

# MUNICIPAL CORPORATION OF BHILAI

NIT

कार्य का नाम:- वार्ड 59 सड़क 13 में विल्डिंगल गार्डन निर्माण कार्य।

| As Per PWD Building & Road SOR 01.01.2015, Electrical SOR 01.06.2020 |   |          |     |
|--|---|----------|-----|
| S.N.   | PARTICULARS OF ITEMS  | Quantity | UOM |
| 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.  | 30.960   | Cum |
| 2  | 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.<br>1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).  | 9.440    | Cum |
| 3  | 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.<br>1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).   | 7.134    | Cum |
| 4  | 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.   | 18.494   | Cum |
| 5  | 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 250 kg/sq.cm<br>Plain/ normal coloured precast interlock concrete blocks | 37.760   | sqm |
| 6  | 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:  | 430.0    | kg  |
| 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.<br>1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).  | 0.54     | Cum |
| 8  | Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:<br>Columns, beams & walls- circular or any other geometrical shape other than square and rectangular in all sizes   | 7.68     | Cum |
| 9  | 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 stringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.   | 107.77   | kg  |
| 10   | Providing and making 12mm thick cement plaster of mix:<br>In Cement Mortar 1:4 (1 cement : 4 fine sand)   | 5.52     | sqm |
| 11   | Finishing walls with water proofing cement paint of required shade to give an even shade.<br>On new work (Two or more coats applied @ 3.84 kg/10 sqm)   | 5.52     | sqm |
| 12   | Painting on new work (two or more coats) to give an even shade with:<br>Satin synthetic enamel paint  | 5.10     | sqm |
| 13   | 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).  | 39.61    | sqm |
| 14   | 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).   | 1.48     | Cum |
| 15   | 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).  | 3.41     | Cum |
| 16   | Brick work with modular fly-ash lime bricks (FaLG Bricks) conforming to IS:12894-2002 of class designation 4.0 in foundation and plinth in Cement Mortar 1:6 (1 cement : 6 coarse sand)   | 4.45     | Cum |
| 17   | 15mm thick cement plaster on the rough side of single or half brick wall of mix:  | 54.47    | Sqm |






|    |  |        |       |
|----|--|--------|-------|
| 19 | White washing with whitening to give an even shade. On new work (Three or more coats)  | 54.47  | Sqm   |
| 20 | Distempering with acrylic washable distemper to give an even shade. On new work (Two or more coats)  | 54.47  | Sqm   |
| 21 | Providing and placing in position angle iron post and strut of required size including bottom to be split and bent at right angle in opposite direction for required length and drilling holes upto 10 mm dia as per requirement including priming coat with red oxide zinc chromate primer and placing the post/ strut in cement concrete block   | 490.32 | Kg    |
| 22 | Painting on new work (two or more coats) to give an even shade with: Premium synthetic enamel paint  | 179.47 | Sqm   |
| 23 | Providing and fixing in position welded steel wire fabric to concrete/ wooden/ angle iron posts including securing and screwing with G.I. tying wire, G.I. staples, G.I. U-nails or steel pins etc., complete  | 89.136 | Sqm   |
| 24 | Supply Of Swaged steel tubular Pole as per IS 2713 with base plate of size 300 x 3000 x 6 mm welded at bottom ----- specified height including painting with one coat of red oxide zinc chromate primer. Designation 410 SP-26 height 9.00 metre   | 1      | Each  |
| 25 | 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   | 1      | Each  |
| 26 | 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.   | 1      | Each  |
| 27 | 30 x 20 x 15 cms   |        |       |
| 28 | 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. 3 X 25 sq. mm (25 mm)   | 3      | Each  |
| 29 | Supply & fixing & cramping suitable size & all type aluminum ferule/lugs for following size 1.1 KV grade power cable core/lead pressed with high pressure cramping tool including connection to switch gear/MCCB etc as required 25 sq.mm.   | 2      | Each  |
| 30 | Item - 17.28.4   |        |       |
| 31 | Supplying and fixing G.I. pipe along with wall or pole/ support with 2 Nos MS clamps for protection of under ground cable in approved manner including bolts and nuts or metal dash fasteners complete as per specification. 32 mm dia   | 50     | Meter |
| 32 | 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  | 6.3    | Sqm   |
| 33 | Supply and fixing following street light pole bracket on existing pole made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffener of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as per specification. Double Over Hang 1.50 metre Long | 2      | Each  |
| 34 | Painting wood steel and other metallic surface with Aluminium Paint complete with material and labour including preparation of surface.  | 6.3    | Sqm   |
| 35 | Providing and laying Cast-in-situ cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm including mixing with mechanical mixer, compacting with vibrator, finishing and currying etc. complete but excluding form work.  | 0.25   | Cum   |
| 36 | Providing timber / steel form work for cement concrete work at all levels including removing of the same.  | 2.83   | Sqm   |
| 37 | 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)   | 1      | Set   |
| 38 | 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.mm  | 18     | Sqm   |
| 39 | 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).  | 1      | Each  |
| 40 | 32 amps  |        |       |
| 41 | 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. 120 watt   | 1      | Each  |

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| 38 | 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).<br>2 x 16 sq. mm | 20 | mtr |
| 39 | Supplying, installation, testing and commissioning of following LED Rope light complete as per specification and IP65, P.F. should be greater than 0.75 9 Watt per Metre White / Warm White   | 10 | mtr |

Asstt. Engineer  
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