

# OFFICE OF THE NAGAR PALIK NIGAM, KORBA (C.G.)

## DETAILED ESTIMATE

Name Of Work :- Const.Of Boundary Wall

As Per SOR :- SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD BUILDING - 01.01.2015]

S. N.	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).								
		B/Wall	1	75.00	2.00		150.00			
							150.00	sqm	7.20	1080
2	1.1	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 nits								
	1.1	In all types of soils.								
		Col.	25	1.20	1.20	1.20	43.20			
			2	2.00	2.00	1.60	12.80			
		Wall	1	31.20	0.40	0.40	4.99			
						Total	60.99	Cum	185.00	11283.52
3	1.18	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.								
		Col.	25	1.20	1.20	0.10	3.60			
			2	2.00	2.00	0.12	0.96			
						Total	4.56	Cum	371.00	1691.76
4	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
							20.30			
							20.30	Cum	65.00	1319.50
5	1.26	Carriage by mechanical transport upto 5 km lead:								

		Earth							
						24.40			
					Total	24.40	Cum	111.00	2708.40
6	3.1	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	1:3:6(1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).							
		col	25	1.20	1.20	0.10	3.60		
			2	1.60	1.60	0.12	0.61		
		wall	1	68.20	0.40	0.08	2.18		
					Total	6.40	cum	2970.00	18998.50
7	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							
	2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).							
			25	1.20	1.20	0.30	10.80		
			25	0.20	0.20	0.70	0.70		
			25	0.20	0.20	1.80	1.80		
			2	1.40	1.40	0.40	1.57		
			2	0.30	0.30	0.96	0.17		
			2	0.30	0.30	1.80	0.32		
			1	68.20	0.20	0.30	4.09		
			1	68.20	0.20	0.10	1.36		
					Total	20.82	Sqm	4163.00	86676.99
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:							
	12.1	Thermo-Mechanically treated bars FE 415							
						1900.00			
						1900.00	Kg	54.50	103550.00
9	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels. for:							
	1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.							
			25	4.00	1.20	0.10	12.00		
			25	4.00	1.00	0.30	30.00		

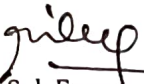


			25	4.00	0.20	0.70	14.00			
			25	4.00	0.20	1.80	36.00			
			2	4.00	1.60	0.12	1.54			
			2	4.00	1.40	0.40	4.48			
			2	4.00	0.30	0.96	2.30			
			2	4.00	0.30	1.80	4.32			
			2	68.20		0.30	40.92			
			2	68.20		0.10	13.64			
						Total	159.20	Sqm	139.00	22128.80
10	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in								
	5.3	Cement Mortar 1:5 (1 cement : 5								
			1	68.20	0.30	0.40	8.18			
			1	64.80	0.20	1.50	19.44			
						Total	27.62	cum	3350.00	92540.40
11	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.								
							3.00	each	72.50	217.50
12	8.4	Providing and fixing Dash fastener (for fixing door/ window frames) on C.C. / R.C.C./ Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete								
	4.3	Dash fastener 12x100mm					3.00	each	39.00	117.00
13	11.2	Providing and making 12mm thick cement plaster of mix								
	2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
			1	75.00		2.10	157.50			
						Total	157.50	Sqm	96.50	15198.75
14	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of								
	3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
			1	75.00		2.10	157.50			
						Total	157.50	Sqm	113.00	17797.50

		Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate										
	6.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works										
							158.00	kg	68.00		10744.00	
16	14.14	Finishing walls with water proofing cement paint of required shade to give										
	14.1	On new work (Two or more coats applied @ 3.84 kg/10 sqm)										
			2	201.60			330.00	Sqm	41.00		13530.00	
17	14.22	Painting on new work (two or more coats) to give an even shade with:										
	22.1	Satin synthetic enamel paint										
			1	3.60		1.80	6.48					
						Total	6.48	Sqm	55.00		356.40	

As per Estimate Amount Rs. = 399939.02  
Say Rs.

PART A = 3,99,939.02

  
Sub Engg.  
Nagar Palik Nigam  
Korba

Astt. Engg.  
Nagar Palik Nigam  
Korba



# OFFICE OF THE NAGAR PALIK NIGAM, KORBA (C.G.)

## DETAIL ESTIMATE

Work :- वार्ड कं 54 बरेड़ीमुड़ा महंत मोहल्ला कबीर चौरा के पास अहाता एवं शेड निर्माण कार्य।

(कोट निर्माण)

SOR :- SCHEDULE OF RATES PUBLIC WORKS DEPARTMENT [PWD BUILDING - 01.01.2015] & [PWD ELECTRICAL - 01.06.2020]

S. N	REF	ITEM DESCRIPTION	N	L	B	H/D	QTY	UNIT	RATE	AMOUNT
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).								
			1	12.00	10.00		120.00			
							120.00	Sqm	7.20	864.00
2	1.1	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.								
	1.1	In all types of soils.	6	2.20	2.20	1.80	52.27			
		col	1	13.88	0.50	0.40	2.78			
		wall	1	9.90	0.50	0.40	1.98			
							57.03	Cum	185.00	10550.18
3	1.6	Extra for every additional lift of 1.5 m or part thereof.								
	6.1	All types of soils	6	2.20	2.20	0.30	8.71			
		col					Total 8.71	Cum	26.50	230.87
4	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
							37.68	Sqm	65.00	2449.20
5	1.18	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.								
			6	2.20	2.20	0.12	3.48			
			1	6.00	7.00	0.20	8.40			
			1	7.50	2.40	0.20	3.60			
							15.48	Cum	371.00	5744.86
6	1.19	Providing filling and compacting local earth (from approved source pit) in layers not exceeding 20cm in depth consolidating								
			1	6.00	7.00	0.50	21.00			
			1	7.50	2.40	0.30	5.40			
							26.40	Cum	242.00	5082.00

Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:

1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
	col	24	1.80		0.12	5.18			
		2	10.00		0.12	2.40			
		3	4.00		0.12	1.44			
		24	1.60		0.50	19.20			
		6	1.20		1.63	11.74			
		2	25.88		0.30	15.53			
						55.49	Sqm	139.00	7712.83
1.3	Window sills, anchor blocks, string course, bends, copings, bed plates and like.								
		2	18.38		0.10	3.68			
		2	31.40		0.08	5.02			
						8.70	Sqm	184.00	1600.80
1.4	Edge of slab, breaks in floor and walls upto 200mm								
		1	32.20			32.20			
		1	13.00			13.00			
						45.20	metre	34.00	1536.80
1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		6	1.20		3.90	28.08			
						28.08	Sqm	297.00	8339.76
1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		1	7.40	8.70		64.38			
						64.38	Sqm	235.00	15129.30
1.8	Beams, lintels, cantilevers & walls								
		1	18.38	0.20		3.68			
		2	18.38	0.20		7.35			
		1	18.38	0.20		3.68			
		2	18.38	0.30		11.03			
		1	6.00	0.20		1.20			
		2	6.00	0.50		6.00			
		1	7.50	0.20		1.50			
		2	7.50	0.50		7.50			
		2	1.00	0.20		0.40			
		4	1.00	0.20		0.80			
						43.13	Sqm	202.00	8712.66
1.13	Weather shade, chhajja, Cornices and mouldings								
		2	7.15	0.50		7.15			
		2	7.15	0.08		1.14			
		4	0.50	0.09		0.18			
						8.47	Sqm	294.00	2491.36
9	3.1	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							



1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).

		col	6	1.80	1.80	0.12	2.33			
		wall	1	25.88	0.40	0.10	1.04			
		under flooring	1	11.50	0.40	0.10	0.46			
			1	6.00	7.00	0.10	4.20			
		step	1	7.50	2.40	0.10	1.80			
			2	1.60	1.30	0.10	0.42			
							10.24	Cum	3552.00	36386.69
10	3.1	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.								
	1.5	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
			1	31.40	0.20	0.08	0.50			
							0.50	Cum	4073.00	2046.28
11	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.								
	2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		col	6	1.60	1.60	0.50	7.68			
			6	0.40	0.20	1.63	0.78			
			6	0.40	0.20	3.90	1.87			
			1	25.88	0.20	0.30	1.55			
			1	18.38	0.20	0.20	0.74			
			1	18.38	0.20	0.30	1.10			
			1	6.00	0.20	0.50	0.60			
			1	7.50	0.20	0.50	0.75			
			2	1.00	0.20	0.20	0.08			
			1	7.40	8.70	0.13	8.05			
			1	7.90	2.40	0.10	1.90			
			1	6.00	7.00	0.10	4.20			
			2	7.15	0.50	0.09	0.64			
			1	18.38	0.20	0.10	0.37			
							30.31	Cum	4163.00	126179.70
12	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:								
							17.37	cum	97.50	1693.58
13	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:								
	12.1	Thermo-Mechanically treated bars FE 415					1770.00	Kg	54.50	96465.00

		Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.									
			1	25.88	0.20	0.08	0.41				
			1	11.90	0.20	0.08	0.19				
							0.60	Cum	4237.00	2561.18	
15	3.14	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.									
16	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.					30.00	Kg	43.50	1305.00	
			1	34.80	0.75		26.10	sqm	273.00	7125.30	
17	4.13	Grading roof for water proofing treatment with:									
	13.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)									
			1	7.40	8.70	0.03	1.93				
							1.93	Cum	3817.00	7372.15	
18	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:									
	5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)									
			1	25.88	0.20	0.80	4.14				
			1	11.90	0.20	0.50	1.19				
			1	18.38	0.20	2.80	10.29				
			1	11.90	0.20	0.50	1.19				
			1	31.40	0.20	0.30	1.88				
			2	1.50	1.20	0.40	1.44				
			2	1.50	0.90	0.20	0.54				
			2	1.50	0.60	0.20	0.36				
		Deduction ----	4	3.47	0.20	1.50	4.16				
							16.87	Cum	3350.00	56526.56	
19	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:					8.03	Cum	121.00	971.63	



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		In Cement Mortar 1:5 (1 cement : 5 fine sand)											
11.3		Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:					40.15	sqm	96.50	3874.48			
3.3		In Cement Mortar 1:5 (1 cement : 5 fine sand)											
28	12.49	25 mm thick KOTA stone slab flooring over 20mm (Average) thick base of cement mortar 1:4 laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including grinding rubbing and polishing etc. complete (Area of slab to be over 0.20 sqm and upto 0.50 sqm)					69.03	sqm	113.00	7800.39			
			1	6.00	7.00		42.00						
			1	7.50	2.40		18.00						
		Deduction	2	1.50	1.20		3.60						
							56.40	sqm	897.00	50590.80			
29	12.50	KOTA stone slab 25mm thick in risers and treads of steps, skirting dado and pillar laid in 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											
							9.96	sqm	990.00	9860.40			
30	18.76	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.											
	76.20	110 mm dia pipe					10.00	metre	267.00	2670.00			
31	14.41	Lettering with black Japan paint, per cm height.											
							1700.00	per letter	0.70	1190.00			
32	14.51	Providing and applying 2mm thick ready mix exterior grade putty (manufactured with cow dung processing) on walls to make the surface smooth and even.					190.50	Sqm	101.00	19240.50			
33	14.49	Wall painting with premium emulsion (plastic) manufactured with the cow dung processing emulsion paint of required shade to give an even shade.											
	49.1	On new work (two or more coats)					104.04	Sqm	69.00	7178.76			



		Painting exterior surface with ACRYLIC SMOOTH exterior paint manufactured with the cow dung processing to give protective and decorative finish including cleaning washing of surface etc. complete with:											
50.1		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)						86.46	Sqm	79.00	6830.34		
35	14.22	Painting on new work (two or more coats) to give an even shade with:											
	22.1	Satin synthetic enamel paint											
			4	3.47	1.50			20.82	Sqm	55.00	1145.10		
ELECTRICAL PART													
36	3.1	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed PVC conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with same size cable etc as required.											
	1.1	Short Point											
	1.2	Medium Point						2.00	Point	236.00	472.00		
	1.3	Long Point						2.00	Point	388.00	776.00		
37	3.9	Extra for providing and fixing light plug point on board in concealed PVC conduit point wiring with modular type 3 pin 5 amp socket outlet and 5 amp switch including cost of base and cover plate and G. I. box etc. as required.						2.00	Point	553.00	1106.00		
								1.00	Point	240.00	240.00		
38	3.13	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in concealed PVC conduit as required.											
	13.11	6 X 2.5 sq. mm in 25mm conduit						40.00	Mtr	172.00	6880.00		
39	7.1	Supplying and fixing following piano type switch, socket, other accessories on the existing switch box/ cover including connections etc. as required.											
	1.12	Fan regulator Electronic, step type moving all round						2.00	Each	178.00	356.00		
40	8.1	Supplying, installation, testing and commissioning of following sizes ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable, earthing etc. complete as required.											
	1.3	1400 mm sweep						4.00	Each	1637.00	6548.00		

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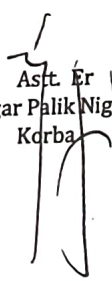


		Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ concealed conduit/ submain wiring/ cable as required.					40.00	Mtr	20.50	820.00
51	17.8	Supplying and laying following sizes one number PVC insulated/ XLPE, PVC sheathed, unarmoured, aluminium conductor power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as required.								
	8.2	2 x 10 sq. mm					30.00	Mtr	88.00	2640.00

Total= 599904.29

part - B  
part - A = 3,99,939.00

  
Sub Er  
Nagar Palik Nigam  
Korba

  
Asst. Er  
Nagar Palik Nigam  
Korba

G-Total = 10,00,000/-