

OFFICE OF THE MUNICIPAL CORPORATION, KORBA (C.G.)

ABSTRACT

OF WORK :- CONSTRUCTION OF FIRST FLOOR MAHARANA PRATP SABHA BHAWAN RAM JANKI PARISAR SAMUDAYIK BHAWAN WARD NO 28

ER SOR : SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT (PWD BULDING) (01-01-2015)

PWD ELECTRICAL SOR 01.06.2020

SN	ITEM DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.				
		24.25	cum	185.00	4486.25
2	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.				
	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	14.13			
		14.13	cum	2970.00	41966.1
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).				
		7.50	cum	4073.00	30547.50
3	Providing filling and compacting local earth (from approved source pit) in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.	9.00	cum	242.00	2178.00
4	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.				
		3.60	cum	371.00	1335.6
5	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:				
	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.	52.04			
		52.04	sqm	139.00	7233.56
	Columns, Pillars, Piers and likes- rectangular or square in shape	112.27			
		112.27	sqm	297.00	33344.19
	Beams, lintels, cantilevers & walls	130.14			
		130.14	sqm	202.00	26288.28
	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	187.92	sqm	235.00	44161.2
	Stair cases of all types excluding spiral and folded plate type, including risers and landings	9.30	sqm	230.00	2139.000

	for shade, chhajja, Cornices and mouldings	15.66	sqm	294.00	4604.04
	of slab, breaks in floor and walls upto 200mm.	66.60	m	34.00	2264.4
	providing and laying nominal mix reinforced cement concrete with graded stone aggregate using concrete mixer in all works upto plinth excluding cost of form work.				
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	58.55			
	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth	58.55	cum	4163.00	243743.65
7		58.55	cum	97.50	5708.625
8	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:				
	Thermo-Mechanically treated bars FE 415	6440.01	kg	54.50	350980.55
9	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:				
	Cement Mortar 1:5 (1 cement : 5 coarse sand)	70.86			
		70.86	cum	3350.00	237381.00
10	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	70.86	cum	121.00	8574.06
11	Providing and making 12mm thick cement plaster of mix:				
	In Cement Mortar 1:5 (1 cement : 5 fine sand)	429.90			
		429.90	sqm	96.50	41485.35
12	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:				
	In Cement Mortar 1:5 (1 cement : 5 fine sand)	449.58			
		449.58	sqm	113.00	50802.54
13	Providing and making 6mm thick cement plaster of mix				
	In Cement mortar 1:4 (1 cement : 4 fine sand)	182.70	sqm	87.00	15894.90
14	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Altek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.	1062.18	sqm	94.50	100376.01
15	Applying one coat of cement primer on wall surface (applied @ 0.80 litrs/10 sqm) complete.	1062.18	sqm	23.00	24430.14
16	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:				
	On 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)	1062.18	sqm	56.00	59482.08


	on new work (two or more coats) to give an even shade				
	synthetic enamel paint	27.44			
		27.44	sqm	55.00	1509.20
18	Providing and fixing factory made PVC door shutters of specified thickness made of styles and rails of a UPVC hollow section of specified size 59x24 mm and wall thickness 2 mm \pm 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws.				
		10.50	sqm	2399.00	25189.50
19	24 mm thick door shutters with styles and rails of size 59x24 mm Providing and fixing flush door shutters, core of block board construction with frame of first class hard wood and well matched first class Indian teak ply veneering on one face and commercial ply veneering on the other face of the shutter with vertical grains, cross bands and face veneering excluding hinges.				
		10.50	sqm	2034.00	21357.00
	40 mm. thick (single leaf)				
	25 mm. thick (double leaf for cupboard shutters with piano type hinges)	2.94	sqm	1380.00	4057.20
	Extra for double leaf shutter instead of single leaf	2.94	sqm	52.00	152.88
20	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:				
	75x65x4.00 mm (Heavy Type)	18.00	each	75.50	1359.00
21	Providing and fixing brass door latch with brass polished MS screws complete:				
	300x16x5 mm	6.00	each	398.00	2388.00
22	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:				
	250x10mm	11.00	each	276.00	3036.00
23	Providing and fixing bright finished brass door handles with brass polished MS screws complete:				
	125 mm	24.00	each	55.50	1332.00
24	Providing and fixing antique/ SS finished brass hanging door stopper with necessary antique/ SS finished MS steel screws complete.				
		7.00	each	49.50	346.50
25	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.				
		175.00	kg	67.50	11812.50
26	Providing and fixing M.S. fan clamp/hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop.				


		5.00	each	97.00	485.00
	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 1285, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/ floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:				
	For fixed portion	115.15			
		115.15	kg	331.00	38114.65
28	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/ neoprene gasket required (Fittings shall be paid for separately).				
		80.85	kg	338.00	27327.30
29	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized	80.85	kg	27.00	2182.95
30	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):				
	With float glass panes of 5 mm thickness	17.92			
		17.92	sqm	708.00	12687.36
31	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), 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 600x600mm	120.56			
		120.56	sqm	1151.00	138764.56
32	Providing and fixing ceramic glazed wall tiles conforming to IS : 15622 of approved make, colours, shades and size on wall 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 matching pigment complete.				
	Size above 200x300mm	79.80	sqm	646.00	51550.80
33	Providing and laying rectified ceramic glazed floor tiles of size 300x300mm and above conforming to IS : 15622 of approved make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.				
	Size above 300x300mm	18.15	sqm	905.00	16425.75

	or providing and laying vitrified floor tiles with 2-5mm groove in between the tiles including grouting the groove with water resistant epoxy compound or with white cement and approved pigments etc. complete.				
	size 600x600mm	18.15	sqm	54.00	980.10
	Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
	White Orissa pattern W.C. pan of size 580x440 mm	3.00	each	2899.00	8697.00
36	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :				
	White wall hung type	2.00	each	4415.00	8830.00
37	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				
		1000.00	litre	7.30	7300.00
38	Providing and fixing on wall face or under floor UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete.				
	110 mm dia pipe.	30.00	metre	267.00	8010.00
39	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.				
	Tee/ Tee with door/ Bend 45°/ Bend 90°				
	110 mm	10.00	each	154.00	1540.00
	Nahani trap 110x75mm	8.00	each	90.50	724.00
40	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
	INTERNAL WORK - EXPOSED ON WALL				
	15 mm nominal outer dia .Pipes.	20.00	metre	110.00	2200.00
	25 mm nominal outer dia .Pipes.	20.00	metre	199.00	3980.00
41	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This included jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
	EXTERNAL WORK				

	nominal outer dia pipes	20.00	metre	91.50	1830.00
	nominal outer dia pipes	20.00	metre	125.00	2500.00
	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality:				
	Stop cock (250 grams)	8.00	each	185.00	1480.00
	Stop cock (350 grams)	3.00	each	237.00	711.00
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:				
	Pillar Cock (400 grams)	5.00	each	398.00	1990.00
	Two way bib cock (800 grams)	5.00	each	708.00	3540.00
	Bottle trap set with extension pipes	5.00	each	473.00	2365.00
	Shower rose (revolving type) (150mm)	5.00	each	269.00	1345.00
	Health foscet (hand jet) with flexible connection pipe (for WC)	5.00	set	774.00	3870.00
44	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):				
	25 mm nominal bore	5.00	each	436.00	2180.00
45	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :				
	White Size 550x450 mm	5	each	1430.00	7150.00
46	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete				
	32 mm dia	5	each	68.50	342.50
47	Structural steel work riveted or bolted or welded in built-up sections, trusses and frames work upto a height of 5m above plinth level, including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.				
		290.00	kg	66.00	19140.00
48	Supply and fixing of polymer precoated galvalume profile sheets (PPGL) of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto 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.				
		50.00	sqm	693.00	34650.00

	g and fixing water closet squatting pan (Indian type W.C. pan m sand cast Iron P or S trap, 10 litre low level P.V.C. flushing (same colour) conforming to IS : 7231, with flush bend and fittings and fixtures complete including cutting and making the walls and floors wherever required :				
	White Long pattern W.C. pan of size 580 mm	5	each	2459.00	12295.00
50	15 mm thick Table rubbed polished Granite stone slab in risers and treads of steps skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m)				
	Granite stone black	18.45			
		18.45	sqm	2719.00	50165.55
		35.00	metre	126.00	4410.00
51	Extra for nosing in Granite stone for treads				
		TOTAL			1891710.32
		ELECTRIFICATION			108290.00
		TOTAL			2000000.32


Sub Engineer
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Asst. Engineer
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