

OFFICE OF THE MUNICIPAL CORPORATION, BHILAI  
NIT

NAME OF WORK :- कुएँ काफ़िले में बावें का संभरण कार्य।

S.N.	ITEM NO.	Description	UNIT	QTY	RATE	AMOUNT
1	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.				
	1.1.1	In all types of soils				
2	1.18	Providing and filling in pitth 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.	cum	5		
3	2.1	Providing and fixing form work including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for				
	2.1.1	Foundations, footings, bases of columns pitth beam, curtain wall in any shape and size and all type of wall below pitth level.	sqm	20		
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto pitth level excluding cost of form work.				
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	cu	3		
	3.1.3	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	cu	5		
5	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto pitth level excluding cost of form work.				
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	cum	5		
6	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, lashing etc. complete as per drawings including cost of binding wire in foundation and pitth if complete.				
	3.12.1	Thermo-Mechanically treated bars FE 415	kg	50		
7	7.5	Brick work with modular fly-ash lime bricks (FALG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and pitth in:				
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)	cum	20		
8	8.7	Providing and fixing 35mm thick paneled or glazed or paneled and glazed shutter frames for doors excluding hinges and paneling. (Area of shutter to be measured without deducting paneling area)	sqm	10		
	8.7.2	Basal, bentali, khaj, haldu.				
9	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), 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.				
	8.12.2	35 mm. thick (single leaf)	sqm	12		
10	8.58	Providing and fixing light finished brass butt hinges with brass polished MS screws complete.				
	8.58.1	125x85x50 mm (Heavy Type)	each	20		
11	8.59	Providing and fixing light finished brass parliamentary hinges with brass polished MS screws complete.				
	8.59.2	125x125x27x5 mm	each	20		
12	8.65	Providing and fixing bright finished brass door handles with brass polished MS screws complete.				
	8.65.1	125 mm	each	20		
13	8.73	Providing and fixing 150mm height finished brass floor door stopper with rubber cushion & brass polished MS screws etc complete to suit the shutter thickness.	each	20		
14	8.129	Providing and fixing powder coated aluminium door handles 2.5mm thick with necessary M.S. screws etc complete.				
	8.129.1	150 mm	each	20		
15	8.130	Providing and fixing hanging powder coated aluminium door stopper with necessary M.S. screws etc complete.				
	8.130.1	Single	each	20		
16	8.132	Providing and fixing stainless steel butt hinges IS : 12617 marked with necessary stainless steel screws etc complete.				
	8.132.2	125x85 (heavy)	each	20		
17	8.152	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 18mm x 18mm for lyes and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of ved make and manufacture. M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness. 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles, and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and sides to form lock rail. Top, bottom and lock rails shall be provided other side of the panel. 18mm (5mm x 2 ) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail paneling of 5mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7mm (5mm+2mm) thick x 15mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5mm thick PVC strip	sqm	17		
	8.152.1	PVC door shutter				
18	9.3	Steel work in tubular (round, square or rectangular hollow tubes etc.) structure in built-up sections, trusses and frame work including cutting, hoisting, fixing in position upto a height of 5m above pitth level, consisting of columns, trusses, roof and bottom purlins, base plate, holding down bolts, wind ties bracing (if required), bolts, nuts and washers for fastening etc. complete with applying a priming coat of red oxide zinc chromate primer.				

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	9.3.1	Electric resistance or induction butt welded tubes Grade-250	kg	100		
19	9.16	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints milled and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or nail plugs and screws or with flang clips or with bolts and nuts as required including fixing of necessary buff hinges and screws and applying a priming coat of approved steel primer.				
	9.16.2	Angle-iron frames	kg	100		
20	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 milled and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws fully fixed in wall floor with flang clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized treatment or dyed to approved shade according to IS: 1865, minimum anodic coating shall be of grade AC-10. (Glazing to be paid for separately)				
	9.47.1	For fixed partition	kg	300		
21	9.50	Providing and fixing 12mm thick pre-laminated particle board flat pressed with ecoactive lamination and balancing lamination on specified sides exterior Grade - I MDF Board 12 mm thick conforming to IS:14587, including fixed in aluminium doors, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete				
	9.50.2	With decorative lamination on both side	sqm	250		
22	9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item)				
	9.51.3	With float glass panes of 6 mm thickness	sqm	50		
23	10.12	of approved size, shape and pitch of corrugation, total coated thickness (TCT) 0.60 mm +/- 5%, epoxy primer on both side of the sheet and colour polyester top coat 18-20 microns and 6-7 microns on bottom. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape whenever required	sqm	200		
24	9.13	Providing and fixing steel door/ window with M.S. sheet 1mm thick, frame of angle iron, diagonal braces or 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	kg	100		
25	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete				
	9.57.1	SS Grade 204	kg	300		
26	10.63	Providing and fixing 97mm thick Gypsum board partition upto ceiling height consisting of frame work "W" / "U" / "L" sections made of G.I. sheet with zinc coating of grade 120, consisting of floor and ceiling channel 50mm wide having equal flanges of 32mm and 0.55mm thick fixed to the floor and ceiling at the spacing of 610mm centre to centre with dash fastener of 12.5mm diameter 40mm length and the studs 48mm wide having one flange of 34mm and other flange 36mm and 0.55mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610mm centre to centre by 6mm dia bolts and nuts at both ends of partition fixed flush to wall with nail plugs at spacing of 450mm centre to centre and fixing of boards to either side of frame work by 25mm dry wall screws on studs, floor and ceiling channels at the spacing of 300mm centre to center and 97mm thick Gypsum board which includes one layer of tapered edge 12.5mm thick Gypsum plaster board (conforming I.S. 2095-1982) screw fixed with 25mm screws at 300mm centre to centre to either side, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, joint finisher and two coats of primer	sqm	70		
27	11.2	Providing and making 12mm thick cement plaster of mix				
	11.2.4	In Cement Mortar 1:6 (1 cement : 6 fine sand)	sqm	100		
28	12.3	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	sqm	50		
	12.3	40 mm thick				
29	14.1	Providing and applying plaster of paris putty over plastered wall surface including scaffolding complete				
	14.1.1	Upto 2 mm thickness to make surface even and smooth in line and level	sqm	1000		
30	14.2	Providing and applying plaster of paris putty over plastered ceiling surface including scaffolding complete				
	14.2.1	Upto 2 mm thickness to make surface even and smooth in line and level	sqm	500		
31	14.10	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade				
	14.10.1	On new work (two or more coats)	sqm	1000		
	14.10.2	On old work (one or more coats)	sqm	2000		
32	14.21	Applying priming coat on steel work with red oxide zinc chromate primer	sqm	50		
33	14.22	Painting on new work (two or more coats) to give an even shade with:				
	14.22.2	Premium synthetic enamel paint	sqm	50		
34	17.1	Repairs to plaster in patches of area 2.5 sq. metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the wall with cement mortar 1:4 (1 cement : 4 fine sand) complete including disposal of rubbish to the dumping ground within 50metres lead				
	17.1.1	Thickness upto 15mm	sqm	300		

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35	17.2	Providing and replacing broken floor tile with 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 removing the broken tile and mortar, pointing the joints with white cement mixed with matching pigment etc. complete.				
	17.2.1	Size 300x300mm	sqm	60		
36	17.5	Providing and replacing broken floor tile with vitrified floor tiles with soluble salt pining, 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 removing the broken tile and mortar, grouting the joints with white cement and matching pigments etc. complete.	sqm	60		
37	17.7	Providing and replacing broken vitreous china water closet squatting pan (Indian type) including removing the broken squatting pan and mortar, cutting and making good the walls and floors wherever required.				
	17.7.1	White Long pattern W.C. pan of size 580 mm	each	10		
38	17.8	Providing and replacing broken vitreous china water closet (European type W.C. pan) including removing the broken water closet (European type W.C. pan) cutting and making good the walls and floors wherever required.				
	17.8.1	White pedestal type	each	10		
39	18.1	Providing and fixing 10 litre capacity P.V.C. low level flushing cistern conforming to IS : 7231, with all fittings and fixtures complete.				
	18.1.1	White	each	10		
40	18.11	Providing and fixing white vitreous china urinal basin with waste fitting as per IS : 2556, and other couplings in C.P. brass complete.				
	18.11.1	Flat back half steel urinal of size 460x380x250mm	each	10		
41	18.17	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including pointing of brackets, cutting and making good the walls wherever required.				
	18.17.1	White Size 500x400 mm	each	10		
42	18.25	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	18.25.1	32 mm dia	each	20		
	18.25.2	40 mm dia	each	20		
43	19.4	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.				
	19.4.1	15 mm nominal outer dia. Pipes	metre	30		
	19.4.2	20 mm nominal outer dia. Pipes	metre	50		
44	19.6	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, filling & testing of joints complete as per direction of Engineer in Charge.				
	19.6.1	15 mm nominal outer dia pipes	metre	50		
	19.6.2	20 mm nominal outer dia pipes	metre	50		
45	19.7	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.				
	19.7.1	15 mm dia. nominal bore	metre	30		
	19.7.2	20 mm dia. nominal bore	metre	30		
	19.7.3	25 mm dia. nominal bore	metre	30		
46	19.10	Making connection of G.I. distribution branch in G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete: (dia of main line to be measured)				

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	19.10.1	20 mm nominal bore	each	10		
	19.10.2	32 mm nominal bore	each	10		
17	19.11	Providing and fixing G.I. Union in G.I. pipe (New work) including cutting and threading the pipe and making long screws etc. complete				
	19.11.1	15 mm nominal bore	each	10		
	19.11.2	20 mm nominal bore	each	10		
	19.11.3	25 mm nominal bore	each	10		
48	19.13	Providing and fixing 15 mm nominal bore Brass bibstop cock of approved quality.				
	19.13.1	Bib cock (250 grams)	each	20		
	19.13.2	Bib cock (350 grams)	each	20		
49	19.14.11	Hand shower set with flexible extension pipe	each	20		
50	19.14.13	Toilet paper holder	each	10		
51	19.14.16	Towel rail (800mm long x 20mm dia)	each	10		
52	19.14.17	Towel ring (150 mm dia)	each	10		
53	19.16	Providing and fixing brass gun metal gate valve with C.I. wheel of approved quality (screwed end)				
	19.16.1	25 mm nominal bore	each	10.00		
54	19.50	Constructing masonry Chamber 120x120x100 cm, inside with modular well burnt clay bricks of 35 kg/ cm <sup>3</sup> in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm, top diameter, 160 mm bottom diameter and 100 mm deep (inside) with chained lid and RCC top 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 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.	each	2.00		

  
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