

BILL OF QUANTITY FOR CONSTRUCTION OF OFFICE TOILET IN THE WARE HOUSE AT MUZAFFARPUR

BASED ON S.O.R. B.C.D.GOV. OF BIHAR EFFECTIVE FROM 11/ /08/2013/DSR-2012/MR						
SL.NO	sor ref no	DESCRIPTION	UNIT	RATE	QTY.	AMOUNT
1	23.2.5	Making 25 cm (10") dia bore up to 4 mtr depth below ground with hand auger of approved quality in ordinary soil (vide classification of soil item A) true to plumb and without eccentricity in any stage of operation and disposal of the excavated earth up to 50 mtr, Lead including all lifts , all complete as per approved design and direction of E/I	metre	80.40	12.00	964.80
2	23.2.6	63 CM (25) UNDER -REAM Making 63 cm (25) dia under ream at required with hand auger of approved quality in ordinary soil (vide classification of soil item - A) true to plumb and without eccentricity in any stage of operation and disposal of the excavated earth up to 50 mts lead including all lifts , all complete as per approved design and direction of (E/I)	each	85.70	4.00	342.80
3	15.3	Demolishing R.C.C. work (chizzled off pile head for removing of weak concrete and get hard concrete)including stacking of steel bars and disposal of unserviceable material within 50 metres lead:	Cum	669.20	0.06	39.40
4	2.8	Earth work in excavation in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
	2.8.1	All kinds of soil	Cum	178.40	0.76	134.87

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5	2.28	Supplying and Filling in plinth with local sand and under floors including watering, ramming consolidating and dressing complete.	cum	186.30	2.76	514.65
6	4.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-All work up to plinth level:				
	4.5.5	1:3:6(1 Cement:3 coarse sand: 6 graded stone aggregate 20mm nominal size)	cum	2688.70	0.74	1980.56
7	4.9	Centering and shuttering including strutting, proping etc. and removal of				
	4.9.1	Foundations, footings, bases for columns	Sqm	137.80	0.38	51.68
8	4.25	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size).	Sqm	211.00	3.13	659.38
9	4.26	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by the manufacturers.	per 50 kg cement	33.86	1.00	33.86
10	5.42	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grde reinforcd				
	5.42.1	All work up to plinth level	cum	3875.40	1.90	7377.79
	5.42.2	All work from plinth level upto floor V level				
	5.42.2.1	Walls columns, pillars, posts cind struts	Cum	4120.00	0.76	3115.75
	5.42.2.2	Beams, planth beams, girders, bressumers, contilevers, Suspended floors lintels roofs and staircases including spiral staircases, shelves etc.	cum	4312.40	1.90	8193.56

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11	5.14	Centering and shuttering including strutting, propping etc. and removal of form for:				
	5.14.4	roof slab	sqm	229.90	9.60	2207.04
	5.14.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	195.60	7.30	1427.88
	5.14.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	sqm	283.30	15.40	4362.82
	5.14.16	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	sqm	152.10	10.55	1604.27
12	5.29	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete.				
	5.29.1	Mild steel 6.00mm dia	Kg	63.40	27.00	1711.80
	5.29.7A	Thermo-Mechanically Treated bars TMTC-500-8mm dia	Kg	67.00	217.00	14539.00
	5.29.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia	Kg	65.70	176.00	11563.20
	5.29.7C	Thermo-Mechanically Treated bars TMTC-500-12mm dia	Kg	65.10	117.00	7616.70
	5.29.7D	Thermo-Mechanically Treated bars TMTC-500-16mm dia	Kg	65.70	0.00	0.00
	5.29.7E	Thermo-Mechanically Treated bars TMTC-500-20mm dia	Kg	65.50	0.00	0.00
	5.29.7F	Thermo-Mechanically Treated bars TMTC-500-25mm dia	Kg	65.50	0.00	0.00
13	6.1A	Brick work with bricks of class designation 100A in foundation and plinth in:				
	6.1.14A	Cement mortar 1:6(1 cement:6 coarse	cum	3743.50	9.01	33710.22
14	6.3A	Extra for Brick work in superstructure above plinth level upto floor V Level	cum	378.80	6.35	2406.80
15	6.18A	Half brick masonry with bricks of class designation 100A in foundations and plinth in :				
	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse	sqm	458.70	6.79	3113.43

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16	6.19A	Extra for half Brick masonry in superstructure above pinth level upto floor V level.	sqm	41.40	6.79	281.00
17	6.21A	Extra for providing and placing in position 2 nos. 6mm dia, MS bars at every third course of half brick	sqm	68.70	6.79	466.30
18	9.215	Providing and fixing ISI marked aluminium butt each anodised (anodic coating not less than grade AC 10 as				
	9.215.4	100x63x4mm	Each	85.90	6.00	515.40
19	9.1.8	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and				
		Sal wood-	Cum	71075.10	0.04	3060.67
20	9.25	Providing and fixing flush door shutters 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:				
	9.25.2	35mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	sqm	1711.60	1.95	3341.47
21	9.87	providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bots,nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement :3 coarse sand :6 graded stone aggregate 20 mm nominal size)	each	75.50	6.00	453.00
22	9.82	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.				
	9.82.1	Fixed to steel windows by welding	Kg	83.90	7.20	604.08
	9.82.2	Fixed to openings / wooden frames with rawl plugs screws etc.	Kg	84.90	0.00	0.00

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22	DSR 9.119	Providing and fixing factory made P.V.C door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S square tube, the vertical door profiles to be reinforced with 19x19mm M.S square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.	Metre	404.60	10.04	4062.18
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23	9.120.1 DSR	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on both side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10mm (5mm x 2 ) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both side PVC sheet to be fitted in the				
	9.120.1	30 mm thick plain PVC door shutters.	sqm	2499.20	2.71	6779.33
24	9.215	Providing and fixing ISI marked aluminium butt each anodised (anodic coating not less than grade AC 10 as transparent or dyed to required colour or shade with necessary screws etc. complete.				
	9.215.4	100x63x4mm	Each	85.90	6.00	515.40
25	9.218	Providing and fixing aluminium sliding door bolts anodised (anodic coating not less than grade AC 10 as per IS:1868) transparent or dyed to required colour and shade with nuts and screws etc. complete:				
	9.218.1	300x16mm	Each	213.10	1.00	213.10

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	9.218.2	250x16mm	Each	175.70	2.00	351.40
26	9.219	Providing and fixing aluminium tower bolts 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:				
	9.219.1	300x10mm	Each	106.10	2.00	212.20
	9.219.4	150x10mm	Each	62.30	4.00	249.20
27	9.222	Providing and fixing aluminium handles 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:				
	9.222.1	125mm	Each	66.30	2.00	132.60
	9.222.3	75 mm	Each	44.20	4.00	176.80
28	9.223	Providing and fixing aluminium hanging floor door stopper 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.				
	9.223.2	Twin rubber stopper	Each	73.30	3.00	219.90
29	10..12	Providing and fixing steel glazed doors, windows and ventilatrs of standard rolled steel sections, joints mitered and welded with 15x3 mm lugs 10 cm long with steel lugs embedded in cement concrete blocks 15x10x10 cm of 1:3:6(1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with woodenplugs and screws or rawl plugs and screws <i>or</i> with fixing clips or with bolts and nuts as required, including providing and fixing of glass panes with glazing clips and special metal-sash putty of approved make complete including applying a priming coat of approved steel primer; excluding the cost of metal beading and other fitting				
	10.12.1	Ventilators	sqm	2924.00	0.72	2105.28

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30	8.2	Providing and fixing 20mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias and similar locatins of required size of approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement :4 coarse sand) with joints treated with white cement, mixe* with matching pigament-epoxy touch ups. including rubbing, curing etx. complete at all lbevels.				
	8.2.6	Granite black				
	8.2.6.3	Area of each slab over 0.2 sqm but upto 0.5 sqm Granite of any colour and shade	sqm	2762.20	0.00	0.00
31	8.3	Extra for providing edge moulding to 18 mm thick marble stone counters, Vanities etc. over item no. 8.2 including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer -in -charge.				
	8.3.2	Granite work	m	211.60	0.00	0.00
32	11.36	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 12mm thick bed of cement Mortar 1:3(1 cement: 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	844.00	13.49	11381.34



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33	11.48	Kota stone slab flooring over 20mm (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.				
	11.48.1	25mm thick	sqm	909.40	7.73	7025.12
34	11.49	Kota stone slab 25mm thick in risers of steps skirting. Dado & pillars laid on 12mm (average thick cement mortar 1:3( 1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete.	sqm	1133.10	2.95	3339.81
35	11.72	Providing designation 100A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	sqm	212.90	9.60	2043.84
36	12.1	Providing corrugated G.S. sheet roofing fixed with G.I.J. or hooks, bolts and nuts 8 mm diameter with bitumen and G. I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on over lapping of sheets complete (upto a pitch of 60°) excluding the cost or purlins, rafters and trusses.				
	12.1.4	0.8mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	sqm	763.10	11.40	8699.34
37	13.11	12mm cement plaster of mix:				
	13.11.4	1:6(1 cement: 6 coarse sand)	sqm	79.10	24.67	1951.59
38	13.12	15mm cement plaster on the rough side of single or half brick wall of mix:				
	13.12.4	1:6(1 cement: 6 course sand)	sqm	91.60	24.67	2260.00
39	13.13	20mm cement plaster of mix:				
	13.13.2	1:4(1 cement: 4 course sand)	sqm	128.10	42.91	5496.13

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40	13.70	White washing with lime to give an ever shade				
	13.70.1	New work (three or more coats)	sqm	9.00	92.25	830.25
41	13.81	Applying priming coat:				
	13.81.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	20.50	5.37	110.04
	13.81.3	With ready mixed red oxide zinc chromate yellow primer of approved brand and manufacture on steel galvanised iron/steel works	sqm	16.40	1.44	23.62
42	13.94	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
	13.94.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	sqm	64.80	6.81	441.13
43		<b>Carriage of Materials:-</b>				
	A	Bricks (local lead 1K+7P)	PER TH.	596.00	5.14	3064.43
	B	Coarse sand koilwar(Lead 1+120 KMP)	Cum	941.12	7.20	6776.06
	C	Stone Chips kodarma(Lead 235 KMP)	Cum	2736.00	5.00	13680.00
	D	Local Sand ( Lead local 1K+2P)	Cum	1493.12	4.00	5972.48
	E	Cement Lead-5 K.M.P	MT	197.50	3.21	633.04
	F	Steel Lead-5 K.M.P	MT	197.50	0.389	76.78
44		<b>Difference of Cost:-</b>				
	A	Bricks 100A	%0 nos	269.85	5.14	1387.48
	B	Cement	MT	912.54	3.21	2924.93
45	DSR	Providing and fixing CPVC PIPE WITH (internal work). Exposed on walls				
	18.7.3	25 mm nominal outer dia .Pipes.(M)	metre	197.90	25	4947.50
46	18.8	PROVIDING CPVC Concealed pipet,cutting chases and making good the wall.				0
a	18.8.1	15 mm dia nominal bore.	metre	218.65	10	2186.5
b	18.8.2	20 mm dia nominal bore.	metre	243.05	8	1944.4

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47	BSR-1.9	Providing and fixing brass gate valve with C.I. wheel of approved quality (screwed end).				
b	1.9.3	25 mm nominal bore	each	210.96	1	210.96
48	BSR-1.89	Providing and placing on terrace(at all floor levels) polythylene water storage tank of approved brands and manufacture with cover and suitable locking arrangement and making necessaryholes for inlet,outlet and overflow pipes but without fittings and the base support for tank.	per litre	7.14	500	3570
49	BSR-1.90	Providing and fixing C.P. brass , bib cock of approved quality conforming to IS : 8931	each	204.71	3	614.13
	(a)	15 mm nominal bore				
50	BSR-1.92	Providing and fixing C.P. brass long body, bib cock of approved quality conforming to IS standard and weight not less than 690 grams.	each	537.32	1	537.32
	(a)	15 mm nominal bore				
51	BSR-1.94	Providing and fixing C.P brass angle valve for basin mixer and gyser point of approved quality conforming to IS : 8931	each	232.25	1	232.25
	(a)	15 mm nominal bore				
52	DSR	Providing and fixing water closet squatting pan (indian type W.C. pan) with 10 LITRE PVC CISTERN cistern with fittings,C.I./M.S. brackets 40 mm diameter flush bend with fittings and clamps,overflow arrangement with speicals and mosquito proof coupling of aproved municipal design complete including painting of fittings and brackets,cutting and making good the wall and floors wherevere required	each	2,964.10	1.00	2964.1
	17.1	white 580x440 mm				
53	SR-2.10A	Kitchen sink with drain board	each	2,720.88	1.00	2720.88
	2.10A.1.1	510 x 1040 bowl depth 178 mm				
54	DSR 17.7	Providing and fixing white viterous china wash basin including making all connection but the cost of fittings.	each	1,628.95	1.00	1628.95
	17.7.2	Flat back wash basin of size 630X450 MM WITH SINGLE 15 MM BRASS PILLER COCK				
55	BSR- 2.38A	Providing and fixing stainless steel jail (grating) with or without hole for waste pipe for floor/nahani trap	each	23.14	2.00	46.28
	2.38A.2	100 mm dia weight not less than 100 gms				

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56	BSR-2.42.1	Providing and fixing mirror of require shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing.	each	343.66	1.00	343.66
	2.42A.2	Rectangular shape 453 x 357 mm				
57	BSR-2.44	Providing and fixing towel rail complete with brackets fixed to wooden cleats with C.P. brass screws	each	190.28	1.00	190.28
	2.44.1.1	C.P. brass towel rail with two C.P. brass brackets				
	2.44.1.2	600 x 20 mm size				
58	BSR-2.45	Toilet paper holder	each	112.21	1.00	112.21
	2.45.1	C.P.brass				
59.00	DSR-17.72	Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm wide with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality and colour. Weighing not less than 88 gms.	each	169.85	1.00	169.85
60	DSR-18.65	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.	each	151.10	1.00	151.1
61	12.78	Providing and fixing on wall face UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (10kg/sqcm) including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.	metre	188.40	10.00	1884
	12.78.2	110 mm dia pipe.				
62	12.79	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.	each	151.25	2.00	302.5
	12.79.5.2	Plain bend(110 mm bend)				
63	2.6	Earth work in excavation over areas (exceeding 30 cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m; disposal earth to be levelled and neatly dressed.				
	2.6.1	All kinds of soil	cum	174.50	16.85	2,939.98

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64	2.3	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.	cum	57.80	4.40	254.15
65	2.3	Supplying and filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	cum	186.30	1.30	241.44
66	11.7	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	sqm	212.90	17.28	3,678.91
67	4.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level.				
68	4.5.6	1:3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	2554.60	1.73	4,414.35
69	5.4	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering, finishing and reinforcement, M-20 grade reinforced cement concrete				
	5.42.1	All work upto plinth level	cum	3875.40	3.70	14,335.10
70	5.1	Centring and shuttering including strutting, propping etc. and removal of form for:				
	5.14.1	Foundations, footings, bases of columns, etc., for mass concrete.	sqm	137.78	11.52	1,587.23

71	5.3	Reinforcement for RCC work including straightening. Cutting, bending, placing in position and binding all complete.				
		Thermo-Mechanically Treated bars				
	5.29.7	TMTC-500-10 mm dia.	kg	65.70	170.00	11,169.00
72	11.4	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such shades except white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc., complete.	sqm	922.00	53.00	48,866.00
73	10.2	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. complete:				
	10.16.2	Hot finished seamless type tubes	kg.	83.40	700.00	58,380.00
74	13.0	Structural steel work in singal section fixed without connecting plate including cutting,hoisting,fixing in position and applying a priming coat of approved steel primer all complete.				
			kg.	55.40	80.50	4,459.70

75	12.8	<p>Providing and fixing at all height false ceiling of 12.5 mm thick -tapered edge gypsum board conforming to IS : 2095 including -providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanized in accordance with zinc coating 600 as per IS : 277 and consisting of angle cleats of size 25 mm wide x 16 mm thick with flanges of 22 mm and 27 mm at 1200 mm centre to centre one flange fixed to the ceiling with dash fastener 12.5 mm dia x 40 mm long with 6 mm dia bots to the angle hangers of 25x25x5 mm of required length, and other end of angle hanger being fixed with nut and bots to rate 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 clips of 10.5 mm at 450 mm centre to centre shall be be fixed in a direction perpendicular to</p>	SQm	761.8	53.00	40,375.40
76		<p>G. I. channel with connecting clips made out of 2.64 mm dia x 230 mm long G. I. wire at every junction including fixing the gypsum board with ceiling section and 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 to centre with 25 mm long dirve-all screws @ 230 mm interval including jointing and fixing to a flush of tapered and square edges of the gypsum board with recommended filler., paper tapes, finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the coat cutouts made with frame of perimeter channels suitably fixed all complete as per-</p>	KG	366.20	600.00	2,19,720.00

77	24.1.1	<p>Providing and fixing anodised aluminium work for doors, windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285, anodised transparent or dyed to required shade according to IS : 1868, (Minimum anodic coating of grade AC 15), fixed with rawl plugs and screws or 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 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 and panelling to be paid for separately.)</p>	kg	366.20	1073.43	1,073.43
	24.1.2	<p>For shutters of doors, windows &amp; 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.)</p>	kg	384.35	22.68	8,717.06



78	24.3	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 bading shall be paid in basic item.)				
	24.3.2	With glass panes of 5.50 mm thickness(weight not less than 13.75 kg/sqm)	sqm	909.90	54.33	49,433.05
79	9.54.2	Providing and fixing in wait lining fiat pressed 3 layer and graded (medium density) particle board prelaminated one side decorative lamination on other side balancing lamination grade 1 ,type 2 conforming to IS : 12823 including priming coat on unexposed surface with necessary fixing arrangement and screws etc.complete 18mm thick	sqm	1196.10	51.00	61,001.10
80	24.40	Providing and fixing double action hydraulic floor spring of approved brand and manufacture (conforming to IS: 6315) for aluminium doors including cost of cutting floors as required, embedding in floors and cover plates etc. complete as per the direction of engineer-in charge.	EACH	2016.30	2.00	4,032.60
81	9.2	Providing and fixing aluminium sliding door bolt anodised (anodiccoating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with nuts and screws etc.				
	5.3.1/ 9.218.2	250 x 16 mm	each	175.70	4.00	702.80

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82		Wiring for light point/fan point/exhaust fan point/call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class pvc conduit, with piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.				
	1.8.1	Group A	N	416	14	5824
83		Wiring for light/power plug with 2x4 sq.mm FR PVC insulated copper conductor single core cable in surface/recessed medium class PVC conduit along with 1 No 4 sq.mm FR PVC insulated copper conductor single core cable for loop earthing as required.	N	20	162	3240
	1.12					
3		Wiring for circuit/submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.				
a		2 x 2.5 sq.mm + 1 x 2.5 sq.mm earth wire	M	40	131	5240
	1.14.2					
84		Supplying and fixing metal box of 180mm x 100mm x 60mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6 amps socket outlet and 15/6 amps piano type switch, connection, painting etc. as required. (Distribution for light plugs to be used in non residential buildings).	N	7	225	1575
	1.29					

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85	2.18	Supplying and fixing 20 A 240 V SPN industrial type socket outlet with 2 pole and earth, metal enclosed plug top along with 20 A CURVE SP MCB in sheet steel enclosure on surface or in recess with chain metal cover for the socket outlet and complete with connection testing and commissioning as required conduit as required.	N	2	693	1386
86		Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
	1.21.1	20 mm	M	75	56.5	4237.5
87	1.29	Supplying and fixing metal box of 150mm x 75mm x 50mm deep (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 3 pin 5/6 amps socket outlet and 5/6 amps piano type switch, connection, painting etc. as required. (Distribution for light plugs to be used in non residential buildings).	N	2	152	304

88		Supplying and fixing following way prewired SP&N MCB distribution board of steel sheet for 240 volts on surface/recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detechable gland plate, interconnections, power painted including earthing etc. as required. (But without MCB/RCCB/isolator)				0
	2.7.6	2+12 way double door	N	1	3108	3108
89		Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	N	12	141	1692
	2.10.1					
90		Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.12.2	63 amps	N	1	303	303
		supplying and fixing following size of pvc insulated copper conductor single core cable in the existing surface/ recessed steel pvc conduct as required 3 x1.5 sq mm commissioning etc. as required.	N	1	3996	3996
91	1.17.3					
<b>B.</b>		<b>Earthing And Lightening Protection</b>				

92	5.4	Earthing with G.I. earth plate 600 mm x 600 mm x 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/coke and salt as required.	N	1	3996	3996
93	5.12	Providing and fixing 25 mm x 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nutm bolt, spring, washer excavation and re-filling etc. as required.	N	10	131	1310
94	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, with all accessories and tube etc. directly on ceiling/wall, including connection with 1.5 sq.mm FR PVC insulated, copper conductor, single core cable and earthing etc as required.	N	8	69.5	556
<b>SUPPLY OF FIXTURE</b>						
95	MR	wall mounted Ac Ceiling fan with double ball bearing complete in all respects with accessories.	N	6	1500	9000
96	MR	FBS 450 2x pl-I 36 w 1c M2 DF-WH (PHILIPS) COMPLETE WITH PL LAMP	N	9	3000	27000
97	MR	S/F/F 1.M T SPLIT AIR CONDITIONER WITH STABILIZER OF SUITABLE CAPACITY(ISI) OF RUPUTED(PAYMENT WILL BE MADE ON THE BASIS OF ACTUAL BILL) MAKE,SAMSUNG/VOLTAS	N	2	40000	80000

98	Boring by Jet or dheki process or any other process, reamed by suitable reducer or by suitable cutter as the case may be and lowering UPVC blue casing pipe and G.I Pipe cutting the pipe if necessary, fitting and fixing strainer of standard quality, Shoe Plug, Sockets etc. all complete including providing all tools and plants required for the job as per specification and direction of E/I. Vide classification of soil item - A				
	From G. L. to 30.5 m depth below G.L				
	i) Upto 21 m below G.L				
	125mm UPVC blue casing pipe	M	210.68	21	4424.28
	ii) Upto 30.50 m below G.L				
	40 mm dia G.I Pipe	M	88.29	9.5	838.755
	iii) From 30.5mm to 46 m below G.L				
	40 mm dia G.I Pipe & UPVC strainer	M	101.52	15.5	1573.56
99	Fitting & Fixing following G.I fittings all complete as Specification and direction of E/I				0
	i) Reducing socket 125 mm X 40 mm	N	272.1	1	272.1
	ii) Plug / Cap 125 mm dia	N	142.65	1	142.65
100	Providing Labour for fitting & fixing deep cylinder with necessary suction, connecting rod				
	A) Fitting & Fixing cylinder in T/W with necessary connecting rod	N	111.47	1	111.47
	B) Lowering, Fitting, & Fixing 65 mm dia G.I pipe in T/W with cylinder and H.P	N	40.24	18	724.32
	C) Fitting & Fixing IM-III HP with connecting rod	N	112.14	1	112.14
101	Providing labour for developing of T/W till the discharge mixed with sand vanishes and flow of clean water starts as per specification and direction to E/I	N	323.15	1	323.15

102		Carriage by bullock cart including loading, unloading of one set of T/Well materials to work site including bamboo, rope, T & P etc. including returning back surplus materials from worksite to godown as per direction of E/I Average lead has been considered for payment 25 km				
		Wt. of one set 0.50 MT for 25 km av.lead	N	365.87	1	365.87
		B. Construction of P.C.C Platform and Drain				
103		Providing all materials, labour and constructing P.C.C Platform of 1850 MM dia 183.50 mm average thick bed in slope of 1 in 50, 100 mm wide X 97 mm (av.) deep apron all around the platform including constructing 200 mm thick foot rest of size 1M X 1M in PCC (1:2:4) including providing PCC (1:2:4) - 76 CM X 76 CM X 40 CM for fixing stand assembly including 1.5 mm thick cement punning on bed design, drawing and specification of I.S 15500/2004 and direction of E/I	N	3296.92	1	3296.92
104		Providing all materials and labours and constructing 100 mm wide PCC (1:2:4) drain having 143 mm (av.) thick bed with 80 mm wide 117 mm av. Deep apron both side in PCC (1:2:4) including 1.5 mm thick neat cement punning over exposed surface of bed, apron of the drain etc. all complete as per approved drawing, specification of I.S 13056; 1991 and direction of E/I	N	323.7	3	971.1
		c. Material cost				
105		Cost of IM-III HP set with cylinder, B.S connecting rod-6 Nos and all accessories conforming to 15500/2004	N	8170.9	1	8170.9

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106		Cost of 125 mm UPVC blue casing pipe as per relevant ISS	M	188.15	21	3951.15
107		Cost of 40 mm dia light quality G.I pipe as per relevant ISS	M	188.16	21	3951.36
108		Cost of 65 mm dia X 3 mtr long medium class G.I G.I pipe as per relevant ISS	M	1072.62	6	6435.72
109		Cost of 40 mm X 2 mm long UPVC ribbed screen pipe (strainer) as per relevant ISS	N	183.91	2	367.82
110		S/F/A 1.H.P. JET PUMP WITH STARTER & COLUMN PIPE UP TO REQUIRED DEPTH	N	20000	1	20000
						978467.92