

MUNICIPAL CORPORATION BHILAI

NIT

(14)

वार्ड क्रमांक 06/16 सुपेला इंदिरा नगर दुर्गा मंच के सामने आंगबाड़ी भवन निर्माण कार्य।

As Per PWD Building 01.01.2015& Electrical SOR 1.06.2020

S.NO	DESCRIPTION	QTY	UNIT
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.	34.91	cum
2	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:Columns, Pillars, Piers and likes- rectangular or square in shape	41.76	sqm
3	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 the dressed area).	120.00	sqm
4	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)	99.88	sqm
5	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 50 M. and lift upto 1.5 M.	8.40	cum
6	Beams, lintels, cantilevers & walls	33.97	sqm
7	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.	48.71	cum
8	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.1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	11.32	cum
9	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:Foundations, footings, base of columns and plinth beam in any shape and size.	67.05	sqm
10	Extra for brick work in superstructure:Above plinth and upto floor five level.	17.18	cum
11	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)	22.27	sqm
12	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.	22.27	sqm
13	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).	10.12	cum
14	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 of red oxide zinc chromate primer..	300.00	kg

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15	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.1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	16.12	cum
16	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 all complete:Thermo-Mechanically treated bars	2,470.40	kg
17	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side having 12 mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. complete	9.72	m2
18	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges 30mm thick (single leaf)	9.14	m2
19	Brick work with modular fly-ash lime bricks (FALG Bricks) confirming to IS:12894-2002 of class designation 35 in foundation and plinth in:Cement Mortar 1:6 (1 cement : 6 coarse sand)	20.24	cum
20	Providing and fixing M.S. bright finished or black enameled Butt hinges IS : 1341 marked with necessary iron screws:100x58x1.90 mm	15.00	Nos
21	Providing and fixing M.S. bright finished or black enameled sliding door bolts with bolts, nuts and necessary iron screws250 x 16 mm	10.00	Nos
22	Providing and fixing M.S. bright finished or black enameled Tower bolts (Barrel type) with necessary iron screws 200mm	5.00	Nos
23	Providing and fixing M.S. bright finished or black enameled handles with necessary iron screws100 mm	10.00	Nos
24	Providing and fixing MS bright finished single hanging door stopper with necessary MS steel screws complete.	10.00	Nos
25	6mm thick cement plaster of mix:In Cement mortar 1:4 (1 cement : 4 fine sand)	112.46	sqm
26	12mm thick cement plaster of mix:In Cement Mortar 1:6 (1 cement : 6 fine sand)	120.08	sqm
27	Providing and making 15 mm thick cement plaster on rough side of single or half brick wall of mixIn Cement Mortar 1:5 (1 cement : 5 fine sand)	213.59	sqm
28	Providing and making 12mm thick plain cement mortar bands in cement mortar 1:4 (1 cement : 4 fine sand) per cm width:Raised Band	180.00	Rmt
29	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.for hall	60.21	Sqm
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 200x300mm	7.95	Sqm

S.NO	DESCRIPTION	QTY	UNIT
31	KOTA stone slab 25mm thick in risers and treads of steps, skirting/dado and pillar laid in 12mm (Average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete. (single stone is to be used for riser and treads of steps and the width of stone for skirting and dado shall be equal to the height of skirting/ dado up to length of 1.0 M.)	1.80	m ²
32	Wall painting with acrylic luxury emulsion (plastic) paint (top most approved branded quality) to give an even shade On new work (two or more coats)	232.54	sqm
33	Painting new exterior surface (two or more coats) with PREMIUM TEXTURED paint 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)	213.59	sqm
34	Painting on new work (two or more coats) to give an even shade with Satin synthetic enamel paint (top most approved branded quality)	35.99	sqm
35	Providing and fixing one side polished 25 mm thick RAJIM SAND STONE shelves fixed in walls in cement mortar 1:3 (1 cement : 3 coarse sand) including finishing complete For one side polished	7.20	sqm
36	P/F white vitreous flat-back basin 580x400 mm with 15mm C.P. Brass pillar cock with R.S. or C.I. brackets painted white C.P. Brass chain with rubber plug 32 32mm pvc waste pipe complete including cutting and making good the floors and walls where required. White size 450x325 mm	Nos.	2
37	P/F 600x 450 barrel edge mirror of superior class (of approved quality) complete with 6mm thick asbestos sheet ground fixed to wooden cleats with brass screws & washer.	Nos.	1
	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 good the wall wherever required.		
38	For 75mm dia pipe	RMT.	3
39	For 100mm dia pipe	RMT.	3
40	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. Nahani trap 110x75mm	Nos	2
	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality:		
41	Bib cock (250 grams)	Nos.	2
42	Stop cock (350 grams)	Nos.	2
	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required		
43	Towel rail (600mm long x 20mm dia)	Nos	2
44	Soap dish plate	Nos.	2

	DESCRIPTION	QTY	
45	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 CONCEALED WORK including cutting chases and making good the walls etc., CONCEALED WORK including cutting chases and making good the		
46	15mm nominla outer dia pipe	RMT.	15
47	20mm nominla outer dia pipe	RMT.	20
48	25mm nominla outer dia pipe	RMT.	10
49	Providing and fixing stainless steel drain jali of approved make/quality	Nos	3
50	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end): 25mm dia.	Nos.	1
51	Providing laying and jointing of glazed stoneware pipe grade "A" with stiff mixture of cement mortar in proportion of 1:1 (1 cement : 1 Sand) including testing of joints and earth excavation, refilling and disposal of surplus eath complete in all respect for:-100mm dia S.W. pipe	RMT	3
52	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: 100mm dia S.W. pipe	RMT	3
53	Providing and fixing square mouth S.W. Gully trap of size 150x100mm 'P' or 'S' type grade "A" complete with C.I. grating brick masonry chamber with locally available best quality bricks and 75 th. R.C.C. precast cover made of M-20 grade Cement conc. As per detailed drawings and direction of Engineer 150 x 100 mm size P type	Nos.	2
54	Providing and constructing brick masonry chamber for underground pipe and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm ² 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		
55	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets	Nos	1
56	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 500 lit capacity 1 nos	Lit	500
57	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	Nos	1

S.NO	DESCRIPTION	QTY	UNIT
58	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	NOS	2
59	Earthing with G.I. earth pipe 4.56 mtr long 40mm dia including accessories and providing masonry enclosure wth cover plate having locking arrangement and watering pipe etc. with charcoal and salt as required	Nos	1
60	Providing and fixing loop earthing 6.0 s.w.g dia G.I. wire in existing surface or recessed conduit along other wires as required	Rmt	30
61	Providing and fixing metal clad SP & NJ switch fuse unit (re wirable) 230/250 volts with procelain rewireble fuse including drilling holes on the board connections earthing the body etc. as required (Thimblelling shall be paid seperately)32 amp	Rmt	1
62	Wiring for circuit wiring 3x2.5 sqm PVC insulated cable of Isi marked in concealed rigid steel conduit of suitable size as required 2 wire.x 2.5 sq mm	Mtr.	20
63	Supplying and fixing on survace / 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)4 way single door	Nos	1
64	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.		
64	Short Point	Point	10
65	Medium Point	Point	10
66	Point wiring for 3 Pin socket outlet point with 1.5 Sqm PVC insulated cable with copper conductor ISI mrked in concealed rigid pipe	Points	4
67	Wiring for power plug point with 2x4 sq mm FR PVC insulated stranded copper conductor cable in surface 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 including painting etc. as requiredMedium Point	Nos	2
68	Supplying, fixing and testing of approved make bulk head luminaire consisting of pressure die cast Alu. Housing, lamp holder, prismatic glass cover, rubber gasket and wire guard delux type including fixing on wall as required, with necessary material complete	Nos	01
69	Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden block including connection etc as required.	each	12
70	Providing and fixing for house service connection G.I. pipe 50mm dia 3.2 metre long with 2 Nos 50x50x6mm angle iron bracket on wall and 75x90mm shackle insulator with straps including accessories complete	Set	1
71	Providing and fixing of GI flat 25 x 5 mm on surface or recessed for down conductor and earth connection to main switch including clamps,nut bolt welding at site etc	M	10
72	Supplying, installation, testing and commissioning of following surface/ concealed type fluoescent fitting (luminaries) complete with copper ballast, glow type starter but without fluoescent lamp, on ceiling/ wall surface, earthing the fitting etc. as required	Nos	1

S.NO	DESCRIPTION	QTY	UNIT
73	Supplying, installation, testing and commissioning of following sizes ceiling fan with resistance type regulator, 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 1200 mm dia sweep	Nos	4
74	Supplying and installing (overhead) service main with PVC insulated aluminium conductor single core cables suspended with bobbin insulator (in group of 2/3/4 wires) 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 3x10 sq .mm	Meter	10
75	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 300 mm dia	Nos	1
76	Supplying, fixing, testing and commissioning of following CFL (Built in choke type) in existing lighting luminaries as required 11 watt	Nos	10

कार्यपालन अभियन्ता
नगर पालिक निगम, भिलाई


सहायक अभियन्ता
नगर पालिक निगम, भिलाई


उप अभियन्ता
नगर पालिक निगम, भिलाई