

Government eProcurement System
Created By: RISHI RAJ BAGRE
Created Date/Time: 14-Feb-2024 04:24 PM
Tender Title: Reconfiguration of Integrated Terminal Building and Renovation of Old Terminal
Tender ID: 2024_AAI_181347_1

Tender Inviting Authority: Asstt. General Manager (Engg-Elect)-I

Name of Work:Reconfiguration of Integrated Terminal Building & Renovation of Old Terminal Building at D.A.B.H. Airport, Indore. SH: Augm

Tender ID: 2024_AAI_181347_1

SCHEDULE OF WORK / ITEM(S)											
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	RASS CONTRACTOR AND ENGINEERS(GSTN-09AFIPR1600N1Z7)		L L Electericals(GSTN-NA)		ASIATIC TRADERS(GSTN-NA)		
					Rate	Amount	Rate	Amount	Rate	Amount	
1.00	SITC of Distribution Transformer.										
1.10	Supply Installation Testing Commissioning of "33/0.433 KV Distribution Transformer rating of 1000 KVA, Outdoor type ,3 phase ,50 HZ, Oil filled ONAN, Copper Wound core type ,step down ,Delta/Star ,Dyn-11 with on load tap changer. The transformer shall be designed and manufactured as per IS 2026-1977 and efficiency as per BIS 1180 efficiency Level I and latest ECBC with upto date Amendments and shall be as per technical specifications available in this tender document complete as required.	2.00	Nos.		2500000.00	5000000.00	2785000.00	5570000.00	2948000.00	5896000.00	
2.00	33 KV HIGH VOLTAGE PANEL										

L1 Amount	L1 Vendor
5000000.00	RASS CONTRACTOR AND ENGINEERS

2.01	Supply, Installation, Testing & Commissioning of indoor type (IP 4X) floor mounted metal clad, 33KV Switch Board VCB panel with 06 Nos. VCBs, totally enclosed & fully interlocked, truck mounting, horizontal draw out, horizontal isolation type vacuum breaker as per IS / IEC 62271- 100 (2007) for breakers & 200 (2003),for panels / IS3247 as amended up to date, having capacities as mentioned below, free standing extensible on both sides, single break, trip free mechanism, motorised charged and auto/ manually closing breaker suitable for use on (33KV), 3 Phase,50Hz A.C. supply with short circuit fault level of 1500 MVA, complete with self contained short time current 26.3 kA for 3 sec, Internal Arc Test for AFLR 26.3 kA for 1 sec at individual compartments i.e busbar, VCB, and cable compartment, rack in and rack out mechanism, air insulated but encapsulated copper bus bars capacity meeting fault level current , DC power pack, breaker featured with mechanical ON / OFF indicator with hand trip device, Breaker control TNC switch and all accessories such as shunt trip coil, and auxiliary switch of 4NO+4NC, motorised and manually operated spring assisted closing mechanism, emergency trip push button, interconnections, space heaters, earthing, etc. and equipped with following switchgears and accessories, connections suitable for cable upto 3C x 185 sqmm XLPE cable of (33KV) grade (cable entry from bottom), Separate earthing switch shall be provided for Cable earthing . The earthing truck shall be so designed that it is impossible to earth alive. cable terminations suitable for 3C x185 sq.mm. XLPE (33KV) cable. (For further details please refer Tender Document)	1.00	Job
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4100000.00	4100000.00	5125000.00	5125000.00	5518460.00	5518460.00	4100000.00	RASS CONTRACT OR AND ENGINEERS
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2.02	EXTENSION OF EXISTING 33 KV HIGH VOLTAGE INDOOR PANEL AT NEW POWER HOUSE. Extension of existing 33 KV indoor type HT panel by Supplying, Installing, Configuring, Testing & Commissioning of indoor type (IP 4X) floor mounted metal clad, 33KV Switch Board VCB panel with 02 Nos. VCBs, totally enclosed & fully interlocked, truck mounting, horizontal draw out, horizontal isolation type vacuum breaker as per IS / IEC 62271- 100 (2007) for breakers & 200 (2003),for panels / IS3247 as amended up to date, having capacities as mentioned below, free standing extensible on one side, single break, trip free mechanism, motorised charged and auto/ manually closing breaker suitable for use on 33KV , 3 Phase, 50Hz A.C. supply with short circuit fault level of 1500 MVA, complete with self contained short time current 26.3 kA for 3 sec, Internal Arc Test for AFLR 26.3 kA for 1 sec at individual compartments i.e busbar, VCB, and cable compartment, rack in and rack out mechanism, air insulated but encapsulated copper bus bars capacity meeting fault level current , DC power pack, breaker featured with mechanical ON / OFF indicator with hand trip device, Breaker control TNC switch and all accessories such as shunt trip coil, and auxiliary switch of 4NO+4NC, motorised and manually operated spring assisted closing mechanism, emergency trip push button, interconnections, space heaters, earthing, etc. and equipped with following switchgears and accessories, connections suitable for cable upto 3C x 185 sqmm XLPE cable of (33KV) grade (cable entry from bottom), Separate earthing switch shall be provided for Cable earthing .The earthing truck shall be so designed that it is impossible to earth a live. cable terminations suitable for 3C x 185 sq.mm. XLPE (33KV) cable.(For further details please refer Tender Document)	1.00	Job
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2250000.00	2250000.00	2415000.00	2415000.00	2420000.00	2420000.00	2250000.00	RASS CONTRACT OR AND ENGINEERS
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3.00	LT Panels Supply, Installation, Testing and Commissioning of cubicle type LT panel , as per 61439-1 & 61439-2, suitable for 415V+/-10%, 3 Phase, 4 wire 50 Hz AC supply system, fabricated in compartmentalized 4b bolted modular design IP 42 from CRCA sheet steel of 2 mm thick for frame work and covers, 3 mm thick for gland, plates i/c cleaning & finishing complete with 9 tank process for powder coating in approved shade, having TPN Aluminium alloy bus bars for high conductivity, SMC bus bar supports,with short circuit withstand capacity of 50 KA for 1 sec & Internal arc withstand of 50kA for 0.3 second ,bottom base channel of MS section not less than 100 mm x 50 mm x 5 mm thick, fabrication shall be done in transportable sections, entire panel shall have a common GI earth bar of size 50 mm x 6 mm at the rear with 2 Nos. earth stud, solid / flexible connections from main bus bar to switchgears and from switchgear output to cable termination in cable alley with required size of AL conductors / bus bars and control wiring with 2.5 sqmm PVC insulated copper conductor cable (FRLS), cable alleys, cable gland plates in two half, i/c providing following switchgears / accessories as per specifications.		
3.01	M.V. PANEL Incomer-I & II 04 Nos ACB 2000 A, 50 kA, 4 Pole, Microprocessor release Horizontal drawout type of fault breaking capacity 50KA (Ics=Icu=Icw) Electrical Draw Out Motorised operated, fitted with interlocked door, automatic safety shutters, mechanical ON/OFF and service/ test/isolated position indicators and frame earthing contact, conforming to IS-13947-2 1993 as amended up-to-date complete with Independent Electrical & manual spring closing mechanism, Microprocessor release (EMI & EMC certified) for over current, earth fault & short circuit protection, Shunt trip coil 24V D.C / 220V A.C, Breaker Control Switch - 16A, Test terminal block set, circuits as per standard practice, auxiliary contactors with contacts (minimum 4NO+4NC) for positive interlocking of the breakers, necessary interlocking with PLC auto controls with all protection i/e Earth fault, Under/Over Voltage, Under/Over Frequency, Current Unbalance, etc. and Real-time on-line display of measurements, Current : phase / neutral / earth, average, max, % loading, Voltage : Phase, Line and with communication port facility etc. (For further details please refer Tender Document)	1.00	Job

2850000.00	2850000.00	4285000.00	4285000.00	5170000.00	5170000.00	2850000.00	RASS CONTRACT OR AND ENGINEERS

3.02	Switch Room 01 Incomer 2 Nos. MCCB, 400A, 4P, 35 kA with adjustable setting , microprocessor release with O/L, S/C & inbuilt E/F protection. fitted with interlocked door, automatic safety shutters, mechanical ON/OFF and service/ test/isolated position indicators and frame earthing contact, conforming to IS-13947-2 1993 as amended up-to-date complete with Independent Electrical & manual spring closing mechanism, Microprocessor release (EMI & EMC certified) for over current, earth fault & short circuit protection, Shunt trip coil 24V D.C / 220V A.C, Breaker Control Switch - 16A, Test terminal block set, circuits as per standard practice, auxiliary contactors with contacts (minimum 4NO+4NC) for positive interlocking of the breakers, necessary interlocking with PLC auto controls with all protection i/e Earth fault, Under/Over Voltage, Under/Over Frequency, Current Unbalance, etc. and Real-time on-line display of measurements, Current : phase / neutral / earth, average, max, % loading, Voltage : Phase, Line and with communication port facility etc.(For further details please refer Tender Document)	1.00	Job
3.03	Switch Room 02 Incomer 2 Nos. MCCB, 250A, 4P, 35 kA with adjustable setting , microprocessor release with O/L, S/C & inbuilt E/F protection. fitted with interlocked door, automatic safety shutters, mechanical ON/OFF and service/ test/isolated position indicators and frame earthing contact, conforming to IS-13947-2 1993 as amended up-to-date complete with Independent Electrical & manual spring closing mechanism, Microprocessor release (EMI & EMC certified) for over current, earth fault & short circuit protection, Shunt trip coil 24V D.C / 220V A.C, Breaker Control Switch - 16A, Test terminal block set, circuits as per standard practice, auxiliary contactors with contacts (minimum 4NO+4NC) for positive interlocking of the breakers, necessary interlocking with PLC auto controls with all protection i/e Earth fault, Under/Over Voltage, Under/Over Frequency, Current Unbalance, etc. and Real-time on-line display of measurements, Current : phase / neutral / earth, average, max, % loading, Voltage : Phase, Line and with communication port facility etc. (For further details please refer Tender Document)	1.00	Job

850000.00	850000.00	990000.00	990000.00	1292500.00	1292500.00
650000.00	650000.00	650000.00	650000.00	767800.00	767800.00

850000.00	RASS CONTRACT OR AND ENGINEERS
650000.00	RASS CONTRACT OR AND ENGINEERS , L L Electricals

3.04	Switch Room 03 Incomer 2 Nos. MCCB, 400A, 4P, 35 kA with adjustable setting , microprocessor release with O/L, S/C & inbuilt E/F protection. fitted with interlocked door, automatic safety shutters, mechanical ON/OFF and service/ test/isolated position indicators and frame earthing contact, conforming to IS-13947-2 1993 as amended up-to-date complete with Independent Electrical & manual spring closing mechanism, Microprocessor release (EMI & EMC certified) for over current, earth fault & short circuit protection, Shunt trip coil 24V D.C / 220V A.C, Breaker Control Switch - 16A, Test terminal block set, circuits as per standard practice, auxiliary contactors with contacts (minimum 4NO+4NC) for positive interlocking of the breakers, necessary interlocking with PLC auto controls with all protection i/e Earth fault, Under/Over Voltage, Under/Over Frequency, Current Unbalance, etc. and Real-time on-line display of measurements, Current : phase / neutral / earth, average, max, % loading, Voltage : Phase, Line and with communication port facility etc. (For further details please refer Tender Document)	1.00	Job
3.05	CCR PANEL Incomer-I & II 2 Nos. 400A, 4P MCCB, Microprocessor based release (Ics = Icu = 35kA) with inbuilt O/L , S/C & E/F protection as per specification. (For further details please refer Tender Document)	2.00	Job
3.06	D.G SYNCHRONISING PANEL. Design, manufacture Supply, Installation, Testing and Commissioning of D.G Synchronising cum PCC Panel with AMF for 3 nos. DG Sets (2 nos. x 750 KVA and 1 no. x 500 KVA), load sharing & power distribution facilities, cubicle type, made of 2 mm thick sheet steel, totally enclosed, IP 4X, free standing, floor mounting, dust and vermin proof ,indoor, compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415v, 50 Hz AC supply from D.G Sets (individual or in sync. & parallel load sharing mode as per load requirements) & Mains power with AI. busbars extensible on both sides, interconnections including supply & installation of following items/components (but not limited to) and as per Technical specification & site requirement complete as required:(For further details please refer Tender Document)	1.00	Job

650000.00	650000.00	967500.00	967500.00	1261700.00	1261700.00
950000.00	1900000.00	930000.00	1860000.00	1214400.00	2428800.00
2250000.00	2250000.00	3785000.00	3785000.00	3844500.00	3844500.00

650000.00	RASS CONTRACT OR AND ENGINEERS
1860000.00	L L Electericals
2250000.00	RASS CONTRACT OR AND ENGINEERS

3.07	Hybrid Panel 200 KVAR (Automatic Power Factor Correction & Harmonic Filters) Design, fabrication, assembly, wiring, supply, erection , testing and commissioning of Hybrid Solution consisting of APFC Panel and AHF, to achieve 0.99 Lag and THDI / THD Voltage within IEEE 519 limits. The Hybrid panel should have an incomer of 400 Amps, 4 Pole, Horizontal draw out type ACB of fault breaking capacity 50KA (Ics=Icu=Icw=50KA for 1 secs at 440V), The Hybrid Panel should be certified as per IS16636 and IEC 61921, The capacitor bank shall comprise of capacitor units rated at 525 volt, 14% de tuning reactors, PF controllers, circuit breakers etc.(For further details please refer Tender Document)	2.00	Job
3.08	SITC of following rating Aluminum Sandwich type Busduct suitable for indoor & outdoor application (IP-55 & 66 respectively) including supports, bends, adaptor boxes, flexible connections and other accessories as per site requirement complete as required.		
3.08	2500A, 100% Neutral 100 kA 415V TPN Aluminum Sandwich type Busduct IP-55, Indoor, from DG Synchronising Panel to Main MV Panel.	40.00	RMtr
3.08	1250A, 100% Neutral 100 kA 415V TPN Aluminum Sandwich type Busduct IP -66, Outdoor, from DG Sets toward DG Synchronising Panel.	20.00	RMtr
3.08	1250A, 100% Neutral 100 kA 415V TPN Aluminum Sandwich type Busduct IP-55, Indoor, from DG Sets Synchronising Panel toward DG Sets & From Transformers to Main MV Panel.	100.00	RMtr
4.00	Supply and laying of LT Cable		
4.01	Supply of following size 1.1 KV grade multicore aluminium conductor XLPE insulated and PVC sheathed armoured cable as per IS : 7098:1988 (Part 1) with upto date amendment complete as required.		
4.01	4 X 16 sq. mm	300.00	Mtr
4.01	4 X 35 sq. mm	300.00	Mtr
4.01	3½ X 70 sq. mm	250.00	Mtr
4.01	3½ X 185 sq. mm	2500.00	Mtr

1250000.00	2500000.00	1350000.00	2700000.00	1728100.00	3456200.00
38500.00	1540000.00	25400.00	1016000.00	35200.00	1408000.00
28500.00	570000.00	22500.00	450000.00	20000.00	400000.00
16500.00	1650000.00	17800.00	1780000.00	16000.00	1600000.00
150.00	45000.00	150.00	45000.00	110.00	33000.00
240.00	72000.00	250.00	75000.00	173.00	51900.00
385.00	96250.00	425.00	106250.00	287.00	71750.00
1095.00	2737500.00	980.00	2450000.00	699.00	1747500.00

2500000.00	RASS CONTRACT OR AND ENGINEERS
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1016000.00	L L Electericals
400000.00	ASIATIC TRADERS
1600000.00	ASIATIC TRADERS

33000.00	ASIATIC TRADERS
51900.00	ASIATIC TRADERS
71750.00	ASIATIC TRADERS
1747500.00	ASIATIC TRADERS

4.02	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required.		
4.02	63 mm dia (OD-63 mm & ID-51 mm nominal)	500.00	Mtr
4.03	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required.		
4.03	120 mm dia (OD-120 mm & ID-103 mm nominal)	300.00	Mtr
4.04	Supply and Laying of additional 1 no. 63 mm dia OD DWC Pipe along with all accessories like sockets, bends, couplers etc. complete with fitting, cutting and jointing etc. in existing trench (75 cm below ground level) complete as required.	100.00	Mtr
4.05	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on surface of wall/ culvert etc. as required.		
4.05	Upto 35 sq. mm (clamped with 1mm thick saddle)	100.00	Mtr
4.05	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	50.00	Mtr
4.05	Above 95 sq. mm and upto 185 sq. mm. (clamped with 25/40x3mm MS flat clamp)	500.00	Mtr
4.06	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1KV grade of following size in the existing RCC/ HUME/ METAL/ HDPE pipe as required.		
4.06	Upto 35 sq. mm	100.00	Mtr

195.00	97500.00	350.00	175000.00	187.00	93500.00
265.00	79500.00	550.00	165000.00	253.00	75900.00
115.00	11500.00	50.00	5000.00	143.00	14300.00
35.00	3500.00	60.00	6000.00	120.00	12000.00
55.00	2750.00	100.00	5000.00	130.00	6500.00
65.00	32500.00	120.00	60000.00	140.00	70000.00
35.00	3500.00	60.00	6000.00	50.00	5000.00

93500.00	ASIATIC TRADERS
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75900.00	ASIATIC TRADERS
5000.00	L L Electericals

3500.00	RASS CONTRACT OR AND ENGINEERS
2750.00	RASS CONTRACT OR AND ENGINEERS
32500.00	RASS CONTRACT OR AND ENGINEERS

3500.00	RASS CONTRACT OR AND ENGINEERS
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4.06	Above 35 sq. mm and upto 95 sq. mm	50.00	Mtr
4.06	Above 95 sq. mm and upto 185 sq. mm	1500.00	Mtr
4.07	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.		
4.07	Upto 35 sq. mm	100.00	Mtr
4.07	Above 35 sq. mm and upto 95 sq. mm	50.00	Mtr
4.07	Above 95 sq. mm and upto 185 sq. mm	300.00	Mtr
4.08	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.		
4.08	4 X 16 sq. mm (28mm)	20.00	Each
4.08	4 X 35 sq. mm (32mm)	4.00	Each
4.08	3½ X 70 sq. mm (38mm)	4.00	Each
4.08	3½ X 120 sq. mm (45mm)	8.00	Each
4.08	3½ X 185 sq. mm (57mm)	26.00	Each
4.09	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.		
4.09	3½ X 185 sq. mm	5.00	Each

55.00	2750.00	90.00	4500.00	60.00	3000.00
65.00	97500.00	100.00	150000.00	70.00	105000.00
35.00	3500.00	60.00	6000.00	40.00	4000.00
55.00	2750.00	90.00	4500.00	50.00	2500.00
65.00	19500.00	100.00	30000.00	60.00	18000.00
250.00	5000.00	100.00	2000.00	400.00	8000.00
300.00	1200.00	200.00	800.00	500.00	2000.00
400.00	1600.00	450.00	1800.00	600.00	2400.00
800.00	6400.00	550.00	4400.00	700.00	5600.00
1200.00	31200.00	900.00	23400.00	800.00	20800.00
6500.00	32500.00	15000.00	75000.00	8000.00	40000.00

2750.00	RASS CONTRACT OR AND ENGINEERS
97500.00	RASS CONTRACT OR AND ENGINEERS

3500.00	RASS CONTRACT OR AND ENGINEERS
2500.00	ASIATIC TRADERS
18000.00	ASIATIC TRADERS

2000.00	L L Electericals
800.00	L L Electericals
1600.00	RASS CONTRACT OR AND ENGINEERS
4400.00	L L Electericals
20800.00	ASIATIC TRADERS

32500.00	RASS CONTRACT OR AND ENGINEERS
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4.10	Dismantling of the following existing old Electrical panels from old Power house and shifting to AAI dismantle yard/ designated space within the permises by using suitable crane, fork lift and special tools complete as per site requirement as required.		
4.10	MV Essential Panel	1.00	Nos
4.10	MV Non Essential Panel	1.00	Nos
4.10	DG AMF Panel	2.00	Nos
4.10	Capacitor Panel 160 KVAR	1.00	Nos
4.11	HT PANEL (Oil Type) 11 KV	4.00	Nos
4.11	Transformer 750 KVA, 11/0.433 KV or 33KV/11 KV	3.00	Nos
4.11	DG Set 320 KVA	1.00	Nos
5.00	Supply and laying of HT Cable		
5.01	Supply of 3 Core x 185 Sq. mm., 33 KV grade XLPE insulated & PVC sheathed, armoured, Aluminium conductor cable conforming to IS : 7098:1988 (Part II) with the upto date amendment complete as required.	2200.00	Mtr.
5.02	Supply of 125 MM outer dia (PE-100 grade PN 10 rated) HDPE pipe confirming to Indian Standard IS 4984:2016 with latest amendment,complete with all associated assessorries like end cap etc as per site requirement complete as required.	700.00	Mtr

5000.00	5000.00	25000.00	25000.00	20000.00	20000.00
5000.00	5000.00	25000.00	25000.00	30000.00	30000.00
5000.00	10000.00	25000.00	50000.00	10000.00	20000.00
5000.00	5000.00	25000.00	25000.00	5000.00	5000.00
10000.00	40000.00	25000.00	100000.00	15000.00	60000.00
15000.00	45000.00	50000.00	150000.00	20000.00	60000.00
15000.00	15000.00	25000.00	25000.00	40000.00	40000.00
1950.00	4290000.00	1800.00	3960000.00	1519.00	3341800.00
315.00	220500.00	10.00	7000.00	492.00	344400.00

5000.00	RASS CONTRACT OR AND ENGINEERS
5000.00	RASS CONTRACT OR AND ENGINEERS
10000.00	RASS CONTRACT OR AND ENGINEERS
5000.00	ASIATIC TRADERS, RASS CONTRACT OR AND ENGINEERS
40000.00	RASS CONTRACT OR AND ENGINEERS
45000.00	RASS CONTRACT OR AND ENGINEERS
15000.00	RASS CONTRACT OR AND ENGINEERS
3341800.00	ASIATIC TRADERS
7000.00	L L Electericals

5.03	Laying of 125 MM outer dia (PE-100 grade PN 10 rated) HDPE pipe in ground with depth not less than 1.20 mtr. and as per site requirement through Horizontal Direct Drilling method including jointing, fixing necessary accessories like end plugs, providing suitable size GI pull wire for pulling cables and provision of suitable size manholes with cover as per the requirement of site etc. as required.	1000.00	Mtr
5.04	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.		
5.04	Above 120 sq. mm and upto 400 sq. mm	1100.00	Mtr
5.05	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33KV grade of following size in the existing RCC/ HUME/ METAL/ HDPE pipe as required.		
5.05	Above 120 sq. mm and upto 400 sq. mm	1000.00	Mtr
5.06	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 33 KV grade as required :		
5.06	3 X 185 sq. mm	10.00	Set
5.07	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 33 KV grade as required :		
5.07	3 X 185 sq. mm	3.00	Set
6.00	Earthing		
6.01	Provision of Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	8.00	Set
6.02	Provision of Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	4.00	Set
6.03	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	50.00	Mtr

125.00	125000.00	10.00	10000.00	920.00	920000.00	10000.00	L L Electericals
325.00	357500.00	300.00	330000.00	400.00	440000.00	330000.00	L L Electericals
150.00	150000.00	250.00	250000.00	100.00	100000.00	100000.00	ASIATIC TRADERS
14500.00	145000.00	7200.00	72000.00	7000.00	70000.00	70000.00	ASIATIC TRADERS
28500.00	85500.00	8300.00	24900.00	25000.00	75000.00	24900.00	L L Electericals
8500.00	68000.00	7500.00	60000.00	10000.00	80000.00	60000.00	L L Electericals
16500.00	66000.00	9500.00	38000.00	20000.00	80000.00	38000.00	L L Electericals
225.00	11250.00	150.00	7500.00	200.00	10000.00	7500.00	L L Electericals

6.04	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	10.00	Mtr
6.05	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia medium class G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	20.00	Mtr
6.06	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia medium class G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	50.00	Mtr
6.07	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	40.00	Mtr.

925.00	9250.00	450.00	4500.00	1500.00	15000.00	4500.00	L L Electericals
525.00	10500.00	300.00	6000.00	700.00	14000.00	6000.00	L L Electericals
1400.00	70000.00	650.00	32500.00	2000.00	100000.00	32500.00	L L Electericals
1900.00	76000.00	900.00	36000.00	3000.00	120000.00	36000.00	L L Electericals

Total in Figures

35954900.00

40232550.00

43801810.00

Lowest Amount Quoted BY: RASS CONTRACTOR AND ENGINEERS(35954900.00)