

ESTIMATION : ELECTRICAL WORKS at CO-OPERATIVE SOCIETY STORE ,E BLOCK- GF					
Sl.No.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	PART - A				
A.	MV PANELS & DISTRIBUTION BOARDS				
	MCB DISTRIBUTION BOARDS : ALL DOUBLE DOORS - ABB,SCHNIDERS,INDO ASIAN(OPTIPRO),HAVELLS,LEGRAND..ETC				
	Supply, installation, testing and commissioning of the following cubicle type 1.2 mm thick CRCA sheet steel enclosed powder coated with approved shade and partitions to segregate phase with approved covers, single / double door, factory made recessed in wall or surface mounted final distribution boards of				
	NOTE : 1) Surface mounted DB's on walls shall be provided with suitable size frame work and neatly grouted on to wall and DB shall be fixed on to the frame work using bolts & nuts and other fixing accessories.				
	2) DB's concealed in wall shall include cut of necessary civil works and other fixing accessories.				
	3)The DB's shall be horizontal / vertical type as per configuration of incoming/outgoing feeders.				
	4)The DB's shall be factory made of approved make and necessary available higher size configured DB's shall be used.				
1.1	Supply & installation of TPN front operated 63 A, 10KA, 4P MCCB WITH overload and fixed short circuit in factory fabricated, powder coat painted metal enclosure complete along with statutory caution board, earthing and having wall mounting hinges etc. The box must have sufficient space for Aluminium cable termination upto 35 /50 sqmm.	Nos.	0	0	0
2.1	12 way SPN MCB DB				
	Incomer:				
	1 No,40A, 2P, RCBO (0-100mA)				
	Outgoing:				
	10 Nos. of 16/25A, SP, MCBs (C curve)	Set	1		
2.2	PDB/AC DB FOR store				
	4 way -ETPN MCB DB				
	Incomer:RCBO				
	1 No. 63 A, 4P, MCB+RCCB (0-100mA)				
	Outgoing:				
	8 Nos. of 6/10/16A, SP, MCBs (C curve)	Set	1		
B.	LT CABLES:				
1.0	Supply & Laying of 1100V grade, XLPE/ PVC insulated, PVC sheathed, Aluminium / copper conductor, steel armoured cables. The cable shall be laid in existing trench, cable tray / clamped on to the walls using necessary fixing accessories. The cable shall be provided with cable identification tags made out of Aluminium strip, engraved with cable size and the routing. (Note : cost of cable tray, supports, excavation, sand cushioning, brick protection and back filling measured separately).				
1.1	3x1/2 core x35 sq.mm.	Mtrs	0		
1.2	3CX 1/2 core 25 sq mm	Mtr	50		
1.3	4CX16 sq mm	Mtrs	20		
2.0	End connection of above cable with heavy duty nickle plated brass compression gland crimping type socket insulation tape etc. with all concern.				
	3x1/2 C X35 sq mm	nos	0		
2.1	3x1/2 c X 25 SQ MM	nos	4		
2.2	4 c X 16 SQ MM	nos	3		
C.	POINT -WIRING SYSTEM				
1.0	"Distribution wiring(concealed) including new point wiring 660 volt grade 3x1.5 sq.mm. (cu) PVC flexible wire in 20 SWG Rigid PVC (ISI Marked medium grade) conduit along with Conduit accessories circular boxes, MS boxes, 6 Amps Modular Type switch with socket outlets 6 pin, all individual control switch etc. Conduit size & nos of wires in conduit as per code of practice with circuit wiring with (2x2.5 + 1X1.5) sq.mm. copper wire from MCB DB to respective sw board.N.B. (I)Earth & neutral may be looped but from the last point earth & Neutral has to be connected with sw board.(ii)Point wiring should be inclusive of continuous wire length up to the connection block of light fittings/fans.				
a)	Light point(one switch controls one light)	Nos	12		
b)	Light point(one switch control two lights)	Nos	8		
c)	Exhaust fan point	Nos.	1		
d)	Ceiling Fan point with REGULATORS	Nos	4		
g)	Board plug point 5 pin 5 Amps with switch.	Nos.	4		
i	Supply & fixing 16 amp plug top with indicator	No.	0		
j	Supply & fixing 3 Pin 16 amp socket for AC	no	3		
k	Supply & fixing 3cx2.5 sq.mm. PVC insulated multistrand flexible cable	Mtr.	6		
D	LIGHTING WIRING / SUB MAINS/POWER WIRING UPS WIRINGS ETC :				
	Supply & Drawing power wiring circuit /sub mains using flexible, copper conductor, FRLSHF wires of 1100V grade, PVC insulated wires drawn in 2mm thick suitable size FR PVC conduit. The rate shall also include running of PVC insulated copper conductor as earth wire. All circuits starting from the respected db should have ferrulling arrangements.				
d1	3 x 1.5 sqmm Copper wires in 20 mm dia PVC conduit	Rmtr.	10		
d2	2 x 2.5 +1x1.5 sqmm Copper wires in 20 mm dia PVC conduit	Rmtr.	100		
d3	2x 4.0 +1X2.5sqmm Copper wires in 20 mm dia PVC conduit.	Rmtr.	60		
d4	2 x 6.0 +1X4sqmm Copper wires in 32 mm dia PVC conduit	Rmtr.	15		
d5	4x4 sqmm +1x4 sq mm Copper wires in 25 mm dia PVC conduit.	Rmtr.	5		
E.	POWER RECEPTACLES				
	DOMESTIC TYPE:				

.	Supply & fixing of 3/5 pin, commercial combination type socket outlet with indicator mounted on a outlet box with necessary interconnection. The box shall be flush mounted in brick/stone wall. The switches shall be of type Anchor roma make / equivalent. The rate shall also include cost of civil works involved in fixing of boxes, replastering of walls chased. All the switch / sockets shall have stickers for identification				
1	<b>RAW/UPS- POWER SOCKET</b>				
a)	"Supply & installation of MS Flush Metal box with front plate enclosing the following duly interconnected :a) 2 Nos 16 amp switch & 2 Nos 6 amps and 1 no. 6/16 amps socket outlet with indicatorb) 1 No. mounting box c) 1 No. front plate "	sets	3		
c)	Distribution wiring including new point wiring 660 volt grade 2x1.5+1x1.5 sq.mm. (copper ) PVC insulated flexible wire in 20 mm dia Rigid PVC (ISI Marked) conduit along with Conduit accessories circular boxes, MS boxes, 1x 6 Amps + 1x6Amps modular type switch and socket	set	3		
d)	"Supply & installation of MS Flush metal box with front plate enclosing the following duly interconnected make:( Crabtree /Legrand/ Philips)a) 1 Nos 16 amp switch & 1 Nos 6/16 amps socket outlet with indicator b) 1 No. mounting box c) 1 No. front plate"	set	2		
h)	2 Nos. 6/16A socket outlet controlled by 1 Nos. 16A tiny Trip MCB with indicators without wirings	Nos.	3		
F	<b>SUPPLY AND INSTALLATION OF LIGHT &amp; FAN FIXTURES</b>				
1.0	Supply, installation, testing and commissioning of following type light and fan fixtures with all necessary fixing accessories as required. The efficacy of the LED lamp shall be not less than 100lm/Watt				
1.1	1 x 20W, 5700K, 4 Feet LED tube, Surface/suspension light fixture with extruded Aluminium channel 4 feet with high translucent serrated milky white diffuser,robust and high performance batten. LED luminaire shall comprise of extruded channel in thermally conductive material. High translucent serrated milky white diffuser to get glare free and smooth light distribution. Efficacy : 100 lumen/watt similar to Crompton make cat no.LDL-20-CDL or equivalent matching specifications as per	Nos.	22		
1.2	1x 36W,5700K, 4 Feet LED tube, Surface/suspension light fixture with extruded Aluminium channel 4 feet with high translucent serrated milky white diffuser,robust and high performance batten. LED luminaire shall comprise of extruded channel in thermally conductive material. High translucent serrated milky white diffuser to get glare free and smooth light distribution. Efficacy : 100 lumen/watt similar to Crompton make cat no.LDL-36-CDL or equivalent matching specifications as per	Nos.	7		
1.3	Supply and fixing of BLDC ceiling fan without fan regulator with remotes and shall be of crompton/Havells or equivalent.( prior sample/ model approvals are required)Crompton make or equivalent Energon Nstar - 5 Star BEE, 1200mm sweep , Opal White , Model No-ENERGOS-26w/28w • BEE 5 STAR Rated fan(MAX 26-28w), 70% Savings on electricity costs) with Smart Remote Avg Power Inputs( 28Watts) , Air Delivery(min 220CFM)	Nos.	4		
1.5	Supply and fixing of 200-225mm dia. single phase. MEDIUM DUTY exhaust fan with necessary angle iron bracket, double ball bearing wall mounted fan ( metal body) Model BAHAR-225 of Bajaj or equivalents	Nos.	1		
H	<b>Extension to EARTHING SYSTEM</b>				
1.0	Supply, installation & connecting of G.I.tape /wire being clamped to walls, cable trays, ladders, run in pipes with Sleeves etc , laid underground etc.,as required including interconnection between the earth stations etc.,all complete as required. (Note : The excavation and back filling is measured separately) .				
a)	2x8 swg. Cu. wire	M	10		
J.	<b>TELEPHONE SYSTEM</b>				
1.0	Supply and laying of 2mm thick FR PVC conduit with all necessary accessories like junction boxes, pull boxes. G.I fish wires and other fixing accessories as required. The rate shall also include chasing of walls, floor and plastering of the chased portion etc; all complete as required.				
a)	20mm dia	M	20		
2.0	Supply and wiring for telephone outlet with 0.51mm dia, copper conductor, PVC insulated, unarmoured, telephone cable in existing conduit.				
2.1	2 pair	M	40		
K	<b>MISCELLANEOUS WORKS:</b>				
1.0	Dismanteling of old wirings for Raw Power/Lighting ckts, Socket points etc as to me removed from concealed , placed within PVC pipes, also safely removals of all existing ckts, Modular concealed existing 2x15 Amps Raw Power points , 2x 5 +1x15 Amps switch/sockets,old lights fixtures etc , 3 Fans., old MCB's , Jn Boxes, 1x15 Amps+2x5 Amps+2x15 Amps Switches total -4 sets( removal only, but to be kept safe for next installations at req places )	job	1		
2.0	Re-installation of all switch/Socket with Base frames -Metal only (removed from above site as per requirements /advised by Engg incharge, in existing Metal Base frame) to be reused for Computer/Raw power requirements.( 1x15 Amps +2x5 amps) sockets + 2x16 Amps switches as 1 set	set	4		
	<b>TOTAL:-(A+B+C+D+E+F+G+H+I+J+K)</b>				
	<b>GST AS APPLICABLE SHALL BE EXTRA</b>				