MUNICIPAL CORPORATION BHILAI (C.G.)

m NITकार्य का नाम :— वार्ड-08 अंतर्गत सार्वजनिक सुलभ शौचालय निर्माण कार्य।

Pwd Building Sor 01.01.2015 & Electrical Sor

Excaval any othe upto 50r leveling Surface, undulatidisposal the dress Extra for All types Filling fi of found 50 M. ar Providin floor in 1 by ramm Providin staging, 6 staging, 1 levels, fe any shap Providin stone ag	Excavation for all types and sizes of foundations, trenches and drains or for upto 50m (at least 5m away from the excavated stuff upto 1.5 m lift and lead leveling of pits. In all types of soil Surface dressing of the ground including removing vegetation and making up 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.	Oty. 95.51	Cum
	in (at least 5m away from the excavated area), including dressing and sof pits. In all types of soil The ground including removing vegetation and making up ions and in-equalities not exceeding 15 cms in depth/ height including lof rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from seed area). The seed area). The ground including removing vegetation and making up ions and in-equalities not exceeding 15 cms in depth/ height including lof rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from seed area). The seed area).	95.51	Cum
	ions and in-equalities not exceeding 15 cms in depth/ height including lof rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from seed area). The every additional lift of 1.5 m or part thereof.		
	or every additional lift of 1.5 m or part thereof.	104.00	Sqm
		16.29	Cum
,	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.	17.06	Cum
	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
	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
aggregat	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
Providin 8 stone ag cost of f	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
Providin 9 straighte cost of b	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
Brick w 10 IS:1289 Mortar	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)	22.31	Cum
11 Column	Columns, Pillars, Piers and likes- rectangular or square in shape	15.90	Sqm
12 Suspended f (cast in situ)	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	63.03	Sqm
13 Beams,	Beams, lintels, cantilevers & walls	19.89	Sqm
Extra fo level fo	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
Extra fo thereof	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
Half bri confirm above p sand)	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

S.No.	Description and details of work	Qty.	Unit
17	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.	43.43	Sqm
18	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.	425.25	Kg
19	Providing and fixing M.S. grill of approved pattern made of M.S. flats or 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.	171.90	Kg
	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred 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 rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	108.00	Kg
21	Providing and making 6mm thick cement plaster of mix: In Cement mortar 1:4 (1 cement + 4.5 cm.)	37.79	Sqm
- 22 1	Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:6 (1 cement : 6 fine sand)	66.13	Sqm
23	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
24	Net Cement Punning	35.27	Sqm
23	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	20.41	Sqm
26 g	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 ointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.	114.09	Sqm
27 n	Providing and fixing 15mm thick Granite (machine cut, table rubbed & nirror polished on both sides) for partition curtain in toilets or similar ocations of required size in wall with cement mortar 1:4 (1 cement : 4 oarse sand) including cutting chase in wall and joint with wall treated with white cement mixed with matching pigment including rubbing and olishing to edge moulding to give high gloss finish. Granite stone black	0.60	Sqm
$\begin{bmatrix} 28 & 0 \end{bmatrix}_{M}^{O1}$	roviding and laying ceramic glazed floor tiles conforming to IS: 15622 f approved size, make, colour, shade laid on 20 mm thick Cement flortar 1:4 (1 cement: 4 coarse sand) including pointing the joints with thite cement mixed with matching pigment etc., complete.	29.03	Sqm
29 W	'all painting with acrylic premium emulsion (plastic) paint of required adde to give an even shade. On new work (two or more coats)	68.65	Sqm
30 de	ainting exterior surface with ACRYLIC SMOOTH exterior paint of quired shade as per manufacturer's specifications to give protective and ecorative finish including cleaning washing of surface etc. complete with: On ew work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including iming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	90.75	Sqm

S.No.	D		
31	Description and details of work	Qty.	Unit
	Satin synthetic enamel paint	39.75	Sqm
32	Making 50mm thick plinth protection of plain cement concrete 1:3:6 () cement: 3 coarse sand: 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well 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	G .
	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	Each
30	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 steel conduit including painting etc as required. 3 X 2.5 sq. mm in 20mm conduit	25.00	Metre
37	Supplying and fixing on surface/ recess following way, 240 volts SP&N MCB distribution board of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as required. (But without MCB/RCCB/Isolator)	1.00	Each
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 size M.S. box and earthing the point with same size cable etc as required. Short Point	12.00	Point
39	Medium Point	4.00	Point
40	Long Point	4.00	Point
41	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.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	2.00	Point

Ts.	No.	Description and details of work	Qty.	Unit
	43 of pressure of gasket and w	fixing and testing of approved make bulk head luminaries consist lie cast Alu. Flousing, lamp holder, prismatic glass cover, rubber rire guard defixe type including fixing on wall as required, with sterial complete.	4.00	Each
	14 Ceiling rose	This 5 artists	12.00	Each
-	Providing and	I fixing for house service connection G.I. pipe 50mm dia 3.2 th 2 Nos 50x50x6mm angle from bracket on wall and 75x50mm for with straps including accessories complete.		Set
4	Providing and earth electrock	fixing 25 mm X.5 mm G.1 strip in 40 mm dia G.1 pipe from at 0.5 Metre depth below ground level including excavation as such etc. as respoired.	ad 10.00	Metre
3.7	fluoreseems fint allow type mark	affation, testing and commissioning of following concealed typing (himinaries) compiles with electronic ballian copper ballast (if required) but without fluorescent lamp, in false cailing too G I chain to cailing truss frame earthing the fitting etc. as		Each
48	fan including w	illution, testing and commissioning of following sizes ceiling iring the down rods of standard length up to 30 cm with 1.5 tq. saluted, copper conductor, single core cable, earthing etc.	2.00	Fach
49	Supplying and in invaluted PVC of invalutor on evin upocification etc.	nutalling (overhead) service main with following size PVC beathed aluminium conductor cables suspended with bobbin ting bearer wire in an approved manner and as per or drawn in existing G.1. pipe bracket or conduit pipe d, including connection, testing etc.	20.00	Metre
50	Constitution (1911)	lation, wearing and commissioning of following sizes fancy g built in lovers in existing opining in wall including earthing	2.00	Each
5 I	Supplying fixing	testing and commissioning of following CFL (Built in choke whoing luminaries as required.	12.00	Lach
52	Providing and fixing per IS: 2556, a per IS: 2660a	ing white vittreous chine urinal basin with waste fitting and other complings in C.P. brain complete. Flat back half stall 380%250mm	2.00	Each
53		g vitreous china wash basin with C.I. brackets, 32 is of standard pattern, including painting of d making good the walls wherever required White size	3.00	Each
54	(of approved quality	t 600x450 mm beveled edge 4mm mirror of superior glass) complete with 6 mm thick hard board ground fixed to C.P. brass screws and washers complete.	3.00	Each
55	Unplasticised Rigid thickness conforming couplers, jointing wit	on wall face or under floor UV stabilized PVC pipes (single socketed) having 3.2mm wall to IS: 13592 (4kg/sqcm) including required h seal ring conforming to IS: 5382 leaving 10 mm ision etc complete, 75 mm dia pipe.	12.00	Metre
-	10 mm dia pipe.	NAME OF THE OWNER OWNER OF THE OWNER OWNE	16.00	Metre

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7	Providing and fixing and fixing and details of work	Qty.	Unit
57	PVC pipes conforming to IS: 13592 (heavy) jointing with seal ring	5.00	Each
58	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 walls and floors wherever	1.00	Each
60	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality: Bib cock (250 grams) Stop cock (350 grams)	9.00	Nos
61		9.00	Nos
62	Towel rail (600mm long x 20mm dia) Soap dish plate	2.00	Nos
- 02		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
67	40 mm nominal outer dia .Pipes.	20.00	Metre
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
70	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 E	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 600x700 mm and 45 cm deep for pipe line with one or wo inlets :	5.00	nos

L	S.No.		Qt	y.	Unit
	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		Litre
	, ,	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 siz 580x440 mm	0.00) .	Nos
7	'8 ⁴ n	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg.	2.00		Nos
79	9 th	Providing and fixing on wall face or under floor UV stabilized Inplasticised Rigid PVC pipes (single socketed) having 3.2mm wall nickness conforming to IS: 13592 (4kg/sqcm) including required ouplers, jointing with seal ring conforming to IS: 5382 leaving 10 mm ap for thermal expansion etc complete. 75 mm dia pipe.	2.50		Metre
80	IS and equiper	oring/drilling bore well perfectly vertical for the specified depth suitable to ceive required dia for casing/ strainer pipe, by suitable method prescribed in : 2800 (part I), including collecting samples from different strata, preparing d submitting strata chart/bore log, including hire & running charges of all uipments, tools, plants & machineries required for the job, all complete as r direction of Engineer–in-charge upto 90 metre depth below ground level. 0 mm dia.	25.00		Metre
81	Ro	cky strata including Boulders. 150 mm dia.	65.00		Metre
82		cky strata including Boulders. 150 mm dia.	20.00		Metre
83	unp con fitti	oplying, assembling, lowering and fixing in vertical position in bore well, blasticized PVC medium well casing (CM) pipe of required dia, forming to IS: 12818, including required hire and labour charges, accessories etc. all complete, for all depths, as per direction of ineer –in-charge. 150 mm nominal size dia.	27.50		Metre
84	conte comp devel appro metho disinfo compr Engine	elopment of tube well in accordance with IS: 2800 (part I) and IS: 89, to establish maximum rate of usable water yield without sand ent (beyond permissible limit), with required capacity air pressor, running the compressor for required time till well is fully loped, measuring yield of well by "V" notch method or any other oved method, measuring static level & draw down etc. by step draw down ed, 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 eer-in-charge.	5.00		Hour
35	comple	ling and fixing suitable size threaded mild steel cap or spot welded plate top of bore well housing/ casing pipe, removable as per requirement, all ete for bore well of:	1.00		each
	configu selected submiss	ng out the resistivity survey by VES method using Schlumberger unation for locating the proper spot for drilling of tube well within the d 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

		The second secon	Unit
		Qty.	Univ
S.No.	Description and details of work Supplying, installation, testing and commissioning of submersible pump set for supplying, installation, testing and commissioning of submersible pump set for supplying and commission		1
	Supplying, installation, testing and commissioning of submersions of submersion water supply system with submersible motor directly coupled to multi-stage water supply system with submersible pump of specified discharge capacity, head, delivery size in submersible pump of specified discharge capacity, head, delivery size in existing bore well including 2 sets of suitable size holding clamps made out of 20 mm X 6 mm MS flat, connection with suitable submersible cable of standard	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	1.00	Each
	e) Ammeter 0-10 A 1 set	30.00	Metre
80	Tee's, bends, sockets in the suction derivery and many		Metre
	threading etc. as required, 32 mm dia. 25 mm dia.		21201
, ,	NON SOR ITEM	10.00	Nos
	LG top of Robe Hooks in toiletsas directed	10.00	1402
	Providing and fixing of Robe Hooks in torcasts 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)