MUNICIPAL CORPORATION BHILAI (C.G.)

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कार्य का नाम :- वार्ड-12 आई.एच.डी.पी. के पास सुलभ शौचालय निर्माण कार्य। Pwd Building Sor 01.01.2015 & Electrical Sor

		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
1	leveling of pits. In all types of soil Surface dressing of the ground including removing vegetation and making up	104.00	Sqm
2	undulations and in-equalities not exceeding 13 cms in depart of disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area). Extra for every additional lift of 1.5 m or part thereof.	16.29	Cum
3	All types of soils Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides	17.06	Cum
5	of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 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	9.45	Cum
8	aggregate 40mm nominal size). 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).	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
11	Mortar 1:6 (1 cement : 6 coarse sand) Columns, Pillars, Piers and likes- rectangular or square in shape	15.90	Sqm
12	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves	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 plinth:	7.78	Cum
15	Extra for brick work in superstructure above plinth level for every floor or part thereof 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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	30	29	28	27	26	3	35	24	22	22	21	20	19	18		S.No.
	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)	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade. On new work (two or more coats)	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.	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	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.	coarse sand: 4 graded stone aggregate 20mm) finished with a floating coat of neat cement. 40 mm thick	Cement concrete flooring with cement concrete 1-2-4 (1 company)	single or half brick wall of mix: In Cement Mortar 1:5 (1 cement : 5 fine sand) Net Cement Punning	Providing and making 15	Providing and making 12mm thick cannot also.	butt hinges and screws and applying a priming coat of approved steel primer. Providing and making 6mm thick compatible.	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred and welded with 15x3 mm lugs 10cm long wooden plugs and screws or with dash factors.	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.	angle iron, diagonal braces of angle/ flat iron of suitable size, 3.00 mm M.S. applying a priming coat of red oxide zinc chromate primer.	dia MS bars reinforcement at every third course of half brick masonry. Provide:	
	90.75	68.65	29.03	0.60	114.09	20.41	35.27	104.32	66.13	37.79		108.00	171.90.	425.25	43.43	Qty.
	Sqm	Sqm	Sqm	Sqm	Sqm	Sqm	Sqm	Sqm	Sqm	Sqm		Kg	Kg	Kg	Sqm	Unit

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	Wiring for power plug point with 2x4 sq mm FR PVC insulated stratcled copper conductor cable in concealed steel conduit along with pland type 15 copper conductor cable in concealed steel conduit along with pland type 15 amps switch and 6 pin 16 amps socket outlet with suitable size M.S. box, amp switch and 6 pin 16 amps socket outlet with same phenolic laminated sheet, earthing the switch box and socket outlet with same phenolic laminated sheet, earthing the switch box and socket outlet with same phenolic laminated sheet, earthing the switch box.	Extres for providing and fixing light plug point on seem outlet and 5 amp conduct point wiring with plano type 3 pin 5 amp socker outlet and 5 amp switch including cost of phenolic laminated sheet and MLS, box etc. as expired etc. as required.	LANG FOIRT	Westum Foint	Soint	Wiring for light that exhaust han call set points in concealed steel moulated strends outpler conductor single ours table in concealed steel conductor single ours table in concealed steel strate steel conduct. With 3 amp pland type switch, phenolic laminates sheet, suitable steel conduct, with 3 amp pland type switch same size cable etc as required. Short with same size cable etc as required. Short with same size cable etc as required.	plate, including interconnectations MCB RCCB fiorlator)	Supplying and fixing on surface states following on the approximations and broads of states states phosphatized and provider particulations gainst distributions complete states of states and provider particular distributions.	3 X 2.5 sq. mm in 20mm continue	Wring for sirepito sub main wiring along with earth wire with the following sizes of the PVC insulated copper conductor, single care sable in surface steel conduct including painting est as required.	Providing and fixing metal clad, SP&N swinch fixes unit (re-writible), 250/250 softs, with porcelain re-wirethe fixes including defling toles or the board connections, earthing the body etc. as required. (Trimbeling dial) he paid	Providing and fixing 6 SWG dia G.L. were on surface or in necession for long exactsing along with existing surfaces concealed conduit submain wiring cable as required.	and providing majority endoune with owner plate having worling arrangement and watering size and with chanceal and salt as required.	with C. I see h page 4.5 mene lang. 4) mm dis netwing assessment.	Making Somm thick plints proposition of stain senses sensets 56 m cement 5 capes sensets 56 m cement 5 capes send 6 graded crudical state appropria Somm tended crudical state of the state of	Printing in the water was in hors will, it give in over water with	Description and descrip of more	
	2.93	2.00		4,00	4.00	12.00		110	3	23.00		75.00	A set of the		(E)			
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0	nescription and details of work	Oty.	Unit
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	5.00	Each
58	conforming to IS: 5382 leaving 10 min gap for discrementations and fixing vitreous china water closet (European type W.C. 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	1.00	Each
50	walls and floors wherever required: Providing and fixing 15 mm nominal bore Brass bib/stop cock of	00.6	Nos
60	approved quality: Bib cock (250 grains)	9.00	Nos
60	Stop cock (350 grams)	2.00	Nos
0	Lower fall (bootinin forts a zonnin en.)	5.00	Nos
63	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having 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	30.00	Metre
	Charge. 15 mm nominal outer dia .Pipes.	18.00	Metre
	20 mm nominal outer dia .Pipes.	25.00	Metre
	25 mm nominal outer dia .Pipes.	15.00	Metre
	32 mm nominal outer dia .Pripes.	20.00	Metre
	40 mm nominal outer dia .r.lpes.	3.00	Each
89	Providing and fixing brass/ gun metal gate valve with C.I. wheel of	1.00	Nos
	approved quality (screwed end): 25 mm nominal bore	1.00	Nos
	32 mm nominal bore.	1 00	Nos
71 4 P P P P P	40 mm nominal bore 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)	25.00	Metre
	including testing of joints etc. complete: 100 mm diameter 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	25.00	Metre
74 7 2 2 2 2 4 4	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with 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	3.00	Each
75 999 8 33 95 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	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	5.00	nos

S.No.	Description and details of work	Qty.	Univ
76	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	2000.00	Litre
77	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 cistern (same colour) conforming to IS: 7231, with flush bend and 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	0.00	Nos
78	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	2.00 _	Nos
79	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	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. 150 mm dia.	25.00	Metre
81	Rocky strata including Boulders. 150 mm dia.	65.00	Metre
82	Rocky strata including Boulders. 150 mm dia.	20.00-	Metre
83	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer—in-charge. 150 mm nominal size dia.	27.50	Metre
84	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	5.00	Hour
85	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	1.00	each
86	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 an submission of report in the desired format along with resistivity readings, necessary graph and photographs. (only successful point is payable)	d 1.00	Point

S.L.a.	Description and details of work	Oty.
87	Supplying, installation, testing and commissioning of submersible pump set for water supply system with submersible motor directly coupled to multi-strage 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
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 as 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	1.00
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
90	threading etc. as required. 32 mm dia.	
	NON SOR ITEM	10.00
_	Providing and fixing of Robe Hooks in toiletsas directed	10.00
۱,	Providing and Filling of soak pit with brickbats including S.W. drain pipe 100	4.50
1	mm dialmeter and 1.20 m Long complete	

Executive Engineer
Municipal Corporation
Bhilai (C.G)

Asstt. Engineer
Municipal Corporation
Bhilai (C.G)

Sub: Engineer Municipal Corporatio Bhilai (C.G)