

| Renovation work of glass blowing section at workshop in IACS, Jadavpur. |   |      |          |      |        |
|---|---|------|----------|------|--------|
| Sl.No.  | DESCRIPTION OF ITEMS  | UNIT | QUANTITY | RATE | AMOUNT |
| 1   | Taking out existing steel window/grill/ wooden door with frame and stacking within the campus as per direction of EIC.  | Nos. | 8        |      |        |
| 2   | Supply of Labour for dismantling ext. partition, removing & refixing of 2 nos. door shutter, shifting of existing furniture etc.  | Nos. | 10       |      |        |
| 3   | Stripping off worn out plaster 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 | 140.00   |      |        |
| 4   | Cleaning the walls and ceiling by scraping with sand papering and smoothening down the surface including puttying.  | Sq.M | 140.00   |      |        |
| 5   | 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 | 1.00     |      |        |
| 6   | Brickwork with 1st class bricks in cement mortar (1:6). in second floor.  | Cu.M | 2.00     |      |        |
| 7   | Supplying and laying true in level vitrified tiles of approved brand (size not less than 600x600mmx10mm thick) in floor, skirting 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 | 60.00    |      |        |

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|----|---|-------|-------|--|--|
| 8  | Providing and fixing colour anodised aluminium work of approved shade for Partition work 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/particle board of approved colour etc. all complete. | Sq.m. | 5.00  |  |  |
| 9  | Providing and fixing colour anodised (minimum anodic thickness-20 micron) aluminium sliding / openable door shutter with HINDALCO or approved equivalent for foor vertical : SP 1773@1.175Kg/m SP-2203@1.116Kg/m, Door top SP:1775@1.40 kg/m, Door bottom: WS6755@1.49kg/m, door middle SP:2201@1.652kg/m, door frame : SP730@1.550kg/m clip: SP1778@0.175 kg/m, sliding or openable mechanism of approved make glazing clips, rubber gasket, flush bolt, lock and 6mm tinted glass etc. all complete as per direction of Engineer. / Ref. Old Helium Plant Bldg 1  | Sq.m  | 5.00  |  |  |
| 10 | Providing and fixing jet black granite slabs of 15mm to 18mm thick mirror polished uniform texture cut for table top, window sill of required size of approved shade, colour and texture laid over base cement mortar 1:4 ( 1 cement : 4 coarse sand ) and laid over extg. table with approved adhesive and joints treated with cement mixed and matching pigment including rubbing, curing etc. complete at all levels as per ditecton.  | Sq.M  | 9.00  |  |  |
| 11 | 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 WS 1316@0.546 Kg/m and WS1317 @0.990 Kg/m & SP - 1637 @ 0.113kg/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  | 12.00 |  |  |

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|----|---|-------|--------|--|--|
| 12 | Providing, fitting and fixing of Hydraulic door closer (Medium, ISI, size 2) at second floor of approved quality as per ISI standard.   | Each  | 1.00   |  |  |
| 13 | Providing and fixing of 300mm long S.S. Finish door handle of approved by Engineer with necessary screws etc. all complete.   | Each  | 2.00   |  |  |
| 14 | Providing and fixing S.S of 300X12mm tower bolts (concealed type) with necessary screws etc. complete as per approved by EIC.   | Each  | 2.00   |  |  |
| 15 | French polishing to wood work including preparing surface/ complete removal of the old polish.  | Sq.M  | 80.00  |  |  |
| 16 | Priming one coat on timber, plastered or on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surface by sand papering etc.  | Sq.M  | 140    |  |  |
| 17 | Applying Acrylic emulsion of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty. Two or more coats to give an even shade.   | Sq. M | 140.00 |  |  |
| 18 | Rendering the surface of walls and ceiling with white cement putty (thickness not less than 1.5mm)  | Sq.M  | 140.00 |  |  |
| 19 | 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, including 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) | 15mm dia. Medium quality [It.No.1(a)(ii)/P-2, Sanitary & Plumbing works.]   | Mtr.  | 3.00   |  |  |
| b) | 20mm dia. Medium quality [It.No.1(b)(ii)/P-2, Sanitary & Plumbing works.]   | Mtr   | 8.00   |  |  |
| 20 | 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 [It.No.4(viii)/P-5 of Sanitary & Plumbing works.]  | Each  | 1.00   |  |  |
| 21 | Supplying, fitting and fixing Chromium plated Stop Cock 15mm dia.of ESSCO or similar brand.   | Each  | 2      |  |  |
| 22 | Supplying, fitting and fixing Chromium plated Bib Cock 15mm dia.of ESSCO or similar brand.  | Each  | 3      |  |  |

|    |   |      |       |  |  |
|----|---|------|-------|--|--|
| 23 | Internal and External Plaster(Including scaffolding as & where necessary) 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.   | Sq.M | 60.00 |  |  |
| 24 | Providing and fixing (upto750mm wide) running work table [MKD-B] at drawing 800mm high made of 19mm thick BWP plywood. The work includes intermeadiate supports of double layer 19mm thick BWP plywood. All visible outside surfaces to be finished with 1.0mm thick laminate of approved colour and brand and inside to be french polished. All the edges of the plywood should be finished with 5mm thick teak wood edge moulding with matching colour. The table shall have wire manager, EBCO make key board tray etc. complete with all necessary hardware fitting |      |       |  |  |
|    | Table   | RM   | 8.00  |  |  |
| 25 | Providing & fixing under counter storage units 380(w)x500(D)x800(H) made of 19mm ply finished with laminate on external surfaces & polish on internal surfaces complete as per design with combination of lockable shutters with EBCO hinges & drawers with side channels, castors & handle of approved make as per direction of the EIC.   | Each | 4.00  |  |  |
| 26 | Hire & labour charges for shuttering with centering and necessary staging upto 4m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works. 25mm to 30mm thick wooden shuttering as per decision of EIC.  | Sq.M | 14.00 |  |  |
| 27 | Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups , binders etc. initial straightening and removal of loose rust, cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. Tor steel / Mild steel.   | MT   | 0.20  |  |  |
| 28 | Supplying, fitting, fixing decorative lamination conforming to IS: 2046:1995 as per approved make, brand, finish and 1mm thickness with fitting and fixing the same on Particle/ Ply Boards with approved adhesive with proper clipping the sides for better attachment as per direction of Engineer. [It No. 121(ii)/P-167]  | Sq.M | 50.00 |  |  |
| 29 | supplying, fitting and fixing boiling water resistant ply conforming to IS:303-1989 bonded with phenol formaldehyde synthetic resin of approved make and brand fitted and fixed as per design including Lipping as and where necessary as per approval and direction of Engineer-in-charge.   |      |       |  |  |

|                        |  |                                      |       |                    |  |
|------------------------|--|--------------------------------------|-------|--------------------|--|
|                        | i) 12 mm   | Sq.M                                 | 24.00 |                    |  |
|                        | ii) 19mm   | Sq.M                                 | 32.00 |                    |  |
| 30                     | Providing Reinforced cement concrete in 1:1.5:3 ( 1 cement :1.5 coarse sand :3 graded stone aggregate 20mm nominal size) works in beams, suspended floors, roofs , landings, balconies, shelves, chajjas, lintels, bands, window sills, staircases, at all level excluding shuttering and reinforcement. | Cu.M                                 | 3.00  |                    |  |
| <b>Civil work</b>      |  | <b>Total:</b>                        |       |                    |  |
| <b>Electrical work</b> |  |                                      |       | <b>Grand total</b> |  |
| Date:                  |  | Signature of contractor<br>with seal |       |                    |  |
| Place:                 |  |                                      |       |                    |  |