

<b>BILL OF QUANTITIES FOR WATER PROOFING WORKS OF ROOF TERRACE</b>						
<b>AT STATE BANK OF INDIA NAYA NANGAL BRANCH, PUNJAB.</b>						
<b>S.N</b>	<b>ITEM</b>	<b>QTY</b>	<b>UNIT</b>	<b>RATE</b>	<b>AMOUNT</b>	
<b>1</b>	<b>TERRACING WORKS</b>					
<b>A</b>	<b>Surface Preparation &amp; Pointing</b>					
	Regrading terracing of mud phaska covered with tiles or brick, in cement mortar by dismantling tiles or bricks, removing mud plaster, Cleaning of surface from unwanted vegetation and preparing the surface of mud phaska to proper slope, relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement : 3 fine sand), including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground ( <b><i>the cost of the new tiles or brick is included</i></b> ), all complete as per direction of Engineer-in-Charge.The work also includes Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for	176	Sq.mt			
<b>B</b>	<b>Dismantling of gola 75x75 mm</b>					
	The work include dismantling of existing gola and disposal of malba including claning of site.	118.00	Rmt			
<b>C</b>	<b>Waterproofing: APPROVED MAKES : Dr. Fixit / SIKA / FOSROC</b>					
	<b><i>SURFACE PREPARATION</i></b> Clean the entire roof with Pressure water jet to remove the unwanted dust, loose material, oil, or any other material which may impair adhesion of the material. Surface must be cleaned and dried properly so that any cracks on the substrate can be visible. Concrete substrate to be cleaned up to exposed sound concrete cover, remove dust, laitance etc , which may impair adhesion of the material. <b><i>Mark the area having cracks</i></b> All surface cracks up to 1-2 mm wide should be filled with Dr. Fixit Roofseal using a brush. Add a coat on the slab on both sides of the crack, up to a distance of 100 mm around it. Cracks more than 1-2 mm should be widen by making V-groove and repaired with PMM (Polymer Modified Mortar) using Dr. Fixit Pidicrete URP 10% by weight of cement. All joints of vertical up stand should have 50 x 50 mm angle fillets prepared with sand –cement mortar; mixed with Dr. Fixit Pidicrete URP. Curing to be provided to the angle fillets and repaired surface as per standard methodology before application of coating. Apply one coat of Dr. Fixit Roofseal on the angle fillet area and put 45 gsm Glass fiber mesh 200 mm on both the sides of the fillet to make the junction and corner's receptacle to movements. The same treatment should be carried out for Drain outlets.					
	<b><i>Priming</i></b> Dr. Fixit Primeseal Primer to be applied as per manufacturer's guidelines. Dr. Fixit Primeseal diluted in 2:1 ratio with water (2 parts Primeseal diluted with 1 part water). Maintain the spreading rate of 8-10 sq mtr per litre. Allow it to dry for 4-6 hrs. OR Dr. Fixit Roofseal Top Coat may be applied by roller, brush. Apply a coat of Dr. Fixit Roofseal Top Coat (diluted with water in the ratio 2:1) as Self-Priming - 9 - 10 Sq.mtr / litre.					
	<b><i>Application</i></b> Sprinkle some water over the roof just before application of Dr. Fixit Roofseal. Apply 2 coats Dr. Fixit Roofseal at 0.75 ltrs / m <sup>2</sup> / coat, at an interval of 12 hrs between the coats and allow drying completely. A layer of suitable reinforcing fabric (Glass fiber) should be incorporated within the first coat. 2nd coat to be applied in a direction perpendicular to the 1st coat.					

S.N	ITEM	QTY	UNIT	RATE	AMOUNT
		650	Sq.mt		
	<i>Water proofing test with filling water on roof top for 2 days has to de done before handing over the site.</i>				
	<b><i>Guarantee of waterproofing for a period of 5 years ( from approved manufactueres i.e. SIKA/FOSROC/Dr.FIXIT or company's approved applicator) from the date of completion of the work in the specific areas. Any leakages occurring during this period due to defective material or bad workmanship shall be rectified free of cost.</i></b>				
	<b>D</b> 15 mm cement plaster on the rough side of single or half brick wall of mix:				
	1:4 (1 cement: 4 fine sand)	140	Sq.mt		
	<b>E</b> Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	30	Rmt		
	<b>TOTAL</b>				
	<b>IN WORDS:</b>				

Signature of Contractor

S.N	ITEM	QTY	UNIT	RATE	AMOUNT
i	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:				
	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.				
	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 (1 cement :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.				
	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 and approved by Engineerin-charge.				
	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 Engineerin-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.				
	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 :				
ii	<b>22.7.1</b> With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	526.00	Sqmt	1398.50	7,35,611
	Including removal of Brick tile terracing and removal of same from site.				

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