

## MUNICIPAL CORPORATION BHILAI (C.G.)

### NIT

कार्य का नाम :- मुख्य कार्यालय में विद्युत संधारण कार्य।

Sn	Description and details of work	Unit	Qty
1	Wiring for light/ fan/ exhaust fan / call bell point with 3x1.5 sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in surface FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)		
	Short Point	Point	200
	Medium Point	Point	225
	Long Point	Point	250
2	Extra for providing and fixing light plug point on board in surface FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G. I. box etc. as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)	Point	200
3	Wiring for light plug point with 3x2.5 sq mm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in surface FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)		
	Long Point	Point	50
	Extra Long Point I	Point	50
	Extra Long Point II	Point	50
4	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)		
	3 X 1.5 sq. mm in 20mm conduit	Metre	1000
	3 X 2.5 sq. mm in 20mm conduit	Metre	1000
	6 X 2.5 sq. mm in 25mm conduit	Metre	500
	9 X 2.5 sq. mm in 32mm conduit	Metre	500
	12 X 2.5 sq. mm in 32mm conduit	Metre	500
5	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).		
	200 amps	Each	3
6	Providing and making interconnection in cubical panel between BBC and switchgears with following size FRLS PVC insulated copper conductor wire lead of length upto 50cm including providing copper thimbles on both ends as per specification (To be measured separately for each phase/ neutral).		
	10 sqmm (32 amp)	Each	12
	16 sqmm (63 amp)	Each	12

7	Providing and making interconnection in cubical panel between BBC and switchgears with following size copper strip of length upto 50cm as per specification (To be measured separately for each phase/ neutral).		
	25x5mm (200 amps)	Each	4
	50x5mm (400 amps)	Each	4
8	Fabrication, supply, installation, testing and commissioning of cubicle type compartmentalized wall/ floor mounted power cum control panel board of specified size and following depth made out of not less than 2 mm thick CRCA MS powder coated sheet with suitable size compartments for bus bars, switchgears and necessary cutouts for voltmeters, ammeters etc as per specifications including powder coating painting but without busbars, switchgears and other accessories etc complete as per specification.		
	Upto 300 mm deep	sqm	3
9	Supply, installation, testing and commissioning of 4 pole (3 phase + neutral) copper (electric grade) bus bars in existing cubicle type compartmentalized wall/ floor mounted panel board along with suitable size and shape insulators, necessary bolts and nuts etc complete as per specification.		
	200 amp (25x5mm)	Metre	6
10	Providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as per specification, IS/ IEC: 60947-2 and Ics = 100 % Icu.		
	3 pole MCCB, 25-63A, Fixed Thermal Release, 10KA	Each	8
	3 pole MCCB, 100A, Adjustable Thermal - Magnetic Release, 25KA	Each	2
	3 pole MCCB, 400A, Adjustable Thermal - Magnetic Release, 35KA	Each	1
11	Providing and fixing following rating current transformer in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	200/5 amps	Each	1
12	Providing and fixing penal mounting 230 volt LED type indicating lamp in existing cubical panel including, connections, testing and commissioning etc. as per specification.	Each	3
13	Providing and fixing penal mounting following rating analog type ammeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	0-500 amps	Each	1
14	Providing and fixing penal mounting 0-500 volt voltmeter of size 100x100 (NS) in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	Digital type	Each	1
15	Providing and fixing penal mounting selector switch in existing cubical panel including, connections, testing and commissioning etc. as per specification.		
	For voltmeter	Each	1
	For ammeter	Each	1
16	Supplying and fixing on surface/ recess vertical type following way, 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, with 200 amps tinned copper busbar, common neutral link, earth bar, din bar, detachable gland/ knock out plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator) (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)		



	4 way (4 + 12), Single door	Each	4
17	Supplying and fixing SP MCB, 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.		
	6 amps to 32 amps	Each	60
18	Supplying and fixing TP&N MCB, 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.		
	40 amps	Each	4
19	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe, with charcoal and salt as per specification and IS Code 3043: 1987(R 2016)	Set	2
20	Supplying and laying 8 SWG copper wire at 0.50 metre below ground level for conductor earth electrode, including soldering etc. as per specification.	Metre	30.00
21	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ concealed conduit/ submain wiring/ cable as per specification.	Metre	95
22	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as per specification.	Metre	95
23	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing masonry open duct as per specification, IS: 1554 (1988, Part 1) / IS: 7098 (1988, Part 1).		
	4 x 25 sq. mm.	Metre	95
24	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. .		
	4 X 25 sq. mm (25 mm)	Each	250
25	Earth work in all type soil except soft rock / hard rock with all lead and 1.5 metre lift, dressing, stacking excavated strata including refilling of excavated soil in trench / pit to ground level complete as per specification.	cum	2
26	Providing maintenance free earthing with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043(R 2016) -1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:		
	With 2 metre long GI Pipes and 25 kg back filling compound.	Each	2
25	Excavation for foundation in soft soil/hard soil including dressing of sides and ramming of bottoms, lifting and getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres	Cum	10

  
**Executive Engineer**  
Municipal Corporation  
Bhilai

  
**Assistant Engineer**  
Municipal Corporation  
Bhilai

  
**Sub-Engineer**  
Municipal Corporation  
Bhilai