

SI.No	Description of Item	Unit	Quantity	Rate	Amount
1	Supply, Installation, Testing & Commissioning of UPS distribution board , cubicle type, made out of 2mm thick CRCA sheet,totally enclosed, IP 42, free standing, floor/Wall mounting, dust and vermin proof, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system with busbars extensible on both sides, making interlocking arrangement between incomers & buscoupler breakers, including internal wiring with suitable size wires/cable, interconnection, duly powder coated painting etc. including supply & installation of following switchgears, metering instruments and accessories as per specifications.				
1.1	MAIN PANEL	Nos.	1		
	INCOMING :				
	320 Amps, 36KA, 4P Moulded Case Circuit Breaker with thermal magnetic over current and short circuit releases rotary operating handle - 1 set.				
	Digital VAF meter with inbuilt selector switch 1 Nos. and suitable rating Class-1 CTs - 3No				
	3 Sets of phase indicating lamps, LED type, RYB controlled by 2 amp MCB.				
	400 Amp 36KA, TPN busbars of high conductivity electrolytic quality aluminium alloy with coloured heat shrinkable insulated sleeve.-1 Set				
	OUTGOING:				
	100 A TPN MCCB 25 ka - 4 No.				
	63 A 4P MCCB (10ka 'C' curve) - 5 Nos				
	40 A 4P MCCB (10ka 'C' curve) - 3 Nos				
	All breakers breaking capacities of MCCBs shall be Icu=Ics.				
1.2	UPS Distribution Board:				
	Supply, Installation, Testing & Commissioning of UPS distribution board , cubicle type, made out of 2mm thick CRCA sheet,totally enclosed, IP 42, free standing, floor/Wall mounting, dust and vermin proof, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system with busbars extensible on both sides, making interlocking arrangement between incomers & buscoupler breakers, including internal wiring with suitable size wires/cable, interconnection, duly powder coated painting etc. including supply & installation of following switchgears, metering instruments and accessories as per specifications.	Nos	1		
	INCOMING :				
	100 Amps, 25KA, 4P Moulded Case Circuit Breaker with thermal magnetic over current and short circuit releases rotary operating handle - 1 set.				
	Digital VAF meter with inbuilt selector switch 1 Nos. and suitable rating Class-1 CTs - 3No				
	3 Sets of phase indicating lamps, LED type, RYB controlled by 2 amp MCB				
	100 Amp, 415V, 10KA, 4W CU busbars with coloured heat-shrinkable sleeve- 2 Set				
	OUTGOING:				
	40 A TPN MCCB [10 KA] 3 Nos				
	20 A TPN MCCB [10 KA] 2 Nos				
	16 A DP MCCB [6 KA] 4 Nos				
	06 A DP MCCB [6 KA] 4 Nos				
	All breakers breaking capacities of MCCBs shall be Icu=Ics.				
2	CABLES				
2.1	Supply, receiving, unloading, storing, testing and commissioning of following sizes of 1.1kv grade multicore copper conductor XLPE insulated and PVC sheathed copper conductor cables laid on overhead cable trays or over MS supports in masonry trenches including providing the MS supports and clamps for fixing to supports in an approved manner complete as per direction of Engineer In charge				
2.1.1	3.5 C X 300 Sq.mm Aluminum Cable (In Coming to Main Panel)	Rmt	110		
2.1.2	4C X 50 Sq.mm Aluminum Cable	Rmt	90		
2.1.3	4C X 25 Sq.mm Aluminum Cable	Rmt	105		
2.1.4	4C X 10 Sq.mm Aluminium Cable	Rmt	50		
2.2	Laying and fixing of following sizes of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade laid on existing overhead cable trays or over MS support/ existing cable tray etc. as required. including supply and fixing of suitable clamps for fixing the cable with support in an approved manner.				
2.2.1	Upto 50 sq. Mm (clamped with 1mm thick saddle)	Rmt	245		
2.2.2	300 sq.mm cable (clamped with suitable manner)	Rmt	110		
2.3	Supply and jointing of 1.1KV grade Cable termination using DOUBLE compression glands for cable sizes of 120 Sq.mm and higher. SINGLE compression brass cable glands for all sizes less than 120Sq.mm. The termination shall include earth tags, crimping type tinned copper lugs and consumables for the following size of cables				
2.3.1	3.5C x 300 Sq.mm XLPE Al. cable	Nos	2		
2.3.2	3.5C x 50 Sq.mm XLPE Al.conductor cable	Nos	2		
2.3.3	3.5C x 25 Sq.mm XLPE Al.conductor cable	Nos	6		
2.3.4	4C x 10 Sq.mm XLPE Al.conductor cable	Nos	4		
3	Switch & sockets: Supply, installation and testing of following switches and sockets required near the equipments with suitable supports and clamps to suit the site condition, complete with all respect				
3.1	Supply & installation of 100A, TPN isolator with enclosure for VRF ODU unit	Nos	2		
3.2	Supply & installation of 63A, TPN isolator with enclosure for VRF ODU unit	Nos	1		
3.3	SITC of Fabricated Powder coated MS Box suitable to mount with				
3.3.1	63A, 5 pin Socket along with suitable straight plug and necessary TPN-MCB for isolation.	Nos	3		
3.3.2	32A, 5 pin Socket along with suitable straight plug and necessary TPN-MCB for isolation.	Nos	2		
6.0	EARTHING				
6.1	Supply, providing, laying and testing of G.I plate earth station as per latest IS - 3043 complete with 600x600x6 mm thick copper plate, 2 runs of 50x6 G.I flats from plate to the top of chamber. 38mm dia class 'B' G.I watering pipe, funnel with wire mesh and test link for system dedicated earthing. 600 x 600 mm brick masonry chamber with hinged cover, painted with bituminous paint, test link joint na dpacking the mixture with charcoal and salt around plate electrode as required to suit the chamber dimensions. Earth value should be less than 1 ohm.	Nos	1		
6.2	Supply, providing, laying and testing of Copper plate earth station as per latest IS - 3043 complete with 600x600x3 mm thick copper plate, 2 runs of 50x6 copper flats from plate to the top of chamber. 38mm dia class 'B' G.I watering pipe, funnel with wire mesh and test link for system dedicated earthing. 600 x 600 mm brick masonry chamber with hinged cover, painted with bituminous paint, test link joint and packing the mixture with charcoal and salt around plate electrode as required to suit the chamber dimensions. Earth value should be less than 1 ohm.	Nos	3		
6.3	Supply laying and termination of following sizes of earth flats and wires laid in under ground at 600mm deep / on cable trays drawn through pipe and sleeves along with column wall for safety earthing. All G.I conductor joints in the runs of conductor shall be cad welded and welded joints shall be protected with bitumen paint. All Cu. conductor joints shall be brazed or riveted. The equipment tape connection shall be bolted using galvanized hardware or bolted by using passivated hardware.	Rmt	20		
6.3.1	25X 6mm GI strip	Rmt	20		
6.3.2	25X 3 mm Cu strip	Rmt	100		
	TOTAL				

