S No A I		Description of work -Electrical works GENERAL WIRING	Unit	Boq Qty	Rates	Amount
		GENERAL WIRING		1		
1						
1		Supply and fixing of TPN Switch Fuse Unit (SFU), 500				
1		Volts Three Phase & Neutral(TPN) in sheet MS enclosure				
		with 3nos.HRC fuses & a neutral link complete with				
		mounting & suitable end boxes for proper				
		terminations as per IS Standards				
	а	160 Amp. TPN SFU	Nos.			
	b	125 Amp. TPN SFU	Nos.			
	С	100 Amp. TPN SFU	Nos.			
	d	63 Amp. TPN SFU	Nos.			
	е	32 Amp. TPN SFU	Nos.			
		Supply and fixing of 3Pole/4Pole MCCB ,(50/60Hz) low				
		voltage electrical installation from 220V to 690V. MCCB				
		shall be equipped with a trip unit in sheet MS enclosure				
1A		suitable extended connects, complete with mounting, &				
		suitable end boxes for proper terminations as per IS				
		Standards, scope inluding required hard ware for				
		endconnectors & mouting system completly				
		Moulded case circuit breaker (MCCB) - L/T100A to 160A -	N.'			
	а	(50 - 65 kA DL Series) - Four pole - FP	Nos.	1.00		
		Moulded case circuit breaker (MCCB) - L/T100A to 160A -				
	b	(50 - 65 kA DL Series) - Triple pole - TP	Nos.			
		(JU - UJ KA DE JENES) - TTIPIE POIE - TF				+
	_	Molded case circuit breaker (MCCB) - L/T12A to 100A	Nee			
	с	MCCB - (6 kA - 10 kA DTH Series) - Four pole - FP	Nos.			
		Molded case circuit breaker (MCCB) - L/T12A to 100A				
	d	MCCB - (6 kA - 10 kA DTH Series) - Triple pole - TP	Nos.			
		Supply and laying of Copper multi stranded wires of				
•		1100V grade PVC insulated including PVC conduit pipe				
2		from, meter to Switch fuse unit in meter cabin completed				
		with adequate capacity of dowell's make ferrules type				
		copper crimping lugs as per IS standards				
	а	4runs. x 50 sq.mm	Mtr.			
	b	4runs. x 35 sq.mm	Mtr.			
	c	4runs. x 25 sq.mm	Mtr.			
	d		Mtr.	20.00		
		4runs. x 16 sq.mm		20.00		
	e	4 runs. x 10 sq.mm	Mtr.			
	f	4 runs. x 6 sq.mm	Mtr.			
		supplying and laying of ALUMINIUM PVC insulated				
		armoured cables to be laid partly concealed after				
3		exvating the floor/ earth and partly on wall with its				
Ŭ		accessories such as M. S. Spacer, saddles, nut bolts,				
		screws etc from meter room to L. T. Control Panel as per				
		IS Standards				
	а	3 1/2core x 95 sq.mm Aluminium Conductor cables	Mtr.			
	b	3 1/2core x 70 sq.mm Aluminium Conductor cables	Mtr.			
	c	3 1/2core x 50 sq.mm Aluminium Conductor cables	Mtr.	50.00		1
	d	3 1/2core x 35 sq.mm Aluminium Conductor cables	Mtr.	00.00		1
	u e	3 1/2core x 25 sq.mm Aluminium Conductor cables	Mtr.			
	f					
	I	4core x16 sq.mm Aluminium Conductor cables	Mtr.			
		Termination of cables- PVC insulated armoured				
_		Aluminium /Copper conductor cables by using Flange type				
4		upto 50sq.mm size and Siemens type brass cable gland				
		with appropriate size of Dowell's make copper crimping				
		type lugs.(set means RYB-N)				
	а	3 1/2 x 95 sq.mm Aluminium Conductor cables	Set			
	b	3 1/2 x 70 sq.mm Aluminium Conductor cables	Set			
	c	3 1/2 x 50 sq.mm Aluminium Conductor cables	Set	5.00		
	d	3 1/2 x 35 sq.mm Aluminium Conductor cables	Set	0.00		
		3 1/2 x 25 sq.mm Aluminium Conductor cables	Set			
	e f	4core x16 sq.mm Aluminium Conductor cables	Set			

S No		Description of work -Electrical works	Unit	Boq Qty	Rates	Amount
5		supply and fixing of Manual CHANGE OVER SWITCH 500 Volts, 4 pole enclosed in sheet steel enclosure set on M.S. angle frame with nut, bolts, screws etc.complete with mounting arrangement and interconnection for following types & suitable end connector boxes for proper terminations as per IS Standards				
	а	160 AMP	Nos.			
	b	125 Amp.	Nos.	1.00		
	С	100 Amp.	Nos.			
	d e	63 Amp. 32 Amp.	Nos. Nos.			
5a	0	supply and fixing of <b>BYPASS CHANGE OVER SWITCH</b> 500 Volts, 4 pole enclosed in sheet steel enclosure set on M.S. angle frame with nut, bolts, screws etc.complete with mounting arrangement and interconnection for following types & suitable end connector boxes for proper terminations as per IS Standards				
	а	160 AMP	Nos.			
	b	125 Amp.	Nos.			
	c d	100 Amp. 63 Amp.	Nos. Nos.			
6	u	Gel /chemical Earthing:	NUS.			
	а	Gel / chemical Earthing 3 mts length Earthing Electrode - <b>3mtr length</b> , 80mm dia 2 bags of Ennov / approved make BackFill Compound as per attached insallation manuval, and IS standards (ENOVA/ Earthing center / pre approved make) scope including all required tools and tackles and provide installation video / photos with earthing resistance parameters	Nos.			
	b	Gel / chemical Earthing 2 mts length Earthing Electrode - <b>2mtr length</b> , 80mm dia 1 bag of Ennov/ Approved make BackFill Compound as per installation manuval & IS standards ( ENOVA/ Earthing center / pre approved make ) scope including all required tools and tackles and provide installation video / photos with earthing resistance parameters	Nos.	2.00		
7		supplying & laying of <b>Earthing cable</b> from Earthing bus bars to equipments scope including required lugs, nut and bolts ( DG, UPS, Panel, Internal DBS etc (using green color)				
	a h	1C x 16sqmm cu flexible wire in pvc pipe	Mtrs.	100.00		
	b c	1Cx10sqmm cu flexible wire in pvc pipe 1Cx6sqmm cu flexible wire in pvc pipe	Mtrs. Mtrs.	100.00		
	c	1Cx 4sqmm cu flexible wire in pvc pipe	Mtrs.			
	d	S & L of 25 X 3mm <b>Cu.flat Strip</b> ( for DG netural ) scope including suitable insulation sleve tape, jointing/ welding labour materials completely as per IS standars	Mtrs.			
	е	S & L of 25 X 3 mm <b>GI.flat Strip</b> ( for DG body earthing ) scope including suitable insulation tape, jointing/ welding labour materials completely as per IS standars	Mtrs.			
	f	S & L of 12 SWG GI Earth wire scope including required clamping on the walls end terminations with suitable lugs scope including all materials labour completely	Mtrs.	100.00		
	g	Supply and fixing of <b>copper earthing bus bars 25x6 mm</b> <b>th 300 long</b> with suitable 6mm/ 8mm/ 10mm dia 8 to 10 nos holes as per site requirement mounting pvc / porcelien insulators fixing on wall near to main DB as is standards and EIC Instructions	Nos.	2.00		
	h	Supply and fixing of <b>G.I earthing bus bars 25x6 mm th</b> <b>300 long</b> with suitable 6mm/ 8mm/ 10mm 8 to 10 nos holes as per site requirement mounting pvc / porcelien insulators fixing on wall near to main DB as is standards and EIC Instructions	Nos.			

		Description of work -Electrical works	Unit	Boq Qty	Rates	Amount
8		Supplying & fixing of L.T. CONTROL PANEL				
		Supplying, fixing, testing and commissioning of indoor				
		type L.T control panel having fabricated from 2mm thick				
		CRCA cold rolled sheet steel & having 3mm. Frame from				
Α		CRCA sheet, complete with seven tank process painted	set.			
		with 2 coats of red oxide one coat of smoke grey /				
		approved color paint as per IS Standards (3000 -				
		4000sq.ft offices)				
a	a	4 nos. of 160 Amps. Electrolytic copper bus bar.				
t	b	0 to 500 volts square type volt meter with rotary selector				
	_	switch2set.				
(	С	0 to 200 amps square type Amps meter having 3nos				
		of 200 amps /5amps C.T operating coils and rotary				
		selector switch2sets. 6 nos of neon indicating bulbs indicate 3 diff. phases with				
c	d	potential fuses2sets.				
		•				
		Panel to be mounted with 3"x3"x1 1/2" M.S 'C' channel with				
		hold fast, Anchor fastner nuts & bolts, washer etc.				
	+	INCOMING				
-	a	200 Amps. MCCB1 NOS for incoming supply				
		32/ 63 Amps. TPN MCB with a neutral link				
E	a	Nos.				
		1 no for Power & Lighting DB				
		1 no for UPS				
		1 no for AC DB				
		1 no spare				
F	b	63 / 100 Amps. TPN MCB and a neutral link for APFC				
<b>^</b>		PANEL4/6 Nos.				
в		Supply and fixing of L.T PANEL (for 2000 SFT & 3000	set.			
		SFT offices)		1.00		
	_					
6	a	125 Amps. MCCB1 NOS for incoming supply				
	_	OUTGOING 32/ 63 Amps. TPN MCB with a neutral link4				
a	a	Nos.				
		1 no for Power & Lighting DB				
		1 no for UPS				
		1 no for AC DB				
		1 no spare				
F	b	32/63 Amps. TPN MCB and a neutral link for APFC				
<b>^</b>		PANEL2/3 Nos.				
С		Supply and fixing of L.T PANEL (for 1500 SFT & 2000	set.			
		SFT offices)				
6	a	100 Amps. MCCB1 NOS for incoming supply				
	+	OUTGOING 32/ 63 Amps. TPN MCB with a neutral link4				
a	a	Nos.				
	+	1 no for Power & Lighting DB				
		1 no for UPS				
		1 no for AC DB				
		1 no spare				
ŀ	b	32/ 63 Amps. TPN MCB and a neutral link for APFC				
K	-	PANEL2/3 Nos.				
		Supply, fixing, testing and commissioning of Automatic				
		Power factor Improvement Panel (APFC) with below				
		capacitors to be placed in main power panel on available				
9		compartment ( if provision not available in main panel				
		extra cost will pay as per site specific condition ),cosists of				
		contactors, contorll wiring, required fues as per EIC				
		Instructions and as per IS standards				
5	a	45KVAR	Set			
	b	25KVAR	Set			
	C	15KVAR	Set	1.00		
	d	10KVAR	Set			
		5KVAR	Set			

9a   Supply, fixing, testing and commissioning of Automatic Power factor improvement Panel (APFC) with below capacitors to be in new panel, cosists of APFC meter contactors, controll wiring, required fues as per EIC Instructions and as per IS standards     a   45KVAR   Set     b   25KVAR   Set     c   15KVAR   Set     d   10KVAR   Set     supply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / ceiling with required hanging system like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions     a   25 mm Dia. Pipes.   Mtrs.     b   32 mm Dia. Pipes.   Mtrs.     supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor fuct haking data cables, stabilized/inon- stabilized supply cables.   Nos.     a   12* x12* x 40mm deep   Nos.     d   6*x6* x40mm deep   Nos.     d   6*x6* x40mm deep   Nos.     d   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.     b   14 C x 25 Sq. mm Cu. Unarmoured Cable   Mtrs.     c   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 25 Sq. mm Cu. Unarmoured Cable   Mtrs.     d	
9a   capacitors to be in new panel, cosists of, APFC meter contactors, controll wiring, required fues as per EIC Instructions and as per IS standards     a   45KVAR     b   25KVAR     c   15KVAR     d   10     supply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / ceiling with required hanging system like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions     a   25 mm Dia. Pipes.     Mtrs.   50.00     b   32 mm Dia. Pipes.     Mtrs.   50.00     b   32 mm Dia. Pipes.     Mtrs.   50.00     b   32 mm Dia. Pipes.     Mtrs.   50.00     supply & fing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/inon-stabilized supply cables.     a   12* x12* x 40mm deep   Nos.     c   8* %8* x 40mm deep   Nos     c   8* %8* x 40mm deep   Nos     d   6* %7* 40mm deep   Nos     d   6* %8* x 40mm deep   Nos     d   6* %8* mc Lu. Unarmoured Cable   Mtrs.     LIGHTING & AC, D. B.copper PVC insulated	
contactors, controll wiring, required fues as per EIC Instructions and as per IS standards   image: standards     a   45KVAR   Set     b   25KVAR   Set     c   15KVAR   Set     d   10KVAR   Set     e   5KVAR   Set     e   5KVAR   Set     e   5KVAR   Set     a   25 mm Dia. Pipes   Mtrs.     yolice CABLES, as per is standards and EIC instructions   Mtrs.   50.00     a   25 mm Dia. Pipes   Mtrs.   50.00     b   32 mm Dia. Pipes   Mtrs.   50.00     supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STELC.cover; recessed in flor for taking data cables, stabilized/non- stabilized supply cables.   15.00     a   12" x12" x40mm deep   Nos   15.00     b   16" x16" x 40mm deep   Nos   15.00     c   8'x8" x 40mm deep   Nos   15.00     c   8'x8" x 40mm deep   Nos   15.00     c   8'x6" x 40mm deep   Nos   15.00     d   4 C x 25 Sq, mm Cu. Unarmoured Cable   Mtrs.	
a   1nstructions and as per IS standards     a   45KVAR   Set     b   25KVAR   Set     c   15KVAR   Set     d   10KVAR   Set     supply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / ceiling with required hanging sysytem like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions     a   25 mm Dia. Pipes   Mtrs.   350.00     b   32 mm Dia. Pipes   Mtrs.   50.00     supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S STEL cover; recessed in floor for taking data cables, stabilized/non-stabilized supply cables.   Mtrs.   50.00     a   12" X12" x 40mm deep   Nos.   15.00     b   16" x16" x 40mm deep   Nos.   15.00     c   8"x8" x 40mm deep   Nos.   16     c   8"x8" x 40mm deep   Nos.   16     c   8"x8" mm cu. Unarmoured. Cable   Mtrs.   50.00     c   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.   50.00     c   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 25 Sq. mm Cu. Unarmoured Ca	
a   45KVAR   Set     b   25KVAR   Set     c   15KVAR   Set     d   10KVAR   Set     supply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / celling with the exercises in floor below the tiles / celling with the exercises of the set   Set     a   25 mm Dia. Pipes   Mtrs.   350.00     b   32 mm Dia. Pipes   Mtrs.   50.00     b   10" refarguiar cuotus on 4 sides with 16 S S.STEEL cover; recessed in floor for taking data cables, stabilized/non-stabilized supply cables.   15.00     c   8"x8" x 40mm deep   Nos.   15.00     c   8"x8" x 40mm deep   Nos   15.00     c   8"x 40mm deep   Nos   15.00     c   8"x 40mm deep   Nos   15.00     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.   5.00     c   4 C x 16 Sq. mm	
b 25KVAR Set   c 15KVAR Set   d 10KVAR Set   e 5KVAR Set   e 5KVAR Set   a supply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / ceiling with required hanging system like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions   a 25 mm Dia. Pipes Mtrs.   b 32 mm Dia. Pipes Mtrs.   supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/non- stabilized supply cables. 10   a 12" x12" x 40mm deep Nos.   b 16" x16" x40mm deep Nos.   c 8"x8" x 40mm deep Nos   d 6"x8" x 40mm deep Nos   c 8"x8" x 40mm deep Nos   d 6"x6"x 40mm deep Nos   c 8"x8" x 40mm deep Nos   d 6"x6"x 40mm deep Nos   c 8"x8" x 40mm deep Nos   c 8"x8" x 40mm deep Nos   d 6"x6"x 40mm deep Nos   f UGHTING & AC, D.B. copper PVC insulated un-armoured   cABLES including testing & commissioning of following size to be laid partly con	
c   15KVAR   Set     d   10KVAR   Set     e   3upply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / ceiling with required hanging sysytem like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions     a   25 mm Dia. Pipes.   Mtrs.   350.00     b   32 mm Dia. Pipes.   Mtrs.   50.00     supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/inon-stabilized supply cables.   Nos.   15.00     a   12" x12" x40mm deep   Nos.   15.00     b   16" x16" x40mm deep   Nos.   15.00     c   8"x6" x40mm deep   Nos.   15.00     d   6" x6"x 40mm deep   Nos.   15.00     c   8"x6" x40mm deep   Nos.   15.00     d   6" x6"x 40mm deep   Nos.   15.00     c   8upply & laying of power cable from L.T. PANEL to LIGHTING & AC, D.B.copper PVC insulated un-armoured Cable   Mtrs.     ft   8upply on all as per IS standards   15.00   15.00     a   4 C x 15 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     <	
d 10KVAR Set   e 5KVAR Set   10 supply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / ceiling with required hanging sysytem like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions   a 25 mm Dia. Pipes. Mtrs.   a 25 mm Dia. Pipes Mtrs.   a 25 mm Dia. Pipes Mtrs.   in precision of the other the tiles / ceiling with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in foor for taking data cables, stabilized/non-stabilized supply cables. Nos.   a 12" x12" x 40mm deep Nos.   c 8"x8" x 40mm deep Nos.   d 6"x6"x 40mm deep Nos.   d 6.2.2.5.3. Standards   a 4 C x 25 Sq. mm Cu. Unarmoured. Cable Mtrs.   d 4 C x 16 Sq. mm Cu. Unarmoured Cable Mtrs.   d 4 C x 16 Sq. mm Cu. Unarmoured Cable Mtrs.   d 4 C x 16 Sq. mm Cu. Unarmoured Cable Mtrs.	
e 5KVAR Set   10 supply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / ceiling with required hanging sysytem like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions Mtrs. 350.00   a 25 mm Dia. Pipes. Mtrs. 350.00   b 32 mm Dia. Pipes. Mtrs. 50.00   supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/non- stabilized supply cables. Nos. 15.00   a 12" x12" x 40mm deep Nos. 15.00   b 16" x16" x 40mm deep Nos.   c 8"x8" x 40mm deep Nos   d 6"x6"x 40mm deep Nos   d 6"x6"x 40mm deep Nos   flag 10" supply & laying of power cable from L.T. PANEL to LIGHTING & AC, D.B.copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards   a 4 C x 25 Sq. mm Cu. Unarmoured Cable Mtrs.   b 4 C x 16 Sq. mm Cu. Unarmoured Cable Mtrs.   f Termination of cables- PVC insulated armoured Aluminium /Copper conductor cables by using Flange type upto 50sq.mm size and Siemens type brass cable gland with appropriate size of Dowell's make copper crimping type lugs (set means RYBN) <t< th=""><th></th></t<>	
10   supply & laying of rigid 2mm thick PVC conduits along with accessories in floor below the tiles / ceiling with required hanging sysytem like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions     a   25 mm Dia. Pipes.   Mtrs.   350.00     b   32 mm Dia. Pipes.   Mtrs.   50.00     11   supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S STEEL cover; recessed in floor for taking data cables, stabilized/non-stabilized supply cables.   Mtrs.   50.00     a   12" x12" x 40mm deep   Nos.   15.00     b   16" x16" x 40mm deep   Nos.   15.00     c   8"x8" x 40mm deep   Nos   16" x16" x 40mm deep   Nos     c   8"x8" x 40mm deep   Nos   16" x16" x 40mm deep   Nos     12   Supply & laying of power cable from L.T. PANEL to LIGHTING & AC, D.B.copper PVC insulated un-armoured   Mtrs.   5.00     c   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.   5.00   16" x 4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     12   CABLES including testing & commissioning size to be laid partly concealed after envaling the floor/ earth and partly on wall as per IS standards   4   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     13   a	
10   with accessories in floor below the tiles / ceiling with required hanging sysytem like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions     a   25 mm Dia. Pipes.   Mtrs.   350.00     b   32 mm Dia. Pipes.   Mtrs.   50.00     supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/non-stabilized supply cables.   Nos.   15.00     a   12" x12" x 40mm deep   Nos.   15.00     b   16" x16" x 40mm deep   Nos.   15.00     c   8"x8" x 40mm deep   Nos   15.00     d   6"x6"x 40mm deep   Nos   16" x16" x 40mm deep   Nos     12   Supply & laying of power cable from L.T. PANEL to LIGHTING & AC, D.B. copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards   4   C x 25 Sq. mm Cu. Unarmoured Cable   Mtrs.   5.00     d   4 C x 25 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00   4   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     13   a 4 C x 25 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00   4   2.00   4 <t< th=""><td></td></t<>	
10   required hanging sysytem like H-type clamps for DATA & VOICE CABLES, as per is standards and EIC instructions     a   25 mm Dia. Pipes.   Mtrs.   350.00     b   32 mm Dia. Pipes   Mtrs.   50.00     supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover. recessed in floor for taking data cables, stabilized/non-stabilized supply cables.   11     a   12" x12" x40mm deep   Nos.   15.00     b   16" x16" x40mm deep   Nos.   15.00     c   8"x 40mm deep   Nos.   15.00     d   6"x6" x40mm deep   Nos.   16" x16" x40mm deep     12   Supply & laying of power cable from L.T. PANEL to LIGHTING & AC, D.B.copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards   4   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.     12   CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards   4   C x 15 Sq. mm Cu. Unarmoured Cable   Mtrs.   5.00     13   a   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.   5.00   4   4 C x 16 Sq. mm Cu. Unarmoured Cable   set	
VOICE CABLES, as per is standards and EIC instructions     a   25 mm Dia. Pipes.   Mtrs.   350.00     b   32 mm Dia. Pipes   Mtrs.   50.00     a   25 mm Dia. Pipes   Mtrs.   50.00     a   21 mm Dia. Pipes   Mtrs.   50.00     a   Supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/non- stabilized supply cables.   Nos.   15.00     a   12" x12" x 40mm deep   Nos.   15.00     b   16" x16" x40mm deep   Nos.   16     c   8"x8" x40mm deep   Nos   16     d   6"x6"x 40mm deep   Nos   17     etal bait party concealed after exvating the floor/ earth and party on wall as per IS standards   18     a   4 C x 25 Sq. mm Cu. Unarmoured Cable   Mtrs.   5.00     c   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 25 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00 <th></th>	
a   25 mm Dia. Pipes.   Mtrs.   350.00     b   32 mm Dia. Pipes   Mtrs.   50.00     supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/non- stabilized supply cables.   Nos.     a   12" x12" x40mm deep   Nos.   15.00     b   16" x16" x40mm deep   Nos.   16     c   8"x8" x40mm deep   Nos.   16     d   6"x6" x40mm deep   Nos.   16     file   Supply & faying of power cable from L.T. PANEL to LIGHTING & AC, D.B. copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards   15.00     a   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.   5.00     c   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 16 Sq. mm Cu. Unarmoured Cable	
b   32 mm Dia. Pipes   Mtrs.   50.00     11   supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/non- stabilized supply cables.   Nos.     a   12" x12" x 40mm deep   Nos.     b   16" x16" x 40mm deep   Nos.     c   8"x8" x 40mm deep   Nos.     d   6"x6"x 40mm deep   Nos.     d   6"x6"x 40mm deep   Nos.     LIGHTING & AC, D.B. copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards   Mtrs.     a   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.   5.00     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 26 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.   15.00     d <t< th=""><td></td></t<>	
11   supply & fixing of M.S. junction boxes of 14 swg with rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/non-stabilized supply cables.     a   12" x12" x 40mm deep   Nos.     b   16" x16" x40mm deep   Nos.     c   8"x8" x 40mm deep   Nos.     d   6"x6" x40mm deep   Nos.     c   8"x8" x 40mm deep   Nos.     d   6"x6" x40mm deep   Nos.     12   Supply & laying of power cable from L.T. PANEL to LIGHTING & AC, D.B.copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards     a   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.     b   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   set     d   4 C x 25 Sq. mm Cu. Unarmoured Cable   set     a   4 C x 16 sq. mm Cu. Unarmoured Cable	
11   rectangular cutouts on 4 sides with 16 G S.STEEL cover; recessed in floor for taking data cables, stabilized/non- stabilized supply cables.   Image: Stabilized Stabilized/non- stabilized supply cables.     a   12" x12" x 40mm deep   Nos.     b   16" x16" x 40mm deep   Nos.     c   8"x8" x 40mm deep   Nos     d   6"x6"x 40mm deep   Nos     c   8"x8" x 40mm deep   Nos     d   6"x6"x 40mm deep   Nos     c   Supply & laying of power cable from L.T. PANEL to LIGHTING & AC, D. B.copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards     a   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.     b   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     c   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     13   Termination of cables- PVC insulated armoured vith appropriate size of Dowell's make copper crimping   2.00     b   4 C x 16 sq. mm Cu. Unarmoured Cable   set     c   4 C x 16 sq. mm Cu. Unarmoured Cable   set     d   4 C x 16 sq. mm Cu. Unarmoured Cable   set	
11   recessed in floor for taking data cables, stabilized/non-stabilized supply cables.     a   12" x12" x 40mm deep   Nos.     b   16" x16" x 40mm deep   Nos.     c   8"x8" x 40mm deep   Nos.     d   6"x6"x 40mm deep   Nos.     d   6"x6"x 40mm deep   Nos.     c   8"x8" x 40mm deep   Nos.     d   6"x6"x 40mm deep   Nos.     fd   6"x6"x 40mm deep   Nos.     c   8upply & laying of power cable from L.T. PANEL to LIGHTING & AC, D.B.copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards     a   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.     b   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 16 sq. mm Cu.Unarmoured Cable   Mtrs.     13   upto 50sq.mm size and Siemens type brass cable gland with appropriate size of Dowell's make copper crimping type lugs.(set means RYBN)   set     a   4 C x 16 sq. mm Cu.Unarmoured Cable   set   9.00     d   4 C x 25 sq. mm Cu.Unarmoured Cable   set <td< th=""><th></th></td<>	
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12   LIGHTING & AC, D.B.copper PVC insulated un-armoured CABLES including testing & commissioning of following size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards     a   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.     b   4 C x 16 Sq. mm Cu. Unarmoured. Cable   Mtrs.     c   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     Aluminium /Copper conductor cables by using Flange type upto 50sq.mm size and Siemens type brass cable gland with appropriate size of Dowell's make copper crimping type lugs.(set means RYBN)   set     a   4 C x 16 sq. mm Cu. Unarmoured Cable   set     c   4 C x 16 sq. mm Cu. Unarmoured Cable   set     d   4 C x 16 sq. mm Cu. Unarmoured Cable   set     c   4 C x 10 sq. mm Cu. Unarmoured Cable   set     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set     c   4 C x 16 sq. mm Cu. Unarmoured Cable   set     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set     d </th <th></th>	
size to be laid partly concealed after exvating the floor/ earth and partly on wall as per IS standards   Image: Standards     a   4 C x 25 Sq. mm Cu. Unarmoured. Cable   Mtrs.     b   4 C x 16 Sq. mm Cu. Unarmoured Cable   Mtrs.     c   4 C x 10 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     13   Upto 50sq.mm size and Siemens type brass cable gland with appropriate size of Dowell's make copper crimping type lugs.(set means RYBN)   Image: Standards     a   4 C x 16 sq. mm Cu. Unarmoured Cable   set   2.00     b   4 C x 25 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set   9.0	
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d   4 C x 6 Sq. mm Cu. Unarmoured Cable   Mtrs.     13   Termination of cables- PVC insulated armoured Aluminium /Copper conductor cables by using Flange type upto 50sq.mm size and Siemens type brass cable gland with appropriate size of Dowell's make copper crimping type lugs.(set means RYBN)   Image: Comparison of Cables Set	
13Termination of cables- PVC insulated armoured Aluminium /Copper conductor cables by using Flange type upto 50sq.mm size and Siemens type brass cable gland with appropriate size of Dowell's make copper crimping type lugs.(set means RYBN)Image: Comparison of Cables of Dowell's make copper crimping set of Dowell's make copper crimping type lugs.(set means RYBN)a4 C x 16 sq. mm Cu.Unarmoured Cablesetb4 C x 25 sq. mm Cu. Unarmoured Cablesetc4 C x 10 sq. mm Cu. Unarmoured Cablesetd4 C x 6 sq. mm Cu. Unarmoured Cablesetd4 C x 6 sq. mm Cu. Unarmoured Cableset14Sypply & fixing of VERTICAL D.B.aA-WAY V-TPN D.B. 63 Amp. TPN MCCB- INCOMER 4 INPUT) (8+12) (Note ; using as distribution / main panel)Nos.6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/Nos.	
13   Aluminium /Copper conductor cables by using Flange type upto 50sq.mm size and Siemens type brass cable gland with appropriate size of Dowell's make copper crimping type lugs.(set means RYBN)   Image: Comparison of Compar	
13   upto 50sq.mm size and Siemens type brass cable gland with appropriate size of Dowell's make copper crimping type lugs.(set means RYBN)     a   4 C x 16 sq. mm Cu.Unarmoured Cable   set     b   4 C x 25 sq. mm Cu. Unarmoured Cable   set     c   4 C x 10 sq. mm Cu. Unarmoured Cable   set     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set     d   4 C x 6 sq. mm Cu.Unarmoured Cable   set     14   Sypply & fixing of VERTICAL D.B.   set     14   Sypply & fixing of VERTICAL D.B.   Nos.     a   A-WAY V-TPN D.B. 63 Amp. TPN MCCB- INCOMER 4 INPUT) (8+12) (Note ; using as distribution / main panel)   Nos.     6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/   Nos.	
with appropriate size of Dowell's make copper crimping type lugs.(set means RYBN)	
a   type lugs.(set means RYBN)   set   2.00     b   4 C x 16 sq. mm Cu.Unarmoured Cable   set   2.00     c   4 C x 25 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu. Unarmoured Cable   set   9.00     d   4 C x 6 sq. mm Cu.Unarmoured Cable   set   9.00     14   Sypply & fixing of VERTICAL D.B.   4.00   4.00     14   Sypply & fixing of VERTICAL D.B.   100   100     a   A-WAY V-TPN D.B. 63 Amp. TPN MCCB- INCOMER 4   Nos.   Nos.     INPUT) (8+12) (Note ; using as distribution / main panel)   Nos.   100     6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/   100   100	
a4 C x 16 sq. mm Cu.Unarmoured Cableset2.00b4 C x 25 sq. mm Cu. Unarmoured Cablesetc4 C x 10 sq. mm Cu. Unarmoured Cableset9.00d4 C x 6 sq. mm Cu.Unarmoured Cableset14Sypply & fixing of VERTICAL D.B.14Sypply & fixing of VERTICAL D.B.aA-WAY V-TPN D.B. 63 Amp. TPN MCCB- INCOMER 4 INPUT) (8+12) (Note ; using as distribution / main panel)Nos.6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/	
b   4 C x 25 sq. mm Cu. Unarmoured Cable   set	
d   4 C x 6 sq. mm Cu.Unarmoured Cable   set     14   Sypply & fixing of VERTICAL D.B.      14   Sypply & fixing of VERTICAL D.B.      a   4-WAY V-TPN D.B. 63 Amp. TPN MCCB- INCOMER 4 Nos. 32/ 40/ 63 Amp. MCB ( for UPS, LIGHTING, AC DB INPUT) ( 8+12) (Note ; using as distribution / main panel)   Nos.     6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/	
14   Sypply & fixing of VERTICAL D.B.     a   4-WAY V-TPN D.B. 63 Amp. TPN MCCB- INCOMER 4 Nos. 32/ 40/ 63 Amp. MCB (for UPS, LIGHTING, AC DB INPUT) (8+12) (Note ; using as distribution / main panel)   Nos.     6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/   6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/	
a	
a   Nos. 32/ 40/ 63 Amp. MCB ( for UPS, LIGHTING, AC DB INPUT) ( 8+12) (Note ; using as distribution / main panel)   Nos.     6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/   6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/	
a INPUT) (8+12) (Note ; using as distribution / main panel) INOS.   6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/	
panel)   6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/	
6-WAY V-TPN D.B. 63 TPN MCCB- INCOMER 6 Nos. 32/	
$\mathbf{v}$ = $\mathbf{v}$ vo $\mathbf{A}$ in $\mathbf{v}$ . Note (not of $\mathbf{v}$ , Eigenting, $\mathbf{A}\mathbf{v}$ DD in $\mathbf{v}$ ( $\mathbf{v}$ ) = NOS.	
(8+24) (Note ; using as distribution / main panel)	
8-WAY V-TPN D.B. 100 Amp. TPN MCCB- INCOMER 8	
Nos. 32/ 40/ 63 Amp. MCB ( for UPS, LIGHTING, AC DB	
INPUT) 24 Nos 10/20/30/40 AMPS, S.P. MCB (8+24)	
(Note ; using as distribution / main panel)	
Supply & fixing of Horizontal D.B	
4 WAY TPN D.B. 40 Amp. TPN MCB- INCOMER 4 Nos.	
15 a 32/40/Amp. MCB (UPS, LIGHTING, AC, Raw power Nos.	
points ) OR 12 Nos 10/20/30/40 AMPS. S.P. MCB (8	
+12)	
6 WAY 63 TPN MCB- INCOMER 5 Nos. 32/ 40/ 63 Amp.	
b MCB ( UPS, LIGHTING, AC DB INPUT) 12 Nos Nos. 10/20/30/40 AMPS, S.P. MCB ( 8 +18) 3.00	
10/20/30/40     AMPS. S.P. MCB (8 +18)     3.00       8     WAY 63 TPN MCB- INCOMER 6 Nos. 32/ 40 Amp.     3.00	
c MCCB ( for UPS, LIGHTING, AC DB INPUT) 24 Nos Nos.	
10/20/30/40 AMPS. S.P. MCB ( 8 +24)	

S No		Description of work -Electrical works	Unit	Boq Qty	Rates	Amount
		Supply & laying of Raw power wiring Power circuit				
		wiring in rigid 3/4" (20mm) PVC conduit pipe to be laid				
		Partly in open execution above false ceiling & partly				
15.1		concealed in wall with 2 x 4 sq.mm and 1x 2.5 sq.mm.	Mtrs.			
		PVC insulated copper conductor wire ISI make 1100 V				
		grade to be used as earthing from distribution board to				
		various power plugs,		300.00		
		supply & fixing of 20 / 32 Amps 3 pin and earth ray roll				
16		plug and socket with 1 No. 20/ 32 Amps. S.P. circuit	Nos.			
		breaker enclosed in M.S.Box for 1 TR. /1.5 Tr. A.C. unit		15.00		
		supply & fixing of 40 Amps 3 pin and earth ray roll plug				
16a		and socket with 1 No. 40 Amps. S.P. circuit breaker	Nos.			
		enclosed in M.S.Box for 2 TR. A.C. unit				
		Supply & laying of CABLES PVC insulated armoured				
		copper conductor cable with 1 Nos. of 12 SWG earthing				
17		with its accessories such as M.S. spacers, saddles,				
		screws, etc. from L.T. control panel to respective 3				
		PHASE Acs, from earth pits to Earthings, Glow boards as				
		per site specific condition and IS Standards				
	а	4 C x 4 Sq. mm Cu. Ar. Cable	Mtrs.			
	b	4 C x 6 Sq. mm Cu. Ar. Cable	Mtrs.			
	c	4 C x 10 Sq. mm Cu. Ar. Cable	Mtrs.			
	d	2 C x 2.5 Sq. mm Cu. Ar. Cable	Mtrs.			
	е	2 C x 4 Sq. mm Cu. Ar. Cable	Mtrs.			
	f	2 C x 6 Sq. mm Cu. Ar. Cable	Mtrs.	75.00		
	g	2 C x 10Sq. mm Cu. Ar. Cable	Mtrs.			
	Ū	Termination of above mentioned PVC insulated				
		armoured copper conductor cable by using Siemens type				
18		brass cable gland and Dowell'smake crimping type lugs.				
		(set means RYBN for 3 phase) Face & neutral for single				
		phase				
	a.	4 C x 4 Sq. mm Cu. Ar. Cable	set			
	b.	4 C x 6 Sq. mm Cu. Ar. Cable	set			
	С	4 C x 10 Sq. mm Cu. Ar. Cable	Set			
	d	2 C x 2.5 Sq. mm Cu. Ar. Cable	set			
	е	2 C x 4 Sq. mm Cu. Ar. Cable	set			
	f	2 C x 6 Sq. mm Cu. Ar. Cable	set			
	g	2 C x 10Sq. mm Cu. Ar. Cable	set			
	Ū	· · · · · · · · · · · · · · · · · · ·				
19		Supply & fixing of <b>4pole MCB in M.S. concealed box</b> to				
		be mounted near A.C. control panel. As per IS standards				
	_	40 Ampo / 2Tr 8 / Tr 2 Dhans ACs 8 2 share UDC	Nee			
	a.	40 Amps. (3Tr & 4 Tr 3 Phase ACs & 3 phase UPS)	Nos			
	h	63 / 80 Amps / 55 Tr 8 85 TD ACC 8 2 Dhace LIDE)	Nos			
	b.	63 / 80 Amps. (5.5 Tr &, 8.5 TR ACS & 3 Phase UPS)	NUS	1.00		
		32 Amps. 2 ploe DP MCBs in M.S Conceiled box (				
	с	signle phase UPS ) scope including all materials and	Nos			
		labour completely as per standards				
		40-Amps. 2 ploe DP MCBs in M.S Conceiled box (				
	d	signle phase UPS ) scope including all materials and	Nos			
		labour completely as per standards		1.00		
		63-Amps. 2 ploe DP MCBs in M.S Conceiled box (				
	е	signle phase UPS ) scope including all materials and	Nos			
		labour completely as per standards				
		Lighting and Raw power circuit wiring				
		Supply & laying of Raw power CIRCUIT wiring with 2 x				
		2.5 sq.mm PVC insulated copper conductor wire ISI				
		make 660 V to 1100V grade, <b>1x1.5 sq.mm No. green</b>				
_		wire is to be used as earthing from respective Lighting &	_			
20		power D.B. to various switch boards in 3/4" (20mm) rigid	Mtrs.			
		PVC conduit pipes to be laid partly open execution above				
		false ceiling and partly concealed in wall or partition as IS		250.00		
		standard		250.00		

S No		Description of work -Electrical works	Unit	Boq Qty	Rates	Amount
21		supply & laying of <b>Lighting circuit wiring</b> with <b>3 x 1.5</b> <b>sq.mm.</b> 650V. To 1100V. grade PVC insulated copper conductor wire, third wire is to be used as earthing, from Lighting DB to primary Light point in 3/4" (20 mm) rigid PVC 'conduit pipe adequate size of M.S. concealed board, holder/ceiling rose etc. as per IS standards	Mtrs.	125.00		
22		supply & laying of Lighting circuit wiring with 3 x 1.5 sq.mm. 650V. To 1100V. grade PVC insulated copper conductor wire, third wire is to be used as earthing, from Lighting DB to switch board in 3/4" ( 20 mm ) rigid PVC 'conduit pipe ( utlising only for meeting rooms, training room, close cabins , toilets electrical, server room and indvidual closed rooms as per IS standards				
	a.	1-light- control by 1 no. 5A. x 1 way switch.	Nos.			
	b c	2- lights- control by 1 no. 5A. x 1 way switch. 3-lights- control by 1 no. 5A. x 1 way switch.	Nos. Nos.			
	d	4 lights- control by 1 no. 5A. x 1 way switch.	Nos.			
	e f	5-lights- control by 1 no. 5A. x 1 way switch. 6-lights- control by 1 no. 5A. x 1 way switch. Primary point ( directly from MCB to 1st light ( UP to 9 mts length) if lengh more than 9 mts consderied in lighting	Nos. Nos.	40.00		
		circuit wiring) Secondary point (1st light point to other series light		40.00		
	h	points in same circuit )	Nos.	60.00		
23		supply & fixing of M.S concealed box and <b>5Amps 1 way</b> <b>switch</b> and <b>5Amps x 3 pin socket</b> for exhaust / fan point inclusive of switch on switch board and socket. (lighting wiring calculated in lighting circuit wiring item no 21)	Nos.	6.00		
24		supply & fixing of 5Amp SOCKET ON SWITCH BOARD 5A x 3 pin plug switch combination with G.I. concealed box for lighting separate plugs (Note: wiring is included in Lighting circuit wiring includes in item No.21)	Nos.			
25		supply & fixing of 5/15 AMP. RAW POWER SOCKET on work station 15amps. X 5pin switch socket combine with box For Hub, Server, Printer, Fax.	Nos.	16.00		
26		Supply & fixing of sigle phase / 3 phase UPS D.B. enclosed in sheet steel enclosure duly painted.				
	~	4 way S.P.N DB consists (2-Nos 6amps of SP MCBs	<b>D</b> 00			
	а.	Controlled by 16 amps DP)	nos			
	b	6-way S.P.N DB consists ( 4-nos 6amps SP MCBs and 20 amps DP)	nos			
	с	8 way S.P.N DB consists (6-nos 6amps SP MCBs and controlled by 32 amps DP)	nos			
	d	12 way S.P.N DB consists (10 nos-6amps SP MCBs and controlled by 43 amps DP )	nos	1.00		
	е	4 ways TPN DB 1 No of 40 Amps copper busbar 1No. 40 Amps. 4 pole Isolator 12 Nos 6 to 10 AMPS. S.P. MCB	nos			
	f	6 ways TPN DB 1 No of 63 Amps copper busbar 1No. 63 Amps. 4 pole Isolator 18 Nos 6 to 10 AMPS. S.P. MCB	nos			
	g	supply & fixing of M.S concealed box along with USB Power socket 1000mAh as per IS standard specifications of Roma product code of 20460 / equivalent preapproved make and model fixing on the table (lighting wiring calculated in lighting circuit wiring item no 21)	Nos			
27		supply & laying of COMPUTER CIRCUIT wiring in laid rigid PVC conduit pipes with <b>3C x 2.5 sq.mm</b> PVC insulated copper WIRE ISI make 660 V to 1100V grade wire from UPS D.B. provided in UPS room to various computer receptacles.	Mtrs.	300.00		
28		Supply & fixing of UPS PLUG SOCKETS		555.00		

S No		Description of work -Electrical works	Unit	Boq Qty	Rates	Amount
		Receptacles comprising of 1No. 5amps. Switch with 2				
	a.	Nos 5amps.3pin socket with mounting box for computer nodes near work stations	nos	40.00		
		Fixing of Lan (Data) socket provided by computer network				
29	a.	contractor & M.S. concealed box to be provided by	Nos.			
		Electrical contractor.		10.00		
		Supply & fixing of Light fittings				
		supply & fixing of following light fittings complete with				
30		suitable connectors and suitable hanging system chain or approved hanging sytem as IS Standards / EIC				
		instructions in celling / wall as per site specific condition				
	a.	1x 36W / 40 LED Panel / Dark / optic model lamp (2'x2')	Nos.			
		approved make ( poly cab/ osoram/ philips/ Bajaj/ Orient.)		35.00		
		1x15 W LED Celing / surface mounted down light fitting,				
	b	9" dia / 1'0"x1;0" square) approved make ( poly cab/	Nos.	44.00		
		osoram/ philips/ Bajaj/ Orient		44.00		
	с	1x12 W LED Celing / surface mounted down light fitting,	Nos.			
		approved make ( poly cab/ osoram/ philips/ Bajaj/ Orient		30.00		
		1x9 W LED Celing / surface mounted down light fitting,				
	d	approved make ( poly cab/ osoram/ philips/ Bajaj/ Orient.	Nos.			
31		Supply & fixing of FANS				
		9" Sweep exhaust fan with louvers with mounting frame &				
	a.	interconnection, G.E.C./ Neutech/ Havells/ Compact	Nos.	1.00		
		Wall mounted Fan, 38mm. Sweep wall mounting		1.00		
	b	oscillating fan complete with other accessories, Crompton	Nos.			
		make.		2.00		
	С	S/f of pedestal fan	Nos.			
		FIRE ALARM SYSTEM WIRING : -				
		Supply & fixing of Fire Alarm Control Panel complete with				
		a) Zone control system with built in hooter.b) Fire / open / short test alarm and indicator of zones.C) 16 guage				
32		CRCA casing box complete with mounting brackets and				
		fixing accessories. Cost including 2 nos 7AH batteries / as				
		per OEM Standered				
	a.	2Zone FIRE ALARM PANEL	Nos	1.00		
	b.	4 Zone FIRE ALARM PANEL	Nos			
33		supply & fixing of SMOKE / HEAT DETECTOR Manual lonisation detector complete with detector				
		elements, local indicator with internal wiring terminated in				
		connector, fixing accessories for detector such as PVC				
		junction box etc.	NI	05.00		
		a) Dual chamber ionisation type Smoke Detector. b) Response Indicator.	Nos. Nos.	25.00 8.00		
		P / F HOOTERS complete with electronic sounder with	. 100.	0.00		
34		SPL - 90 DB and internal connection upto terminal	Nos.			
		connectors.		1.00		
		S / I of 2 x 1.5 sq,mm. PVC insulated armoured copper				
35		conductor cable with it's accessories such as M.S.	Mtrs.			
		Spacer, saddles etc from Main Fire Alarm Control Panel to Zone wise smoke detectors and hooter.				
36		S & I of Manual Call Point	Nos.	300.00 2.00		
			1105.	2.00		
37		S / I CABLES FOR PROJECTOR IN TRAINING ROOM				
		Supply and laying of 2-Core 21gauge AWG AV CABLE,	N <i>1+r</i>			
	a.	as per IS standards scope inlcuding all materials labour completely	Mtr.			
		supply and laying of RGBHV 5-Core 26 gaugeAwg				
	b.	VGA CABLE, as per IS standards , scope including all	Mtr.			
		materials labour completely				

S No		Description of work -Electrical works	Unit	Boq Qty	Rates	Amount
	С	2 C x 1.0 Sq.mm Copper flexible Cable, PVC insulaled shielded, PVC Sheathed layed in 20 mm PVC Medium Conduit with fittings & G.I Supports at 0.3mtr with Single compression Cable Glands, ABS Junction Boxes( wherever required ), terminals, Ferruling com UL/FM/Vds Approved	Mtr			
	d	Supplying and fixing of Projector stand as per site specific scope including all required material labour completely as per IS Standards	Nos	1.00		
	е	supply and laying of HDMI CABLE , as per IS standards , scope including all materials labour completely	Mtr	15.00		
	f	Supply and laying of 11 kv B class electrical mat of 2.5 mm th as per IEE standards (Stanadard Matt size of 1mx2m)	Sqm			
	g	Supply and fixing of HDMI & VGA , AV & VC Faceplate	Nos	1.00		
	h	Supply & fixing of 3+1 coaxial cable for CCTV, 1 RG 59 single core copper cable for video communication + 3C X 0.15 Sqmm mulstand copper cables for power supply as per IS standards	Rmt	200.00		
		TEMPORARY WIRING				
38		P / F of armoured cable for temporary connection, providing, Main swtich, ELCB, and given temporary electrical connection such as tubelight fittings, lighting pluigs, welding m/c to other agencies etc.	JOB	1.00		
		AS BUILT DRAWING				
39		Preparing as SLD (Single line diagram) built drawing on Auto Cad incorporating the changes made as per the instruction of Architect / Client with certified measurment sheet. (3 sets of Colour drawings, in PDF and auto cadd formats as per EIC instructions with VIDEO for Gel earthing instllation work and parameters )	JOB	1.00		
		LIASION CHARGES:-				
40		Liasion charges with Electric Supply Company enhencing of service line, connected load, existing energy meter to higher capacity and passing the electrical installation from electric supply co. authority. (If Required) provisional amount totally depend on site condition & location ( Costing depends on size of the branch )	JOB			
41		3 x 2.5 sqmm Flexible cable for Signages	Mtr			
42		150mm x 50mm pvc chasing patti	Mtr			
43		38 x 7 sqmm coexal cable	Mtr			
			Т	DTAL		

	DATA & VOICE FOR SNDTWU INCUBATION CEN		ACRUZ	WEST	
S No	Description of Work -Data & Voice works Data & Voice cabling	Boq Qty	Unit	Rates	Amount
А	Supply and fixing of data cabling scope including all materials				
1	Supply of AMP/ Delink/ Equivalent pre approved ISI make Cat - 5 UTP cable. As per IS standards		Mtrs.		
2	Supply of AMP /Delink/Equivalent pre approved ISI make Cat 5 & 6 Information outlet .	110.00	Nos.		
3	Supply of AMP/ Delink/ Equivalent pre approved ISI make Quad Face Plate		Nos.		
4	Supply of AMP/ Delink Equivalent pre approved ISI make Dual Face Plate	55.00	Nos.		
5	Supply of AMP/ Delink/ Equivalent pre approved ISI make Cat 5 Jack panel 24 Port	6.00	Nos.		
6	Supply of AMP/ Delink /Equivalent pre approved ISI make Cat 5 Mounting Cord 7 feet		Nos.		
7	Supply of AMP/ Delink/Equivalent pre approved ISI make Cat 5 Mounting Cord 4 feet		Nos.		
8	Supply of 12U wall mounting rack Delink /MTS / pre approved ISI make with accessories 800mm x 800mm. As per IS standards		Nos.		
9 10	Supply of 100 Pair Raiser Cable.as per IS standards Supply of 50 Pair Raiser Cable. As per IS Standards		Mtrs. Mtrs.		
11	Supply of 9U Wall mounting rack Delink / MTS / pre approved make with accessories 800mm x 800mm. As per IS standards		Nos.		
12	Supply of 36U Floor mounting rack Delink /MTS / pre approved ISI make with accessories 800mm x 800mm. As per IS standards	1.00	Nos.		
13	Supply of AMP/ Delink/ pre approved ISI make single Face Plate	10.00	Nos.		
14	Supply of 100 pair krone connector including suitable MS box as per pre approved ISI Make as per IS Standards		Nos.		
15	Supply of 50 pair krone connector including suitable MS box as per pre approved ISI Make as per IS Standards	1.00	Nos.		
16	Supply of AMP/ Delink/ Equivalent pre approved ISI make Cat - 6 UTP cable. As per IS standards	2,000.00	Mtrs.		
17	Supply of AMP/ Delink /Equivalent pre approved ISI make Cat 6 Mounting Cord 7 feet	55.00	Nos.		
18	Supply of AMP/ Delink/Equivalent pre approved ISI make Cat 6 Mounting Cord 4 feet	60.00	Nos.		
19	Supply of 4U Wall mounting rack Delink / MTS / pre approved make with accessories 800mm x 400mm. As per IS standards for CCTV DVR / Site specific condition		Nos.		
В 1	INSTALLATION Laying of CAT 5 UTP Cable. Scope including suitable standard peruling and dressing as per IS standards	2,000.00	Mtrs.		
2	Termination of Information Outlet.	110.00	Nos.		
3	Termination of 24 Port Jack Panel.	6.00			
4	Testing & Documentation of UTP Points.	110.00			
5	Laying of raiser Cable 100 Pair.		Mtrs.		
6	Installation of Rack, 9U/ 12U/ 36 U as per standards		Nos.		
7	Installation of Rack, 36 U as per standards	1.00			
8	Laying of raiser Cable 50 Pair.		Mtrs.		
9	Istallation and termination of 100 pair krone connector, as per pre approved ISI Make as per IS Standards		Nos.		
10	Installation and termination of 50 pair krone connector as per pre approved ISI Make as per IS Standards	1.00	Nos.		
		ΤΟΤΑ	L		

	CCTV & PA SYSTEM FOR SNDTWU INCUBATION CENTRE SANTACRUZ WEST								
Sr. no	Item Description	Qty	Unit	RATES	AMOUNT				
	CCTV								
	2MP IP Dome Camera, 1/2.8" Progressive scan CMOS, Support dual streams.								
1	Up to 30 meters IR range, H.265+ Compression, IR cut filter with auto switch, DC12V &PoE Model DS-2CD1323GOE-I	8.00	NOS						
2	POE switch 8 Port	1.00	NOS						
2		1.00	NOO						
4	8 CH NVR WITH 1 SATA INTERFACE max. incoming bandwidth: 80 Mbps, 1 interfaces, H.265, (up to 6TB of capacity HDD)	1.00	NOS						
5	RJ45 CONNECTROS	18.00	NOS						
6	Seagate / WD Surveillance Hard Disk 2 TB	1.00	NOS						
7	System Installation & Commissioning Charges for Camera & DVR	1.00	NOS						
	PA system								
1	6W CELLINGMOUNTS SPEAKERS (BOSCH MAKE)	15.00	NOS						
2	120W BOOSTER WITH MIXER AMPLIFIER (AHUJA MAKE)	1.00	NOS						
3	HAND HOLD MIC	1.00	NOS						
4	INSTALLTIONAND TESTING	1.00	NOS						
5	4core 1 sqmm flexible shielded cable	150.00	MTR						
	TOTAL								
1	4kg ABC type fire extinguisher	3.00	NOS						
	SUB TOTAL								