

## INDIAN INSTITUTE OF INTEGRATIVE MEDICINE (IIIM), JAMMU

Name of Work :- Annual Rate Contract for Civil maintenance works at IIIM Institute, Residential Complex and Chatha field station, Jammu.

Sr. No.	Description of Item	Unit	Qty.	Rate	Amount
1.0	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.	cum	<b>15.00</b>		
2.0	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.	cum	<b>6.00</b>		
3.0	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	100 sqm	<b>1000.00</b>		
4.0	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (including the cost of chemical emulsion) :				
	Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole :				
	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	Mtr.	<b>600.00</b>		
5.0	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
A	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	<b>20.00</b>		
B	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	cum	<b>3.00</b>		
C	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal	cum	<b>30.00</b>		

	size)				
6.0	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6graded stone aggregate 20mm nominal size) over 75mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth	sqm	<b>150.00</b>		
7.0	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 up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	cum	<b>2.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
8.0	Centering and shuttering including strutting, propping etc. and removal of form for :				
A	Foundations, footings, bases of columns, etc. for mass concrete.	sqm	<b>5.00</b>		
B	Suspended floors, roofs, landings, balconies and access platform.	sqm	<b>10.00</b>		
9.0	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	Thermo-Mechanically Treated bars.	kg	<b>100.00</b>		
10.0	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	<b>5.00</b>		
11.0	Repairing of brick / stone work with existing bricks of class designation 7.5 in foundations and plinth in: Cement mortar 1:6 ( 1 cement :6 Fine sand ) <b>(Brick / stone shall be provided by depts. Or existing brick shall be used)</b>	cum	<b>12.00</b>		
12.0	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)	cum	<b>5.00</b>		
13.0	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 floor V level.				
	cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	<b>5.00</b>		
14.0	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	<b>1.00</b>		
15.0	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
A	Raj Nagar Plain white marble/ Udaipur green marble/ Zebrablack marble				
	Area of slab over 0.50 sqm	sqm	<b>4.00</b>		
B	Granite of any colour and shade				
	Area of slab over 0.50 sqm	sqm	<b>2.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
16.0	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately).				
	Sal wood	cum	<b>1.00</b>		
17.0	Repairing work in existing frames of doors, windows, cup board, clerestory windows and other frames, wrought framed and fixed in position : <b>(Wood shall be supplied by department free of cost)</b>	cum	<b>2.50</b>		

18.0	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.				
	Kiln seasoned and chemically treated Hollock wood.				
A	35 mm thick shutters	sqm	<b>2.00</b>		
B	30 mm thick shutters	sqm	<b>4.00</b>		
19.0	Repairing and fixing in existing panelled or panelled and glazed shutters for doors, windows and clerestory windows including necessary screws etc complete.	sqm	<b>125.00</b>		
20.0	Providing and fixing flat pressed 3 layer particle board medium density exterior grade (Grade I) or graded wood particle board IS : 3087 marked to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid separately) :				
A	12 mm thick	sqm	<b>5.00</b>		
B	18 mm thick.	sqm	<b>25.00</b>		
21.0	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters				
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	<b>2.00</b>		
22.0	Refixing/ Repairing and fixing in existing flush door shutters non-decorative type, core of block board on both faces of shutters complete including necessary screws etc as required : <b>(Doors shall be supplied by department free of cost)</b>	each	<b>5.00</b>		
23.0	Refixing/ Repairing and fixing in existing shutter of windows glazed or mesh type, glass pan or wire mesh to be replace as per requirement including necessary screws etc as required : <b>(Windows shutter shall be supplied by department free of cost)</b>	each	<b>10.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>

24.0	Providing and fixing wire gauge shutters using galvanized M.S. wire gauge of average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm, for doors, windows and clerestory windows with hinges and necessary screws :				
	30 mm thick shutters				
	with ISI marked M.S. pressed butt hinges bright finished of required size				
	Kiln seasoned and chemically treated hollock wood	sqm	<b>8.00</b>		
25.0	Providing and fixing 4mm thick coir veneer board, ISI marked IS : 14842 - 2000, plain lining with necessary screws, priming coat on unexposed surface etc., complete.	sqm	<b>25.00</b>		
26.0	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets & fancy bowl fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :				
	20 mm dia.	mtr.	<b>5.00</b>		
27.0	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete.				
	Fixed to openings /wooden frames with rawl plugs screws etc.	kg	<b>10.00</b>		
28.0	Providing and fixing fly proof galvanized M.S. wire gauze to windows and clerestory windows using galvanized M.S. wire gage with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm.				
	With 2nd class teak wood beading 62X19 mm.	sqm	<b>60.00</b>		
29.0	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :				
A	100x58x1.90 mm	each	<b>20.00</b>		
B	75x47x1.70 mm	each	<b>60.00</b>		
30.0	Providing and fixing ISI marked oxidised M.S. single acting door spring with necessary screws etc. complete :				
	150 mm	each	<b>25.00</b>		
31.0	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :				
	250x16 mm	each	<b>10.00</b>		

32.0	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
A	200x10 mm	each	<b>10.00</b>		
B	150x10 mm	each	<b>60.00</b>		
C	100x10 mm	each	<b>40.00</b>		
33.0	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
A	125 mm	each	<b>30.00</b>		
B	75 mm	each	<b>60.00</b>		
34.0	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete :				
	150 mm	each	<b>12.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
35.0	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	<b>10.00</b>		
36.0	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.				
	50 mm	each	<b>60.00</b>		
37.0	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	<b>12.00</b>		
38.0	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
	250x16 mm	each	<b>5.00</b>		
39.0	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
A	200x10 mm	each	<b>15.00</b>		
B	100x10 mm	each	<b>6.00</b>		

40.0	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
A	150/125 mm	each	<b>10.00</b>		
B	75 mm	each	<b>5.00</b>		
41.0	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
	Twin rubber stopper	each	<b>15.00</b>		
42.0	Providing and fixing aluminium sheet 1mm thick on existing door shutters (bathroom and W.C. doors) with fixing nails or adhesive.	sqm	<b>12.00</b>		
43.0	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.				
	40mm thick with 20mm nominal size stone aggregate.	Sqm	<b>120.00</b>		
44.0	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.				
	40 mm wide and 4 mm thick.	metre	<b>40.00</b>		
45.0	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
	Medium shade pigment using 50% white cement 50% Grey cement	sqm	<b>3.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
46.0	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.	sqm	<b>3.00</b>		

47.0	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture ) 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.	sqm	<b>40.00</b>		
48.0	Providing and laying Ceramic glazed floor tiles 300x300 mm Anti-Skid / matt finished (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) or cement based high polymer modified quick-set tile adhesive (water based) including pointing the joints with white cement and matching pigment etc., complete.	sqm	<b>30.00</b>		
49.0	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.				
	Size of Tile 600x600 mm	sqm	<b>10.00</b>		
50.0	Repairing of existing floor and wall and using of Ceramic glazed floor and wall tiles 300x300 mm Anti-Skid / matt finished of approved design (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) or cement based high polymer modified quick-set tile adhesive (water based) including dismantling of existing broken tiles and pointing the joints with white adhesive (water based) including dismantling of				



	existing broken tiles and pointing the joints with white				
	Size of Tile 30x30 cm or 20x30 cm	nos.	<b>180.00</b>		
51.0	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.				
	0.63 mm thick with zinc coating not less than 275 gm/ m <sup>2</sup>	sqm	<b>2.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
52.0	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.				
	0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	metre	<b>1.00</b>		
53.0	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
	In 75x75 mm deep chase	metre	<b>60.00</b>		
54.0	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet	each	<b>5.00</b>		

	complete.				
55.0	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately) :				
	White face insulating board				
	12 mm thick	sqm	<b>10.00</b>		
56.0	Providing and fixing on wall face un plasticised 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.				
A	75 mm diameter	metre	<b>15.00</b>		
B	110 mm diameter	metre	<b>45.00</b>		
C	150 mm diameter	metre	<b>12.00</b>		
57.0	Providing and fixing on wall face un plasticised - PVC moulded fittings/ accessories for un plasticised 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°				
A	75 mm bend	each	<b>5.00</b>		
B	110 mm bend	each	<b>12.00</b>		
58.0	Providing and fixing un plasticised -PVC pipe clips of approved design to un plasticised - PVC rain water pipes by means of 50x50x50mm 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 wall etc. complete.				
A	75 mm	each	<b>5.00</b>		
B	110 mm	each	<b>20.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>

59.0	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts &amp; bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :</p>				
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	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I	sqm	<b>3.00</b>		
60.0	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized	Sqm	<b>3.00</b>		

	polyester film so as to make the tile a completely sealed unit.				
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
61.0	12 mm cement plaster of mix :				
	1:6 (1 cement: 6 fine sand)	sqm	<b>300.00</b>		
62.0	12 mm cement plaster finished with a floating coat of neat cement of mix :				
	1:4 (1 cement: 4 fine sand)	sqm	<b>20.00</b>		
63.0	6 mm cement plaster 1:3 (1 cement: 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C. slabs and beams.	sqm	<b>6.00</b>		
64.0	White washing with lime to give an even shade:				
	New work (three or more coats)	sqm	<b>15.00</b>		
65.0	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade				
	New work (two or more coats) over and including priming coat with cement primer.	sqm	<b>60.00</b>		
66.0	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
	Water thinnable cement primer	sqm	<b>50.00</b>		
67.0	Finishing walls with water proofing cement paint of required shade :				
	New work (Two or more coats applied @ 3.84 kg/10 sqm).	sqm	<b>30.00</b>		
68.0	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :				
	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	sqm	<b>10.00</b>		
69.0	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
	Two or more coats on new work	sqm	<b>40.00</b>		

70.0	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.	sqm	<b>250.00</b>		
71.0	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. meters and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50metres lead :				
	With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	<b>300.00</b>		
72.0	Renewing glass panes, with putty and nails wherever necessary:				
A	Float glass panes of thickness 4 mm	sqm	<b>20.00</b>		
B	Float glass panes of thickness 5 mm	sqm	<b>5.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
73.0	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	<b>600.00</b>		
74.0	White washing with lime to give an even shade:				
	Old work (two or more coats)	sqm	<b>600.00</b>		
75.0	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm	<b>100.00</b>		
76.0	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade and preparing the surface smooth including necessary repairs to scratches etc. complete				
	Old work (two or more coats)	sqm	<b>10000.00</b>		
77.0	Wall painting with plastic emulsion paint of approved brand and and preparing the surface smooth including necessary repairs to scratches etc. complete manufacture to give an even shade :				
	Old work (one or more coats)	sqm	<b>200.00</b>		
78.0	Painting with synthetic enamel paint of approved brand and manufacture to give				

	an even shade :				
	One or more coats on old work.	sqm	<b>800.00</b>		
79.0	Finishing walls with water proofing cement paint of required shade and preparing the surface smooth including necessary repairs to scratches etc. complete				
	Old work (Two or more coats applied @ 2.20 kg/10 sqm)	sqm	<b>300.00</b>		
80.0	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade and preparing the surface smooth including necessary repairs to scratches etc. complete				
	Old work (one or more coats applied @ 0.83 ltr/10 sqm).	sqm	<b>30.00</b>		
81.0	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)	cum	<b>10.00</b>		
82.0	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.	cum	<b>1.00</b>		
83.0	Demolishing brick work 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.				
	in cement mortar	cum	<b>3.00</b>		
84.0	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead:				
	Of area 3 sq. metres and below	each	<b>6.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
85.0	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
	For thickness of tiles 10 mm to 25 mm	Sqm	<b>5.00</b>		
86.0	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the	Sqm	<b>300.00</b>		

	dumping ground within 50 metres lead.				
87.0	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.	Sqm	<b>10.00</b>		
88.0	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved up to 5 K.M.	cum	<b>60.00</b>		
89.0	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.				
	With G. I. Barbed wire	metre	<b>90.00</b>		
90.0	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	kg	<b>60.00</b>		
91.0	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped all complete as per direction of Engineer-in-charge, with Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S.angle, C.C. blocks shall be paid separately)	metre	<b>20.00</b>		



92.0	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern 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 580x440mm with integral type foot rests.	each	<b>2.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
93.0	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100mm sand cast Iron P or S trap, 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 580x440mm with integral type foot rests.				
	<b>Without PVC Flush Tank</b>	each	<b>4.00</b>		
94.0	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 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	each	<b>2.00</b>		
95.0	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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				
	<b>Without PVC Flush Tank</b>	each	<b>4.00</b>		
96.0	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS :				

	2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	<b>1.00</b>		
97.0	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :				
A	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.	each	<b>8.00</b>		
B	White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap.	each	<b>3.00</b>		
98.0	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	each	<b>2.00</b>		
99.0	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required :				
	White glazed fire clay kitchen sink of size 600x450x250 mm.	each	<b>6.00</b>		
100.0	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.				
	10 litre capacity - White	each	<b>8.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
101.0	Providing and fixing solid plastic seat with lid for pedestal type W.C. pan complete :				
	White solid plastic seat with lid	each	<b>6.00</b>		
102.0	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	Semi rigid pipe				

A	32 mm dia	each	<b>140.00</b>		
B	40 mm dia	each	<b>30.00</b>		
103.0	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.	each	<b>8.00</b>		
104.0	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	each	<b>2.00</b>		
105.0	Providing and fixing toilet paper holder :				
	C. P. Brass	each	<b>2.00</b>		
106.0	Providing and fixing soil, waste and vent pipes :				
A	100 mm diameter				
	Sand cast iron S&S pipe as per IS: 1729.	metre	<b>6.00</b>		
B	75 mm diameter				
	Sand cast iron S&S pipe as per IS: 1729.	metre	<b>4.00</b>		
107.0	Providing and filling the joints with spun yarn cement slurry and cement mortar 1:2 ( 1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
A	75 mm dia pipe	each	<b>4.00</b>		
B	100 mm dia pipe	each	<b>4.00</b>		
108.0	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :				
A	For 100 mm dia. Pipe	each	<b>6.00</b>		
B	For 75 mm dia. Pipe	each	<b>5.00</b>		
109.0	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
A	100 mm diameter				
	Sand cast iron S&S pipe as per IS: 1729.	each	<b>2.00</b>		

B	75 mm diameter				
	Sand cast iron S&S pipe as per IS: 1729.	each	<b>2.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
110.0	Providing and fixing plain bend of required degree.				
A	100 mm diameter				
	Sand cast iron S&S pipe as per IS: 1729.	each	<b>3.00</b>		
B	75 mm diameter				
	Sand cast iron S&S pipe as per IS: 1729.	each	<b>3.00</b>		
111.0	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:				
A	100 mm dia pipe	each	<b>6.00</b>		
B	75 mm dia pipe	each	<b>4.00</b>		
112.0	Providing and fixing towel rail complete with brackets fixed to wooden cleats with C.P. brass screws.C.P. brass towel rail with two C.P. brass brackets.600x20 mm size	each	<b>8.00</b>		
113.0	Repairing/ refixing of towel rail, glass/PVC self, PVC cistern mirror, jet, all sanitary fitting etc.complete with brackets fixed to wooden cleats with C.P. brass screws. <b>(existing materials shall be used or supplied by department free of cost)</b>	each	<b>60.00</b>		
114.0	Repairing/ refixing of wash basin, sink, gyser, all sanitary fitting etc. complete with brackets fixed to wooden cleats with Nut & bolts. <b>(existing materials shall be used or supplied by department free of cost)</b>	each	<b>40.00</b>		
115.0	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. <b>External work</b>				
A	15 mm dia. nominal bore	metre	<b>110.00</b>		
B	20 mm dia. nominal bore	metre	<b>40.00</b>		
C	25 mm dia. nominal bore	metre	<b>10.00</b>		
D	32 mm dia. nominal bore	metre	<b>6.00</b>		
E	40 mm dia. nominal bore	metre	<b>4.00</b>		
F	50 mm dia. nominal bore	metre	<b>2.00</b>		
116.0	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	each	<b>2.00</b>		
117.0	Providing and fixing brass bib cock of approved quality :				
A	15 mm dia. nominal bore	each	<b>150.00</b>		
B	20 mm dia. nominal bore	each	<b>10.00</b>		
118.0	Providing and fixing brass stop cock of approved quality				
A	15 mm dia. nominal bore	each	<b>45.00</b>		
B	20 mm dia. nominal bore	each	<b>10.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
119.0	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
A	25 mm dia. nominal bore	each	<b>5.00</b>		
B	40 mm dia. nominal bore	each	<b>5.00</b>		
C	50 mm dia. nominal bore	each	<b>2.00</b>		
120.0	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete				
A	15 mm dia. nominal bore	each	<b>4.00</b>		
B	20 mm dia. nominal bore	each	<b>4.00</b>		
C	25 mm dia. nominal bore	each	<b>2.00</b>		
121.0	Providing and fixing uplasticised PVC connection pipe with brass unions :				
	45 cm length				
	15 mm dia. nominal bore	each	<b>80.00</b>		
122.0	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
	100 mm diameter	each	<b>20.00</b>		
123.0	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard				

	design :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	<b>4.00</b>		
124.0	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	<b>3.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
125.0	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete <b>(New work)</b>				
A	15 mm dia. nominal bore	each	<b>12.00</b>		
B	20 mm dia. nominal bore	each	<b>8.00</b>		
C	25 mm dia. nominal bore	each	<b>4.00</b>		
D	32 mm dia. nominal bore	each	<b>3.00</b>		
E	40 mm dia. nominal bore	each	<b>2.00</b>		
F	50 mm dia. nominal bore	each	<b>2.00</b>		

126.0	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 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 <b>(only syntax make)</b>	per Lit.	<b>3000.00</b>		
127.0	Providing and fixing C.P. brass bib cock / pillar cock of approved quality conforming to IS:8931				
	15 mm dia. nominal bore	each	<b>40.00</b>		
128.0	Repairing and fixing C.P. brass bib cock /stop cock/ Angle valve/ Ball cock/ pillar cock including necessary PVC washer screws etc as required :15 mm dia. nominal bore	each	<b>450.00</b>		
129.0	Providing and and fixing of brass phase of stander desigh and approved make in existing Angle valve/ pillar cock as required :15 mm dia. nominal bore	each	<b>150.00</b>		
130.0	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 dia. nominal bore	each	<b>8.00</b>		
131.0	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	15 mm dia. nominal bore	each	<b>4.00</b>		
132.0	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore				
	15 mm dia. nominal bore	each	<b>30.00</b>		
133.0	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes or PVC pipe including bed concrete as per standard design:				
A	100 mm diameter	metre	<b>10.00</b>		
B	100 mm diameter	metre	<b>6.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>

134.0	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm 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 20mm 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	each	<b>2.00</b>		
135.0	Supplying and fixing C.I. cover without frame for manholes:				
	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	each	<b>3.00</b>		
136.0	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality LD - 2.5				
	Rectangular shape 600x450 mm internal dimensions	each	<b>15.00</b>		
137.0	Cleaning of drain or sewer line with existing manhole including out let drain pipe of toilet etc. bathroom drain of staff quarter. All garbage shall be collected and remove from drain, dumped outside the campus.				
	For pipes 100 to 230 mm diameter	metre	<b>700.00</b>		
138.0	Cleaning of brick masonry manhole including drain pipe complete. All garbage shall be collected and remove from drain, dumped outside the campus.				
A	Inside size 120x90 cm and 90 cm deep	each	<b>10.00</b>		
B	Inside size 90x80 cm and 45 cm deep	each	<b>80.00</b>		



139.0	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 architectural drawings and the directions of engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	For fixed portion				
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	<b>30.00</b>		
140.0	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	<b>20.00</b>		
141.0	For fixing of charge for existing aluminium work for doors , windows, ventilators and partitions with extruded built up including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required PVC / neopren felt etc. Aluminium sections 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 directions of Engineer in - charge . <b>(Materials will be</b>				

	<b>provided department)</b>				
	<b>Only labour Charge</b>	sqm	<b>45.00</b>		
142.0	For labour charge for existing For shutters of doors , 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 architectural drawings and the directions of Engineer in - charge . (glass & board shall be paid for separately)				
	<b>Only labour Charge</b>	nos.	<b>30.00</b>		
143.0	Providing and fixing 12 mm thick prelaminated 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 both sides	sqm	<b>5.00</b>		
144.0	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 . (Cost of aluminium snap beading shall be paid in basic item):				
	With float glass panes of 5.50 mm thickness	sqm	<b>5.00</b>		
145.0	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	each	<b>6.00</b>		
	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
146.0	Repairing/ Fixing of old or existing double action hydraulic floor spring for doors including cost of cutting of floors as required, embedding in floors 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.	each	<b>12.00</b>		
147.0	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	<b>12.00</b>		
148.0	Grading roof for water proofing treatment with				
A	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	<b>2.00</b>		
B	Cement mortar 1:4 (1cement : 4 coarse sand)	cum	<b>6.00</b>		
149.0	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold				

	flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :				
	3 mm thick	sqm	<b>30.00</b>		
	<b>Providing &amp; fixing, all complete as per specification and the direction of Engineer in-charge.</b>				
A	CP Grating 100mm dia	each	<b>50.00</b>		
B	CP Jet and lid	each	<b>15.00</b>		
C	CP Hand Shwer	each	<b>10.00</b>		
D	CP Waste Coupling , 32 mm	each	<b>10.00</b>		
E	Stainless steel self, 450x120x mm	each	<b>5.00</b>		
F	PVC self, 450x120x5 mm	each	<b>5.00</b>		
G	PVC Pipe, 40mm	mtr.	<b>4.00</b>		
H	PVC Pipe, 50mm	mtr.	<b>6.00</b>		
<b>Code No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
I	CP Cup 1/2"	each	<b>10.00</b>		
J	CP Ext. Nipple 1/2"-1"-2"	each	<b>6.00</b>		
K	CP Rod complete, 18"	each	<b>4.00</b>		

L	CP Bottle Trap, 32 mm	each	<b>3.00</b>		
M	Brass Ball cock 1/2"	each	<b>30.00</b>		
N	Brass Ball cock 3/4"	each	<b>15.00</b>		
O	Brass Ball cock 1"	each	<b>6.00</b>		
P	PTMT swan neck one way Tap	each	<b>6.00</b>		
Q	PTMT swan neck Two way Tap	each	<b>6.00</b>		
R	PTMT swan neck three way Tap	each	<b>4.00</b>		
II	<b>Basic Rates of Hire charge &amp; Mdays.</b>				
P	Hire and running charges of tipper	Day	<b>2.00</b>		
Q	Tractor with trolley.	Day	<b>4.00</b>		
R	Hydraulic Excavator (3D)/JCV with driver and fuel. 8000/8= per day1000	Hrs.	<b>20.00</b>		
S	Hire and running charges of Mechanical sewer compressor pump machine 6000/8= per day 750	Hrs.	<b>21.00</b>		
T	Skilled Labour (average) (Mason/Carpenter/plumber/)	day	<b>60.00</b>		
U	Unskilled labour (Beldar/mate/colie)	day	<b>400.00</b>		
			<b>Total</b>		
	<b>Note:</b> Rates shall be quoted in figures and words both for each item. Calculation of the amount of each item				
	and total cost shall be written by the contractor in BOQ of the tender document clearly, failing which				
	tender may be rejected.				

## LIST OF APPROVED MAKES (CIVIL WORKS)

S.No	Materials	Approved Make / Manufactures
1	Adhesive solvent cement	Pedilite, Sikka, Fosroc, CICO,
2	Aluminum Building Hardware	IPSA, Everite, EBCO, ECIE, Hardwin Traders
3	Angle Iron	TATA, SAIL, RINL
4	Anodised Aluminium section	Jindal, Hindalco, Indalco
5	C. P fitting	Parko, EES EES, Mark
6	C.I Cover & Manhole Cover	Bajaj, MES , RIF & NICO
7	Cast Iron Pipes & Fittings Manhole Covers and Frames As per IS: 1729 (Manhole covers and frames)	Bajaj, MES, NECO, BIC Calcutta, Kajeco,
8	Cement (OPC)	ACC, Ambuja, Birla, L&T, J.P.Rewa,
9	Cement Primer	Asian, Nerolac, Dulux
10	Ceramic Tiles/ Vitrified Tiles	Kajaria, Nitco, Orient, Somany, H & R Jonhson
11	CP Brass fittings & Accessories	Ess-ess, Mark, Parko
12	Door lock	Godrej, Harrison, link
13	Epoxy Paint	Asian, Nerolac, Dulux
14	G. I Fitting	UNIK, DRP-M, KENT, ZOLOTO-M
15	G. I Sheet	TATA, RINL, Jindal, SAIL
16	G. I. Chain Link or barbed wire fencing	TATA, SAIL, Kamdhenu
17	G. I. Pipe	Jindal, Prakash surya, TATA
18	Gate/ wheel valve	Leader, DRP, ZOLOTO
19	Glass, Mirror (Float/ Sheet)	Modiguard, Saint Gobian, TATA Continantal
20	GM/ Forged Brass Ball Valves	Zoloto, DRP, Sant / Leader
21	Gun metal valves	Leader

22	Hydraulic door closer	Everest, Godrej
23	M. S. pipe	TATA, SAIL, RINL
24	Mild steel Bar / TMT bar	SAIL, TATA, RINL, Rathi, Kamdhenu
25	Oil bound distemper paint	Asian, Nerolac, Dulux
26	Orissa Pan, W.C, Vitreous china sink and wash basin, Urinal etc.	Hindware, Orient, Cera, Paryware
27	Paver Tiles	Endura, Marbonite
28	Plastic Emulsion Paint	Asian, Nerolac, Dulex
29	Polymer Sealent for expansion Joint	SIKA, CICO, Pidilite, G.E. Silicon.
30	Pre-Coated iron Galvanized profile sheet and accessories	Lioydeck, Trackdeck, Multiclad, TATA Bluescope
31	Pre-laminated particle board	Kitlam, Durolam, Anchor, Durian, Novappan
32	PTMT fitting	Prayag, Praksh Surya
33	PVC flushing cistern	Hindware, Cera, Parryware
34	PVC plastic seat (W.C)	Commonder, Hindustan Sanitary ware, Hindware
35	Rain Water & PVC Pipes & Fitting	Prince, Supreme, Finolex, SFMC
36	RCC Pipe	Ashok Cement Pipe, Indian Hume Pipe, KK
37	Sealant and Additives	Asian Paints, Fosroc, Pidilite
38	Stainless Steel Sink	Nilkanth, Nirali, Jayna, Crysil
39	Synthetic enamel paint/ primer	Asian, Nerolac, Dulux
40	Textured exterior paint	Asian, Nerolac, Dulux
41	Varnish	Asian, Nerolac, Dulux
42	Wall Putty	JK Wall Putty, Birla Putty
43	Water Proofing Compound	FOSROC, SIKA, CICO
44	Water proofing paint/ Snowcem	Snowcem-plus, Nerolac
45	White Cement	ACC, Birla, JK Birla, Ultra-Tech
46	18mm/12mm/6mm /4mm Ply Board	Confore, Garnix, Century, Douro

47	Fevicol	Pidilite, SH
48	Mica	Mrirrino, Greenlam, Kitlam
49	Fly Proof Galvanised Wiremesh	Power
50	Water Storage Tank	Sintex

Note :-

- 1.0 Choice of selection materials to be used in work out of the approved list shall remain with Engineer of the work.
  
- 2.0 The work shall be carried out strictly according to lasted CPWD Specification and in confirmation to I. E. rules.

Signature of Contractor