SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
1.0	**LT PANELS & DISTRIBUTION BOARDS**				
1.1	Design, Manufacture,Assembly,Supply, Installation Testing & Commissioning of Sheet steel fabricated panel,made out of 1.6mm thick sheet steel for partitions, doors,covers & 2mm sheet ste for framework, ACB doors, duly treated by 7 tank process,and powder coated with colour as approved. Aluminium Bus bars(Current density 0.8 Amp/sq.mm) continuous for Phase, Neutral & 2 Nos Earth Bars,with 2nos.earth terminals, necessary lifting hooks, all necessary gland plates & glands complete as per specifications & single line diagram . All panels with top entry provision. Galvanised, Zinc passivated hardware shall be used for assembling and panel shall be free standing flush type or wall mounted type as per site conditions. Panels shall be of flush front type.				
	All ACB's shall have Microprocessor based				
	Monitoring module to read A,V,Hz,kW,kVAr,kVArh & kVAh etc.				
	Note:				
	1) Approval shall be taken for each & every panel including all interlocking schemes proposed in the form of Shop Drawings before fabrication.				
1.1.1	**Add-On ACB at sub Station main LT Panel**				
	1000 Amps 35kA TP + N ACB Electrically operated, Draw-out type, conforming to spec above. Scope to include neceessary sheet metal fabrication work, Bus Bars, cable alley, Glanding provisions, Earth-link , painting and finishing to match existing panel. This panel shall be physically and electrically coupled and matched with the existing panel. The panel shall have provision of bus bars and necessary chambers for extension at a later date.	Set	1		
1.1.2	**MAIN LT PANEL(Assembly Shop pressurisation , Test Lab A.C. +Lighting)**				
	INCOMING:-				
	1 No. 1000A TP +N ACB - Electrically operated, Draw-out type,per specifications wit microprocessor releases for protection, with all required CT's				
	Feeder cubicle to consist**one set of** the following:·				
	ELR with CBCT , 1 - 8 mA				
	Breaker ON / OFF / TRIP indicating lights with control MCB's.				
	Under voltage release				
	230 V AC Shunt trip coil & closing coil.				
	Under voltage relay with timer.				
	Over voltage relay with timer				
	Breaker control switch				
	BUS BAR RATING :				
	1500A for phases, 800A for neutral, Bus bars rating, Current density 0.8 Amp/sq.mm with 2 Nos Earth busbar, 25 x6 mm GI, throught the length of the panel.				
	METERS:				
	Digital MDM (Multi data meter)				
	INDICATING LAMPS: RYB on each bus section				
	with all required CT's for protection and metering , CBCT & MCB's				
	Outgoings:				
	800 A,35kA,TP+N MCCB with micro-processor releases - 1 No.				
	630 A,35kA,TP+N MCCB with micro-processor releases - 2 Nos.				
	100 A,35kA,TP+N MCCB - 2 Nos.	Set	1		
1.2	**Removing Switch Fuse Units from Existing panel**				
	Removing 100 Amps Switch Fuse Units in Existing Panel	Set	5		
1.3	**Add-On Fuse Switch Units in Existing panel**				
	S,E,T & C of 200 Amps TPN Fuse Switch Units in Existing Panel (for Bus Bar Trunking)	Set	5		
1.4	**Main Change Over Switch in Metallic Enclosure for Bus Bar Trunking**				
	S,E,T & C of 200 Amps Change Over Switch with 1 Set of 200A HRC Fuses & 1 Set of 125A HRC Fuses in Metallic Enclosure. Make Controls & Switchgear - E-CSSDF200D4CO or Equivalent (for Bus Bar Trunking)	No	5		
1.5	**INVERTOR Main Isolator in Metallic Enclosure**				
a	**S, E, T & C** of 32 Amps 4P MCB (C Curve) in Metallic Enclosure	No	1		

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
b	**S,E,T & C** of 63 Amps DP MCB (C Curve) in Metallic Enclosure	No	1		
1.6	**FL+PDB (Normal Supply) for New Office, Plant Room & Despatch Room**				
	S, E,T & C of manufacturer's MCB DB consisting of INCOMING:- 32A TP+N MCB - 1 No. and				
	OUTGOINGS:- 10/16 Amps S P MCB (10 kA) 'C curve - 18 Nos	No	4		
1.7	**FPDB (UPS Supply) for New Offices**				
	S, E,T & C of manufacturer's MCB DB consisting INCOMING:- 32A TP+N MCB - 1 No. and				
	OUTGOINGS:- 10/16 Amps S P MCB (10 kA) - 18 Nos	No	2		
	Note:-				
	S,E,T & C- Supply, Erection, Testing and commissioning				
	SUB TOTAL OF 1				

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
2	**LT POWER CABLES**				
2.1	Supply,and laying of Power cables 1100 V Grade, Copper or Aluminium Conductors-multi-strand construction, of only approved make:Laying rates to include for all required Cable Clamps, Cable Identification Tags at required intervals,& other items like cable ferrules / cable-tags at each end of the cables laid. Cable trays will be measured separately.Laying of the cables will be carried out as per site conditions-on walls, trays, or in ground at a depth of 750mm covered with sand cushion and bricks on sides and top, or through burried pipes.				
2.1.1	3.5 C x 400 sq mm **XLPE** Cables, Aluminium, armoured	RM	80		
2.1.2	3Runs x 3.5C x 300 sq mm **XLPE** Cables, Aluminium, armoured-Route Length-100 Meters: (Rat shall be for 3 runs of cable for every mtr measured under qty column). Laying in ground including excavation, Sand bedding, Protection Bricks, Warning Tape, Backfill Etc complete / Laying inside Existing RCC Hume Pipe /Laying on walls / Laying on existing Cable Trays.	Mtr.	100		
2.1.3	3.5 C x 185 sq mm **XLPE** Cables, Aluminium, armoured cable	RM	500		
2.1.4	4 C x 16 sq mm **XLPE** Cables, Aluminium, armoured cabl	RM	1100		
2.1.5	4C x 10 Sq mm- PVC insulated **multi-strand copper** conductor armoured cables	RM	400		
2.1.6	3C x 6 Sq mm- PVC insulated **multi-strand copper** conductor armoured cables	RM	100		
	CABLE TERMINATIONS				
2.2	Supply and making cable termination of all the above Cables, using approved type of Copper cab e Cable sockets of Crimping and /or soldering type,brass double compression Glands complete with Earth tags or eyed earth connection lugs etc. Wherever required, banana type lugs shall be used.				
2.2.1	3.5 C x 400 sq mm XLPE Insulated,PVC Sheathed Aluminium armoured Cables	Set	4		
2.2.2	3.5 C x 300 sq mm XLPE Insulated,PVC Sheathed Aluminium armoured Cables	Set	6		
2.2.3	3.5 C x185 sq mm XLPE Insulated,PVC Sheathed Aluminium armoured Cables	Set	10		
2.2.4	4 C x 16 sq mm XLPE Insulated,PVC Sheathed Aluminium armoured Cables	Set	12		
2.2.5	4C x10 sq mm PVC Insulated Cu. Cable Armoured Cables	Set	38		
2.2.5	3C x6 sq mm PVC Insulated Cu. Cable Armoured Cables	Set	4		
	Note:-				
	S,E,T & C- Supply, Erection, Testing and commissioning				
	SUB TOTAL OF 2				

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
3	**LIGHTING AND POWER - CIRCUIT WIRING SUBMAIN WIRING AND POINT WIRING**				
3.1	**CIRCUIT WIRING**- Lighting / Miscellaneous,From Final DB to the First Point in Any Circuit				
	S,E,T & C of circuit wiring from the DB to the first point of the circuit in recessed / surface PVC conduit using only approved make 16 SWG MS conduits conforming to IS:9537 incorporating approved make requried accessories like bends, collars, junction boxes, as required,using only approved make and type of HFFR multi-strand Copper conductor wires. Installation on roof slab shall be carried -out using purpose made GI saddles fixed at not less than 450mm spacing. Cost shall include termination with suitable accessories.Conduiting above false ceiling shall be fastened between GI cable rungs suspended .				
3.1.1	2 runs of 2.5 Sq mm+ 1 run 1.5 sq.mm copper wires HFFR, in 25 mm dia MS conduit including cost of conduitng and wires.	RM	900		
3.1.2	7 Nos,(3 Ph+2 N+2 E)10 sq.mm PVC insulated HFFR copper wires in 32 mm dia MS conduit including cost of supply of conduit and wires. Termination cost shall be included: No separate payment for terminations	RM	250		
3.1.3	2 Nos 4 Sq mm + 1 No 2.5 sq mm HFFR copper wires in 32 mm dia MS conduit inclusing cost of conduiting and wires	RM	200		
	POINT WIRING				
3.2	Supply and wiring of Point Wiring for Lights / Fans / Exhaust Fans using 2 runs of 2.5 Sq mm+ 1 run 1.5 sq.mm (P + N+E) HFFR copper conductor multi-strand wires of approved make in concealed/ surface wiring using 16SWG MS Conduits. Only approved type & make of conduit ar accessories to be used. Installation on the roof slab shall be using GI saddles fixed at not less than 450 mm. Conduiting above false ceiling shall be fastened between GI cable rungs. The rates shall be inclusive of all the conduit accessories including tees Elbows, Unions,Fanhooks& Fanboxes, ,complete with Modular type plate Switches, Sockets, Fasteners, Matching Branded Switch & Socket Boxes (Metal Boxes for concealed wiring and moulded Polycarbonate white colo high density surface boxes for surface wiring), Junction Boxes, pull boxes at regular intervals,Fish wire (Pull wire), Fill-plugs & Wooden blocks and anchor bolts as required,all required Civil Works like Cutting & chasing as well as making good of all cuttings & Chases.				
	All ceiling Fan Regulators shall be of stepped solid state type of same as the modular swithes and boxes.				
3.2.1	One light controlled by**one 6 Amp SP switch**	Point	15		
3.2.2	Two lights controlled by**one 6 Amp SP switch**	Point	30		
3.2.3	Three lights controlled by**one 6 Amp SP switch**	Point	16		
3.2.4	Four lights controlled by**one 6 Amp SP switch**	Point	5		
3.2.5	Five lights controlled by**one 6 Amp SP switch**	Point	5		
3.2.6	Two light points controlled by 2 Nos 6 A two way switches	Point	5		
3.2.7	Four light points controlled by 2 Nos 6 A two way switches	Point	5		
3.2.8	**Ceiling Fan Points**				
	Complete with Stepped, hum-free regulator Of Modular plate type and modular plate Switch	Point	1		
3.2.9	**Exhaust Fan Points**				
	Wired as dependent point, looped from light control board,with 2 x2.5 Sqmm+ 1 x1.5 Sq mm Wire in 19 mm MS Conduits,Using Modular plate type 3 Pin 6 amps un-switched Socket Outlet near th fan and Control Switch in Light Control Switch-Board	Point	1		

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
3.3	Supply and installation16 A SPN industrial socket outlets and 16 A SP MCB in approved metalic enclosure.	Set	2		
	PRIMARY SOCKETS (UPS & Normal Sockets)				
3.3.1	Supply and installation of 1 No 16 Amp Universal Switched Socket outlet of Anchor Roma Type in Moulded Box **(Wiring already included in Power circuit wiring)**	Set	46		
	SECONDARY SOCKETS (UPS & Normal Sockets)				
3.3.2	Supply and installation of 1 No 16 Amp Universal Switched Socket outlet of Anchor Roma Type in Moulded Box located separately, wiring looped from Primary socket points above, including sup and fixing of outlet boxes with necessary accessories etc. (Looped wiring with 2 nos 4 sqmm +1 No 2.5 sqmm FRLS Cu Wires in Conduits to be included) (App. length of each secondary point will be 4 Mts)	Point	138		
3.3.3	**6A Sockets with Switch**				
	Wired as dependent point, looped from light point wiring,with 2 x2.5 Sqmm+ 1 x1.5 Sq mm Wires in 19 mm Conduits,Using Modular plate type 3 Pin 6 amps switched Socket Outlet on or near the Light Control Switch-On Board .	Point	15		
	Note:-				
	S,E,T & C- Supply, Erection, Testing and commissioning				
	SUB TOTAL OF 3				

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
4.0	**RACEWAYS, GI JUNCTION BOXES & CABLE TRAYS**				
4.1	Supply and erection of 14SWG Thick GI Raceways with Cover, AS PER APPROVED SAMPLE, cable management system of following sizes.The rates for fixing in ceiling shall be inclusive of all necessary GI hitech rod support 10mm dia at 600mm C/C or suspended on support. The rates for fixing on walls shall include cost of GI angle-iron frames and GI fasteners. Rates for under-floor installation shall cover all cutting /chipping and restoration of fishes back to original condition				
a	300 mm x 50 mm Race ways**Single Compartment**	RM	250		
b	225 mm x 50 mm Race ways**Single Compartment**	RM	100		
c	150 mm x 150 mm Race ways**Single Compartment**	RM	100		
	Note:-				
	S,E,T & C- Supply, Erection, Testing and commissioning				
	SUB TOTAL OF 4				

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
5	**EARTHING, EARTH CONDUCTORS / STRIPS**				
5.1	**G I Plate Earth Stations**				
	Supply, providing and laying of 600mm x 600mm x 6 mm thick GI electrode, with 2 nos 50 X 6 mm GI strips from earth electrode to inspection chamber, 50 mm dia medium class GI pipe, CI funnel with GI wire mesh, brick masonry chamber 600 X 600 mm with concrete base CI manhole cover with frame painted with bitumastic paint and packing with mixtures of charcoal and common salt around plate electrode including digging of pit, filling Charcoal & salt. The earthpit identity shall be marked on the cover with paint in an approved manner.	Set	4		
5.2	**Copper Plate Earth Station**				
	Supply and making **Copper Plate Earth Station** Size 600x600x3mm complying to IS: 3043,complete in all respect with excavation, filling of Charcoal & salt, & providing watering funne , brick masonry Chamber and CI frame. The earthpit identification shall be marked with paint on the cover in an approved manner.	Set	2		
5.3	**EARTH CONDUCTORS/STRIPS/WIRES**				
	Supplying and installing Earthing Conductors of the following materials of the sizes mentioned ; rates to include all required Civil works like breaking and making good, fixing items like fasteners clamps, and inclusive of welding, brazing and soldering to effect the connections. All termination costs including cost of Lugs, wherever required shall be included in the rates.				
5.3.1	8 SWG Cu wires-	RM	50		
5.3.2	8 SWG GI wires-	RM	300		
5.3.3	25 x 3 mm GI tape	RM	200		
5.3.4	25x 6 mm GI tape	RM	80		
5.3.5	25x 6 mm Cu. Tape fixed on Porcelin Insulator support as per site conditions in the same manner as dedicated copper earth bus.	RM	250		
	Note:-				
	S,E,T & C- Supply, Erection, Testing and commissioning				
	SUBTOTAL OF 5				

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
6	**INVERTOR UNIT**				
6.1	Supply & installation of 5 **KVA inverter, input Three phase (415 V + / - 10%)and output Single phase (230 V + 1%)** sealed maintenance free batteries suitable for **15** minutes back-up , complete with provision of suitable moulded Corrosion Proof battery racks.	Nos	1		
	Note:-				
	S,E,T & C- Supply, Erection, Testing and commissioning				
	SUBTOTAL OF 6				

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
7	**LIGHT FITTINGS & FIXTURES**				
7.1	Supply, installation, testing and commissioning of the following light fixtures complete with reflectors, lamps, ballasts, louvers, transformers, fixing accessories etc as required. All FTL & CFL Fittings with Electronic ballasts				
	1 x 250W Tubular Metal Halide fittings with lamps, but with non-Integral Control Gear	Nos	81		
	BAJAJ - HIGHBAY (BJHBNI 250 MV) OR EQULAVENT				
7.2	**S,E,T & C** of 63A 4P MCB 10kA in Integral Metallic Enclosur	Nos	2		
7.3	**S,E,T & C** of 12 Way din channel-mounted T160 "SCAME"or equivalent elmex terminal blocks 4 amps rating in powder coated 14 swg junction box with glanding provision for 4Cx10 Sqmm Armoured Copper Cable-For Normal Supply Cable Bus Junction	Nos	17		
7.4	Supply & Installation of 14 SWG powder coated finish junction box as per sample dimensions at site to house 1 nos. of 16A DP MCB 10 kA as incomer + 20 way din channel-mounted T85 "SCAME" or equivalent Elmex terminal blocks 16 Amps rating + 4 sets non-integral control gear for 250W highbay **(BAJAJ - BJCG 250W / BAJAJ - BJCG 250W OR EQULAVENT)** wired from Terminal Block to NON -Integral Control Gear and 4 Nos 6A SP MCBs MOUNTED ON A DIN Channel which is wired from NON -Integral Control Gear to MCB (Internal wiring is done using 3 Nos. 2.5 Sqmm HFFR wires & 1No Control Gear out of 4 nos. in a seperate compartment in the same enclosure for fitting that will be supplied from inverter supply and the wiring for this Control gear & light will be colour coded seperately for easy identification)	Nos	4		
7.5	Supply & Installation of 14 SWGpower coated finish junction box as per sample dimensions at site to house 1 nos. of 16A DP MCB 10 kA as incomer + 20 way din channel-mounted T85 "SCAME or equivalent Elmex terminal blocks 16 amps rating + 5 sets non-integral control gear for 250w highbay (BAJAJ - BJCG 250W / BAJAJ - BJCG 250W OR EQULAVENT) wired from Terminal Block to NON -Integral Control Gear and 5 Nos 6A SP MCBs MOUNTED ON A DIN Channel which is wired from NON -Integral Control Gear to MCB (Internal wiring is done using 3 Nos. 2.5 Sqmm HFFR wires & 1No Control Gear out of 4 nos. in a seperate compartment in the same enclosure for fitting that will be supplied from inverter supply and the wiring for this Control gear & light will be colour coded seperately for easy identification)	Nos	13		
7.6	Wiring from non integral control gear to light fitting using 3Nos. 2.5Sqmm HFFR Cu. WIRES , Excluding Conduits.	RM	3000		
7.7	Conduitingfrom non integral control gear to light fitting using 32mm DIA MS Conduits, Excluding wiring.				
		RM	900		
7.8	63A DP MCB 10kA in Integral Metallic Enclosur **(INVERTOR)**	Nos	1		
7.9	8 Way din channel-Mounted T160 "SCAME" OR Equivalent elmex terminal blocks 40 amps ratir in powder coated 14 SWG junction box with glanding provision for 3Cx6 Sqmm armoured copper cable-For Invertor Cable Bus Junction	Nos	8		
7.10.1	1x36W FTL-Industrial type, surface mounted light fixtures complete with lamps and electrin ballasts Etc. Bajaj : BJIE 136 WEB1 / Philips : TKC 203/136 HF or Equivalant	No	18		
7.10.2	2x28W FTL-Industrial type, surface mounted light fixtures complete with lamps and electron ballasts Etc. Bajaj : BTSM 228 or Equivalent	No	49		
7.10.3	2x36W FTL- Recessed mounted light fixtures complete with lamps and electronic ballasts Etc PHILIPS : (FBS 470/236 D6) or Equivalent	No	46		
7.10.4	1X36W FTL- Mirror top surface mouted with lamps and electronic ballasts Etc.Philips: (TMS 21 136 LPF) or Equivalent	No	6		

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
7.10.5	1x13W surface mounted cfl ceiling with lamps and electronic ballasts Etc Bajaj : (BJDS 110/113) Equivalent	No	18		
7.11	Dressing of Existing Power Cables (Dressing and Clamping of Existing Cable on Exisitng Cab Trays 300mm)	LS	LOT		
7.12	Dismantling of existing light fixtures & wiring	LS	LOT		
	Note:-				
	S,E,T & C- Supply, Erection, Testing and commissioning				
	SUBTOTAL OF 7				

SCHEDULE OF WORK / PRICE BID (PART- II)					
ELECTRICAL WORKS FOR CE-SYSTEM TESTING AREA					
ITEM NO	**DESCRIPTION**	**UNIT**	**QTY**	**RATE (Rs)**	**AMOUNT (Rs.)**
8	**BUS BAR TRUNKING AND INDUSTRIAL SOCKET OUTLETS WITH MCBs**				
8.1	Supply, installation, testing and commissioning of 200 Amps-rated, 415v, TPN Bus bar Trunking: the housing shall be made out of 16 SWG CRCA sheet steel, finished in powder-coating of approved colour after a 7 tank process for de-scaling, de-rusting, de-phosphating Etc-The housing shall have a cheese-headed srewed cover, cover shall be with neoprane gasket, seated over an appropriate lipping on the fixed housing; The trunking shall have 2 nos 25 x 3 mm continuous GI earthing bars on the external side of the housing. All 4 bus bars shall be 200 amps rated of Copper (1 Amps per Sqmm) , supported on grooved- Vertical SMC insulating members at 800 mm Centre-To- Centre to full height;with pre-drilled holes to terminate connections to the Socket assemby on either side of every trunking length- Dimensions of each trunking section shall be 1200 mm long x 180 mm wide x maximum 125 mm deep;Each such trunking section shall be suitable for mounting on the housing (on either side) industrial type 5 pin Three phase MCB controlled Socket assembly. The rates shall include for providing suitable end covers (with Glanding knock-outs)				
	on either side of the total trunking assembly comprising several individual trunking lengths. The drawing for this item shall be got approved by the Engineer-in-charge before commencing fabrication.				
8.1.1	200 Amps 4 Bus Bars Configuration Trunking as above, as per approved sample				
	& Specs. above.	RM	250		
8.1.2	**S,E,T & C** of 30 Amps 3Phase 5 Pin Industrial plug and socket (BCH type) controlled by 16A 3 Pole MCB and jumpering with 6 Sqmm HFFR Copper wires	Set	200		
8.1.3	**S,E,T & C** of 16 Amps 1Phase Industrial socket controlled by 16A DP C Curve MCB and jumperir with 6 Sqmm HFFR Copper wires. Plug and sockets shall be of plug and turn type for locking the plug into the socket(as in the case of BCH make),	Set	75		
8.2	Supply, installation, testing and commissioning of 500 Amps-rated Two Bus Bar Configuration 48 V DC Bus bar Trunking: the housing shall be made out of minimum 14 SWG CRCA sheet steel, finished in powder-coating of approved colour after a 7 tank process for de-scaling, de-rusting, de-phosphating Etc-The housing shall have a cheese-headed srewed cover, cover shall be with neoprane gasket, seated over an appropriate lipping on the fixed housing; Bus bars shall be OWNER-SUPPLIED.The rates shall include for providing suitable end covers (with Glanding knoc outs) on either side of the total trunking assembly comprising several individual trunking lengths. The Owner- supplied Bus Bars and the same shall be used by the fabricator for bus bar assembly in the new housing..The rates shall include the necessary insulated supports, Tee-Off connections, where necessary cut outs with gasketed and bolted covers are to be provided in the trunking housing. Rates shall include dismantling and re-assembly of the exisiting DC Bus Bars.				
	The drawing for this item shall be got approved by the Engineer-in-charge before commencing fabrication.	RM	250		
8.3	**S,E,T & C** of 20 Amps DC MCB and jumpering with 6 Sqmm HFFR Copper wires. The MCB sha be fixed on the front cover of the DC bus duct under item 8.2 above, using DIN rail, and wired from the bus bars using 6 sq.mmHFFR copper wires	set	200		
	Note:-				
	S,E,T & C- Supply, Erection, Testing and commissioning				
	SUBTOTAL OF 8				