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MUNICIPAL CORPORATION BHILAI

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वार्ड क्र. 37 सोनिया गांधी नगर, नहर किनारे महिला सुलभ शौचालय निर्माण कार्य।

(As Per CG PWD Building SOR 01.01.2015, Elect. SOR 01.06.2020 & NON SOR)

S. N.	DETAILS OF ITEM	QTY.
1	Excavation for all types and size of foundation, trenches and drains or for any other purpose ---- lift and lead upto 50m including dressing and leveling of pits.	83.958 m <sup>3</sup>
2	Providing and laying mechanically mixed cement concrete with crushed stone aggregate excluding cost of centering and shuttering 1:4:8	17.989 m <sup>3</sup>
3	Providing and fixing formwork i/c centering, shuttering, strutting, staging, propping bracing etc. --, footings, base of columns and plinth beam in any shape and size	73.96 m <sup>2</sup>
4	Providing and fixing of formwork including centering, shuttering, strutting, staging, propping, bracings etc. complete and i/c its removal upto a height of 4m above plinth level. Columns-rectangular or square in shape	70.40 m <sup>2</sup>
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 in foundation and plinth all complete:	3536.19 kg
6	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	39.832 m <sup>3</sup>
7	Providing and Laying precast reinforced cement concrete work with 20 mm nominal size stone aggregate for M-20 concrete Mix	1.76 m <sup>3</sup>
8	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 in foundation and plinth in :Cement Mortar 1:6	13.082 m <sup>3</sup>
9	Providing & Laying damp proof course (up to 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including formwork.	0.8225 m <sup>3</sup>
10	Providing and filling in plinth with sand/Crusher dust and hard moorum under floor, including ---- cost of all labour, materials, T & P etc. complete required for the work.	67.632 m <sup>3</sup>
11	For rectangular Beams, lintels, suspended floor, roofs and balconies.	40.66 m <sup>3</sup>
12	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	104.545 m <sup>2</sup>
13	Providing and mixing water proofing material in PCC/ RCC work in the proportion recommended by the manufacturer.	100.03 m <sup>2</sup>
14	Providing and fixing both side polished 30 mm thick RAJIM SAND STONE shelves fixed in walls in cement mortar 1:3 including finishing complete.	10.35 m <sup>2</sup>
15	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 40 Cement Mortar 1:6 (1 Cement : 6 Coarse Sand) Extra for brick work in superstructure: Above plinth and upto floor five level	29.916 m <sup>3</sup>
16	Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.	169.625 Kg
17	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately) 4mm thick	45.24 m <sup>2</sup>
18	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position. Sal, bijasal, bentek, khair, haldu	0.087 m <sup>2</sup>
19	Providing and fixing flush door shutters decorative type, core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges. 25 mm. thick (single leaf)	2.77 m <sup>2</sup>
20	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.	169.80 Kg

	Providing and fixing M.S. fan clamp/ hook for ceiling fan made out of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion as per standard design complete.	2 nos.
22	6mm thick cement plaster of mix: In Cement mortar 1:3 (1 cement : 3 fine sand)	65.09 m <sup>2</sup>
23	12mm thick cement plaster of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)	204.41 m <sup>2</sup>
24	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)	170.465 m <sup>2</sup>
25	20mm thick cement plaster on stone masonry of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand)	170.465 m <sup>2</sup>
26	20 mm thick neat cement plaster with cement mortar 1:3 i/c water proofing compound.....	4.47 m <sup>2</sup>
27	Moulded mortar band in cement mortar 1:4 of 18 mm thick of 100 mm wide.	25.00 M
28	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 above 300x300mm	35.61 m <sup>2</sup>
29	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto floor five level excluding cost of form work. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	4.384 m <sup>3</sup>
30	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 above 200x300mm	162.288 m <sup>2</sup>
31	Providing and laying vitrified floor tiles with double charge/ multi charge printing with water absorption less than 0.5% and conforming to IS : 15622 of approved make in all colours and shades and size mentioned below (+/- 10mm), 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: Size 600x600mm	36.50 m <sup>2</sup>
32	15mm thick Granite work (machine cut, table rubbed & mirror polished) for kitchen platform, vanity counters, window sills and similar locations of required size laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) including joints treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish Granite stone black	1.50 m <sup>2</sup>
33	Providing and applying 2mm thick ready mix exterior grade putty (Birla wall care, Alltek Superfine W/R of (NCL), J.K. wall putty) on walls to make the surface smooth and even.	155.00 m <sup>2</sup>
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)	439.965 m <sup>2</sup>
35	Painting on new work (two or more coats) to give an even shade with: Satin synthetic enamel paint (top most approved branded quality)	32.50 m <sup>2</sup>
36	Excavation for all types and size of foundation, trenches and drains or for any other purpose ----- lift and lead upto 50m including dressing and leveling of pits. <b>FIRST LIFT</b>	8.68 m <sup>3</sup>
37	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).	4.354 m <sup>3</sup>
38	Half brick thick (9cm) brick masonry with modular well burnt clay bricks of crushing strength not less than 35 kg/sqcm and water absorption not more than 20% in superstructure above plinth level upto floor five level. Cement Mortar 1:4 (1 cement : 4 coarse sand)	62.32 m <sup>2</sup>
39	Providing and making 6mm thick cement plaster of mix In Cement mortar 1:3 (1 cement : 3 fine sand) Neat Cement punning. Extra for providing and mixing water proofing materials in cementplaster work in proportion as recommended by manufacturer	70.62 m <sup>2</sup>

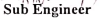
	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	3 Nos.
-11	Providing, laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete 150 mm diameter	5.00 M
42	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes --- 150mm thick as per standard design:150 mm diameter S.W. pipe	5.00 M
43	Providing and constructing brick masonry chamber for underground C.I. inspection chamber and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm <sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal ---- - 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with ---- etc. complete as per standard design :Inside dimensions 455x610 mm and 45 cm deep for single pipe line	7 Nos.
44	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design : With 20 mm diameter round bar	4 Nos.
45	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 Point
46	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 150 mm nominal dia	22.00 m
	Rocky strata including Boulders 150 mm nominal dia	68.00 m
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 beyond 90 metre & upto 150 metre depth below ground level. Rocky strata including Boulders. 150 mm nominal dia	13.50 m
48	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-1&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. 150 mm nominal dia	23.50 M
49	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 ---- hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Eng.-in-charge.	8.00 hrs
50	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: 150 mm nominal dia	1 No.
51	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.	30.00 m
52	Concealed Electrification work (SOR 01.06.2020 )in side complex. (LUM-SUM)	LUM-SUM
53	Sanitation Work Fitting Installation work [Using 'B' class GI pipe and ISI mark accessories with 2500 lit HDPC water storage tank Sanitary fitting are standard company manufactured. (LUM-SUM)	LUM-SUM

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Non Sur Item		Rate
54	Providing and fixing fibre sand with door shutter of approved quality with required accessories such as bolt handles etc. Including all required filling and polished or paniting the door shutter.	23.588 m <sup>2</sup>
55	Providing and fixing sign board and letter writing work on flexy board with shape size and frame complete	01 Job
56	Planting with small plant including fitting with BC soil mixed with manure including watering and carrying of plants.	01 Job
57	Providing and fixing 1 HP self priming electric motor fixed on cement concrete platform including required accessories wire cable etc. complete	01 Job
58	Providing and laying elevation treatment work in plaster or stone work including all lead lift and transportation complete	01 No.
59	Providing and laying inauguration and foundation atone of marble of granite including making of pedestal and required arrangement as directed by officer Incharge complete.	02 No.
60	Providing and fixing CFL tube of 18 watt of approved make	10 No.
61	Providing and fixing 01 HP submersible pimp with necessary fitting including lowering of pumps inside bore for single phase connection	01 Job
62	Providing and fixing of all starter and control panel	01 Job
63	Providing and fixing 2.50 Sqm cube of 3 core cable wire.	100.00 M

  
**Executive Engineer**  
**Municipal Corporation**  
**Bhilai**

  
**Assistant Engineer**  
**Municipal Corporation**  
**Bhilai**

  
**Sub Engineer**  
**Municipal Corporation**  
**Bhilai**