

## NAGAR PALIK NIGAM BHILAI

## NIT

## बाउंड्रीवॉल निर्माण कार्य।

(As per P.W.D BUILDING S.O.R. W.E.F. 01.01.2015)

S.NO	PARTICULAR	QTY	UNIT
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.	13.30	cum
	In all types of soils.		
2	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.	1.61	cum
3	Providing and laying nominal mix reinforcement cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of reinforcement and form work. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	1.61	cum
4	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.		
	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	6.43	cum
5	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 all complete: Thermo-Mechanically treated bars	385.80	kg
6	Providing and fixing formwork including centering, 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.	8.63	sqm
	Columns, Pillars, Piers and likes- rectangular or square in shape	2.10	sqm
7	Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in: Cement Mortar 1:6 (1 cement : 6 coarse sand)	1.20	cum
8	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	6.00	cum
9	12mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)	30.00	sqm
10	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)	30.00	sqm
11	Painting exterior surface with SMOOTH exterior emulsion paint of manufacturerd with cow dung processing to give protective and decorative finish including cleaning washing of surface etc. complete with: On new work (One or more coats applied @ 1.43 ltr/ 10 sqm)	60.00	sqm

12	Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners. all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.		
		100.00	kg
13	Painting on new work (two or more coats) to give an even shade with: Premium synthetic enamel paint		
		7.56	sqm



ASSTT.ENGINEER Nagar Palik Nigam, Bhilai	SUB ENGINEER Nagar Palik Nigam, Bhilai
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प्रसाधन कक्षा निर्माण कार्य।

As per Building SOR 1.01.2016 & Electrical S.O.R. 01.06.2020

S.No	Description and details of work	Qty.	Unit
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. In all types of soil	18.67	Cum
2	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in foundation, plinth and at ground level excluding cost of form work. 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	2.98	Cum
3	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. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	7.85	cum
4	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	510.00	kg
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.	14.8	Sqm
6	Columns, Pillars, Piers and likes- rectangular or square in shape	12.5	Sqm
7	Beams, lintels, cantilevers & walls	7.2	Sqm
8	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	18.50	Sqm
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: <b>Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)</b>	5.26	Cum
10	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	9.59	Cum
11	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	2.86	Cum
12	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement. 40 mm thick	13.51	Sqm
13	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)	50.78	sqm
14	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)	75.14	sqm
15	Neat Cement punning	17.96	sqm
16	Providing and making 6mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	9.52	Sqm
17	Providing and fixing vitreous china water closet squatting pan (Indian type) including cutting and making good the walls and floors wherever required: White Orissa pattern W.C. pan of size 580x440 mm	2	Nos
18	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings : White Size 550x450 mm	2	Nos

19	Constructing masonry Chamber 30x30x50 cm, inside with modular well burnt clay bricks of 35 kg/ cm <sup>2</sup> 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) 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 :	3	Each
20	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.	9.80	Mtr
21	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. 75 mm dia pipe.	7.20	Mtr
22	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams)	2.00	Nos
23	Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. gusset plates at junctions and corners, all necessary fittings complete including applying a priming coat of red oxide zinc chromate primer.	151.20	Kg
24	Painting on new work (two or more coats) to give an even shade with: Premium synthetic enamel paint	15.12	Sqm
25	Painting exterior surface with PREMIUM 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)	50.78	Sqm
26	Distemping with acrylic washable distemper to give an even shade On old work (one or more coats)	75.14	Sqm
27	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	500	Litre
28	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	1	Each



ASSTT.ENGINEER

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