

REPAIRING & RENOVATION WORKS IN THE LADIES HOSTEL AT IACS, JADAVPUR.						
Sl.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
A	DISMANTLING WORK					
1	Stripping off worn out plaster (outside and inside) 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.	Sq.M	1950.00			
2	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed by Engineer.	Cu.M	5.00			
3	Dismantling all types of plain cement concrete/ reinforced concrete works, stacking serviceable materials at site and removing rubbish as directed by Engineer.	Cu.M	4.00			
4	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the campus, loading into truck and cleaning the site in all respect as per direction of EIC.	Cu.M	30.00			
5	Repairing cracks in wall by cement grouting (1:2) including widening the crack on the surface (into V section) cleaning and packing the same with cement mortar (1:2) including acrylic based polmer and finishing off to match with adjacent surface. (cement 69Kg /100 m) Cement mortar should be prepared adding Mastercrete M81, acrylic emulsion as per technical specification of the manufacturer.	Mtr	150			
6	Dismantling existing asbestos roof.	Sqm	20.00			
	SUM OF SUB-HEAD [A]					
B	CIVIL WORK					
7	Brickwork with 1st class bricks in cement mortar (1:6), in any floor.	Cu.M	4.00			

SI.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
8	Taking out shutter of door and window,dismantling by parts (for repair / cutting or replacement of damaged parts) reassembling and fitting and rehangng same with olds/new fittings (where necessary) with new screwa as necessary as per instruction of EIC.	Sqm	130.00			
9	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 hrs. each, curing the coating for three days.	Sq.M	400.00			
10	Plaster to wall, ceiling etc. with coarse 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 coarse where necessary. With 6:1 cement mortar 20mm thick. The rate is inclusive required scaffolding at any level.	Sq.M	1500.00			
11	Ordinary Cement Concrete (mix1:2:4) with graded stone chipls (20mm nomonal size) excluding shuttering and reinforcement. The rate is inclusive required scaffolding at any level.	Cu.m	2.00			
12	Cleaning the concrete surface by removing dirt and making defective locations and removing loose concrete by carefull stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of EIC.The rate is inclusive required scaffolding at any level.	Sq.M	50.00			
13	Applying epoxy based reactive joining agent for joining the old concrete with fresh concrete to be applied within manufacturer's specified time and specification. (0.4 kg/sq.m of concrete surface). The rate is inclusive required scaffolding at any level.	Sq.M	40.00			

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14	37.5 mm thick Cement Concrete (1:1.5:3) with graded stone chips 5.6 mm size with hezagonal 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 scarping and cleaning the reinforcement and disturbed concrete with wire brush eic. after applying a coat of cement including the cost of wire netting I.R.C or X.P.M & cost of all handling and scaffolding complete as per direction of Engineer-In-Charge.The rate is inclusive required scaffolding at any level.	Sq.M	50.00			
	SUM OF SUB-HEAD [B]					
C	PAINTING WORKS					
15	Scraping and removing greasy soot from walls or ceiling of kitchen or similar	Sqm	1350.00			
16	Priming one coat on timber, plastered surface with systhetic oil bound primer of approved quality including smoothening surface by sand papering etc.	Sq.M	3000.00			
17	Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand (1.5mm thick).	Sq.M	1000.00			
18	Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surface by sand papering etc.	Sq.M	400.00			
19	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermeadiate coats including putty. Two or more coats to give an even shade.	Sq. M	3200.00			
20	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc on the surface if necessary.					

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	a) On timber Surface	Sq. M	350.00			
	b). On Steel or Metal Surface	Sq. M	400.00			
21	Protective and decorative Acrylic exterior emulsion paint of approved quality as per manufacture's specification and as per direction of EIC.	Sqm	1350.00			
	SUM OF SUB-HEAD [C]					
D	FLOORING WORK					
22	Supplying and laying true in level vitrified tiles of approved brand (size not less than 600x600mmx10mm thick) in floor, skirting, treads, risers etc. set in 20mm sand cement mortar (1:4) and 2mm thick cement slurry back side of tiles using cement @ 2.91Kg/Sq.m or using polymerised adhesive (6mm thick layer applied directly over finished floor without any backing course) laid after application slurry using 1.75Kg of cement/Sq.m below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer.	Sq.M	650.00			
23	Artificial stone floor, dado, staircase etc. with cement concrete (1:2:4) with stonechips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) .Using @1.75kg/sqm all complete including all materials and labour. 3mm thick toppng. 35 mm thick.	Sqm	60.00			
24	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work and 4 nos. of key stones (10mm) fixed with araldite at the back of each tiles & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface as per instruction of EIC.					

Sl.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
i)	Floor with Sand Cement Mortar (1:4) 20mm thick & 2mm thick cement slurry at back side of tiles using cement @ 2.91Kg/Sq.m & joint filling.	Sq.M	125.00			
ii)	Wall with Sand Cement Mortar (1:3) 15mm thick & 2mm thick cement slurry at back side of tiles using cement @ 2.91Kg/Sq.m & joint filling.	Sq.M	400.00			
	SUM OF SUB-HEAD [D]					
E	M.S. STRUCTURAL WORKS					
25	M.S. structural works in columns, beams etc. with simple rolled structural members (e.g. joists, angle, channel sections conforming to IS:226., IS:808 & SP (6) - 1964 connected to one another with bracket, gussets, cleats as per design, direction of Engineer - in -charge complete including cutting to requisite shape and length, fabrication with necessary bolting metal arc welding conforming to IS : 816 - 1956 & IS : 1995 using electrodes of approved make and conforming to IS:814-1957, haulage, hoisting and erection all complete. i) For structural members of specified sections weighing not less than 22.5kg/m.	MT	0.20			
26	Collapsible gate with 40mm x 40mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2mm vertical channels 100mm apart in fully stretched position flats as collapsible bracings properly rivetted 20mm x 5mm M.S. flats as collapsible bracings properly rivetted and washered including 38mm steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floors etc. and making good damages complete.	Sqm	5.00			
	SUM OF SUB-HEAD [E]					
F	WOOD WORKS					

Sl.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
27	Panel shutters of door and window as per design (each panel consisting of single plank without joint) including fitting and fixing the same position. 35mm thick shutters with 19mm thick panel of size 30to 45 cm.with Sishu, gamar, champ, badam, bhola, mogra, hallak. (including hinges, handle etc. as per direction of EIC.)	Sqm	40.00			
28	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame excluding cost of concrete, iron butt hinges and MS clamps. Sal : Local.	CUM	0.50			
29	Supplying best indian sheet glass panes set in putty and fitted and fixed with nails and putty complete. 4mm thick (weighing 7.4kg/sqm) .	Sqm	20.00			
SUM OF SUB-HEAD [F]						
G	ROOFING WORK					
30	Supplying and laying colour polyester coated galvanized Zinc-alume alloy sheet roofing (Tata / equivalent) including proper ridge conforming to IS:14246-95 of trapozoidal profile having 28 +/- 1 mm crest height, pitch upto 250 mm c/c, sheet width 1065mm made from 0.45mm thick cold roll low carbon steel 'O' grade, half hard conforming to IS:513 and a minimum yield stress of 240 Mpa, 5-7 micron epoxy primer on both side of the sheet and the sheet shall be hot dipped galvanized with zinc coating (120 gsm thickness) of grade conforming to IS:277, silicon/ regular modified polyester coating primer laid over existing tubular truss and purlins/ existing frame structure including necessary repairing with all fixing arrangement and accessoris complete. The cost includes proving and fixing of self drilling and self tapping fasteners (head of the fasteners shall be protected with PVC cap of matching colour) with EPDM washers, thrust washers, flat washers, stitch screws, caps etc. complete as required testing shall be done as per relevant IS/BIS codes. Colour shall be decided by Engineer-in-charge.	Sqm	25.00			

Sl.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
	SUM OF SUB-HEAD [G]					
H	ALUMINIUM WORKS					
31	Providing and fixing anodised aluminium work of approved shade for window as per approved design using extruded standard tubular sections of HINDALCO or approved make 2082@0.554Kg/m, 9139 @0.810Kg/m and 4124 @0.494 Kg/m or approved euivalent conforming to IS:733 and IS: 1285, anodized colour of approved shade according to IS: 1868 fixed with rawl plugs and screws or with fixing clips or with expansion hold fasteners including necessary filling up of gaps at junction, at top, bottom and sides with required neoprene felt etc. This item will include all necessary standard accessories like PVC weather gasket, EPDM glazing gasket, handle, hinge and applying polysulphide sealant all around peripheri of the window, along with 5mm thick tinted float glass of approved colour etc. all complete.	Sq.M	6.00			
	SUM OF SUB-HEAD [H]					
I	PVC DOOR WORK					
32	Supplying , fitting and fixing 30mm thick Factory made solid panel PVC Door shutter consisting of outer frame made out of MS tubes of 19 gauge thickness and size 19mm x 19mm for styles, top and bottom rails , MS frame shall have cost of steel primers as per direction of EIC.	Sqm	27.00			
33	Supplying, fitting and fixing Factory made PVC door frame of size 50mmx47mmx47mm with a wall thickness of 5mm made out of extruded 5mm PVC sheet miter cut at two corners and joined with two nos. of 1.5mm long brackets of 15mm x 15mm MS square tube as per direction of EIC.	Mtr.	57.00			
	SUM OF SUB-HEAD [I]					
J	MISCELLANEOUS WORKS					

SI.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
34	Post constructional measures: Anti termite treatment to the soil under floor with chemical emulsion by admixing chloropyrofos emulsifiable concentrates (1% concentration) with water by weight at the rate of 5 Litres per sq. m. of the surface before sand bed or sub-grade is laid. Holes upto 50 mm. to 75 mm. deep at 150 mm. centre to centre both ways shall be made with 12 mm, diameter mild steel rod on the surface to facilitate saturation of the soil with the chemical emulsion. The work shall be carried out as per specification described in para 6.4 of code IS-6313 (part -II) 1981. (Mode of measurment will be per Sq.m of plan area of plinth treated.	Sqm	250.00			
35	Supplying, fitting and fixing fly/mosquito proof nylon net on any type window, door shutter frame with necessary fixing arrangements complete as per direction of EIC.	Sqm	50.00			
	SUM OF SUB-HEAD [J]					
K	SANITARY & PLUMBING WORKS					
36	Supplying, fitting and fixing PVC pipes of approved make of (medium duty) conforming to ASTMD-1785 and threaded to match with GI Pipes as per IS:1239(Part I) with all necessary accessories special viz. socket, bend, tee, P & S Trap union, elbo, nipple, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground floor.(Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials.)					
	a). 15 mm dia.	Metre	170.00			
	b). 20 mm dia.	Metre	100.00			
	c). 25 mm dia.	Metre	65.00			
	d). 32 mm dia.	Metre	40.00			

Sl.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
	e). 40 mm dia.	Metre	70.00			
	f). 50 mm dia.	Metre	30.00			
37	Supplying, Fitting and fixing G.I pipes of TATA make with all necessary accessories, special viz. socket, bend, tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position.					
a)	25mm dia. Medium quality.	Mtr.	10.00			
b)	40mm dia. Medium quality.	Mtr.	10.00			
38	i)S, F & fixing chromium plated stop cock as per direction of EIC.	Each	12			
39	i)S, F & fixing chromium plated angular stop cock with wall flange as per direction of EIC.	Each	20			
40	S, F & fixing chromium plated bib cock as per direction of EIC.	Each	20			
41	Supplying, fitting and fixing Peet's valve fullway gunmetal standard pattern best quality of approved brand bearing ISI marking with fitting (tested to 21Kg / sq.cm).					
a).	20mm. Dia.	Each	10			
b).	25 mm dia	Each	6			
b).	50mm/40mm dia.	Each	6			
42	S. F and Fixing 10 Litre PVC low down cistern conforming to IS specification with PVC fittings complete, CI brackets including two coats of painting to bracket etc.	Each	12			
43	S,F and fixing closet seat of approved make with lid and CP hinges, rubber buffer and brass screws complete. EWC, Plastic (Hollow type) white.	Each	4			

Sl.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
44	S, F & fixing white vitreous china best quality approved make wash basin with C.I. brackets on 75mm x 75 mm wooden blocks , C. P.waste fittings of 32mm dia. two coats of approved paint. 550mm x 400 mm size.	Each	10			
45	S. , F & fixing EWC in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc. with 'P' or 'S' trap.	Each	6			
46	S. , F & fixing orissa pattern water closet in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc. with 'P' or 'S' trap.	Each	6			
47	S. , F & fixing Chromium plated round shower with revolving joint 100 dia. With rubid cleaning system (equivalent to code no. 542(N) & model - tropical /sumthing special of ESSCO or similar brand).	Each	9			
48	S. , F & fixing stainless steel sink complete with waste fittings and two coats of painting of CI brackets. Sink with drain board 1050mm x 450mm x 180mm	Each	2			
49	Supply of UPVC pipes (B type) & fitting, fixing conforming to IS - 13592 - 1992. i) single socket 110mm.	metre	80.00			
ii)	Fittings. Plain Tee. 110mm	Each	14			
iii)	Fittings. Door Tee. 110mm	Each	10			
iv)	Fittings. Door bend. 110mm	Each	10			
v)	Fittings. 110x110mm P trap with ring	Each	16			
vi)	Fittings. 110x110mm S trap with ring	Each	8			

Sl.No.	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT	REMARKS
50	Supplying, fitting and fixing best quality indian make mirror 5.5 mm thick with silvering as per ISI specifications supported on fibre glass frame of any colour, frame size 550mm x 400mm.	Each	9			
51	S , F & fixing 32mm dia. Flush pipe of approved make with necessary fixing materials and clamps complete. Polythene Flush pipe.	Each	12			
52	S, F & fixing glass shelf with aluminium guard rails. 450mm x 125 mm. Ordinary type with 5.5mm sheet glass.	Each	6			
53	S, F & fixing liquid soap container. (a) Cromium plated.	Each	6			
54	S, F & fixing towel rail with two brackets. CP over brass. 25mm dia and 450 mm long.	Each	10			
55	S, F & fixing porcelain soap tray of approved make. Recessed soap tray of size 150mm x 150 mm.	Each	6			
SUM OF SUB-HEAD [K]						
				TOTAL		

(Rupees)

Date:
Place:

Signature of the contractor
with seal