

BOQ For Structural Strengthening Work at PSB Bank, Kashmiri Gate ,Delhi

S. No	Description	Approx. Area	Unit	Rate	Amount
1.	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5m centre to centre, horizontal & Vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S.- clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety feature for the workmen etc. complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding	150	Sq.Mtr		
2	Providing securing and fixing the continuous vertical curtain / covering on the outer periphery of the scaffolding with thick gunny cloth / fine HDPE mesh /polypropylene or with other approved material for complete prevention from dust / mortar / damages etc., taking all measures for prevention of scattering of the falling debris, construction materials, mortar etc. including continuous repairs & maintenance of screening / curtain for keeping it in good condition till removal of the scaffolding.	100	Sq.Mtr		
3.	Chipping of unsound/weak concrete / Plaster material from slabs, beams, columns ,Walls etc. with hammer chipping machine and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge 25 mm average thickness	150	Sq.Mtr		
4.	Supplying & Providing & fixing steel reinforcement as per drawing	300	Kg.		
5.	Cleaning reinforcement of total rust using alkaline chemical rust remover with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry complete including passive coating over the reinforcement. surface area shall be measured for payment)	150	Sq.Mtr		
6.	Providing, mixing and applying over reinforcement bars zinc anti rust agent as per specification and direction of Engineer-in-charge (Dosage/coverage as per the recommendation of manufacturer). Surface area of bars shall be measured for payment	150	Sq.Mtr		
7	Providing and inserting grouting PVC nipples and 30mm to 40mm depth or half the thickness of the member whichever is less into honeycombed concrete / normal concrete i/c drilling of holes, inserting nipples and sealing the gap around nipples with epoxy putty etc. complete, as per directions of Engineer-in-charge.	750	Nos.		
8.	Providing and injecting cement slurry with non shrink compound in honeycombed / segregated area by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per specification. (This item shall be paid on basis of actual consumption of cement in kgs.) using non-shrinkage compound / admixture as per specification (Pidilite / BASF 1 Fosroc/ Cico or equivalent make).	225	Kgs		

9.	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of Plaster as per manufacturers specifications and direction of Engineer-in-charge complete in all respects including carriage of materials in all leads and lifts. Acrylic adhesive (1 kg. Cover 1 to 1.5 sqm) with polymer used shall have a minimum solid polymer content of 15% by weight of cement.	150	Sq.Mtr		
10.	Providing, mixing and applying polymer modified cement mortar (immediately after the application of the cement based polymer modified bonding slurry coats as per specifications) in layers 6 to 10 mm thick including trowelling with wooden tools etc. complete as per specifications and directions of Engineer-in-charge, including all materials, labour, tools, plants as approved by Engineer-in-charge etc. complete. With cement sand mortar 1:3 (1 cement : 3 graded coarse sand) with acrylic bonding coat of approved brand only, 10% by weight of cement. (upto 25mm)	150	Sq.Mtr		
11.	Supplying and providing nonmetallic composite Carbon fiber Low Modulus Precured Tyfo 2UC55-M CFRP Strip of 50 mm wide, 1.4mm thick including surface preparation by Grinding /moulding concrete, cleaning it with wire brush, removing oil, laitance etc. if present, rounding	75	R.Mtr		
12.	Supplying and applying nonmetallic composite Carbon fiber wrapping system Tyfo SCH41 comprising of unidirectional fiber sheet 644 GSM (having dry fibre properties, modulus of elasticity not less than 230 GPa, tensile strength not less then 3700 MPa and density not less than 1.80 gm/cm3) and compatible saturant, including surface preparation by	75	Sq.Mtr		
13.	Providing shear anchor of 10mm dia and 100mm long of high strength carbon fibre mesh with filling of hole with EPDXY, removing/ drawing out of the entrapped air etc. from the drilled hole all complete as per manufacture's specifications and directions of the Engineer-in-Charge. It shall include labour for mixing EPDXY resin, saturating the anchor with EPDXY, drilling the RCC/PSC members and inserting the saturated anchor inside the drilled hole.	250	Nos.		
14.	15mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand).	150	Sq.Mtr		
15.	Breaking, chiseling of old water proofingtreatment along with tile/coba/mud phaska and exposing the slab with wire brushes and removal of dust dirt and loose substrates foreign particles and any other material.	150	Sq.Mtr		

16	<p>Providing and Applying water proofing coating system over horizontal and vertical surface on roof by carrying out :</p> <p>1) Single coat of efflorescence resistant penetrating primer (Prime seal of Dr. fixit or equivalent) over cleaned roof surface to provide priming surface</p> <p>2) Single coat of heavy duty reinforced trafficable water proofing coating compound (New Coat of Dr. fixit or equivalent) over priming surface to give base course,</p> <p>3) 45 gsm glass fiber mesh evenly over the base course to make the waterproofing system foot trafficable</p> <p>4) Two coats of heavy duty reinforced trafficable water proofing coating compound (New Coat of Dr. fixit or equivalent) over fiber mesh to give wearing / finished course.</p> <p>The cost of this work includes cost of providing and applying of priming coat, fiber mesh and 3 coats of water proofing compound including finishes, Air curing, 07 days ponding, etc. complete as per manufacturer's specification and instruction of Engineering In Charge.</p>	150	Sq.Mtr		
	Miscellaneous				
17	Providing & laying suitable sprinkling of clean sand particle for protecting the treated surface and holding of finishing plaster / paint wherever required.	75	Sq.Mtr		
18	P/A 15 mm. thick smooth plaster with 1:4 C.M. at any level upto (G+2)incl. cleaning of surface, curing, scaffolding, mixing etc. complete with all tools & tackles in two coats.	150	Sq.Mtr		
19	Disposal of moorum/building rubbish/malba/similar unserviceable, dismantled or waste material by mechanical transport including loading, transporting, unloading to approved municipal dumping ground for lead upto 10 km for all lifts, complete as per directions of Engineer-in-charge.	04	Cum		
20	Micro Concrete	2400 Approx.	Kgs.		
21	Steel Bar Rebar 16mm (Steel Rebaring)	80 Approx.	Nos.		
22	Share Connector 08mm	120 Approx.	Nos.		
	Toilet Bathroom Area				
23	Apply and supply new rough plaster mix with water proofing chemical LW+	500 Approx.	Sq.Ft		
24	Apply and supply all wall area fixing the tiles	500 Approx.	Sq.Ft		
	MS Channel Pillar				
25	MS Pillar (Length 12' X200mm) with 2 MS Plates (Thickness 20mm X 1.5'X1.5') up & down with Complete Fitting	01	Nos		
26	<p>Injection Grouting System</p> <p>Inject and Fixing N.R.V Packer</p> <p>Grout to Chemical by Pressure Electrical pump</p>	1500	NOS		
27	<p>Epoxy chemical by Sika LP-55</p> <p>Make of company Sika</p> <p>Grout to Chemical by Pressure Electrical pump</p>	180	KGS		
SUB TOTAL					