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MUNICIPAL CORPORATION BHILAI

NIT

जोन 03 क्षेत्रांतर्गत भिलाई नगर विधानसभा अंतर्गत वार्ड 52 से 56 तक भवन, उद्यान एवं विद्युत
संधारण कार्य।

As Per PWD Building 1.1.2015 Electrical SOr 1.06.2020+ ITem Rate

Item No.	Particulars of item	Qty.	Unit
1	2	7	9
	Building Maitainance		
1	Demolishing brick masonry including arches, stacking of serviceable material disposal of unserviceable material within 50 metres lead.In cement mortar.	6.00	m ³
2	Dismantling flag stone flooring laid in cement/lime mortar including stacking of serviceable material and disposal of unserviceable material within 50 metre lead.	50.00	Sqm
3	Dismantling terrazzo or mosaic or glazed vitreous or patent cement or tiled flooring or dado skirting of any thickness without sub base.	30.00	Sqm
4	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metre lead.	0.18	m ³
5	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. In all types of soils.	22.65	m ³
6	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.1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	34.15	m ³
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.	124.00	m ³
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.1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	6.84	m ³
9	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).	4.16	m ³
10	Providing & placing in position cold twisted and hot rolled deformed steel reinforcement for RCC work l/c cutting, bending etc. complete as per drawing l/c cost of binding wire and l/c all wastage	879.71	kg
11	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) SOR Item No 7.5.4	4.00	m ³
12	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) SOR Item No 7.5.4	16.00	m ³
13	Providing & fixing of form work l/c centering ,shuttering ,strutting, staging ,Proping bracing etc. complete & removal upto 4 m height	5.76	sqm
14	Columns, Pillars, Piers and likes- rectangular or square in shape	19.20	m ²
15	Beams, lintels, cantilevers & walls	20.00	m ²
16	Weather shade, chhajja, Cornices and mouldings	2.25	m ²
17	Providing and making 6mm thick cement plaster of mix:In Cement mortar 1:4 (1 cement : 4 fine sand)	100.00	m ²
18	Providing and making 12mm thick cement plaster of mix In Cement Mortar 1:6 (1 cement : 6 fine sand)	80.00	m ²
19	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:In Cement Mortar 1:6 (1 cement : 6 fine sand)	80.00	m ²
20	Painting exterior surface with smooth exterior emulsion paint manufactured with the cow dung processing to give protective and decorative finish including cleaning washing of surface etc. complete	80.00	Sqm

Item No.	Particulars of item	Qty.	Unit
1	2	7	9
21	providing and applying 2mm thick ready mix exterior grage putty (manufactured with cow dung processing) on walls to make the surface smooth and even	180.00	sqm
22	Painting on new work (two or more coats) to give an even shade with: Satin synthetic enamel paint. SOR Item No 14.22.1	137.03	m ²
23	Providing and laying vitrified floor tiles with soluble salt printing, 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 (1cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc. complete.	100.00	Sqm
24	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. SOR Item No .9.13	1070.00	kg
25	Providing and fixing M.S. grill of approved pattern made of M.S. flats 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. SOR Item No 9.15	360.00	KG
26	Supply and fixing of precoated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. 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 wherever required.	100.00	KG
27	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 plinth 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. Electric resistance or induction butt welded tubes Grade-250 Vertical tubular post 200 mm medium	500.00	KG
28	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.50 mm thick	100.00	Sqm
29	Add Extra For Electrical , Sanitary Work Water Work 19.11%	1.00	Job
Gardening work			
1	Surface dressing of the ground including removing vegetation and making up undulations and inequalities 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).	1600	sqm
2	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 in all types of soil.	48	Cum
3	Supplying and stacking of good earth at site including royalty, loading, unloading and carriage upto 5 km (earth measured in stacks will be reduced by 20% for payment).	240	Cum
4	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).	120	Cum
5	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	240	Cum
6	Providing and planting following herbs in garden including preparation of soil, base plantation, providing and spreading different fertilizers, soil and sand:Hedges like Alife, Dorenta, Tikoma etc	25	Each
7	Furn like Arica, China etc (3 year old)	25	Each
8	Hibiscus (Flower)/ Rose	25	Each
9	Carpet grass (well developed)	100.00	sqm
10	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.	16.00	Cum

Item No.	Particulars of item	Qty.	Unit
1	2	7	9
11	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. 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).	16	Cum
12	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250kg/sq cm Pigment Coloured (rubber mould) precast interlock concrete blocks	360	sqm
13	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. 1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).	8.28	Cum
14	Carriage by mechanical transport upto 5 km lead. Earth	48	Cum
15	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	560	Kg
16	Painting exterior surface with Smooth exterior emulsion paint manufactured with the cow dung processing 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	240	Sqm
17	Painting on new work (two or more coats) to give an even shade with:	150	Sqm
18	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 per specification and IS: 694 (2010). Note: submersible Cable should be rust proof, safe from oil / Grease and under water Chemical / abrasion Resistant. 1.5 HP, single phase	1	Nos
19	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 interconnection 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	Nos
20	Supplying, laying and fixing following size submersible cable along with GI/PVC/HDPC pipe line or laid in ground etc as per specification and IS: 694 (2010). Note: Cable should be rust proof, safe from oil / Grease and under water Chemical / abrasion Resistant. 3x2.5 sqmm	60	MT
NON SOr Item			
21	Providing ISI Mark 32 mm dia Black H.D.P.E Roll Pipe with Bottom and Top Socket Assembly Fiting all Complete	60	meter
Lighting Work & Electrical Work (S.O.R. 1.6.20)			
1	Supply of swaged steel tubular pole as per IS 2713 with base plate of size 300x300x6mm welded at bottom, necessary hole for cable entry and earthing stud welded at specified height including painting with one coat of red oxide zinc chromate primer.		
2	Designation 410 SP-2 height 7.00 metre	5.00	Each
3	Designation 410 SP-47 height 10.00 metre	5.00	Each
4	Erection of STEEL TUBULAR or "H" BEAM/ ISMB pole in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation and cement concrete collar of size 0.4 metre dia and 0.50 metre height from ground level including excavation and refilling etc. as per specification of length: 7 metre to 10 metre	10.00	Each

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1	2	7	9
5	Supplying and fixing of single over hang (Arm) 1000 MM (long)x50 mm dia decorative GI street light pole bracket made out of GI "A" Class pipe welded to 300 MM Long GI Pole canopy of suitable dia at angle of 102.50 Degree including having GI triangular stiffner and making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy including FRP Dome on existing pole etc. as per enclosed drawing and as per direction of engineer-in-charge.For Street Light	10.00	Each
6	Supplying and fixing of double over hang (Arm) 1000 MM (long)x50 mm dia decorative GI street light pole bracket made out of GI "A" Class pipe welded to 300 MM Long GI Pole canopy of suitable dia at angle of 102.50 Degree including having GI triangular stiffner and making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy including FRP Dome on existing pole etc. as per enclosed drawing and as per direction of engineer-in-charge.For Tubler Pole	10	Each
7	Supplying and fixing water tight terminal box made of 1.6mm thick M.S. sheet with detachable gland plate in bottom, hinged front open able cover, rubber gasket, having 1 Nos 4way connector and 1 No SPMCB inside the box for cable connection, fixed to pole with 2 Nos clamp made from 40x3mm M.S. flat with 2 No nut bolt dully painted with 2 coat of red oxide paint and 2 coat aluminium paint complete as per specification. 30 x 20 x 15 cms	10	Each
8	Supplying and making end termination with brass compression gland and aluminum lugs for following size armoured aluminum conductor power cable of 1.1 KV grade as per specification.2 X 16 sq. mm (19 mm)	95	Each
9	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as per specification. .25 sq. mm	60	Each
10	Painting new steel and other metallic surface with red oxide zinc chromide primer paint complete with supply of material labour etc. including preparation of surface	108	Sqm
11	Painting wood steel and other metallic surface with Aluminium Paint complete with material and labour including preparation of surface.	108	Sqm
12	Providing timber / steel form work for cement concrete work at all levels including removing of the same.	28.26	Sqm
13	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 per specification and IS Code 3043: 1987(R 2016)	10	Set
14	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit / PVC casing capping as per specification and IS: 694 (2010) . 3 x 2.50 sq.mm3 x 2.5 sq. mm	160	MTr
15	Providing and fixing porcelain re-wireble fuse carrier and base unit on wooden board including drilling holes on the board, screws, connections etc. as per specification. (Thimbeling shall be paid separately). 32 amps	10	Each
16	Supplying following DP MCB, 240 volts6 amps to 32 amps 'C' curve	20	Each
17	Supplying, installation, testing and commissioning of following 230/250 volts LED street light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio \geq 120 lumens /watt.		
18	For Street Light 90 watt	12.00	Each
19	For Street Light 120 watt	10.00	Each
20	Supplying of following 230/250 volts LED Flood light fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Seperate housing for driver etc complete as per specification and P.A. should be greater than 0.9. LED chip efficacy ratio \geq 120 lumens /watt.		
21	Tubler Pole 150 watt for Garden	5.00	Each

Item No.	Particulars of item	Qty.	Unit
1	2	7	9
22	Supplying and laying following sizes one number FRLS PVC insulated/XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade direct in ground at a depth not less than 40 cm and upto 90 cm including excavation, sand cushioning, protective covering and refilling the trench etc as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1). 2 x 16 sq. mm	250	Meter
23	Supplying, installation, testing and commissioning of following LED Rope light complete as per specification and IP65, P.F. should be greater than 0.759 Watt per Metre White / Warm White	280	Meter

कार्यपालन अभियन्ता
नगर पालिक निगम, भिलाई

सहायक अभियन्ता
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सुप. अभियन्ता
नगर पालिक निगम, भिलाई