

SCHEDULE OF WORK

NAME OF WORK:- Dev. of 1769.88 Hact. of land at pappan kalan (Dwarka) ph-I i/c alternative plots around village Amberhai, Bagdola & Manglapuri.
 SH: providing and installation of flood lights on poles for illumination of vacant plot near Dada Dev temple sector-8 Dwarka (Palam to Bagdola Road)

S.No.	Description of Item	Qty	Rate	Unit	Amount
1.	Supplying and erection of swaged type M.S. tubular pole of overall length of 12 mtr and having designation 410 SP-58 with M.S. base plate of size 400mmX400mmX10mm thickness at bottom and M.S. ring having a dia of 1 mtr made of 40mm dia M.S. pipe with cross member welded with M.S. sleeved fixed on the top of pole, 1 No earthing stud of 10mm dia at suitable height and with general arrangement embeded in foundation 1:3:6 (1 cement 3 coarse sand 6 graded stone) i/c excavation, refilling, painting with atleast two coats of approved shade of paint, red oxide primer etc. as reqd.	2 Nos		Each	
2.	Supplying, Installation, testing, & commissioning of flood light luminaries for operation on 240 volt, 50HZ A.C. supply complete with all accessories with 250 watt SON-T lamp i/c connection, earthing & testing etc. complete as reqd.	8Nos		Each	
3.	providing & fixing of control box suitable for outdoor installation of size 250mm X200mmX100mm deep made out from 1.60mm thick CRCA M.S. sheet with hinged gasketted cover on the front side with fixing & locking arrangement with a provision of earth studs-2Nos M.S. clamp of 25mmX3mm thick section of M.S. flat of suitable size for fixing control box on pole, painting, numbering complete with S/F of following accessories therein etc. as reqd.				

- a) 32 A. C-series SP&N MCB 10 KA-1No
- b) 16 Amps C-series SP, MCB 10KA-4Nos
- c) 4 way brass bakelite connector-2Nos

2 Nos

Each

4. Supplying, Installation, testing & commissioning of floor mounted feeder pillar cubical double door type, L.T. distribution board of size of 800mmX600mmX300mm deep with general arrangement made of 1.6mm thick MS sheet having hinged gasket cover and screwed knobs with double locking arrangement and 100mm projected rain protection cover for feeder pillar welding of M.S. angle iron legs of size 50mmX50mmX6mm X1mtr long grouted with 1:3:6 C.C. foundation and should be 0.7 mtr above ground level legs should be covered with brick walls, connection, interconnections with suitable size of PVC insulated copper conductor using thimbles wherever required painting, numbering i/c supply and fixing of following accessories complete as reqd.

- a 32 Amps SP&N MCB (C-series)-1No
- b. 25 Amps S.P. MCB (C-series)-4Nos
- c. Timer switch suitable for 240 volts A.C. supply -1No
- d. 32 Amps 240 volts coil 4 pole ML-1 (contractor)-1No
- e. Neutral link 4 way/connector-2Nos
- f. Danger notice plate (Aluminium)-1No
- g. Space for energy meter single phase with bakelite sheet


1No

Each

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|----|---|---------|------|
| 5. | Supplying & drawing following sizes of FR PVC insulated copper conductor for single core cable in the existing surface/recessed steel/PVC conduit pole connection etc. as reqd. | 20 Mtr | Mtr |
| a | 9x2.5sqmm | | |
| 6. | Supplying and fixing 40mm dia 3 mtr long G.I. pipe (Med) class in cement mortar collar for cable entry & protection i/c clamps, nuts, bolts etc as reqd. | 3Nos | Each |
| 7. | Supplying of following size of PVC insulated PVC sheathed XLPE 1.1 KV grade Al. cond. armoured power cable i/c testing etc. as reqd. | 200 Mtr | Mtr |
| a. | 2x25 sqmm | | |
| 8. | Laying of One No PVC insulated & PVC sheathed XLPE power cable of 1.1 KV grade of size not exceeding 25 sqmm directing round i/c excavation sand cushioning, protective covering & refilling the trench etc. as reqd. | 185Mtr | Mtr |
| 9. | Laying of One No PVC insulated & PVC sheathed XLPE power cable of 1.1 KV grade of size not exceeding 25sqmm in the existing RCC/Hume/Stoneware/metal & pipe etc. as reqd. | 15 Mtr. | Mtr. |
| 10 | Earthing with GI earth pipe 4.5 mtr long 40mm dia i/c accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) as reqd. | 3 sets | Set |

4/-

- | | | | |
|-----|---|--------|-----|
| 11. | Extra for using salt and charcoal for pipe earth electrode as reqd. | 3 sets | Set |
| 12 | providing and fixing 25mmx5mm GI strip in 40mm dia GI pipe from earth electrode as reqd. | 13 Mtr | Mtr |
| 13 | Supplying and fixing of anticlimbing device on street light pole, made out of 40x6mm MS strip clamp 600mm dia with 18Nos hooks of 10mm thick MS xxxx rods of suitable size on both sides nutb, bolts etc. as reqd. | 2Job | Job |

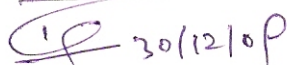

30/12/09
Executive Engineer
Elect. Division No. 5
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ADDITIONAL CONDITIONS

1. After the award of work the contractor shall produce samples of all material to be used in the work for approval of Engineer-in-charge only material conforming to approved samples shall be preserved till completion of work, if required the sample may also be executed at appropriate time as per directions of Engineer-in-charge. The decision of Engineer-in-charge regarding make of material shall be final and binding on the contractor.
2. The work shall be carried out as per the following specifications
 - 1) CPWD specifications for Electrical works at Delhi part-I (Internal) 2005 and part-II (External) 1994 with correction slip upto the date of tender.
 - 11) Indian Electricity rules 1956 as amended upto date.
3. A table indicating the makes, the governing specifications and other details in respect some of the important materials to be used in the work is attached. These specification shall have precedence over those indicated in additional condition No.2 above.
4. Only material bearing ISI/BIS certification mark shall be used in the work. Where articles of different design/make bearing ISI/BIS certification are available the decision of engineer-in-charge about the design/make to be used in work shall be final/binding on the contractor.
5. In case of material being ISI/BIS certification is not available the material shall conform to relevant BIS specifications.
6. In case BIS specifications are not available for any material the decision of engineer-in-charge regarding quality shall be final and binding on the ~~and~~ contractor.
7. Whenever required by Engineer-in-charge, the contractor shall supply for the purpose of testing of samples of any material proposed to be used in work and suitable package to contain the samples shall be provided free of charge by the contractor. The testing charges if any shall be borne by the department.
8. In case of any discrepancy in the description of any item given in the schedule of quantities and the specifications the former shall prevail, if the specification for any item are not available the decision of Engineer-in-charge shall be final.

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9. Embedding of earth electrode and its testing shall be carried out in the presence of site in charge only
- 10 The contractor shall be responsible for watch & ward of electrical installations and all fittings till the work is fully completed and handed over to the department no claim on this account shall be entertained.
- 11 The poles shall be painted of approved colour and with two coats of approved paint. The interior of the looping/control boxes shall be painted with synthetic enamel paint after applying a coat of metal primer. All poles shall be numbered with figure height of 30mm.
- 12 The rates quoted by the tenderer shall be firm and shall be inclusive of all taxes, duties, levies, transportation charges cartage etc. concessional sales tax form C/D shall not be issued by the ~~department~~ department.
- 13 No T&P shall be issued to the contractor by the department.
- 14 The contractor shall submit a guarantee for a period of 12 months from the date of completion of work of successful working of all items executed under this contract on a non judicial stamp paper worth Rs. 50/-
- 15 The control box for control of lighting luminaries shall be fixed at suitable height on the existing poles as decided by engineer-in-charge in view of overhead system and safety of the control box. Necessary holes in existing pole wherever required shall be made by the contractor free of cost nothing shall be paid extra.
- 16 The control box the pole & the lighting luminaries shall be suitable earthed.
- 17 The contractor shall have to use FLYASH BRICKS for cable coverings while laying of cable in trench instead of conventional bricks.
- 18 The base of the connector box shall be at a height of 2.25mtr from Ground level.
- 19 The suitable size of brass compression gland shall be provided within quoted rates.

 30/12/09
Executive Engineer(E)/ED.5

**TABLE INDICATING GOVERNING SPECIFICATION AND MAKES IN RESPECT OF SOME OF THE
IMPORTANT MATERIALS TO BE USED IN THE WORK**

S.No.	ITEM	GOVERNING SPECIFICATIONS	REMARKS/MAKES
1.	G.I. Pipe	IS: 1239	JINDAL (HISSAR)/SURYA/TATA
2.	XLPE Aluminium Conductor 1.1 KV Grade power cable	IS: 7098(Pt.I)	ASIAN CABLE/UNISTAR/ECKO/SKYTONE/ HAVELLS
3.	PVC Insulated FRLS copper Conductor wire	IS: 694	SKYTONE/NATIONAL/ECKO/HAVELLS
4.	Lighting Luminaries	-	BAJAJ make Model BGEMFS 250 SV complete PHILIPS MAKE, Model similar to Bajaj.
5.	LAMP	-	PHILIPS/BAJAJ/OSRAM
6.	MCB	IS: 8828	STANDARD /L&T/INDO KOPP/ACTION/ LEGRAND/HAVELLS.
7.	Paint (Enamel/Aluminium		BERGER NEROLAC/ASIAN/DULUS
8.	Time Switch and Contactor		L&T, GE, SIEMENS
9.	KIT KAT		STANDARD/HAVELLS


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