

MUNICIPAL CORPORATION OF BHILAI

NIT

वार्ड क्र. 29 बापू नगर शासकीय प्राथमिक एवं पूर्व माध्यमिक शाला का जीर्णोद्धार कार्य।

(As Per PWD Building SOR 01.01.2015 & 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	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
4	Dismantling doors chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	4	Each
5	Dismantling windows chowkhats with shutters (steel or wood) including architrave, hold fast etc. complete and stacking within 50 metres lead.	10	Each
6	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	142.48	Sqm
7	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)	121.92	Sqm
8	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
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 1:6 (1 cement : 6 coarse sand)	30.31	Sqm
10	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 1:6 (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:	30.00	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.	108.00	Cum
12	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).	23.18	Cum
13	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.	837.00	Kg

SN	PARTICULARS OF ITEMS	QTY.	UNIT
14	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.	744.00	Kg
15	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	6.30	Sqm
16	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. 1:1 ½ :3 (1 cement : 1 ½ coarse sand : 3 graded stone aggregate 20mm nominal size)	18.23	Cum
17	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. 1:1 ½ :3 (1 cement : 1 ½ 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:	5.76	Cum
18	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.	2154.56	Kg
19	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.	38.80	Sqm
20	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Columns, Pillars, Piers and likes- rectangular or square in shape	29.60	Sqm
21	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Beams, lintels, cantilevers & walls	14.40	Sqm
22	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	129.00	Sqm
23	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.	114.00	Sqm

SN	PARTICULERS OF ITEMS	QTY.	UNIT
24	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.	64.00	Sqm
25	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.	66.00	Sqm
26	Providing and fixing vitreous china water closet squatting pan (Indian type) including cutting and making good the walls and floors wherever required: White Long pattern W.C. pan of size 580 mm	6	Each
27	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	8	Each
28	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 pedestal type	8	Each
29	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	4500.00	Litre
30	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
31	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
32	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):25 mm nominal bore	4	Each
33	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (350 grams)	10	Each
34	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)	600.00	Sqm
35	Distempering with acrylic washable distemper to give an even shade. On new work (Two or more coats)	812.04	Sqm
36	Satin synthetic enamel paint. Premium synthetic enamel paint	61.20	Sqm
37	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.	200.00	Sqm

SN	PARTICULARS OF ITEMS	QTY.	UNIT
38	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	100.00	Sqm
39	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.	35.88	Cum
40	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
41	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders	0.75	Cum
42	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel	0.45	Cum
43	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:6	3.80	Sqm
44	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)	32.04	Sqm
45	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	2.00	Each
46	Carrying out the resistivity survey by VES method using Schlumberger configuration for locating the proper spot for drilling of tube well within the selected habitation, including photography, interpretation of resistivity data and submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable)	1.00	Point
47	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level. All types of soil 125 mm nominal dia	22.50	Metre
48	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level. Rocky strata including Boulders 125 mm nominal dia	67.50	Metre

SN	PARTICULARS OF ITEMS	QTY.	UNIT
49	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge beyond 90 metre & upto 150 metre depth below ground level. Rocky strata including Boulders 125 mm nominal dia	10.00	Metre
50	Supplying, assembling, lowering and fixing in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-I&Part-2) 1992 with IVth revision (Up-to-date amendments), of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer- in-charge. 125 mm nominal dia	22.50	Metre
51	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tube well, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	5	Hrs
52	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for bore well of:	1	Each
53	Providing ISI Mark 32 mm dia G.I. (B class) riser pipe and M.S. plunger rod in 3 meter length socketed on one end as per IS: 1239 (Part I) 1990 with up to date amendments and socket as per IS: 2062/1990 up to date amendments	50.00	Metre
54	Providing and fixing on wall surface G.I. pipes medium class complete with G.I. fittings and clamps, including cutting, making good the walls etc. and testing of joints complete: 25 mm dia. nominal bore	40.00	Metre
ELECTRICAL SOR 01.06.2020			
55	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-stage submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 50 mm X 6 mm MS flat, connection with suitable submersible cable of standard length etc. as required. 1.0 HP, single phase	1	Each

SN	PARTICULERS OF ITEMS	QTY.	UNIT
56	Supply, installation, testing and commissioning of 1-3 HP 1 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter-connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 1/2/3 HP 1 phase DOL starter with over load and no volt relay 1 No c) 25 A "C" curve DPMCB 1 No d) Voltmeter 0-250 V 1 set e) Ammeter 0-10 A 1 set	1	Each
57	Supplying, laying and fixing following size submersible cable along with GI/PVC/HDPC pipe line or laid in ground etc as required 3x2.5 sqmm	30.00	Metre
58	Add 10% for electrification	95613.00	LS


Executive Engineer
 Municipal Corporation
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Assistant Engineer
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Sub Engineer
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