

**WORK OF PERMANENT REPAIR OF LEAKAGE INCLUDING  
DISMANTLING EXISTING AND NEW WORK OF BRICKBAT  
COBA WATERPROOFING AND SEALANT WORK  
AT HLL BHAVAN KHARGHAR MUMBAI.**

**Volume- IV  
BILL OF QUANTITIES**

**Tender No: HLL/IDD/CHN/19 -20/034**

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BILL OF QUANTITIES						
Tender No: HLL/IDD/CHN/19-20/034 dt. 20.03.2020						
NAME OF WORK: WORK OF PERMANENT REPAIR OF LEAKAGE INCLUDING DISMANTLING EXISTING AND NEW WORK OF BRICKBAT COBA WATERPROOFING AND SEALANT WORK AT HLL BHAVAN KHARGHAR MUMBAI.						
S.No.	Description	Unit	Quantity	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
1	Demolishing terrace roof surface water proofing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	Sqm	265.990			
2	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.(c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645	Sqm	578.850			

	and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test.“All above operations to be done in order and as directed and specified by the Engineer-in-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.					
3	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing waterproofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.	Sqm	314.880			
4	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 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chollies, M.S. clamps and M.S. staircase system in the	Sqm	2104.200			

	<p>scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .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 features 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.</p> <p>Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done.</p>					
5	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	Sqm	312.860			
6	Cement plaster skirting upto 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement 18mm thick & finished with china mosaic chips	Sqm	104.076			
7	Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5parts crystalline mortar : 1 part water) for the treatment of faulty construction joints, cracks, tie rod holes and spalled & honeycombed surface of RCC underground structures like basement, water tanks, bridge deck etc. to ensure water tightness. The crystallie mortar shall conform to the EN 1504-3 having compressive	Rm	60.000			

	<p>strength Class R4 &gt; 45 MPa and adhesive bond strength Class R3 &gt; 1.5 MPa. The work shall be carried out all complete as per specification and the direction of the Engineer-In-Charge.</p> <p>For sealing cracks and faulty construction joints, routed out/making U-shape groove size 25x25mm and then primed the area with integral crystalline slurry @0.05kg/running metre and while the surface is tacky filled the groove upto surface with crystalline mortar @1.50kg/running metre. Once mortar is touch dry then finally applied two coats of integral crystalline slurry @0.05kg/running metre per coat.</p>					
8	<p>Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved &amp; specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction &amp; longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately. 16.43.1 Cement concrete prepared with batch mixing machine</p>	Cum	26.397			

9	Providing & Applying weather proof sealant on outer joints of external structural cladding and ACP of approved make confirming to IS & directed by Engineer-in-charge. Sealant 25mmx10mm at joints	Rm	2846.280		
<b>Total Amount</b>					
<b>Add GST</b>					
<b>Grand Total Amount incl. of GST in Figures</b>					
<b>Grand total amount in words: Rupees</b>					

**END OF VOLUME - IV**