

<b>Dated :</b>					
<b>Name of Work: BOQ FOR TERRACE REPAIR AND RENOVATION WORK OF UCO BANK ,ZONAL OFFICE, NEW DELHI, 110001</b>					
<b>ABSTRACT SHEET</b>					
<b>S.NO</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATES</b>	<b>AMOUNT</b>
<b>A</b>	<b>DISMANTLING WORK</b>				
1	Work of dismantling to be done in connaught place in a multi-storied building, contractors are advised to visit the site before quoting. Item includes debris to be carried from the heights & floors to ground and separated into serviceable and unserviceable material. Item also includes all liasioning and permission from, NDMC and local authorities to be in contactor scope of work. Nothing extra will be paid for work in night or odd hours and to work in connaught place area.				
1.01	Demolishing bricks work in cement mortal including precast cemented jali manually / by mechanical means including stacking of serviceable and unserviceable material separately on ground floor within the premises as per directions of Engineer-in-charge.	Cum	1		
1.04	Dismantling C.I. or asbestos rain water/ all vertical pipes in shaft or on wall with fittings and clamps including stacking of serviceable and unserviceable materials seperately on ground floor within the premises as per directions of Engineer-in- charges.	Rmt	10		
10.5	Dismantling C.I. pipes 150mm to 300mm including excavation and refilling trenches after taking out the pipes, manually / by mechanical means breaking lead caulked joints, melting of lead and making into blocks and stacking of serviceable and unserviceable materials seperately on ground floor with in the premises as per directions of Engineer-in-charge.	Rmt	5		
1.06	Removing/chisel old plaster or skirting of any thickness raking out joints and clearing the surface for plaster on all floor including stacking of unserviceable material on ground floor within the premises as per directions of Engineer-in-charge	Sqm	50		
1.07	Demolishing R.C.C. work by mechanical means including cutting reinforcement bars and stacking of serviceable and unserviceable materials separately on ground floor with the premises as per direction of Engineer-in- charge	Cum	1		
1.08	Demolishing cement concrete/removing existing filling in the sunken area manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	Cum	1		
1.09	Dismantling tile/Stone/Cementatious flooring work in floors/wall of any thickness with cement mortar including stacking at ground floor & disposal of unserviceable material as per direction of Engineer-in-charge.	Sqm	10		
1.10	Disposal of building rubbish/ malba/ similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in- charge, to any distance beyond municipal limits as per MCD/NDMC norms and lifting from all floors & leads as required. No additional claim will be accepted at any cost. Item will be measured in trips of fully filled trolly approx. 120 cu.ft. or 3.4 cumec.	Job	1		
<b>TOTAL OF DISMANTALLING WORK(A)</b>					
<b>B</b>	<b>CIVIL WORK</b>				
1	Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] including the cost of centering and shuttering at edges and corners etc. as directed by Engineer in-Charge Rates shall include the providing necessary ground wires etc. The levelling gauges, if used, shall be paid for separately. Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/ tapping with a blunt metal instrument. 50mm thick in Grade M 25 with cement content not less than 330 kg per cum	Sqm	1		
2	Providing and apply polymer modified mortar/concrete, after ensuring dryness of the passivating coats and full surface preparation of exposed concrete, structural repairs shall be carried out in coats for maximum thickness upto 20mm per coat (applying bonding coat at every layer) upto profile of concrete in the vicinity by applying prepacked "POLYMER MODIFIED MORTAR" in the mix proportion as under : 1 Kg of POLYALK EP or equivalent with 5Kgs by weight of cement 15Kg by weight of Graded Quartz and with addition of required quantity of water to get desired consistancy (Sand Grading IS383, Zone II, Silt content <6%) Quartz sand gradation as under: (8 X 16) 2mm to 1mm 8Kg (16 X 30) 1mm to 0.5mm 4Kg (30 X 80) 0.5mm to 0.15mm 3Kg After polymer modified mortar surface shall be left undisturbed for atmosphere curing for 48 hours. Note : If the depth of polymer modified mortar/concrete exceed 50mm depth, then quantity shall be paid by considering multiplication factor = Actual depth/50mm for additional thickness.				

3	25mm average thickness	Sqm	15		
4	50mm average thickness in 3 layer	Sqm	5		
5	Supply and laying 18 mm thick cement plaster with adding SBR polymer Ultratech/SIKA/Dr. Fixit bonding agent and waterproofing liquid 2% of weight of cement in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	Sqm	10		
6	Providing and fixing hard drawn steel wire fabric of size 75 x25 mm mesh or other suitable size wire mesh to be fixed & firmly anchored to the concrete surface by means of "L" shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool & plants as approved by Engineer- in-charge.	Sqm	50		
7	Providing and constructing brick masonry of any thickness for any shapes, fins, projections, in shafts using selected quality burnt clay FPS bricks of class designation 7.5 laid in cement mortar 1:6 (1 cement:6 coarse sand) mix, joints finished, flush/raked to 6mm depth including scaffolding, curing complete as per specification and drawing or as per the direction of Engineer in-charge.	Cum	1		
8	Providing and constructing brick masonry of Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level for Cement mortar 1:4 (1 cement :4 coarse sand) or as per the direction of Engineer-in-charge.	Sqm	2		
9	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry	Sqm	2		
10	<b>Water proofing on WALL &amp; FLOOR</b> Providing & applying polymer modified, flexible cementitious negative side waterproofing coating with elastic water proofing polymers on sunken portions in three coats @14.35 kg /10 Sqm. one coat of self priming of cementitious waterproofing polymer (dilution with water in the ratio of 1:1) and two coats of cementitious water proofing polymer (dilution with water in the ratio of 3:1 ) after scrapping and properly cleaning the surface to remove pre- existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-charge.	Sqm	80		
11	Water proofing on Terrace with providing and laying APP (Atactic Polypropylene Polymer) Clean existing surface with wire brush, blower and water. Open out the small cracks & filling with cement + Grout + Polymer or with PU sealant as required Patch work repair by cement mortar as and when required. Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the	Sqm	10		
	Providing and applying rounded fillets at the corners of slab and walls, slab and columns and all junctions.				
	Measurement : Exposed finished area shall be measured and paid				
	Work must be done through specialised agencies/authorised applicators of and furnishing guarantee for 10 years on suitable value stamp paper.				
12	Laying protective screed of average 50mm thickness with cement concrete of 1:1.5:3 (1 Cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size ) with desired slope containing SBR polymer with a broom finish, well compacted, curing for 7 days etc. complete. The screed shall be laid in panels with 10mm wide construction joint as per specifications and directions of Engineer-in-charge. The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by the 150mm size cube crushing strength at the end of 28 days to be not less than 20 N/Sqmm2).	Cum	1		
	Removing and cleaning of waste material , tree, dust debris etc from terrace debris to be carried from the heights & floors to ground and separated into serviceable and unserviceable material. Debris to be carried from the heights & floors to ground at municipal dumping yard.	Job	1		

Design, Manufacturing, Supply, Erection including Civil works of fixing MS frame shade of 75*75*3mm after 2 coat of primer and black paint both with 3mm fibre sheet All side cladding/ roof sheets shall be fitted in such a way that they can be removed at any point of time.. Erection of trusses is true to line and level and aligned properly, as per drawing and instruction of Engineer In- charge. All accessories like G.I. bolts, EPDM washers and nuts complete from reputed manufacturer shall be included in the scope. All bolts, nuts (IS 4759) shall be galvanised (hot dip) min. 270gm/m2. Galvanised spring/ plain washer shall be as per IS 1573.Roof and Side Cladding with Galvalume Sheet confirming to ASTM A 792 of thickness 0.45 mm with galvalume coating not less than 150gm/Sq.m (both side mass) of minimum yield strength 550 Mpa (min) of approved make. Translucent (Poly Carbonate) sheet of approved make shall be provided for alternative bays (10% of the sheeting area). Both roof and side cladding are to be made "Water Tight.	Sqm	320		
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<b>TOTAL OF CIVIL WORK (B)</b>					
<b>C</b>	<b>ELECTRICAL WORK</b>				
6	Removing & Refixing of existing glow sign board , wiring, switches, and all other equipments without any damage price including all type wire with all necessities accessories. and other or as per direction of Engineer-in-charge.	Job	0		
7	Removing of AC OD (Out Door) unit and refixing of AC OD unit during external repairing work as per direction of Engineer-in-charge.	Each	0		
<b>TOTAL OF ELECTRICAL WORK( C )</b>					
<b>D</b>	<b>PLUMBING ACCESSORIES</b>				
6	Soil Waste and Rain Water PVC Pipe Type-B class Providing and fixing PVC pipes on walls/floor including fixing the joints with specialized jointing solutions/ PVC solvent and fixed with G.I. clamps including cutting holes and making good the walls etc. items includes providing and fixing pipes fittings special such as door bend, horn bend, plain bend, cowls, sockets, door "T", "Y" junctions (both singles and double), nehani trape, P & S trape etc. complete make Supreme as directed of Engineer-in- charge.				
6.1	For 100mm pipes	Rmt	0		
6.2	For 150mm pipes	Rmt	0		
9	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 455x610 mm and 45 cm deep for single pipe line With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	0		
10	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	0		
11	Providing and fixing square - mouth S.W gully trap class SP-1 complete with C.I. grating bricks masonry chamber with water tight C.I. cover with frame of 300X300mm size ( inside ) the weight of cover to be not less than 4.50kg and frame to be not than 2.70kg as per standard design, with sewer bricks conforming to IS :4885.	Each	4		
<b>TOTAL OF PLUMBING ACCESSORIES( D)</b>					
<b>SUMMARY</b>					
<b>A</b>	<b>DISMANTLING WORK</b>				
<b>B</b>	<b>CIVIL WORK</b>				
<b>C</b>	<b>ELECTRICAL WORK</b>				
<b>D</b>	<b>PLUMBING WORK</b>				
<b>TOTAL (A+B+C+D+E)</b>					
<b>GST (.....%)</b>					
<b>GRAND TOTAL</b>					
<b>GST extra as applicable</b>					