

## MUNICIPAL CORPORATION OF BHILAI

## NIT

वार्ड क्र. 35 शासकीय प्राथमिक एवं पूर्व माध्यमिक शाला का जीर्णोद्धार कार्य।

(As Per PWD Building SOR 01.01.2015 &amp; Electrical SOR 01.06.2020)

SN	PARTICULERS OF ITEMS	QTY.	UNIT
1	Dismantling lime/ cement plaster or skirting at any height raking out joints and cleaning the surface for plaster including disposal of rubbish within 50 metres lead.	121.92	Sqm
2	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead. In cement mortar.	1.00	Cum
3	Demolishing cement concrete including disposal of material within 50 metre lead. 1:4:8 or leaner mix	30.00	Cum
4	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.	5.81	Cum
5	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	68.00	Sqm
6	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	4	Each
7	Dismantling windows chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10	Each
8	Excavation for all types and size of foundation, trenches and drains or for any other purpose including disposal of --- 1.5m. lift and lead upto 50m (at least 5m away from the excavated area). including dressing and leveling of pits.	19.50	Cum
9	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	112.48	Sqm
10	Providing and making 12mm thick cement plaster of mix: In Cement mortar 1:5 (1 cement : 5 fine sand)	121.92	Sqm
11	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)	140.00	Sqm
12	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)	16.00	Cum
13	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) + Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:	12.00	Cum
14	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.	108.00	Cum
15	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	20.00	Cum
16	25mm thick cement concrete flooring with 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) finished with floating cost of neat cement.	200.00	Sqm
17	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 primer. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	615.00	Kg

SN	PARTICULERS OF ITEMS	QTY.	UNIT
18	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.	984.00	Kg
19	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rails of T-iron 40x40x6mm with 38mm steel pulleys complete with bolts, nuts, locking arrangement stoppers, handles including applying a priming coat of red oxide zinc chromate primer.	12.60	Sqm
20	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).	3.00	Cum
21	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. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size) + 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:	3.36	Cum
22	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	508.80	Kg
23	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.	8.00	Sqm
24	Columns, Pillars, Piers and likes- rectangular or square in shape	3.20	Sqm
25	Beams, lintels, cantilevers & walls	8.00	Sqm
26	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	35.00	Sqm
27	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.	322.00	Sqm
28	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 upto 200x300mm	68.40	Sqm
29	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, 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 upto 300x300mm	40.00	Sqm
30	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, tamping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm Pigment Coloured (rubber mould) precast interlock concrete blocks	125.00	Sqm
31	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. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	16.24	Cum


SN.	PARTICULERS OF ITEMS	QTY.	UNIT
			Sqm
32	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of WC, kitchen and the like consisting of: i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 including rounding off junction of vertical and horizontal surface. ii) 2nd course of 20mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound including rounding off junction of vertical and horizontal surface. iii) 3rd course of applying blown or residual bitumen applied hot @ 1.7 Kg. per sqm of area. iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg. per sqm of area.	50.00	
33	Providing and fixing vitreous china water closet squatting pan (Indian type) including cutting and making good the walls and floors wherever required: <u>White Long pattern W.C. pan of size 580 mm</u>	2	Each
34	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 : <u>White Size 550x450 mm</u>	2	Each
35	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat ----- fittings and fixtures complete including cutting and making good the walls and floors wherever required : <u>White pedestal type</u>	2	Each
36	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
37	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete: 25 mm dia. nominal bore	30.00	Metre
38	Providing and laying in trenches G.I. pipes medium class complete with G.I. fittings including excavation of trenches, refilling the same and testing of joints complete: 15 mm dia. nominal bore	45.00	Metre
39	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): <u>25 mm nominal bore</u>	4	Each
40	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 350 grams): <u>Bib cock</u>	10	Each
41	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)	450.00	Sqm
42	Distemping with acrylic washable distemper to give an even shade. On new work (Two or more coats)	400.00	Sqm
43	Painting on new work (two or more coats) to give an even shade with: <u>Premium synthetic enamel paint</u>	61.20	Sqm
44	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.	234.40	Sqm
45	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	35.00	Sqm

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SN	PARTICULERS OF ITEMS	QTY.	UNIT
46	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).	50.00	Sqm
47	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).	15.00	Cum
48	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).	45.00	Cum
49	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand: Hedges like Alife, Dorenta, Tikoma etc	40	Each
50	Fum like Arica, China etc (3 year old)	45	Each
51	Hibiscus (Flower)/ Rose	100	Each
52	Carpet grass (well developed)	50.00	Sqm
53	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately). Stone boulders of size range 5 cm to 20 cm, in recharge pit	1.50	Cum
54	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.75	Cum
55	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.45	Cum
56	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:6	3.80	Sqm
57	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.	421.20	Kg
58	Finishing walls with water proofing cement paint of required shade to give an even shade. On new work (Two or more coats applied @ 3.84 kg/10 sqm)	175.72	Sqm
59	Painting on new work (two or more coats) to give an even shade with: Satin synthetic enamel paint	121.97	Sqm
60	Add 10% Extra For Electrification & Sanitation work	124565.00	LS

  
**Executive Engineer**  
Municipal Corporation  
Bhilai

  
**Assistant Engineer**  
Municipal Corporation  
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**Sub Engineer**  
Municipal Corporation  
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