

**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE**  
**JADAVPUR, KOLKATA- 700 032**

**PROPOSED REPAIRING & ROOF WATER PROOFING AT ROOF TOP OF THE MAIN BUILDING, IACS.**

<b><u>SL.NO.</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>UNIT</u></b>	<b><u>QUTY.</u></b>	<b><u>RATE(RS.)</u></b>	<b><u>AMOUNT(RS.)</u></b>
1.	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within campus up to 150mm. thick.	Cum.	10		
2.	Hire & labour charges for shuttering with centering & necessary staging upto 4m. using approved stout props & thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing & striking out after completion of works. (upto roof of first floor) 25mm to 30mm shuttering without staging.	Sqm.	50		
3.	Cleaning the concrete surface by removing dirt and debris, marking defective locations and removing loose concrete by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site to the designated location etc. all complete as per direction of the E-I-C.	Sqm.	40		
4.	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time as per manufacturers specification.(0.4kg/Sqm of concrete surface) as per approved by the E-I-C.	Sqm.	40		
5.	Cement concrete (4:2:1) with graded stone chips 6mm. size with hexagonal or square mesh wire netting I.R.C. fabric mesh or X.P.M. fitted and fixed after tying the existing reinforcement on concrete without distributing the same and with proper scrapping and cleaning the reinforcement and disturbed concrete with wire brush etc. after applying a coat of cement including the cost of wire netting, I.R.C. or X.P.M. and cost of all handling and scaffolding complete as per direction of E.I.C. 37.5mm. thick.	Sqm.	40		
6.	Ordinary cement concrete (mix 3:1.5:1) M-20 with graded stone chips (12mm. down excluding shuttering & reinforcement. Any floor as per IS 456-2000. Pakur variety	Cum	10		
7.	Stripping off worn out plaster/chipping and raking out joints of walls ceiling etc. upto any height and in any floor including removing rubbish and stacking any where within the compound as directed.	Sqm.	800		

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8.	Applying two coats of Mastercrete M-81 (Acrylic co-polymer) or equivalent acrylic latex mixed with cement in the ratio of 1:2 by means of brush two coats at an interval of 12 hours each, curing the coating for three(3) days.	Sqm.	800		
9.	Plaster(to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface, including throating, nosing and drip course where necessary. With 4:1 cement mortar, 20mm.thick	Sqm.	800		
10.	Providing and laying on well prepared clean and dry concrete/ plastered surface high performance, heavy duty torched on polymeric water proofing membrane MOPLY-FP-3.5 to 3.8mm.(5kg/Sqm) of Texsa make/ Proofex Torchseal 4P of Fosroc make/ Super ThermoLay APP of STP make or Equivalent APP mineral finish membrane approved by the Engg. In-Charge of approved colour, heavy duty APP polymer modified plastemeric bituminous membrane with polyester fibre reinforcement thermo fusible film on bottom sides and self protecting natural mineral finish on top, laid on a coat of primer EMUFAL –TE for TEXSA @ 0.30 ltr./Sqm/ Proofex Torchseal Primer for Fosroc product or approved equivalent including of Providing 90 to 100mm overlapping & sealing the joints and raising the treatment up to 150 to 300mm as required over the parapet wall and taking the same with in the parapet wall & closing it with concrete/plaster mixed with Mastercrete M-81 & integral water proofing admixture. The minimum weight of the membrane shall be 4.5kg/Sqm. finishing and mending good all damages etc. all complete as per direction of the E-I-C.	Sqm.	3700		
11.	Protective & decorative acrylic exterior emulsion paint of approved quality, as per manufacture's specification and as per direction of EIC to be applied over acrylic primer as required. The rate includes cost of materials, labour, scaffolding & all incidental charges and including the cost of primer. Super protective 100% acrylic emulsion.	Sqm.	1500		
12.	Dismantling all types of masonry excepting cement concrete plain of reinforced, stacking serviceable materials at site & removing rubbish as directed within a lead of 75m.	Cum.	10		
13.	Labour charges for cutting 'V' or 'U' groove minimum 30mm deep and removing rubbish within campus as directed.	R-M	100		
14.	Applying Polysulphide sealant with " Techseal Sealant (RDL 940/941) product" of Choksey Chemicals Pvt.Ltd. as per manufacturer specification with proper				

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	cutting and removing dirt, dust, backup materials with extruded polystyrene or fixing the same with compressible polyethylene or approved equivalent as a back up materials to control depth of sealant as 50mm(w) x 25mm(d) with proper two coats priming (RDL 942/947/952/948) at interval of 30 minutes after completion of first coat and used masking tape at the side edges such as self-adhesive polyethylene for protecting the face edges of the joint. After completion of the above procedure apply the mixed gun grade/pour Grade compound by means of a gun/spatula or by filling into a plastic cartridge which is then placed into the hand held caulking gun into the joint and after tooling the masking tape should be removed immediately and used soap or cleaning solution for smoothen the sealant surface. Necessary scaffolding, staging etc. all complete as per direction of the E-I-C. (For, vertical & Horizontal surface up to 2 <sup>nd</sup> floor roof)	R-M		75	
15.	Applying polymeric concrete after necessary chase cutting at outside crack wall at 2 <sup>nd</sup> floor level and finishing the same top part with 3:1 cement sand mortar, curing, necessary scaffolding etc. all complete as per direction of the E-I-C.	R-M		125	
16.	Painting with ready mixed red lead paint of approved make and brand. one coat.	Sqm.		250	
17.	Painting with superior quality aluminum paint of approved make and brand including smoothening surface by sand papering etc. on steel surface. Two coat.	Sqm.		250	
				----- Total Rs.	

(Rupees ..... only)

Signature of Bidder