

**NAME OF THE WORK:- RENOVATION OF EXISTING WASHROOMS IN GROUND, FIRST FLOORS, AND RE-PLACING G.I. SHEET ROOF AT GROUND FLOOR OF THE ALUMNI HOUSE IN CMC, BAGAYAM CAMPUS.**

SCHEDULE-B		CIVIL WORK - (G.I. SHEET ROOF WORK)			
Sl.No	Quantity	Description of the work	Rate	Unit	Amount
1	QRO M <sup>2</sup>	Labour charges for <b>removing the G.I sheet from existing roof covering</b> without any damage incl. available fittings & accessories and the <b>re-fixing items to be stored in contractor's safe custody ,remaining handed over to coll.Maint. deptl.store/disposal</b> as directed by the Engineer-in-charge. <b>(Cost excl.of structural frame work removing).</b>		1M <sup>2</sup>	
2	QRO Kgs	Labour charges for removing the <b>structural steel frame work completely</b> from the existing <b>G.I roof</b> for dismembering and stacking within 50 metres lead ,scaffolding and the <b>re-fixing items to be stored in contractor's safe custody ,remaining handed over to Coll.Maint. deptl.store/disposal</b> as directed by the Engineer-in-charge. <b>(Cost excl.of G.I sheet roof work removing).</b>		1Kg	
3	QRO M <sup>2</sup>	Labour charges for <b>Re-fixing</b> in position of existing <b>precoated galvalume iron profile sheets</b> including cutting,fabrication and making required alterations to suit as per site conditions , hoisting, cost of all materials,required fixing accessories such as self tapping screws etc.,complete . <b>(cost excluding of the galvalume iron profile sheets which will be supplied by the dept.at free of cost .)</b>		1M <sup>2</sup>	
4	QRO Kgs	Labour charges for <b>Re-fixing</b> in position of existing <b>Structural steel work</b> including cutting,fabrication and making required alterations to suit as per site conditions , hoisting, cost of all materials,scaffolding and applying <b>1 coat of anti-corrosive zinc chromate primer and two coat of synthetic enamel paint</b> of approved make and colour etc complete. <b>(cost excluding Structural steel items which will be supplied by the dept.at free of cost.)</b>		1Kg	
5	QRO M <sup>2</sup>	Providing and fixing <b>precoated galvalume iron profile sheets for covering</b> (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces. <b>(Cost excluding structural steel work which will be measured and paid seperately under relevant item).</b>		1M <sup>2</sup>	
6	QRO M <sup>2</sup>	Supplying and fixing in position of <b>gutter arrangements with Prepainted Galvalume steel plain sheet 0.60 mm thick</b> bend to required profile and curvature as per the existing site condition with proper overlapping with adjoining roof sheets including cost of all materials ,self drilling/ self tapping screws complete,fixing and finishing in all respects as directed by the Engineer-in-charge.		1M <sup>2</sup>	
7	QRO Kgs	Providing fabricating, erecting in position of <b>MS Structural steel</b> at all levels, locations, leads & lift using SHS,RHS,ISA,flat,,anchorbolt,M.S.base plate ,bolts,nuts and M.S.pipes etc. including making of necessary templates as directed, cutting, drilling, welding, grinding, temporary supports at all locations where required including preparing the surface by sanding down thoroughly, grinding smooth all weld-burrs and filling with metal paste where ever required and painting with <b>1 coat of anti-corrosive zinc chromate primer and two coat of synthetic enamel paint</b> of approved make and colour etc complete. <b>For G.I sheet roof work.</b>		1Kg	

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SCHEDULE-B		CIVIL WORK - (G.I. SHEET ROOF WORK)				
Sl.No	Quantity		Description of the work	Rate	Unit	Amount
8	QRO	Nos	Providing and <b>drilling suitable holes in reinforced or plain cement concrete</b> with power driven drill machine to a minimum depth of 150mm in <b>RCC column/beam/slab including fixing in position of M16 -stainless Steel 304 grade HSV-R2-Stud Anchor-Anchorage depth 100mm Hilty bolt with Hilti Chemical Grout /approved equivalent</b> Externally threaded-hammer drilling as per standard manufacturer specification and as per the direction of the Engineer in-charge.Details as per sketch and specification.		1No	
9	QRO	M <sup>2</sup>	Supplying, fixing and <b>removing of 12mm thick waterproof plywood formwork</b> in line and level with materials as indicated for RCC elements at locations as stated, including all props, struts, sealing all joints between sheets to prevent leakage of slurry, treating the surface with approved oils and removing the formwork. . The work shall be carried out as per the technical specifications given herewith. Note: total surface area in contact with concrete shall be measured. <b>Complete for PCC bed block.</b>		1M <sup>2</sup>	
10	QRO	M <sup>3</sup>	<b>Plain cement concrete 1:2:4</b> using 20mm size HBG machine broken jelly, M- sand including cost of all materials, mixing in mixer machine, laying, consolidation, self finishing and curing etc.complete. <b>For PCC bed block and wherever necessary.</b>		1M <sup>3</sup>	
11	QRO	M <sup>3</sup>	<b>Random Rubble Masonry in CM.1:6</b> , using approved Ist quality of hard blue granite stones and providing through bond stones placed at 1.80M intervals and staggered at every course including cost of all materials and curing etc., complete. <b>(Existing wall to be raised to required level)</b>		1M <sup>3</sup>	
12	QRO	M <sup>3</sup>	<b>Composite masonry in CM.1:6 ,460mm</b> thick consisting of approved Ist quality <b>hard blue granite fully dressed stones of minimum size 200mm</b> in each direction, providing through bond stones placed at 1.80Mtrs intervals and staggered at every course, corners and end of walls, the stones shall be square and it should be fully chisel dressed, recessed pointing with <b>CM.1:3</b> , mixed with Ist quality water proof compound 2% by weight of cement used on outer face and Country bricks of size 230x100x70mm (Kiln burnt)230mm thick on inner face including cost of all materials and curing etc., complete.		1M <sup>3</sup>	
13	QRO	M <sup>2</sup>	<b>Plastering with CM 1:5</b> , 20mm thick <b>over external surface of new Masonry walls</b> including cost of all materials and curing etc. complete .		1M <sup>2</sup>	
14	QRO	M <sup>2</sup>	Painting <b>two coats</b> with <b>exterior acrylic emulsion paint</b> of appd. Make and colour <b>over old walls</b> and ceilings incl. cleaning the surfaces, cost of all materials, brush and scaffolding etc, Complete.		1M <sup>2</sup>	
15	QRO	M <sup>2</sup>	Painting <b>two coats with exterior acrylic emulsion</b> paint of approved make and colour <b>over old / new walls</b> and ceiling with <b>one coat of exterior water based primer</b> incl, cleaning the surfaces, cost of all materials, brush and scaffolding etc., Complete.		1M <sup>2</sup>	
16	QRO	RM	Supplying and fixing in position of <b>160mm dia half round PVC pipe of pvc rain water gutter 4Kgs/CM<sup>2</sup></b> arrangements including cost of all materials, necessary supporting arrangements using 40x6mm M.S. flat which is to be bent to required shape and welded with truss ends & painting 2 coats of 1st quality of synthetic enamel paint over one coat of Zinc chromate primer, etc., complete.		1RM	
17			Making through <b>holes in Plain or Reinforced Cement Concrete /Brickwork</b> with <b>Diamond Core Drilling</b> System by using BOSCH power tools of following diameter.			

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SCHEDULE-B			CIVIL WORK - (G.I. SHEET ROOF WORK)			
SI.No	Quantity		Description of the work	Rate	Unit	Amount
a	QRO	Nos	upto 200mm (Plain or Reinforced Cement Concrete) thickness upto 250mm		1No	
b	QRO	Nos	upto 200mm (Brickwork) thickness upto 250mm		1No	
18	QRO	M <sup>2</sup>	<b>Scaffolding:</b> Providing and fixing <b>double legged (Steel/appd materials) scaffolding system</b> (cup lock type) on the interior / exterior side, up to the required height made with 40mm dia M.S. tube 1.5m center to center, horizontal & vertical tubes joining with cup & lock system with M.S. tube, 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. <b>wherever required</b> for inspection of work at required locations with essential safety features for the workman 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. <b>For roof sheet repairing works.</b>		1M <sup>2</sup>	
				<b>SUB TOTAL</b>		
<b>(Excl. GST) C/O TO SUMMARY SHEET</b>						