



Schedule of quantity for electrical work in Alternate premises at Najibabad

Sl. no.	Description of Items	Unit	Qty	Rate (Rs)	Amount (Rs)
1*	Supplying and fixing of 125 Amp TPN Main Switch on M.S Angel frame on wall including cable connection etc complete in all respect	Set	1		
2*	<u>MAIN PANEL BOX</u> Supply, installation, vermin-proof,, cubicle type, 20 gauge thick sheet enclosure main incoming (MIP) panel, suitable for use on 415 V, 3-Ph, 4 wire, 50 Hz AC system, incoming and outgoing cable compartment. Each unit shall be accommodated in a separate compartment having gasketed hinged door with locking arrangement. The cubicle should be painted with 2 (two) coats of gray synthetic enamel paint over a coat of zinc chromate primer. The complete fabrication, construction shall be done as per the detailed specification and conforming to the relevant I S code. Name plate of Panels Danger Board, incoming and outgoing feeders with Ampere rating of MCCB / MCB are to be fixed up on front door above or below the respective switches. Approval of drawings is required from the Bank. The panel should be enough to accommodate items detailed below.	Set	1		
	<p><u>INCOMING :</u> 415V 125A 4 pole MCCB having short circuit breaking capacity of 35 K A (min) with O/L, E/F & S/C protection Device. (a) Digital Volt Voltmeter with Selector Switch -1no. (b) Digital Ammeter with Selector Switch (c) Phase indicating lamps-1no. (d) PVC sleeved TPN 150 Amp Tinned 4 strip Copper Bus bar-1no. (e) 100/5A CT(Current transformers) -1no.</p> <p><u>OUTGOING</u> a) 63 A, 4 pole TPN MCCB with 25KA breaking capacity on load. – 1 no. b) 63A, DP on load change over switch-1no. c) 240V 40A SP MCB(for UPS) -1 no. d) 240V 32A SP MCB(for light/fan points)-1 no. e) Provision for installation of MCB-1no.</p>				

3*	Supplying and fixing concealed type factory fabricated 1 phase 240 volt SPN MCB Distribution board (Double Door) with 40 Amp DP RCCB of 300 mA as Incomer complete with interconnection with MCB, copper bus & neutral & earth link.				
	a)8 Way with 6 nos SP MCB (5-10 Amp)(Light)	Each	2		
	b) 12 Way with 10 nos SP MCB (5-10 Amp (UPS)	Each	2		
4*	Supplying and fixing concealed type factory fabricated 3 phase 400 volt TPN MCB Distribution board 4 way per phase with 63 Amp TPN RCCB of 300 mA sensivity as incomer and 12 nos (6-25) Amp MCB SP as out going complete with interconnection with copper bus & neutral & earth link. (A.C)	Each	2		
5	Supplying and connection by 4 x 16 sqmm + 1x6 sqmm FRLS PVC insulated copper wire between Main Switch and Panel by making proper end socketing including supplying 35mm pvc pipe.	Rmt			
6	Supplying and connection by 4 x 10 sqmm + 1x6 sqmm FRLS PVC insulated copper wire between TPN DB and Panel by making proper end socketing including supplying 25mm pvc pipe.	Rmt	50		
7	Supplying and drawing circuit line by 2 x 6 sqmm + 1x 2.5 sqmm FRLS PVC insulated copper wire by 19 mm pvc pipe fully concealed and mending good the damages (For UPS Incoming & UPS to DB)	Rmt			
8	Supplying and drawing circuit line by 2 x 4 sqmm + 1 x 2.5 sqmm FRLS PVC insulated copper wire by 19mm pvc pipe fully concealed and mending good all the damages)(for AC)	Rmt	120		
9	Supplying and drawing circuit line by 2 x 2.5 sqmm +1x1.5 sqmm FRLS PVC insulated copper wire by 19 mm pvc pipe fully concealed and mending good the damages.(For circuit wiring)	Rmt	250		
10	Making point wiring for fan & light by 2 x 1.5Sqmm +1 x 1 sqmm FRLS PVC insulated single core copper wire by 19 mm pvc in concealed manner including modular type switch & socket 6Amp, M.S.box, Top plate and cover plate.	Rmt	150		
	a) Single point controlled by single switch.	Each	25		
	b) Double point controlled by single switch.	Each			
	c) Plug point 6Amp	Each			
	d) Call bell point	Each			
11	Supplying and fixing 2 Nos 3 pin 6 Amp Socket and 1 No 15Amp controlling switch of modular type and connection including M.S box, cover plate and top plate in one board.	Each	10		

12	Supplying and fixing 3 Nos 3 pin 6 Amp Socket and 3Nos controlling switch of modular type including M.S box	Each	02		
13	Supplying and fixing 1 No 3 pin 6 Amp Socket with controlling switch of modular type including M.S.Box, cover plate and top plate for raw supply.	Each			
14	Supplying and fixing 1 No 6 pin 6/16 Amp Socket with controlling switch of modular type including M.S.Box, cover plate and top plate	Each			
15	Supplying and fixing 2 Nos 40Amp DP MCB in suitable enclosure for UPS Incoming & outgoing.	Each			
16	Supplying and fixing Air-conditioner Starter with 20Amp SPN MCB & Socket of North West/Havels make in suitable steel enclosures including 20Amp 3 pin plug top.	Each	7		
17	<p><u>Earthing :- (General)</u> Earthing installation as per I.E. conforming to IS: 3043 or its latest amendment by making earth station with 600 mm x 600 mm x 3mm (minimum) thick copper electrode to be installed such that its top edge shall be at a minimum depth of 3.0 metre below ground level after preparation of ground with required quantity of charcoal and salt and connecting the MIP with 20mm x 3mm copper earth lead-in-strip directly in ground by bolting and then brazing to the copper plate complete with GI bolts of suitable length, double nuts and washers including supply and fixing of 50mm dia. partly perforated GI pipe with funnel for watering arrangement. The earthing installation should be provided with 300mm x 300mm and 300mm depth inside dimension masonry inspection pit with CI hinged cover having locking arrangement.</p> <p>Notes:-</p> <ol style="list-style-type: none"> 1) Where ever Chemical Earthing is possible, same may be carried out as per manufacturer's specifications in lieu of above. 2) Earthing resistance must be less than 2 Ohms. 3) Guarantee for a particular period should be obtained from the contractor. 	Each	1		
18	Drawing earth line with single core PVC insulated 1x6 sq. mm copper wire inside 19mmdia PVC pipe up to UPS.	Rmt	10		
19	Supply and Installation of following light fixture complete with lamps, tubes, fixing arrangement in false ceiling including making connection etc.				
	a) LED light fixture recessed type 2'x2'	Each	10		

	b) LED light fixture Surface type	Each			
	c) LED Down lighter	Each	12		
	d) Tube light fittings	Each	4		
	e) Wall Bracket Fan/Ceiling fan	Each	6		
	Supplying of 9" dia exhaust fan (Heavy Duty) of approved make complete with louver &	Each	2		
20	Supply and drawing telephone cable of approved make in the PVC pipe.				
	a) 2 pair	Rmt			
	b) 4pair	Rmt			
	c) Termination of telephone cable in one end with RJ11 Telephone Socket (Jack type) – 2 nos in 1 module in suitable enclosures.	Each			
	d) Termination of telephone cable in one end with RJ11 Telephone Socket (Jack type) – 1 no in 1 module in suitable enclosures	Each			
21	a) Supply and drawing LAN-cable CAT-6 (D-link or eqv. make) in the PVC pipe.	Rmt	300		
	b) Termination of LAN-Cable in one end by RJ45 Computer Jack & mounting of modular type including supplying and fixing suitable I.O Box in concealed manner (D-link, Roma, Crabtree, MK or eqv. make in suitable enclosures)	Each	16		
22	Supply & Fixing patch chords (Cat-6) D-link or eqv. make	Each	8		
	i) 3' long	Each			
	ii) 7' long	Each			
	c) Termination of LAN-Cable in other end by RJ45 socket.	Each	8		
	• *To be done by the Landlord				

List of Approved Make:- PVC insulated Copper Wire

(FRLS grade) : Finolex/Polycab/Havels/RR Kabel

Electric Cables : Havels/Gloster

ELCB+ MCB or RCCB : L&T//Siemens/GE/ Havels/MDS/ Merlin Gerin/Leagrand MCBs/MCCBs/DBs :

L&T//Siemens/GE/ Havels/MDS/ Merlin Gerin/Leagrand Modular Switches/sockets : Anchor ROMA/ Crabtree /M. K.

PVC Conduit /Pipe : AKG/ Precision/Prestoplast/Asian

Earthing for Bldg. & UPS : Earth Electrode as per IS: 3043-1978/ Chemical Earthing

(Earthing resistance should be less than 2 Ohms) Telephone cable :

Delton/ITL/Polycab/Finolex/ RR Kabel

Changeover Switch : KEW

Lugs : Dowells/Jainson/Equ. Low Tension SFU with HRC fuse :

L & T / Siemens Metal Clad Sockets : Siemens/MDS/Equ.