

SCHEDULE OF WORK

NAME OF WORK:- Maintenance of completed/^{closed} Schemes of Dwarka Zone SH: Providing and Installation of damaged/
Missing items for completion of IEI work of L.S.C at sector-5 Dwarka ph-I

S.No.	Description of item	Qty	Rate	Unit	Amount
1.	Supplying and fixing of following sizes of steel conduit alongwith accessories in surface/recess including painting incase of surface conduit or cutting the wall and making good the same incase of recessed conduit as reqd.				
a	20mm dia	73 Mtr		Mtr	
b.	25mm dia	93 Mtr		Mtr	
2.	Supplying and fixing G.I. box of following (Nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in the front including painting etc. as reqd.				
a.	75mm X 75mm X 60mm deep	18 Nos		Each	
b.	180mm X 100mm X 60mm deep	36 Nos		Each	
c.	200mm X 250mm X 75mm deep	18 Nos		Each	

3. Supplying and fixing following piano type switch socket on the existing switch box/cover including connection etc. as reqd.

a	5/6 amps switch	98 Nos	Each
b.	3 pin 5/6 amps socket outlet	18 Nos	each
c.	15/16 amps piano type switch	18 Nos	Each
d.	6 pin 15/16 amps socket outlet	18 Nos	Each

4. Re-wiring of light point/fan point/exhaust fan point call bell point with 1.5 sqmm PVC insulated copper conductor cable and 1.5 sqmm PVC insulated copper conductor single core cable as earth wire in existing surface/recessed steel conduit including dismantling as reqd.

a	Group-A	80 Nos	Each
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5. Supplying and drawing following sizes of FR PVC insulated copper conductor single core cable in the existing surface/recessed steel conduit / PVC conduit as reqd

a	3 x 1.5 sqmm	17 Mtr	Mtr Each
b.	3 x 4 sqmm	87 Mtr	Mtr.
c.	3 x 6 sqmm	205 Mtr	Mtr.
g.	Mixing for the telephone		
6.	Supplying & drawing of following pair 0-5 sqmm FR PVC insulated copper conductor un-armoured telephone cable in existing /surface/recessed steel PVC conduit as reqd.		
a	2 1 pair- 1No	140 Mtr	Mtr
b.	2 pair-1No	2 Mtr	Mtr
c.	4 pair-1No	2 Mtr	Mtr

7. Supplying and fixing of following way single pole and neutral sheet steel MCB distribution board 240 volts on surface/recess complete with tinned copper busbar, earth bar, dinbar, detachable gland plate inter-connection phosphatized and powder painted (but without MCB/RCCB/Isolater) earthing etc. as reqd.

a 4 way single door

18 Nos

Each

8. providing & Installation of cubical pattern meter board suitable for 10 Nos single phase energy meters as per drg attached fabricated from 1.60mm thick CRCA MS sheet having M.S. angle iron 50mmx50mmx6mm duly wired with 10 sqmm stranded PVC insl. copper cond. single core cable from busbar to MCB via energy meter SP MCB and neutral link with cable lugs having two earth terminals duly spray painted numbered making earth connections etc and complete with the following accessories mounted thereon etc. as reqd.

a Busbar chamber having 4 Nos Al. g busbar of size 30x5x400mm long duly PVC sleeved or PVC taped provided with drilled & holes i/c necessary dia bolts, nuts, and washers for taking lugs of incoming and outgoing cable as reqd- 1set

b. Seasoned hard wood board 15mm thick +1mm duly varnished for each meter position mounted on MS flats duly welded on the bare of meter board-10Nos

c. 2 way neutral links of suitable rating-~~1set~~ No for each meter position-10Nos

d. Brass compression gland of suitable size-1No

- e. 415/500 Volt. 200 amps front operated TP&N switch disconnecter fuse unit interior only i/c connections with busbar with suitable size of copper cond. cable and copper lugs of suitable capacity-1No
- f B* S/F danger notice plate (MV)-1No 1Set Set
9. P/F recess/surface mounted main distribution board having hinged gasketed cover with can type knob and locking arrangement of over all dimension 1320mmx200mmx250mm deep duly compartmentalised as per drawing attached made out of 1.6mm thick CRCA MS sheet duly spray painted numbering making earth connections suitable for following MCB etc. as reqd.
- a 32 Amps SP&N MCB-10Nos 1Set Set
- 10 providing and installation of following items in the existing installed meter boards for 10Nos meter position-One set and 6nos meter position-1set as per the drawings enclosed including painting numbering and connections etc. as reqd.
- a All covers made out of 1.6mm CRCA MS sheet i/c spray painting for energy meter chambers, busbar chambers, switch disconnecter etc complete as reqd.
- b Aluminium busbars 4nos of size 30mmx5mmx400mm long-1set and 4nos of size 25mmx6mmx300mm long-1set duly PVC sleeved or taped with drilled holes i/c necessary dia bolts, nuts, washers for taking lugs of incoming and outgoing cables of size 10sqmm stranded PVC insulated copper cond. for both meter boards.

- c. Seasoned hard wood board 15mm thick +1mm duly varnished alongwith 1No 2way neutral link of suitable rating and dinbar for SP MCB for each meter position-16Nos
- d. Brass compression gland of suitable size-2Nos
- e. S/F danger notice plate (MV)-2Nos
- f. 415/500V. 200 amps front operated TP&N switch disconnecter unit interior only for meter board of 10Nos meters and 125 amps front operated TP&N switch disconnecter interior only for meter board of 6nos meter position i/c connections with busbar with suitable size copper cond. cable and cable lugs of suitable capacity etc. as reqd.

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- 11 providing and fixing covers made out of 1.6mm thick MS CRCA sheet with cam type knobx on the existing installed main distribution boards of nominal size (I) 1400mmx200mmx250mm deep for 10Nos SP&N MCBs (II) 1050mmx200mmx250mm deep for 6nos SP&N MCBs including P/F 25mmx5mm thick GI earth strip of suitable length, painting, numbering, connections etc complete for both MDBs as per drg. attached.

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- 12 Supplying and fixing of M.S. box of ~~size~~ size 300mmx200mmx120mm deep recessed/surface made out of 1.22mm thick CRCA MS sheet duly spray painted with hinged gasketted cover as per drg. attached screwed knob painting etc as reqd. (for telephone). 2Nos Each
- 13 Fixing of 5 amps to 32 Amps rating 240 volt B-series MCBs of following poles in the existing MCB , M.D.Bs & meter boards complete with connections etc. as reqd.
- a Single pole 60 Nos Each
- b. Single pole & neutral 41Nos Each

20/12/21
 Executive Engineer
 Elect. Division No. 1
 D. D. A.

ADDITIONAL CONDITIONS

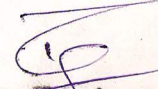
1. The contractor must get acquainted with the proposed site for ~~xxx~~ work and study specifications and conditions carefully before tendering.
2. Work shall be executed as per CPWD specifications for electrical works part-I (Internal) 2007 and part-II Ext. 1994 and electricity rules 1956 as amended upto date.
3. A table indicating the makes, governing specifications of materials to be used is attached herewith. Materials bearing ISI certifications mark shall only be used at site where same is not available Decision of the Engineer-in-Charge shall be final/binding on the contractor.
4. All material to be used shall be got approved from Engineer-in-charge before use at site.
5. Light points where fittings are not to be provided under the contract shall be provided with ~~ix~~ extended 25 cms long wires for phase and neutral and ~~wallex~~ wooden back plate of teak wood, duly varnished 10 cms dia, 15mm thick or rectangles size of 15cmX10cmX10mm thick.
6. Edges for switch boxes and junction boxes etc shall be neatly finished by electrical contractor with 1:4 cement, badarpur, mortan and chases after fixing conduit/boxes shall be filled with cement,mortar 1:4 and flush with masonry surface and cure adequantly within the quoted rates.
7. Fan regulators are not to be provided under the scope of this work but contractor shall provide necessary loop earth wire fo earthing of regulators within quoted rates.
8. For exhaust fan points contractor shall provide 3pin ceiling rose free of cost within the quoted rates.
9. For light points, fan points, light plus points & power plug points piano type switches shall be used for power plug points 6 pin socket outlet shall be provided within the quoted rates.

contd...

- 10 Copper bare earth wire wherever required in the boxes shall be PVC sleeved. Sleeved portion be from the end terminal to atleast inside the conduit.
- 11 Dimentions indicated in drawings (MDBs, MCBs board etc) to be provided now are nominal tolerance of $\pm 3\%$ shall be permissible, is linear dimensions.
- 12 For meter boards M.D.Bs
 - a Meter chambers shall be provided with 75mm wide and 100 mm long window in the front by means of 2mm thick clear acrylic sheet.
 - b. Enclosure shall be spray painted internally ~~mak~~ as well as externally with approved colour paint after applying a coat of primer.
 - c. 14 SWG G.I. wire shall be used for earthing the energy meters from earth terminals for which nothing shall be paid.

GOVERNING SPECIFICATION AND MAKES OF MATERIAL

No.	ITEM	GOVERNING SPECIFICATIONS	REMARKS/MAKES
.	M.S. Conduit	IS: 9537(Part-DI) 1981	BEC, AKG, NIC, VIKAS
.	Phenolic laminated sheet	IS: 2036	3mm thick- HYLAM, FORMICA, CAPRIHANS, SUPER HYLAM.
.	PVC insulated copper conductor wire/telephone wire	IS: 694	Copper conductor, wire for size 2.5mm and above shall be stranded type. Skytone, National, ECKO, Havells make.
a)	6/16 A. piano switches/bell push	IS: 3854	Shall be white in colour ANCHOR, CPL, PRECISION PRECISION, CONA.
b)	6/16 A. piano three/six pin socket outlet	IS: 1293	
.	Switch Disconnector Unit (Interior only)	IS: 13947	L&T/SIEMENS/STANDARD/HAVELLS
.	Neutral Link	-	-
.	S.D.B's	-	-
.	G.I. Boxes	Galvanized class P-1 as per IS: 277-1977	18 SWG Galvanized MS sheet upto size of 200mmX300mm & above this size boxes shall be made out of 16 SWG Galvanized MS sheet.


Executive Engineer(E)/ED.5