

No. IIT Mandi(CW)/SE-1419/2023-24/1550-52

Dated:30-06-2023

## Corrigendum

Following modification has been made in the tender for **Creation of additional washrooms and toilet facility at recreation center of South Campus at IIT Mandi** published on E-Procurement Portal on 23-06-2023 Vide NIT No. IIT Mandi (CW)/SE-1419/2023-24/1445-47 dated 23/06/2023. There are some typographical error in schedule of quantities of the tender document (pdf. Format). Therefore, all bidders are requested to only consider the quantities mentioned in the BOQ in excel format instead of quantities mentioned in the tender document pdf. format.

All other conditions will remain same.

Copy to:

1. Notice board.
2. Central Public Procurement Portal.
3. IIT Mandi website

Sd/-  
Superintending Engineer

Sd/-  
Superintending Engineer

<b>Schedule of Quantity</b>					
<b>Name of Work: Creation of additional washrooms and toilet facility at recreation center of South Campus at IIT Mandi</b>					
<b>Sr. No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge: All kinds of soil as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	11.52	sqm		
2	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	8.93	cum		
3	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil Pipes, cables etc. exceeding 80 mm dia. butnot exceeding 300 mm dia as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	25.00	metre		
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	4.05	cum		

5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources) as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	6.37	cum		
6	Providing and laying in position cement concrete of specified gradeexcluding the cost of centering and shuttering - All work up to plinthlevel :1:4:8 (1 Cement : 4 coarse sand (zone-III) derived fromnatural sources : 8 graded stone aggregate 40 mmmnominal size derived from natural sources) as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	2.46	cum		
7	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources) as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	0.89	cum		
8	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	6.12	cum		
9	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	5.48	sqm		
10	Centering and shuttering including strutting, propping etc. and removal of form for Suspended floors, roofs, landings, balconies and access platform as per entire satisfaction and direction of Engineere-in-charge an all	38.19	sqm		

	lead and lift.				
11	Centering and shuttering including strutting, propping etc. and removal of form for Lintels, beams, plinth beams, girders, bressumers and cantilevers as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	24.72	sqm		
12	Centering and shuttering including strutting, propping etc. and removal of form for Edges of slabs and breaks in floors and walls Under 20 cm wide as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	34.20	metre		
13	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more. as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	97.90	kg		
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	673.20	kg		
15	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) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	18.84	cum		
16	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floorV level. Cement mortar 1:4 (1 cement :4 coarse sand) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	19.01	sqm		
17	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry. as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	19.01	sqm		

18	Random rubble masonry with hard stone in foundation and plinth including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	7.11	cum		
19	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. as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	93.69	sqm		
20	Extra for providing frosted glass panes 4 mm thick (weight not less than 10 kg per sqm) instead of ordinary float glass panes 4 mm thick (weight not less than 10 kg per sqm) in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	1.22	sqm		
21	Providing and fixing aluminium tower bolts, ISI marked, Powder coated transparent or dyed to required colour or shade, with necessary screws etc. complete : 150x10 mm as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	14.00	each		
22	Providing and fixing aluminium handles, ISI marked, Powder coated transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	14.00	each		
23	Providing and fixing PVC rigid foam sheet 1 mm thick on existing door shutters (bathroom and W.C. doors) using synthetic rubber based adhesive. as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	11.03	sqm		

24	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete. With 12 mm mild steel U beading as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	0.81	sqm		
25	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 as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	15.48	sqm		
26	Providing and laying Ceramic 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 colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement :4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete. as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	13.50	sqm		
27	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles Matt/Antiskid finish of size Size of Tile 600 x 600 mm as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	4.32	sqm		

28	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	36.00	metre		
29	Providing and fixing on wall face unplasticised -PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Coupler 110 mm as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	6.00	each		
30	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Single tee with door 110x110x110 mm as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	3.00	each		
31	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Single tee without door 110x110x110 mm as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	2.00	each		
32	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.5° 110 mm bend as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	5.00	each		
33	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement: 4 coarse sand) and making good the	24.00	each		

	wall etc. complete. 110 mm as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.				
34	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	16.58	sqm		
35	20 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	108.35	sqm		
36	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	40.95	sqm		
37	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	39.62	sqm		
38	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	118.91	sqm		
39	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	39.62	sqm		
40	Distempering with 1st quality acrylic distemper (ready made) having VOC content less than 50 gm per ltr. of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. One or more coats on old work as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	300.00	sqm		



41	Finishing walls with Acrylic Smooth exterior paint of required shade :Old work (One or more coat applied @ 0.90 ltr/10 sqm). as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	100.00	sqm		
42	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix) as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	1.24	cum		
43	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	1.46	cum		
44	Dismantling tile/kota work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles/kota 10 mm to 25 mm as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	19.98	sqm		
45	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	24.57	sqm		
46	Providing and fixing white vitreous china flat back or wall corner tyelipped front urinal basin of 430x260x350 mm and 340x410x265 mmsizes respectively with automatic flushing cistern with standard flushpipe and C.P. brass spreaders with brass unions and G.I clampscomplete, including painting of fittings and brackets, cutting andmaking good the walls and floors wherever required :Range of three urinal basins with 10litre white P.V.C.automatic flushing cistern as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	1.00	each		
47	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	3.00	each		

48	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	3.00	each		
49	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	3.00	each		
50	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 as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	5.00	each		
51	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 as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	3.00	each		
52	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	3.00	each		
53	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	6.00	each		
54	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 20mm dia nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	12.00	metre		
55	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 25 mm dia nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	12.00	metre		

56	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall : 15 mm dia nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	50.00	metre		
57	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 20 mm dia nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	75.00	metre		
58	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	2.00	each		
59	Providing and fixing brass stop cock of approved quality :15 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	6.00	each		
60	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	2.00	each		
61	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	2.00	each		
62	Providing and fixing uplasticised PVC connection pipe with brass unions :45 cm length 15 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	20.00	each		
63	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	6.00	each		
64	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :15 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	6.00	each		
65	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :20 mm nominal bore as per entire	10.00	each		

	satisfaction and direction of Engineer-in-charge an all lead and lift.				
66	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :25 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	6.00	each		
67	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	4000.00	per litre		
68	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	12.00	each		
69	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	12.00	each		
70	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	20.00	each		
71	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	20.00	each		
72	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.as per entire satisfaction and direction of Engineere-in-charge an all lead and lift.	14.00	each		
73	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:100x100 mm size P type With	2.00	each		

	common burnt clay F.P.S. (non modular) bricks of class designation 7.5 as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.				
74	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix ( 1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	2.00	each		
75	Extra for depth for manholes :Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	0.90	metre		
76	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, fixed with rawl plugs and screws of with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium section shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle. Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the direction of Engineer -in -charge. ( Glazing and panelling to be paid for separately) :For fixed portion Powder coated aluminium (minimum	110.80	kg		

	thickness of powder coating 50 micron) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.				
77	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, fixed with rawl plugs and screws of with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium section shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle. Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the direction of Engineer -in -charge. ( Glazing and panelling to be paid for separately) :For shutters of door, windows & ventilators including providing and fixing hinges /pivots and making provision for fixing of fittings wherever required including the cost of PVC / Neoprene gasket required(fittings shall be paid for separately.)Powder coated aluminium (minimum thickness of powder coating 50 micron) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	136.50	kg		
78	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge (Cost of aluminium snap beading shall be paid in basic item)With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm) as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	1.22	sqm		
79	Providing and fixing 12 mm thick prelaminated particle board flatpressed three layer or graded wood particle board conforming to IS:12823 Grade 1 Type II, in panelling fixed in aluminum doors, windowsshutters and partition frames with C.P. brass / stainless steel screwsetc. 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 as per entire	15.12	sqm		

	satisfaction and direction of Engineer-in-charge an all lead and lift.				
80	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	63.90	metre		
81	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	7.00	each		
82	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-incharge Powder coated minimum thickness 50 micron aluminium as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	14.00	each		
83	Providing and fixing terminial guard 110mm dia as per entire satisfaction and direction of engineer- in - charge.	3.00	each		
84	Providing and fixing floor trap 110mm dia as per entire satisfaction and direction of engineer- in - charge. .	10.00	each		
85	Providing and fixing greating 110mm dia as per entire satisfaction and direction of engineer- in - charge.	20.00	each		
86	Providing and fixing of Prefabricated portable toilets(Size 933 X 1110 X 2350)mm including necessary arrangement of western WC, Washbasin, Point for Geyser, Electrical/Plumnbng fittings and provision of inlet for water supply connection, outlet for waste water as per entire satisfaction and direction of Engineer-in-charge an all lead and lift.	2.00	nos		
	<b>Total</b>				