

MUNICIPAL CORPORATION BHILAI (C.G.)

कार्य का नाम :- वार्ड-18 कोल डिपो के पास सार्वजनिक सुलम शौचालय निर्माण कार्य। Pwd Building Sor 01.01.2015 & Electrical Sor

	D. Latin and datails of work	Qty.	Unit
S.No.	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	95.51	Cum
2	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	104.00	Sqm
3	the dressed area). Extra for every additional lift of 1.5 m or part thereof.	16.29	Cum
4	All types of soils Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto	17.06	Cum
5	50 M. and lift upto 1.5 M. 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.	35.46	Cum
6	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.	55.17	Sqm
7	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. 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 40mm nominal size).	9.45	Cum
8	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. 1:11/2:3 (1 cement : 11/2 coarse sand : 3 graded stone aggregate 20mm nominal size).	11.63	Cum
9	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:	2095.50	Kg
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	22.31	Cum
1.1	Mortar 1:6 (1 cement : 6 coarse sand) Columns, Pillars, Piers and likes- rectangular or square in shape	15.90	Sqm
11	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelve	63.03	Sqm
13	(cast in situ) Beams, lintels, cantilevers & walls	19.89	Sqm
14	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 plint		Cum
15	Extra for brick work in superstructure above plinth level for every floor or pathereof in addition to rate for foundation and plinth:	9.32	Cum
16	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level: Cement Mortar 1:4 (1 cement : 4 coarse sand)	54.73	Sqm

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	details of work	43.43	Sqm 31	painting o
-	Devertprion and 1990 1990 1990 1990 1990 1990 1990 199			NA AKING
24	Extra for providing and placing in portain course of han thick, frame of that MS bars reinforcement at every third course of M.S. sheet Imm thick, frame of M.S. and the size, 3.00 mm M.S. and the including	425.25	Kg	32 rami
2 3 30 3	Providing and trees of angle/ flat from angle finings composing the form of angle from diagonal braces of angle from and corners, all necessary fittings composite at junctions and corners, after chromate primer. applying a priming coat of red oxide zinc chromate primer.	171.90	Kg	S. A. S. W.
<u> </u>	Providing and traing area: 5.1. Square or round bars welded to steel frame of windows complete including square or round bars welded to frame with all necessary fitting complete including a priming coat welded to frame with all necessary fitting a priming of red oxide zine chromate primer.	1		7 4
- 2 9 2	Providing and fixing M.S. frames of doors, windows, ventures of providing and fixing M.S. frames of doors, wind lugs 10cm long cupboards joints mitred and welded with 15x3 mm lugs 10cm long with embedded in centent concrete blocks 15x10x10cm of grade M-10 or with embedded in centent concrete blocks 15x10x10cm of grade of necessary wooden plugs and screws or with dash fastener or rawl plugs and screws of necessary concerns the provided including fixing of necessary and mass are required including fixing of necessary	108.00	Kg	5 \
- 11	with fixing clips or will overs and applying a priming coat of approved steet primer butt hinges and screws and applying a priming coat of approved steet primers.	37.79	Sqm	
	Providing and making 6mm thick cement plaster of mix. In Cement mortar 1:4 (1 cement : 4 fine sand) Providing and making 12mm thick cement plaster of mix:	66.13	Sqm	
- 07	In Cement Mortal 1.50 (1 cement) 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)	104.32	Sqm	
-	Net Cement Punning	35.27	Squi	
1000	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coar of near cement. 40 mm thick	20.41	Sqm	
7 5 1 .5 2	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.	114.09	Sqm	
_ H H H H H H H H	Providing and fixing 15mm thick Granite (machine cut, table rubbed & mirror polished on both sides) for partition curtain in toilets or similar locations of required size in wall with cement mortar 1:4 (1 cement : 4 coarse sand) including cutting chase in wall and joint with wall treated with white cement mixed with matching pigment including rubbing and polishing to edge moulding to give high gloss finish. Granite stone black	0.60	Sqm	
525	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.	29.03	Sqm	
20 00	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade. On new work (two or more coats)	68.65	Sqm	
に かい 多に 1	Painting exterior surface with 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)	90.75	Sqm	
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.No.	Description and details of work	Qty.	Unit	1
	Painting on new work (two or more coats) to give an even shade with: Satin synthetic enamel paint	39.75	Sqm	
	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.	15.30	Sqm	
33	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required.	1.00	Set	_
34	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ concealed conduit/ submain wiring/ cable as required.	70.00	Metre	
35	Providing and fixing metal clad, SP&N switch fuse unit (re-wirable), 230/250 volts, with porcelain re-wireble fuses including drilling holes on the board, connections, earthing the body etc. as required. (Thimbeling shall be paid separately).	1.00	.00 Each	
36	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface steronduit including painting etc as required. 3 X 2.5 sq. mm in 20mm conduit		Metre	
37	Supplying and fixing on surface/ recess following way, 240 volts SP&N MCI distribution board of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable glan plate, including interconnections, earthing etc. as required. (But without MCB/RCCB/Isolator)	d 1.00	Eac	h
38	Wiring for light/ fan/ exhaust fan / call bell point with 1.5 sqmm FR PVC insulated stranded copper conductor single core cable in concealed steel conduit, with 5 amp piano type switch, phenolic laminated sheet, suitable six M.S. box and earthing the point with same size cable etc as required. Short	ze 12.0	12.00 Poin	
	Point	4.0	<u> </u>	oint
39	Medium Point	4.0	00 P	oint
40	Extra for providing and fixing light plug point on board in concealed steel conduit point wiring with piano type 3 pin 5 amp socket outlet and 5 amp switch including cost of phenolic laminated sheet and M.S. box etc. as required.	2.	00	Point
42	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in concealed steel conduit along with piano type 16 amp switch and 6 pin 16 amps socket outlet with suitable size M.S. box, phenolic laminated sheet, earthing the switch box and socket outlet with same size cable etc. as required. Medium Point		00	Point

	55 thi	54 ((53	52	51	50	49	48	47	46	45	44	43	S.No.	
	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.	Providing and fixing 600x450 mm beveled edge 4mm mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. Providing and fixing on wall face or under floor UV stabilized	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 450x325 mm	Providing and fixing white vitreous china urinal basin with waste fitting as per IS: 2556, and other couplings in C.P. brass complete: Flat back half stall urinal of size 460x380x250mm	Supplying, fixing, testing and commissioning of following CFL (Built in choke type) in existing lighting luminaries as required.	Supplying, installation, testing and commissioning of following sizes fancy exhaust fan having built in lovers in existing opening in wall including earthing etc. complete as required.	Supplying and installing (overhead) service main with following Size F voinsulated PVC sheathed aluminium conductor cables suspended with bobbin insulator on existing bearer wire in an approved manner and as per specification etc. or drawn in existing G.I. pipe bracket or conduit pipe wherever required, including connection, testing etc. 4 x 10 sq. mm	Supplying, installation, testing and commissioning of following sizes centure fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable, earthing etc. complete as required.	Supplying, installation, testing and commissioning of following of pallast fluorescent fitting (luminaries) complete with electronic ballast/copper ballast glow type starter (if required) but without fluorescent lamp, in false ceiling hanged with 2 Nos G.I chain to ceiling/truss frame earthing the fitting etc. as required	Providing and fixing 25 min A 5 min Providing excess learth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth below ground level including excess earth electrode at 0.5 Metre depth electrode at 0.5 Metre depth electrode at 0.5 Metre depth electrode electro	metre long with 2 Nos 50x50x6mm angle from shackle insulator with straps including accessories complete shackle insulator with straps including accessories complete.	Ceiling rose 3 pin 5 amps Ceiling rose 3 pin 5 amps Providing and fixing for house service connection G.I. pipe 50mm dia 3.2 Providing and fixing for house service connection wall and 75x90mm	of pressure die cast Alu. Housing, lamp holder, prismand of pressure die cast Alu. Housing, lamp fixing on wall as required, with gasket and wire guard deluxe type including fixing on wall as required, with gasket and wire guard deluxe type including fixing on wall as required, with gasket and wire guard deluxe type including fixing on wall as required, with gasket and wire guard deluxe type including fixing on wall as required, with gasket and wire guard deluxe type including fixing on wall as required.		(B)
16.00	12.00	3.00	3.00	2.00	12.00	2.00	20.00	2.00	2.00		10.00	1.00	12.00	4.00	Oth.
Metre	Metre	Each	Each	Each	Each	Each	Metre	Each	Hacii		Metre		Each Set		Each
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Scanned with OKEN Scanner



Each

Each

Set

12

Unit	C.No.	Description and details of work	Qty.	Unit
ch /	57	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS: 13592 (heavy) jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.	5.00	Each
=	58	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:	1.00	Each
	59	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality; Bib cock (250 grams)	9.00	Nos
/ 4	60	Stop cock (350 grams)	9.00	Nos
A	61	Towel rail (600mm long x 20mm dia)	2.00	Nos
	62	Soap dish plate	5.00	Nos
	63	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 the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia .Pipes.	30.00	Metre
	64	20 mm nominal outer dia .Pipes.	18.00	Metre
	65	25 mm nominal outer dia .Pipes.	25.00	Metre
	66	32 mm nominal outer dia .Pipes.	15.00	Metre
I	67	40 mm nominal outer dia .Pipes.	20.00 ·	Metre
ı	68	Providing and fixing stainless steel drain jali of approved make/quality.	3.00	Each
	69	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end): 25 mm nominal bore	1.00	Nos
		32 mm nominal bore.	1.00	Nos
.	71	40 mm nominal bore	1.00	Nos
	72	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: 100 mm diameter	25.00	Metre
	73	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 including bed concrete 150mm thick as per standard design: 100 mm diameter S.W. pipe	25.00	Metre
	74	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm2, water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design 150 x 100 mm size P type.	3.00	Each
	75 c	Providing and constructing brick masonry chamber for underground pipe and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm2 in cement mortar 1:4 (1 cement : 4 coarse sand) RCC cover of suitable size and 75mm thick with 1:1.5:3 mix (1 cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) including reinforcement 8mm dia bars at 150mm both ways and MS hooks for lifting, including foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or wo inlets:	5.00	nos

	(60)	Qty.	Unis
S.No.	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISL: 12701 marked with cover and suitable locking	2000.00	Litre
76	arrangement and making necessary holes for inlet, outlet and overnous arrangement and making necessary holes for inlet, outlet and overnous pipes but without fittings and the base support for tank Providing and fixing water closet squatting pan (Indian type W.C. pan), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing	0.00	Nos
	other fittings and fixtures complete including cutting and making good the walls and floors wherever required White Orissa pattern W.C. pan of size 580x440 mm 455x610 mm rectangular C.l. cover (light duty) the weight of the cover to be		Nos
78	not less than 23 kg. 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.	2.50	Metre
80 a	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.	25.00	Metre
81 R 82 R	ocky strata including Boulders. 150 mm dia.	65.00	Metre
Sı	ocky strata including Boulders. 150 mm dia. upplying, assembling, lowering and fixing in vertical position in bore well, upplasticized PVC medium well essing (GN).	20.00	Metre
83 co fitt En	nforming to IS: 12818, including required hire and labour charges, tings & accessories etc. all complete, for all depths, as per direction of gineer —in-charge. 150 mm nominal size dia	27.50	Metre
84 deve appr meth dising comp Engin	welopment of tube well in accordance with IS: 2800 (part I) and IS: 89, to establish maximum rate of usable water yield without sand tent (beyond permissible limit), with required capacity air pressor, running the compressor for required time till well is fully eloped, measuring yield of well by "V" notch method or any other oved method, measuring static level & draw down etc. by step draw down od, collecting water samples & getting tested in approved laboratory, i/c fection of tube well, all complete, including hire & labour charges of air ressor, tools & accessories etc., all as per requirement and direction of teer-in-charge.	5.00	Hour
Carryir	ete for bore well of:	1.00	each
submiss	ration for locating the proper spot for drilling of tube well within the habitation, including photography, interpretation of resistivity data and sion of report in the desired format along with resistivity readings, ry graph and photographs. (only successful point is payable)	1.00 .	Point



7.10.	Description and details of work	Qty.	Unit
87	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.	1.00	each
88	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	1.00	Each
89	Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and	30.00	Metre
90	threading etc. as required. 32 mm dia.		Metre
70	NON SOR ITEM		
1	Providing and fixing of Robe Hooks in toiletsas directed	10.00	Nos
2	Providing and Filling of soak pit with brickbats including S.W. drain pipe 100 mm dialmeter and 1.20 m Long complete	4.50	Metre

Executive Engineer Municipal Corporation Bhilai (C.G)

Asstt. Engineer **Municipal Corporation** Bhilai (C.G)

Sub. Engineer **Municipal Corporatio** Bhilai (C.G)