

<b>Sub: Repair and modification works in factory</b>					
<b>Annexure "A" - Modification works in workshop and Toilets</b>					
<b>PRICE SCHEDULE</b>					
<b>Sr. No.</b>	<b>Item Brief</b>	<b>Qty</b>	<b>Unit</b>	<b>Unit Rate (In Rs.)</b>	<b>Amount (In Rs.)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6 = (3x5)</b>
1	Demolishing brick work made in cement mortar manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	100	Cuft		
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead of area 3 sq. metres and below.	5	Nos.		
3	Dismantling steel work manually/ by mechanical means in built up sections and stacking within 50 metres lead as per direction of Engineer-in-charge.	800	Kg		
4	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge 15 mm to 40 mm nominal bore.	300	Rft		
5	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	400	Sqft		
6	Dismantling tile work in floors, skirting and dado laid in cement mortar including stacking material within 50 metres lead for thickness of tiles 10 mm to 25 mm	800	Sqft		
7	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means by deploying truck of 9 MT & above capacity along with labour including loading, transporting, unloading to approved municipal dumping grounds with all leads & lifts.	5	Per Truck		
8	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per directions of Engineer-in-charge. (Glazing & paneling to be paid for separately) :				
8.1	For fixed portion (Partly panelled & partly glazed) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	25	Sqft		
8.2	For door shutters (partly panelled & partly glazed) including providing and fixing hinges/ pivots and reputed make lock (Godrej or Equivalent) and handles including the cost of EPDM rubber / neoprene gasket required complete with Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	50	Sqft		
9	Providing and fixing 12 mm thick prelaminate particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	250	Sqft		
10	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. With float glass panes of 5.50 mm thickness	25	Sqft		

11	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge With stainless steel cover plate minimum 1.25 mm thickness	2	Nos		
12	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	2	Nos		
13	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2	Nos		
14	Providing and fixing White Vitreous China wash basin flat back type of size 550x 400 mm with single 15 mm C.P. brass pillar tap, C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required.	9	Nos		
15	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia	9	Nos		
16	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	4	Nos		
17	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall				
17.1	15 mm nominal outer dia pipes	100	Rft		
17.2	20 mm nominal outer dia Pipes	100	Rft		
18	Providing and fixing PTMT bib cock of approved quality and colour 15 mm nominal bore, 90 mm long, weighing not less than 93 gms.	4	Nos		
19	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
19.1	15 mm nominal outer dia Pipes	100	Rft		
20	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge - Extruded section profile size 48x40 mm	100	Rft		

21	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm$ 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm$ 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm$ 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	90	Sqft		
22	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., Bathrooms and the like consisting of: (i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	60	Sqft		
23	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	800	Sqft		
24	Providing and laying Ceramic un-glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White,Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	60	Sqft		
25	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	1050	Cuft		
26	Half brick masonry work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in Cement mortar 1:6 (1 cement : 6 coarse sand)	600	Sqft		
27	15 mm cement plaster on rough side of single or half brick wall of mix : (1 cement: 6 coarse sand)	2200	Sqft		
28	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	2300	Sqft		

29	Providing, hoisting and placing in position over the existing cable trench precast reinforced cement concrete cover to be made in MS angle frame of 50x50x6 mm including the cost of required centering, shuttering but excluding cost of reinforcement, with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	15	Cuft		
30	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position at all height including tying with annealed binding wire, providing cover blocks of appropriate sizes etc. complete as directed by BHEL. Cold twisted bars or Hot rolled deformed bars	160	Kg		
31	Providing all materials and labours for painting internal surface of the building with Luster paint of approved brand and shade (ASIAN or EQUIVALENT) including surface preparation by scrapping and applying chalk/lambi putty to make surface even & smooth to be followed with a coat of suitable primer and two or more coats of paint complete including cost of scaffolding, cleaning of entire area to the satisfaction of Engineer (In-Charge).	6500	Sqft		
32	Providing and applying white cement base putty of average thickness 1 mm by using approved brand and manufacture material (BIRLA WHITE or Equivalent) complete including cost of scaffolding and other incidental charges.	1000	Sqft		
33	Carrying out cutting, grinding and polishing of existing kota stone floor by using appropriate tools and materials complete to the satisfaction of Engineer In-Charge.	400	Sqft		
34	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	20	Sqft		
35	Replacement of existing louvered frame in bathrooms and toilets with new aluminium frame of standard make (Jindal or equivalent) & design matching with the existing opening size including cost of tinted louvered glass 4 mm thick complete as per requirement and directed by BHEL.	60	Sqft		
36	White washing with lime to give an even shade : New work (three or more coats)	2250	Sqft		
37	Fixing of wooden door shutter (out of the dismantled lot) with chowkhat, architrave, holdfasts etc. complete of area 3 sq. metres and below as directed.	1	No.		
38	providing and fixing in position 1st quality black granite polished stone 18 mm thick with half round moulding on the edges in plateform for wash basins including cutting of required shape and size to fit wash basin complete as directed.	50	Sqft		
39	providing and fixing in position 1st quality black granite polished stone 18 mm thick with half round moulding on the edges in door jambs in cement mortar 1:5 (1 cement : 5 coarse sand) complete as directed.	50	Sqft		
40	Providing and laying good quality Kaddappa Stone of required size and of uniform thickness (not less than 40 mm) for making partition / shelf in brick work at all height complete as directed by BHEL. <b>Note: The Brick Work quantity shall be paid for seperately in respective item.</b>	1100	Sqft		
<b>Total</b>					

<b>Sub: Repair and modification works in factory</b>					
<b>Annexure "B" - For External Painting</b>					
<b>PRICE SCHEDULE</b>					
<b>Sr. No.</b>	<b>Item Brief</b>	<b>Qty</b>	<b>Unit</b>	<b>Unit Rate (In Rs.)</b>	<b>Amount (In Rs.)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6 = (3x5)</b>
1	Repairing of cracks in beams, coloumn, walls and chajja at all height up to 12 meter including chieseling, watering and filling with cement mortar 1:4 complete with non shrinking admixture of approved brand (Pidilite or equivalent) in required ratio complete including cost of required scaffolding and disposal of rubbish within 50 meter lead and all lifts as directed by BHEL.	500	Rft		
2	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface at all height (up to aprox. 12 meter) complete with cement mortar 1:4 (1cement/4 coarse sand) including cost of necessary scaffolding etc. and disposal of rubbish within 50 meters lead and all lifts complete as directed by BHEL.	500	Sqft		
3	Providing, applying and finishing external surface with Acrylic Smooth Exterior Paint "APEX ULTIMA of M/s ASIAN Paints or Equivalent two or more coats in approved shade and colour at all height up to aprox. 12 meter over and including suitable priming coat including preparation of surface by thorough cleaning with water, removal of fungus / plantations and including cost of scaffolding and other consumables complete as directed by BHEL.	17000	Sqft		
4	Providing all materials and labour for painting over existing MS Grills box fixed to windows up to a height of maximum 12 meter with 2 or more coats of synthetic enamel paint of approved brand and colour (ASIAN or Equivalent) including a coat of steel primer, cost of necessary scaffolding and other consumables and cleaning complete as directed by BHEL.	3000	Sqft		
5	Providing and applying Rusticide SS Rust Passivator or equivalent of approved manufacturer (Sunanda or Equivalent) to the existing reinforcement bars including wire brushing, cleaning etc. complete as directed by BHEL. <b>Note: The item shall be paid on actual consumption of Rusticide SS or Equivalent.</b>	10	Ltr		
6	Providing and applying two coats of rust preventor slurry made out of "Polyalk Fixoprime" of M/s Sunanda or equivalent make and Cement in proportion 1:1 to existing reinforcement bars complete as directed by BHEL. <b>Note: The item shall be paid on actual consumption of Polyalk Fixoprime or equivalent.</b>	25	Kg		
7	Providing and applying "Polyalk EP Polymer Modified Cement Mortar" of M/s Sunanda or equivalent make in 1:5:15 proportions (1 kg Polyalk EP : 5 kg cement : 15 kg sand) to RCC members including hand packing, curing and making the surface rough for palstering etc. complete as directed. <b>Note: The item shall be paid on actual consumption of Polymer latex "polyalk EP" or equivalent.</b>	50	Kg		
	<b>Note:</b> The rate of above item shall be inclusive of Chipping off existing loose,dameged Concrete from RC member beyond main r/f.(if required), carefully with chisel and hammers including Wire brushing and washing of concrete Substrata and reinforcing bars as directed Upto a maximum concrete thickness of 100 mm.				
	<b>Total</b>				
<b>NOTES:</b>					
1	<b>The quantity against item no. 5, 6 and 7 may vary to any extent.</b>				