 days, application of Terraco Spray after cement plaster has dried out etc. complete.				
5	EXTERNAL CEMENT PLASTER	Sq. Mts	1030		
	Carefully breaking and removing the existing external plaster of walls, compound walls etc in patches or long stretches without damaging the plaster, brickwork in the vicinity including cutting a groove first to demarcate the exact area, including supplying, providing & erecting in position the necessary scaffolding, disposal & cating away of the debris, cleaning etc. complete & Providing and applying one pack Bonding coat between the concrete members like RCC slabs, columns, beams, Chajjas, pardis and brickwork etc with cement mortar plaster using HACK AID PLAST or equivalent of M/s. Sunanda Speciality Coatings or equivalent. Clean the surface thoroughly to remove dust, dirt, grime, deshuttering oils and rub down to a clean surface. Apply HACK AID PLAST by spray on the entire concrete or brick surface. Provide a lean cement - sand dash coat over the same. Allow the dash coat to set for around 24 hours.				
	Further to the same, Providing and applying 20-25 mm thk cement plaster in two coats with first coat in 12-15 mm thick in 1:4 C.M and second coat in 8-10 mm thick in C.M 1:4 finished in proper line and level including addition in both the coats shrinkage compensating admixture cum plasticizer-"SUNPLEX" or equivalent 330 gms pouch per 50 Kg bag of cement including SUNPLEX or equivalent mix to be in dry machine mix before addition of gauging water. The rate to include providing drip moulds, fibres, wire mesh, grooves, bands, watas at all heights including necessary curing for both the coats etc complete.				
	Note:				
	No extra payment shall be made for extra thickness of plaster carried out to match with existing surface.				
	The rate shall also include removing the existing mosaic chip kent tiles including providing & fixing the matching kent tiles whichever directed and instructed, which are removed during plastering including filling the gaps with white cement, adhesives, mortars, cleaning etc complete.				
6	PATCHWORK CONCRETE (M25)	Cu. Mts	3		
	Carefully breaking, removing and exposing the existing loose & damaged concrete in patches or long stretches by means of light chisel including supplying, providing & erecting in position the necessary scaffolding, disposal & cating away of the debris, cleaning etc. complete & providing and laying M25 concrete in patches with 10 to 20 mm downgraded aggregate as required, including providing the necessary formwork, water tight and removal after prescribed duration, compaction, curing, chipping of excess concrete and bringing it to original profile etc. complete. The rate shall include the usage of appropriate chemicals, setting agents etc of Sunanda or equivalent manufacturer etc complete.				
	Note:				
	Providing and laying R.C.C. of designed grade at all heights and levels on well compacted/sound surfaces using a mechanical mixer including dewatering, shuttering, vibrating, curing and finishing as required. Admix integral corrosion inhibitor POLYALK CP293 or equivalent @ 1% by weight of cement. The rate to include for storage, handling, transportation of materials, equipments etc using appropriate methods etc. complete.				
	1. Quoted rate shall be inclusive of additional concreting done and applying protection coat of polymer + cement (1:1 by volume) to existing reinforcement, which will not be paid seperately.				
	2. Hammers weighing more than 2 kg shall not be used. The rate shall also include the replacement of the totally corroded and damaged reinforcement steel bars wherever necessary & directed including welding, lapping, clening etc complete.				
	3. No Handmix allowed at site.				
	4. Formwork shall be approved by Engineer/Architect in charge				
7		Sq. Mts	67		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	Breaking & removing the existing surface & base course upto the required surface & levels as directed by the Consultants / Engineer-in-charge & providing & laying 9" thk Dry Rubble Soling over the existing surface / earth filling including filling the voids with murum, ramming etc complete. This item shall be provided for road work below the PCC & RCC layers only on the instructions & directions of Consultants / Engineer-in-charge. (For the Item of Plinth Protection)				
8		Sq. Mts	67		
	Providing & laying over the freshly laid Dry Rubble Soling, 4" thk Plain Cement Concrete (PCC), 1:2:4 (M15) (1 Cement : 2 Sand : 4 stone metal) using graded stone aggregate of 30mm & down including necessary formwork, laying, consolidation, finishing, curing, etc. complete as per the directions & instructions of Consultants / Engineer-in-charge. This item shall be provided for road work below the PCC & RCC layers only on the instructions & directions of Consultants / Engineer-in-charge. This item shall be provided for road work below the RCC layer only on the instructions & directions of Consultants / Engineer-in-charge. The item can be operated in patches without removing the existing PCC, which is in an acceptable condition. (For the Item of Plinth Protection)				
9					
	GAP FILLING WITH WATER PROOF CHEMICAL PASTE	Sq. Mts	60		
	Providing & applying sealants with white cement for sealing gaps & joints of various works such as external elevational box cill gaps, varying materials gaps etc including addition of appropriate water proof chemicals in white / matching cement paste as per manufacturers specifications etc complete.				
10					
	TERRACE WATERPROOFING	Sq. Mts	522		
	Terrace Waterproofing without removing the Brickbat coba with the Innovative application of FLEXIROOF PU: - Carefully removing the entire existing water proofing treatment on the terrace floor including disposal & carting away of the debris, cleaning etc to reach upto the top layer of brick bat coba, break open the existing IPS and all the other layers of water-proofing. Provide & lay a thin screed with cement mortar (1:4) so as to have a uniform level. Cure the same as per good engineering practices. Provide and apply a primer coat of FLEXIROOF – PU PRIMER or equivalent on the entire terrace surface using a soft paint brush. Shake the container well and directly apply the primer by brush. Allow to set for 30-45 minutes depending on the ambient temperature and as directed. Ensure that the surface is dry prior to the application of primer coat. After the primer has totally cured and dried, apply FLEXIROOF- PU or equivalent by brush or roller. Apply at a rate of 1kg / sqm for the first coat evenly over the primer surface and allow to set for 12 hours.				
	After ensuring that the first coat is set and cured, apply the second coat in similar manner at a rate of 0.5 kg / sqm and allow to set. While the second coat has reasonably hardened but still wet and tacky on surface, sprinkle sand over the surface to make it rough so as to provide mechanical key for the protective screed. Ensure that the sand does not get embedded in the second coat and remains on the surface. Allow the two coats of FLEXIROOF- PU or equivalent to air cure for 4-5 days before proceeding with the IPS. Lay minimum 25-40 mm thick IPS of 1:2:4 mix (1 cement : 2 sand : 4 aggregates). Admix shrinkage compensating admixture SUNPLEX (330gms pouch) or equivalent per bag of cement in this mix. Grooves may be cut at regular intervals of 2-3 m into the IPS as deemed fit and as per the directions and instructions of Architect. Cure the surface for minimum 7-10 days.				
	Consume the prepared mix within 30 minutes. Payment will be made as per the plan area. Lay small sized well soaked brick bat metal coba in cement mortar 1:3 to proper level and slope as per instructions adding "SUNPLEX" - 330 gms pouch per 50 Kg bag of cement to the mortar mix. Provide about 9" to 12" watta along the walls with cement mortar 1:3. Rate to include for making border at the junction of watta and wall plaster, ponding for seven days by closing the RW outlets and making watas etc complete to the satisfaction of the EIC.				
	The rate shall also include Providing & fixing China mosaic (broken tiles) flooring over freshly laid top surface of brick bat water proofing and IPS etc complete including clat of water proof chemicals.				
11					
	WATERPROOFING OF CHAJJAS, FINS, PADADIS ETC	Sq. Mts	187		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	Carefully removing the entire water proofing treatment on the chajjas, fins, paradis etc of any thickness including disposal & cating away of the debris, cleaning etc and Providing and applying water proofing treatment of upto any thickness with average 150mm thickness for chajjas, fins, padadis etc consisting of 12mm thick layers in 1:4 cement mortar with water proofing compound comprising of the following operations: - Two coats of "POLYALK WP" or equivalent of M/s. Sunanda Speciality Coatings Pvt. Ltd or equivalent and cement in 1:1.25 ratio, constructing and laying brick bat coba in cement mortar 1:5 including the water proofing compound upto the desired thickness as directed at an interval of 24 hours on the surfaces and extending it upto '1'0" over the side walls. Air cure the same for 24 hours and damp cure for next 4-5 days. Providing and applying single coat of bonding agent HACK-AID-PLAST or equivalent of M/s. Sunanda Speciality Coatings Pvt. Ltd or equivalent on the POLYALK WP coating by spray and providing wet on wet a chat/dash coat of 1:4 cement mortar in 12 mm thickness including all leads, lifts and laid to proper slope to drain off water entirely				
	The rate shall include watta at the junction of wall as directed and including finishing the top layer of water proofing treatment with IPS or as directed and covering the whole waterproofing treatment with ten year's guarantee on requisite stamp paper etc complete as directed by Consultant in line with the technical specifications.				
	All mortar mix to be necessarily added with "SUNPLEX" or equivalent 330 gms pouch per 50 Kg bag of cement. All coats of POLYALK WP or equivalent to be inspected using a Magnifying glass by the EIC to satisfaction to ensure pinhole free coating. Ensure mechanical mixing of "POLYALK WP" or equivalent and cement slurry using stirrers and check that cement particles do not settle down in the prepared mix. Consume the prepared mix within 30 minutes. Payment will be made as per the plan area. Lay small sized well soaked brick bat metal coba in cement mortar 1:3 to proper level and slope as per instructions adding "SUNPLEX" - 330 gms pouch per 50 Kg bag of cement to the mortar mix.				
	Fill up the joints adding SUNPLEX or equivalent 330 gms pouch per 50 Kg bag of cement to the cement mortar 1:3 mixed and finished smooth with neat cement on top so as to drain water smoothly. Provide about 9" to 12" watta along the walls with cement mortar 1:3 small brick bats. Rate to include for making border at the junction of watta and wall plaster, ponding for seven days by closing the RW outlets and making watas etc. complete to the satisfaction of the EIC.				
12	POLYMER MODIFIED MORTAR/CONCRETE	Sq. Mts	350		
	Carefully breaking & removing the existing damaged / corroded R.C.C. Columns, beam, slabs, chajjas, paradis, fins etc including disposal & cating away of the debris, cleaning etc in the patches or long stretches by means of light chisel upto 50mm depth, upto the level of reinforcement without damaging brickwork, plaster in the vicinity, including supplying, providing & erecting in position the necessary scaffolding, cleaning, disposing of debris etc complete & then providing and applying polymer modified cementatious mortar treatment upto 25 mm thk. comprising of following operations:				
	a) Reinforcement treatment coat				
	# Scrapping reinforcement with wire brush and cleaning the same from all sides by light tapping, wire brushing and emery paper.				
	# applying Rusticide Rustprime/Ruskil A or approved equivalent in one or more coats as directed as per manufacturers specification, washing with water.				
	b) Bond coat				
	# Providing & applying Polyalk Fixoprime or equivalent and Cement (1:1.25) to exposed steel bars in two coats as per manufacturer's specifications and brushable consistency for bonding old and new concrete surfaces.				
	Providing and applying bonding coat of POLYALK EP or equivalent and Cement (1:1.25) to the entire concrete surface.				
	c) Mortar application				
	Applying Polymer modified mortar/concrete treatment as per manufacturer's instructions in layers of thickness not exceeding 20 mm (applying bonding coat at every layer) upto profile of concrete in the vicinity by applying Hand pack Polymer Modified Mortar by mixing 1 part by weight of "POLYALK EP" or equivalent with 5 parts by weight of cement and 15 parts by weight of well graded sand and water to achieve the desired consistency [Sand Grading IS383, Zone II, Silt content <6%] Including curing, scaffolding, cleaning etc. complete				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	Note: If the depth of polymer modified mortar/concrete exceeds 50 mm, then quantity shall be paid by considering multiplication factor = (actual depth) / 50mm for additional thickness.				
	At a time apply mortar layer not more than 20 mm thick. The mortar should be prepared using mechanical mixers / stirrers & should be well compacted and finished using appropriate methods. The rate to include for necessary compaction with mechanical plate vibrator etc. complete to the satisfaction of the EIC.				
13	CRACK FILLING WITH PMCM	R.Mt	204		
	Carefully removing the existing plaster / mortar / loose concrete, chasing the cracks, including supplying, providing & erecting in position the necessary scaffolding, disposal & cating away of the debris, cleaning etc & sealing the separation cracks between R.C.C. and brickwork by raking, open the crack by electrically operating groove cutter as directed, insertion of 20 mm downgraded aggregates by hammering as per the instructions of the consultant, sealing with polymer modified cementitious mortar (25mm width x 25mm depth) using Polyalk EP or equivalent as per the specification of item polymer modified cementitious mortar/concrete, application of chicken mesh (200mm wide, 200mm overlapping length) along the crack by 'U' nails spaced at 300 mm c/c, including necessary breaking plaster, concrete, brickwork, washing with water, curing, cleaning etc. complete				
14	PAINTING (EXTERNAL IN ACRYLIC EMULSION PAINT)	Sq. Mts			QRO
	Scrapping the existing paint and finishes & Providing and applying 100% acrylic, heat insulating & thermal resistant, high quality, decorative external acrylic emulsion paint coating "Apex Ultima" or equivalent approved make including a priming coat on the surface and applying by brush two subsequent coats of paint of approved shade, colour, texture & design. The rate shall include erection of scaffolding at all levels, applying three coats at an interval of 4-6 hours between each coat etc all complete as per the satisfaction of the consultant / engineer-in-charge. The rate shall be inclusive of 7 years quarantee.				
	Note : No extra cost will be paid for additional coat for the purpose of finishing of surface if required.				
15	PAINTING (ENAMEL PAINT FOR ROLLING SHUTTER, GRILLS ETC)	Sq. Mts	448		
	Providing and applying synthetic enamel paint, at all heights of required shade and approved make on old work including the scrapping/cleaning and preparation of surfaces for painting, applying primer, with two or more coats of approved first quality enamel.				
16	PAINTING (INTERNAL IN ACRYLLIC EMULSION PAINT)	Sq. Mts	2002		
	Same as above but the internal paint in Acryllic Emulsion Paint including scrapping and Providing and applying Acrylic Emulsion Paint in minimum of three coats of approved make and shade on Walls, Ceiling, plywood, gypsum board, surfaces etc including all the necessary surfaces preparation. The walls / surfaces shall be cleaned, filled with putty & applied with one coat of primer so as to achieve a even surface to further apply two coats of paint of approved colour, shade, texture, design etc as per the directions to the satisfaction of the Consultant.				
17	READY MADE GFRC JALI	Sq. Mts	50		
	Providing precast 50 mm thk Glass Fibre Reinforced Concrete Jali, reinforced with mild steel wire of requisite diameter as per manufacturing standards and specifications including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc complete, excluding plastering of the jambs, sills and soffits (Plastering would be quantified under relevant item).				
18	P/F RAIN WATER DISPOSAL PVC PIPE	R.Mts	13		
	Providing & Fixing 110 mm dia PVC pipe 4 Kg/Cm2 for rain water disposal including welding of joints, Fixing with M.s Clamps as per approved design from Architect details and as directed. This also includes fixing of shoe band. The item shall be measured in RMT and nothing extra shall be paid for the fitting. Pipes shall be Finolex/Prince/Supreme make at all levels.				
19	REPAIR & REFIXING OF EXISTING PIPES	Job	1		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	Cleaning the necessary vertical drainage pipe line of the flats including checking the joints, making them water tight and seepage proof, necessary repairs to the pipelines, replacement of clamps, cleaning of the drainage chambers, removal of sludge and carting away the same upto any lead. etc. complete				
20					
A	WEATHER SHED	Sq.Mt.	49		
	Providing and fixing weather shed for the windows in 12mm polycarbonate roofing sheets including the necessary M.S square pipes, angle sections framework including J- bolts , necessary fittings and fixtures, accessories, clamps & brackets for fixing to the external main wall including applying 3 coats of enamel paint over red oxide primar ,maxing the assembly water tight , scaffolding and making good the damages during the work etc. complete				
B		Sq.Mt.	2		
	Providing & Fixing in position Fibre-board designer Chajjas as per Site Condition & also to include Lead sheet above boarding including inserting the chajja, proper supporting elements in M.S framework (Rate of M.S framework to be included in the said item) in M.S pipe supporting frame with 2 coats of enamel paint over red oxide primer to be included in the quoted rate and including providing and applying of silicon sealant or Rubber Epoxy putty of Ahura brand or equivalent make for the joints between the chajjas, elements, frame and masonry &/or any other elements as per site condition etc complete.				
21					
	CORROSION PROTECTION TO STEEL WITH SACRIFICIAL ANODE				
	Clean the existing steel surface by scrubbing, chipping etc. so as to remove all the existing loose rust. Using cotton waste swab apply "RUSTICIDE" after 24 hours remove the free / loose rust particles by simple dusting with brush, etc. complete to the satisfaction of the EIC.	Nos	20		
	Providing and fixing in position zinc based sacrificial anode- SUNSHILED or equivalent over the cleaned steel surface. Fixing to be done using anode connectors or tack welding to steel surface. The rate includes cleaning, applying, fixing in position, welding at all heights etc. complete to the satisfaction of the EIC.				
22					
	MICRO CONCRETE	Kgs	2500		
	Micro Concrete - Providing and laying M-35 Grade of 75 mm thk. prepacked dual shrinkage compensated polymer modified microconcrete like Master Emaco S346 of BASF /Renderoc LA55 of Fosroc/ Sikarep Microcrete -4 of Sika or equivalent material, Pouring in narrow location for column, beam, slab. (Rate includes scaffolding,shuttering with the marine plywood/M.S. sheets/plates to be fixed in true line and level as required as per site condition. materials, labour etc. Measurement on the basis of actual consumption of micro concret on square feet area)				
	The rate is inclusive of chipping of the loose concrete and its disposal away from the site. (The rate should include 8a,b,c and 10) AVERAGE THICKNESS 75 MM (Polymer treatment for damaged R.C.C column/ beams/ slabs/ chajja etc. only upto 50 mm thicknes and microconcrete for entire thickness of damaged area upto only 75 mm- 100 mm), core cutting, bond coatetc complete the work as per instruction of the architect / Bank's Engineer.				
23					
	Providing and fixing in position - M.S / H.Y.S.D / T.M.T bar reinforcement of various diamaters for slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, paradis, coping, fins, arches etc as per detailed designs, drawings and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required etc complete. The item shall also include anchoring reinforcement bar in existing RCC member in holes of minimum 10d depth for 8 to 12 mm dia. bars and grouting in position with lacfix (fosroc), including drilling of holes, cleaning etc. complete.	Tonnes	3		
	With HYSD bars / Tor steel bars conforming to IS1786 (TMT Steel)				
24					
	WATERPROOFING WITH ELASTOMERIC COATING ON EXTERNAL WALLS	Sq.Mt.	1206		

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
	Clean the receiving plastered surface of all loose particles, dirt & rub down to original hard surface. Inspect for cracks if any, and clean and moisten them. Define the crack with sharp edge tool. Providing and applying ready to use acrylic polymeric non-shrink auto-suction putty – "POLYFILL-AR" or equivalent of M/s. Sunanda Speciality Coatings Pvt. Ltd. or equivalent on the crack and finish at all heights, level etc. complete. After 24 hours inspect and if required as a result of auto-suction, provide another filling over the same. Provide and apply a coat of POLYALK WP or equivalent & cement in 1:1 proportion by weight in slurry form on the crackfilled area				
25	JACKETTING				
	Providing & fixing shear keys upto 12 mm dia and 175 mm long bent to required shape at regular intervals including drilling holes in concrete, dipping ends in epoxy, fixing etc complete for column jacketting etc as directed.	Cu.Mts	35		
	Providing and laying ready mixed Reinforced cement concrete of M-35 grade for jacketting using approved plasticizer etc, including waterproof shuttering, mixing, pouring, temping, consolidation, curing, chemicals & compounds of approved make etc complete. Reinforcement shall be paid for seperately under relevant item.				
26	FIBRE WRAPPING TECHNIQUE	Sq. Mts	72		
	Preparing the surface to be wrapped, free from fins, protrusions, depressions, spalls, cracks, moisture and honeycombed / segregated concrete patches. Rounding off the corners of the elements around which the high strength composite system is to be wrapped to a minimum radius of 20 mm, by mechanical or other approved means including preparing the surface with a bedding coat in cement mortar as required to form rounded edges to receive pre-cut fabric.				
	Supplying & Installing Fibrewrap system in confrmance to the approved manufacturers specifications and as per the design, fibre orientation, number of layers as detailed in approved drawings or as directed by the Consultant or Engineer-in-charge in accordance with the manufacturers specifications and without any appreciable dead loads on the structure in accordance with ACI 440 code for structural strengthening of RCC elements etc complete.				
	Providing and installing approved, non intrusive, impervious and wet wrapping type high strength composite wrapping system comprising of bi-directional fabric reinforcement and high strength fibres interwoven in the desired orientation & direction, priming the prepared surface with fabric reinforcement saturating the fabric with approved two component high strength saturate resin that is compatible to the fabric reinforcement and wrapping the prepared surface in accordance to the designed main fibre orientation including removing / drawing out the entrapped air etc complete as per the manufacturers specifications.				
	Mode of Measurements for High Strength Composite Wrapping System: -				
	The High strength composite wrapping system shall be measured in terms of the surface area per layer of the composite material installed onto the RCC element. Laps provided in the main and secondary directions shall additionally be considered for measurements. No allowances shall be considered for wastages in the reinforcement fabric and epoxy resins as the same shall be included in the rate quoted. The rate shall also include supplying, providing & erecting in position the necessary scaffolding, disposal & cating away of the debris, cleaning etc. complete.				
	415 GSM (45/45) Bi-directional Glass fiber sheet for RCC elements.				
27	HACK AID PLASTER FOR OLD RCC SURFACE	Sq. Mts			QRO
	Clean the surface with water jet thoroughly to remove dirt, loose, particles etc. Moisten the surface with water. On the entire clean moist surface, apply a coat of HACK AID PLAST by spray. When surface becomes tacky, apply a chat / dash-coat of cement mortar say in 10 minutes. Tacky period may vary depending on external atmospheric conditions, saturation degree of substrate etc. Check and ensure that the surface is tacky prior to application. Plaster the surface or place the concrete in the usual manner after setting of the chat/ dash coat. Complete as specified by company and directed by Architect / Bank's Engineer.				
28	RCC WORKS IN 1:2:4	Cu.Mts	2		
	Providing, hoisting and fixing reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills, fins, padadis & other RCC elements and the like, including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size.				

BOQ FOR THE PROPOSED EXTERNAL CIVIL REPAIRS & RESTORATION WORKS AT RECEPTION BUILDING OF STATE BANK OF INDIA, G.I.T.C, CBD BELAPUR, NAVI-MUMBAI.					
SL.No	DESCRIPTION OF ITEM	UNIT	QTY	Rate	Amount
29	GROUTING	Nos	80		
	Drill the holes of 12mm dia for depth upto 30mm to 50mm inside the damaged or honey combed concrete areas at spacing as instructed by consultants. Clean the holes by blast of air or by jet of water. Insert the PVC nipples into pre drilled holes and seal peripherally by "M Seal". After 24 hours, inject the "Polymer Cementaceous slurry mix" in the proportion as under into the nipples, at a pressure of 2 kg / Sq. cm using gum pumps of capacity not less than 30 PSI in the ratio of (1 kg polymer EP: 3 KG cement: 2 litres of water). After two days of curing, cut the nipples and seal it with polymer modified mortar.				
30	ANTI-TERMITE TREATMENT TO THE BUILDINGS (BUILT-UP AREA)	Sq. Mts	500		
	Supplying Aldrex 30 E.C.of NOCIL or equivalent emulsifiable concentrate conforming to IS-1307 at site & injecting the same with dilution as per manufacturer's specification for post-constructional anti-termite treatment and erecting a chemical barrier under / around the column pits, walls, trenches, basements, excavation top surface of plinth filling, exposed surfaces etc. as directed at site all complete.				
31		Sq.Mts	16		
	Carrying out repairs to the rolling shutter by providing, welding & fixing in position frames, M.S sections, floor channel, rails, sliders etc including providing and fixing in position new frames, sections and accessories etc complete wherever damaged. The rate for enamel painting would be quantified under relevant item				
				Rs.	
	Total B for ELECTRICAL SUB-STATION BUILDING				
				Rs.	
	Total A+ Total B				