

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

DETAILED ESTIMATE

Name of work:- Construction and extension of first floor building of chamber of commerce at ward no 3 saket nagar

As per SOR: Schedule of rates public works department [PWD BUILDING-01-01-2015]

S.N.	SOR Ref.	ITEM DESCRIPTION	NO	L	B	D/H	QTY	UNIT	RATE	AMOUNT
2	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	5	Columns, Pillars, Piers and likes-rectangular or square in shape								
			28	1.2		3	100.8			
			15	1.2		0.9	16.2			
						Total =	117.00	sqm	297.00	34749.00
	7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		SLAB	1	18.90	13.80		260.82			
			2	18.10	0.125		4.53			
			2	13.80	0.125		3.45			
		chajja	14	1.80	0.600		15.12			
			14	3.00	0.100		4.20			
		PORCH	1	13.80	0.600		8.28			
			1	6.20	4.200		26.04			
						Total =	322.44	sqm	235.00	75772.23
	8	Beams, lintels, cantilevers & walls								
		lintel	4	18.10	0.20		14.48			
			4	13.80	0.20		11.04			
			4	4.20	0.20		3.36			
			2	6.20	0.20		2.48			
			4	3.50	0.20		2.80			
			4	1.80	0.20		1.44			
		TOP	4	18.10	0.20		14.48			
			5	13.80	0.20		13.80			
			4	4.20	0.20		3.36			
			2	6.20	0.20		2.48			
			4	3.50	0.20		2.80			
			4	1.80	0.20		1.44			
			5	13.80	0.40		27.60			
			2	13.80	0.30		8.28			
			6	6.20	0.40		14.88			
			3	6.20	0.30		5.58			
			4	9.80	0.30		11.76			
			2	9.80	0.20		3.92			

						Total =	145.98	sqm	202.00	29487.96
6	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		beam	4	18.100	0.200	0.30	4.34			
			5	13.800	0.200	0.30	4.14			
			1	6.200	0.200	0.30	0.37			
			2	1.800	0.200	0.30	0.22			
		c2	30	0.20	0.40	3.20	7.68			
		LINTEL BEAM	2	18.10	0.20	0.20	1.45			
			2	13.80	0.20	0.20	1.10			
			2	4.20	0.20	0.20	0.34			
			1	6.20	0.20	0.20	0.25			
			2	3.50	0.20	0.20	0.28			
			2	1.80	0.20	0.20	0.14			
		TOP BEAM	2	18.10	0.20	0.20	1.45			
			2	13.80	0.20	0.20	1.10			
			2	4.20	0.20	0.20	0.34			
			1	6.20	0.20	0.20	0.25			
			2	3.50	0.20	0.20	0.28			
			2	1.80	0.20	0.20	0.14			
			3	13.80	0.30	0.40	4.97			
			3	6.20	0.30	0.40	2.23			
			2	9.80	0.20	0.30	1.18			
			1	13.80	0.60	0.100	0.83			
			1	22.000	15.000	0.125	41.25			
		c2	15	0.200	0.400	0.900	1.08			
			2	3.600	0.200	1.800	2.59			
			3	2.600	0.200	1.800	2.81			
			1	3.600	3.000	0.125	1.35			
						Total =	82.16	Cum	4163.00	342015.43
7	3.4	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:					0.00	Cum	97.50	
8	3.12	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:								
			125		82.16		10269.50			
						Total =	10269.50	kg	54.50	559687.75

	7.5	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:								
	3	Cement Mortar 1:5 (1 cement : 5 coarse sand)								
	super structure 7.5.3+7.6									
			2	15.90	0.20	3.20	20.35			
			2	13.00	0.20	3.20	16.64			
			2	6.20	0.20	3.20	7.94			
			2	4.00	0.20	3.20	5.12			
			2	1.80	0.20	3.20	2.30			
			2	18.10	0.20	0.90	6.52			
			2	13.80	0.20	0.90	4.97			
			12	1.50	0.20	1.20	-4.32			
			1	3.50	0.20	2.10	-1.47			
						Total =	70.05	Cum	3471.00	243129.67
10	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:					70.05	Cum	121	
12	12.12	Providing and laying vitrified floor tiles with soluble salt printing, of size 600x600mm with water absorption less than 0.5% and conforming to IS : 15622 of approved make, 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.								
	1	Size 600x600mm								
			1	18.60	13.80		256.68			
						Total =	256.68	sqm	963.00	247182.84
13	12.7	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.								
	2	Size above 200x300mm								
			4	3.00		1.50	18.00			
			4	1.80		1.50	10.80			
			1	6.00		0.60	3.60			
						Total =	32.40	sqm	587.00	19018.80

[illegible]

	11.1	Providing and making 6mm thick cement plaster of mix								
	2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
			1	13.8	18.90		260.82			
			12	1.80	0.60		12.96			
			2	13.80	1.10		30.36			
			1	6.20	1.10		6.82			
			2	9.80	0.90		17.64			
						Total =	328.60	sqm	87.00	28588.20
19	11.2	Providing and making 12mm thick cement plaster of mix								
	4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
			2	18.10		6.50	235.30			
			2	13.80		6.50	179.40			
						Total =	414.70	sqm	91.50	37945.05
20	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	4	In Cement Mortar 1:6 (1 cement : 6 fine sand)								
			2	18.10		3.60	130.32			
			2	18.10		3.60	130.32			
			6	6.20		3.60	133.92			
			4	4.00		3.60	57.60			
			4	3.50		3.60	50.40			
			4	1.80		3.60	25.92			
							528.48			
						Total =	528.48	sqm	107.00	56547.36
21	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
							1271.78			
						Total =	1221.78	sqm	94.50	115458.21
22	14.1	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade.					857.08	sqm	44.50	38140.06
	1	On new work (Two or more coats)								
23	14.15	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:					528.48	sqm	56.00	29594.88

	1	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)											
24	8.13	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.											
	2	35 mm. thick (single leaf)+8.15 single leaf											
			4	1.00		2.10	8.40						
						Total =	8.40	sqm	1370.00			11508.00	
25	8.137	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc complete.											
	2	250mm					15.00						
						Total =	15.00	nos	228.00			3420.00	
26	8.138	Providing and fixing stainless steel door latch with 12mm rod, 2.5mm thick flap, necessary stainless steel screws etc complete.											
	2	250mm					15.00						
						Total =	15.00	nos	85.00			1275.00	
27	8.139	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.											
	3	150 x10mm				Total =	34.00	nos	57.50			1955.00	
28	8.141	Providing and fixing Stainless steel "D" shape door handles made of 10mm dia rod with necessary stainless steel screws etc complete.											
		8.141.2 150 mm				Total =	34.00	nos	49.50			1683.00	
29	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:											
		8.58.1 125x85x5.50 mm (Heavy Type)				Total =	51.00	nos	245.00			12495.00	
30	8.143	Providing and fixing stainless steel hanging door stopper with necessary stainless steel screws complete.											
	1	Single				Total =	15.00	nos	47.00			705.00	
32	9.28	Providing and fixing 27.5cm long wire spring for rolling shutters.					6.00	nos	362.00			2172.00	

	9.30	Providing and fixing ball bearing for rolling shutters.					6.00	nos	423.00	2538.00
34	9.29	Providing and fixing M.S sheet top cover for rolling shutter								
	3	0.90mm thick	1	4.00			4.00			
			1	3.60			3.60			
						Total =	7.60	nos	399.00	3032.40
35	14.22	Painting on new work (two or more coats) to give an even shade with:								
	2	Premium synthetic enamel paint	5	1.20	2.10		12.60			
			17.5	1.00	2.10		36.75			
			10	0.75	2.10		15.75			
			24	1.80	1.20		51.84			
			1	3.00	1.20		3.60			
			5	0.90	0.60		2.70			
						Total =	123.24	sqm	47.00	5792.28
36	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (mainsection with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285mitred 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:								
	9.47.1	For fixed portion					154.00	kg	331.00	50974.00
37	9.47.2	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).					120.00	kg	338.00	40560.00
38	9.51	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):								
	9.51.2	With float glass panes of 5 mm thickness								

		14	1.50	1.20		25.20			
					Total =	25.20	sqm	708.00	17841.60

TOTAL= 2118096.21


sanitation 78763.00

103000.00

Electrification

TOTAL= 2299859.21

SAY RS.= 2300000.00



Sub Engineer
Municipal Corporation
Korba (C.G.)


Asst Engineer
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PART - B - SANITAION WORK

1	18.76	Providing and fixing on wall face 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.								
	1	75 mm dia pipe.	1	18.00			18.00	metre	182.00	3276.00
	2	110 mm dia pipe	1	20.00			20.00	metre	267.00	5340.00
2	18.5	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with ISI marked white plastic seat and lid, 10 litre PVC low level flushing cistern with fitting and brackets, 40mm flush bend, mosquito proof coupling complete, including painting of brackets, cutting and making good the walls and floors					4	each	4589.00	18356.00
	3	White								
3	18.17	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 :					2	each	1430.00	2860.00
	1	White Size 550x450 mm								
6	18.77	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.								
	1	Tee/ Tee with door/ Bend 45°/ Bend 90°								
	1	75 mm					2.00	each	113.00	226.00
	2	110 mm					4.00	each	154.00	616.00
	3	Vent covel								
	1	75 mm					4.00	each	34.00	136.00
	6	Nahani trap 110x75mm					6.00	each	90.50	543.00

19.4	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								
1	15 mm nominal outer dia .Pipes.					65.00	metre	110.00	7150.00
3	25 mm nominal outer dia .Pipes.					45.00	metre	199.00	8955.00
4	32 mm nominal outer dia .Pipes.					45.00	metre	271.00	12195.00
8	19.13 Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality:								
1	Bib cock (250 grams)					6.00	each	185.00	1110.00
9	19.14 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:								
6	Stop cock (concealed) (600 grams)					2.00	each	494.00	988.00
4	Piller Cock (400 grams)					2.00	each	398.00	796.00
10	19.15 Providing and fixing stainless steel drain jali of approved make/quality.					4.00	each	51.00	204.00
12	19.51 Constructing masonry Chamber 60x60x75 cm, inside with modular well burnt clay bricks of 35 kg/ cm ² in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate					2.00	each	4356.00	8712.00
14	19.42 Providing and placing on terrace (at all levels) polyethylene water storage tank ISI 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
TOTAL =									78763.00


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