

# MUNICIPAL CORPORATION OF BHILAI

## NIT

कार्य का नाम :- वार्ड-04 नेहरू नगर स्टॉफ क्वार्टर के समीप छोटे उद्यान का निर्माण कार्य।

As Per PWD Building SOR 10.6.2026 & Electrical SOR 10.06.2026

| S.N. | ITEM CODE | PARTICULERS OF ITEMS                                                                                                                                                                                                                                                                                                                                                                                                    | Quantity | UOM |
|------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|
| 1    | 1.1       | 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                                                                                                                                                                  | 51.05    | Cum |
| 2    | 3.1       | 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).                                                                                                                                                                     | 13.20    | Cum |
| 3    | 3.1.5     | 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).                                                                                                                                                                   | 35.20    | Cum |
| 4    | 2.1       | 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.                                                                                                                        | 352.00   | Sqm |
| 5    | 1.18      | 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                                                                                                                                                                                                                         | 136.61   | Cum |
| 6    | 12.65     | 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 Pigment Coloured (rubber mould) precast interlock concrete blocks | 436.00   | Sqm |
| 7    | 3.1.4     | 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. 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).                                                                                                                                                                     | 0.68     | Cum |
| 8    | 2.1.6     | Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for: Columns, beams & walls- circular or any other geometrical shape other than square and rectangular in all sizes                                                                                                                                          | 7.68     | sqm |
| 9    | 3.2.1     | 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).                                                                                                                                                              | 1.47     | Cum |

|    |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |      |
|----|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|
| 10 | 3 12 1 | Providing and placing in position reinforcement for R C C work including straightening, cutting, bending etc. complete as per drawing including cost of binding wire All complete Thermo-Mechanically treated bars FE 415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 146.80 | Kg   |
| 11 | 9 6 2  | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 518.65 | Kg   |
| 12 | 11 2 2 | Providing and making 12mm thick cement plaster of mix: In Cement Mortar 1:4 (1 cement : 4 fine sand)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.52   | sqm  |
| 13 | 19.12  | Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as per specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.00   | each |
| 14 | 19.18  | Supplying erection testing and commissioning of hot dipped galvanised (single dip, minimum 86 micron) 12 metre High mast pole on existing RCC foundation with all accessories and equipments, main detailed as below to withstand max wind pressure as per IS 875 Part-3:<br>a) HM shaft made of approx weight 340 kg, sheet thickness 3 & 4 mm, nominal dia 360mm on bottom and 150 mm on top, base plate 25mm thick 520mm dia, approved no of sections (not more than 2) having suitable sectional lengths with slip joints between sections without any circumferencial welding. b) Double drum winch with Integral single phase power tool (electrical) for lowering & raising of lantern carriage on high mast with separate handle for manual operation of winch with a torque limiting device for safe locking of carriage.<br>c) Raising/lowering type lantern carriage designed to carry specified nos of luminaries, control gear box, junction box.d) Top pulley assemble with weather proof cover.<br>e) Necessary suitable length and size stainless steel wire ropes (minimum 6mm dia and 7/19 construction) for lowering & rising of lantern carriage. f) Suitable size and length multicore flexible copper power trailing cable (minimum 6 sqmm) g) Hinged service door in base section<br>h) Base plate earthing terminal. i) Suitable arrangement for supply distribution with termination of suitable size underground cable in high mast. j) Lightning conductor finial made of 25mm dia 300 mm long G.I.tube having single prong. k) Anchor plate, tem-plates, GI foundation bolts min 6 Nos of 24mm dia 750 mm long (EN 8 Grade) along with nuts washers etc.(RCC fooundation and luminaries will be paid separately) | 1.00   | Each |

|    |         |                                                                                                                                                                                                                                                                                                                                                                                                                                        |       |       |
|----|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| 15 | 19.23   | Designing and providing suitable and approved size RCC foundation for 12-30 mere high mast including steel reinforcement form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as required including laying and fixing HM foundation bolts with tam plates but excluding the cost of foundation bolts with tam plates etc complete as per specification | 1.00  | each  |
| 16 | 2.13    | Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, wire in surface FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) etc as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)                                                                                                                                                         |       |       |
|    | 2.13.2  | 3 X 2.5 sq. mm in 20mm conduit                                                                                                                                                                                                                                                                                                                                                                                                         | 96.00 | Metre |
| 17 | 15.1    | 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).                                                 |       |       |
|    | 15.1.24 | 4 x 25 sq. mm.                                                                                                                                                                                                                                                                                                                                                                                                                         | 80.00 | Metre |
| 18 | 6.29    | 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.                                              |       |       |
|    | 6.29.11 | 300 watt                                                                                                                                                                                                                                                                                                                                                                                                                               | 6.00  | Each  |
| 19 | 9.3     | Supplying and fixing on surface/ recess following way, 240 volts SP&N MCB distribution board consumer unit 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 per specification. (But without MCB/RCCB/Isolator)                                                                             |       |       |
|    | 9.3.1   | 2 + 4 way                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.00  | Each  |
| 20 | 12.1    | 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)                                                                                                                                                                           | 1.00  | Set   |
| 21 | 3.1.4   | 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).                                                                                                                                                                                 | 0.30  | Cum   |

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