



भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India

भाविप्रा/खजुराहो/वरि.प्र.(अभि०-विद्युत)/कार्यादेश सं.- 14/2020-21/563-71

दिनांक : 26.10.2020

सेवा में,

To,

मैसर्स वी-एड इन्फ्रा प्राइवेट लिमिटेड,
65 मलहोत्रा नगर, रोड नं. 1,
वी. के. आई. एरिया, सीकर रोड,
जयपुर-302039 (राजस्थान),

M/s V-Add Infra Private Limited,
65, Malhotra Nagar, Road No. 1,
V.K.I. Area, Sikar Road,
Jaipur-302039 (Rajasthan),

GST No. - 08AAGCV5283R1ZD

Pan No. - AAGCV5283R

TENDER ID: 2020_AAI_52547_1

Name of work: "Construction of New ATC Tower and Technical block at Khajuraho Airport.

Sub Head:- Supply, Installation, Testing and Commissioning of Substation Equipment, DG sets and other associated Works."

संदर्भ : 1. आपकी निविदा दिनांक. 24.09.2020

Ref: 1. Your tender Opened on 24.09.2020

महोदय/ Sir

- उपरोक्त कार्य की रुपये 2,78,66,700.00 (रुपये दो करोड़ अठहत्तर लाख छियासठ हजार सात सौ मात्र) (जी.एस.टी. रहित) की मद दर निविदा, जो कि कार्य की अनुमानित लागत रुपये 3,92,20,621.00 (रुपये तीन करोड़ बानवे लाख बीस हजार छह सौ इक्कीस मात्र) (जी.एस.टी. रहित) से 28.95% (अट्ठाईस दशमलव नौ पाँच प्रतिशत) कम है, आपके द्वारा निविदा प्रपत्र की अनुसूची में दर्शायी गयी मद दरों पर भरी गई है, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत की जाती है।

Your tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India at the item rates quoted by you totalling to Rs. 2,78,66,700.00 (Rupees Two Crore Seventy Eight Lakh Sixty Six Thousand Seven Hundred only) (Excluding GST) which is 28.95% (Twenty Eight point Nine Five percent) Below the Estimated cost put to the tender of Rs. 3,92,20,621.00 (Rupees Three Crore Ninety Two Lakh Twenty Thousand Six Hundred Twenty One only) (Excluding GST).

- वरिष्ठ प्रबन्धक (अभियांत्रिकी-विद्युत), भा.वि.प्रा., खजुराहो विमानक्षेत्र, खजुराहो इस कार्य के कार्य-प्रभारी अभियन्ता होंगे। आपसे अनुरोध है कि दिनांक 11 नवम्बर 2020 तक वरिष्ठ प्रबन्धक (अभियांत्रिकी-विद्युत), खजुराहो विमानक्षेत्र, खजुराहो के कार्यालय में उपस्थित होकर ठेका संविदा को हस्ताक्षरित कर पूर्ण करें। अनुबन्ध 100 रुपए के गैर न्यायीक स्टाम्प पेपर पर सम्पादित किया जाएगा, स्टाम्प पेपर की कीमत आपके द्वारा वहन की जाएगी।

Senior Manager (Engg-Elect), AAI, Khajuraho Airport, Khajuraho shall be the Engineer-in-charge of the work. You are requested to attend the office of the Senior Manager (Engg-Elect), AAI, Khajuraho Airport, Khajuraho by 11.11.2020 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100.00 (Rupee Hundred only) and the cost of stamp paper shall be borne by you.

- निविदा के साथ प्राप्त धरोहर राशि रुपये 7,84,412.00 (रुपये सात लाख चौरासी हजार चार सौ बारह मात्र) संविदा के जी. सी.सी. के खण्ड संख्या 1 (अ) के अनुसार धरोहर राशि का हिस्सा मानकर उसमें बदल दिया जाएगा। कृपया शेष धरोहर राशि रुपये 20,02,258.00 (रुपये बीस लाख दो हजार दो सौ अट्ठावन मात्र) इस पत्र के निर्गत दिनांक से 10 दिनों के

कार्यालय - मिश्रक विमानपत्तन, बागर विमानक्षेत्र, खजुराहो, छत्तरपुर (म० प्र०) - 471606

दूरभाष - (07686) 272805, 274767, 274041, फैक्स-272810, 274765

Office of the Airport Controller, Civil Aerodrome, Khajuraho, Chhatrapur, (MP)-471606

Ph. (07686) 272805, 274767, 274041 Fax- 272810, 274765

"हिन्दी पत्रों का स्वागत है।"

भीतर जमा करें अन्यथा उक्त धनराशि की कटौती संविदा प्रपत्र की उक्त संदर्भित शर्त के अनुसार चालू लेखा बिलों से की जाएगी, जैसा कि आपके संविदा दस्तावेज में जी.सी.सी. के खण्ड संख्या 1(अ) में दिया गया है।

The earnest money amount of **Rs. 7,84,412.00 (Seven Lakh Eighty Four Thousand Four Hundred Twelve Only)** received along with your tender will be treated and converted as a part of security deposit as per condition of GCC Clause no. 1 (A) of the contract document. Please deposit **Rs. 20,02,258.00 (Rupees Twenty Lakh Two Thousand Two Hundred Fifty Eight Only)**, towards security deposit within **10 days** from the date of issue of this letter, failing which the same will be deducted as per Condition of **GCC Clause no. 1 (A)** of the contract document.

4. आपसे अनुरोध है कि संविदा श्रमिक प्रावधान (विनियम एवं उन्मूलन) 1970 श्रमिक प्रावधान (विनियम एवं उन्मूलन)-केन्द्रीय नियम 1971, न्यूनतम मजदूरी अधिनियम एवं इस सम्बन्ध में केन्द्र/राज्य सरकार के नियमों का पालन करना सुनिश्चित करें। You are requested to comply with the provisions of Contract Labour (Regulation & Abolition) Act of 1970 and Contract Labour (Regulation & Abolition) Central rules 1971 and Minimum Wages Act & Rules thereof Central and State Governments with upto date amendments.

5. आपको निर्देशित किया जाता है कि आप तुरन्त प्रभाव से प्रबन्धक (अभि-विद्युत), खजुराहो विमानक्षेत्र, खजुराहो से सम्पर्क करें जो आपको कार्यस्थल सौंपने की व्यवस्था करेंगे।

You are also directed to contact the Manager (Engg-Elect), Khajuraho Airport, Khajuraho, immediately who will arrange to hand over the site to you.

- 6- कृपया ध्यान दें कि कार्य पूर्ण करने की अवधि **06 माह** है जो कि कार्यादेश जारी दिनांक के दस दिन बाद से प्रभावी मानी जाएगी एवं कार्य की दोष दायित्व अवधि **12 माह** मानी जाएगी।

Please note that time allowed for carrying out the work shall be **06 Months** and the same shall be reckoned from 10 days after issue of work order and work defect liability period of **12 Month** shall be deemed.

7. संविदा के सन्दर्भ में किसी प्रकार का पत्राचार सामान्यतः वरिष्ठ प्रबन्धक (अभि-विद्युत), खजुराहो विमानक्षेत्र, खजुराहो को सम्बोधित करें।

Any further correspondence in connection with the contract should normally be addressed to the Senior Manager (Engg-Elect), Khajuraho Airport, Khajuraho.

8. कृपया इस पत्र की पावती भेजें एवं पत्र कि अनुलिपि जो कि संलग्न है को हस्ताक्षरित कर अधोहस्ताक्षरी को स्वीकृत चिह्न के रूप में वापस करें।

Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.

9. मूल प्रति/बिल जमा करने पर जी. एस. टी. देय होगा।

GST will be reimbursed on actual basis on submission of documentary evidence

संलग्नक/Enclosures

1- मात्रा अनुसूची / Schedule of Quantities.

Amrta Jale
26/10/2020

वरिष्ठ प्रबंधक(अभि-विद्युत)
Senior Manager (Engg-E)

खजुराहो हवाई अड्डा

Khajuraho Airport,

कृते तथा ओर से अध्यक्ष

For and on behalf of the Chairman

भारतीय विमानपत्तन प्राधिकरण

Airports Authority of India

कार्यालय - नियंत्रक विमानपत्तन, नागर विमानक्षेत्र, खजुराहो, छत्तापूर (म.प्र.) - 471606

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"हिन्दी पत्रों का स्वागत है।"

आन्तरिक प्रतिलिपि -

1. विमानपत्तन निदेशक , भा.वि.प्रा., खजुराहो हवाई अड्डा।
Airport Director, AAI, Khajuraho Airport.
2. उप महाप्रबंधक (अभि-सिविल), भा.वि.प्रा., खजुराहो हवाई अड्डा, खजुराहो।
D.G.M. (Engg-C), AAI, Khajuraho Airport, Khajuraho
3. प्रबंधक (वित्त), भा.वि.प्रा., खजुराहो हवाई अड्डा।
Manager (Fin.), AAI, Khajuraho Airport
4. प्रबंधक (अभि-विधुत) , भा.वि.प्रा., खजुराहो हवाई अड्डा।
Manager (E-E), AAI, Khajuraho Airport
5. करारनामा प्रतिलिपि।
Agreement Copy.
6. कार्य आदेश फाईल।
Work order File.

बाह्य प्रतिलिपि-

7. महाप्रबंधक (अभि-विधुत), भा.वि.प्रा., उ. क्षेत्र, प्रचालन कार्यालय, गुरुग्राम रोड, रंगपुरी, नई दिल्ली।
G.M. (Engg-E), AAI, NR, Operational offices, Gurugram Road, Rangpuri, New Delhi
8. उप महाप्रबंधक (अभि-विधुत), भा.वि.प्रा., उ. क्षेत्र, प्रचालन कार्यालय, गुरुग्राम रोड, रंगपुरी, नई दिल्ली।
D.G.M. (Engg-E), AAI, NR, Operational offices, Gurugram Road, Rangpuri, New Delhi

Amr Singh
26/10/2020

वरिष्ठ प्रबंधक(अभि-विधुत)
Senior Manager (Engg-E)
खजुराहो हवाई अड्डा
Khajuraho Airport,
कृते तथा ओर से अध्यक्ष

For and on behalf of the Chairman
भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India

Schedule of Quantity

NAME OF WORK:- Construction of New ATC Tower and Technical block at Khajuraho Airport.

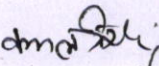
SH:-Supply,Installation,Testing and Commissioning of Substation Equipment, DG sets and other associated Works.

Tender ID-2020_AAI_52547_1

Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	SH-I (1)	SUBSTATION EQUIPMENTS				
1	1.1	33 kV SWITCH BOARD				
		33 kV HT Panel				
	(a)	Supply, Installation, Testing and Commissioning of indoor type, floor mounted, metal clad, 33 kV, VCB Panel having totally enclosed, horizontal draw out, horizontal / Vertical isolation type breaker as per IS 13118, as amended up to date and additional specifications, having capacities as mentioned below, single break, trip free mechanism, electrical spring charging with manual charging provision and closing breaker suitable for use on 33 kV, 3Phase, 50Hz A.C. supply with short circuit fault level of 300 MVA, complete with self contained electrically interlocked, rack in and rack out mechanism, air insulated, copper bus bars with PVC Sleeves of 630Amp capacity, breaker featured with mechanical ON/ OFF indicator with hand trip device, spring release coil, shunt trip coil and auxiliary switch of 8NO + 8NC and equipped with following switchgears and accessories incomer connections suitable for 3Cx 185 sq.mm. XLPE 33 KV cable (cable entry from bottom, end termination with heat shrinkable jointing material etc. as required. Adequate space to be provided in the HT cable entry chamber for accommodating HT end termination. (Note - Cost of HT end terminations are not included in this item.)				

amr 2020/10/25

Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	b)	INCOMER- 1No.each consisting of following - i) 1 No. 630 Amp. VCB (33 KV, 26.3 KA) with earth switch. ii) R,Y,B LED indication lamps for incoming supply. iii) 1 set(3 nos single phase) 33 kV/110Volts PT Class 0.5 accuracy and 100VA burden with 1 No. Voltmeter , Frequency meter digital types, and protection fuse and MCB for HT/LT side, metering up to 33 kV with 3 phase voltage selection. iv) 1 No. 0-200 Amps digital ammeter Class 0.5 accuracy with 3 phase current selection. v) 1 No. Microprocessor based numerical communicable relay with O/L, E/F and S/C /OV/UV protection compatible for communication. vi) Suitable resin cast ,dual core, dual ratio current transformers of 15VA burden and accuracy Class 0.5 for metering and class 5P10 for protection. vii) Breaker control switch. viii) 230 V AC spring charging motor. ix) 24V DC for shunt trip and Closing coil. x) Set of ON/OFF/TRIP/SPRING CHARGE LED indicating lamps. xi) Clear LED lamp for Trip Circuit healthy supply. xii) Trip Circuit supervision relay. xiii) Electro Mechanical type Master Trip Relay. xiv) Digital electronic Trivector meter with RS 485 port. xv) Required Space heater suitable for working in 230V, AC supply with temperature adjusting thermostat and MCB back up. xvi) Inspection light suitable for working in 230V AC supply with door operating switch.				


 9/10/2018

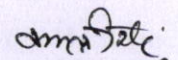
Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	(C)	OUTGOING - 3 Nos (Each outgoing consisting of following)- i) 1 No. 630 Amp. VCB(33 KV, 26.3 KA) with earth switch. ii) 1 No. 0-100 Amps digital ammeter Class 0.5 accuracy with 3 phase current selection. iii) 1 No. Microprocessor based numerical relay with O/L, E/F and S/C protection compatible for communication. iv) Suitable resin cast ,dual core ,dual ratio current transformers of 15VA burden and accuracy Class -0.5 for metering and class 5P10 for protection. v) Breaker control switch vi) 230 V AC spring charging motor vii) 24V DC for shunt trip and Closing coil. viii) Set of ON/OFF/TRIP/SPRING CHARGE/Emergency OFF LED indicating lamps.12 window Annunciator panel showing indications such as Bucholz alarm, trip, oil temp alarm, trip, winding temp with alarm, trip, master trip, Hooter acknowledge, reset etc. ix) Clear lamp for Trip Circuit healthy supply. x) Aux. relays for Anti Pumping & indication. xi) Trip Circuit supervision relay. xii) Electro Mechanical type Master Trip Relay xiii) Digital electronic Trivector meter with RS 485 port. xiv) Inspection light suitable for working in 230V AC supply with door operating switch. xv) Hooter (common for complete panel) xvi) Required Space heater suitable for working in 230V, AC supply with temperature adjusting thermostat and MCB back up.	Job	1	1567089.15	1567089.15

amr
9/2/18

Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
2	1.2	TRANSFORMERS				
	a)	33/ 0.433 KV INDOOR TYPE TRANSFORMER (OIL FILLED NATURAL COOLED)				
		Supply, Installation, Testing & Commissioning of indoor, ONAN, 1000 kVA, 33 KV/0.433 kV 3 Phase, 50Hz, Dyn 11, vector group, copper wound class A insulation, distribution transformer associated with winding, oil temperature indicators, Transformer with impedance as per IS, tapping for on Load Tap changing operation from + 5% to -10% in steps of 1.25% on HV side, including Remote Tap Changing (RTCC) having cable end boxes on HV side suitable for 3 x 185 sq.mm. XLPE cable of 33 kV grade and 1600 Amp. bus trunking arrangement of LV side with neutral, all standard accessories, initial filling of transformer oil, supplying and grouting of suitable MS 'C class' channels with wheel locking arrangement and conforming to IS 2026 & 11171 : 1985, supplying and providing emergency switch for tripping HT VCB & as per specification attached complete in all respects etc as required at site.	Job	1	1120378.68	1120378.68
3	1.3	<u>DG SETS & ACCESSORIES</u>				
		Supply, Installation, Testing and commissioning of 750 KVA D.G set with acoustic enclosure conforming to latest environment protection regulations for emission and noise levels complete with Diesel Engine of suitable BHP (considering de-rating factor if any) at 1500 RPM, water cooled, (Radiator type), four stroke electric strat, turbo-charged & after cooled conforming to BS: 5514 with all standard accessories, coupled with Alternator of 750 KVA rating (minimum), brushless, self excited, self regulated and suitable for continuous operation at 1500 RPM, generating 415 V+/-5% Volt at 0.8 PF (lag), 50Hz, 3 phase, 4 wire system generally conforming to BS: 2613 & IS: 4722. Both Engine and Alternator shall be mounted on common channel iron base frame, with fuel pipe line upto 10 meter (to be concealed under floor), exhaust pipe line upto 15 meter (to be erected with sufficient M.S support and insulated, hood on top), Antivibration mounting, residential type silencer, electric starter, batteries & battery charger, fuel tank of 990 ltrs. Capacity with level indicator, other standard accessories etc complete as required. (Refer Technical specification)	Job	2	2863990.52	5727981.04

amr
06/01/16

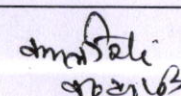
Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
4	1.4	SANDWICH BUS DUCT				
		Supply, Installation, Testing and Commissioning pre- fabricated sandwich TPN(R,Y,B,N having same current rating) bus trunking suitable for 3 Phase 4 wire, 433 V, 50 Hz AC supply system of aluminium bus bars of rating as specified below complete with bends, expansion joints, flanges, flexible end connections, horizontal supports & fire barriers. Bus trunking system shall be made out of 16 SWG CRCA sheet steel/extruded aluminium sheet powder coated enclosure minimum IP 54 protection . Earthing with 2 runs of aluminium earth strips of suitable size for fault current for 1 second etc including necessary supports, painting etc as per specifications. (Note: The bus trunking shall be measured along the centre line length of enclosure. The aluminium strips which will go inside LT panels & end termination box of transformers shall not be taken into measurement of bus trunking quantity).				
	a)	1600 Amp TPN Bus Duct	Meter	30	20894.52	626835.60
5	1.5	<u>AMF CUM MAIN LT PANEL</u>				
		Supply, Installation, Testing and Commissioning of AMF CUM Main LT panel cubicle type, made out of 14 swg CRCA sheet steel, totally enclosed,dust and vermin proof; IP 42 protection, free floor standing, indoor, compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415v, 50 Hz AC supply, 50KA, system with busbars extensible on both sides, providing required inter connection by armoured copper control cables from DG sets to AMF, interconnections within the panel by providing 2.5 sqmm size of FRLS copper wire, control circuit with necessary ACB, MCCB breakers(Icu = Isc), breaker control switch & auto/ manual AMF logic, selector switch, spring charging indication, electrical interlocking with following accessories and as per SLD drawing , technical specifications etc as required.				


 08/04/23

Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	a)	INCOMER 1600A FP EDO ACB 50KA TRANSFORMER INCOMER i) ACB, 1600 Amps, 4 pole, EDO type , 50KA, microprocessor based O/C,S/C & E/F Protection, Safety shutter, 3NO+3NC Aux. Contact & Trip Contacts, Shunt Release, Under Voltage Release. release, Motor wound spring charged, closing mechanism, - 02 Nos. ii) Breaker Control Switch TNC 16A -2 Nos. iii) Phase Indicating Lamp LED (Red) 230 V ac -2 Nos. iv) Phase Indicating Lamp LED (Yellow) 230 V ac -2 Nos. v) Phase Indicating Lamp LED (Blue) 230 V ac -2 Nos. vi) Digital Ammeter with built in selector switch for above rating CL-1.0, 96 x 96 sqmm - 2 Nos. vii) Digital Voltmeter with built in selector switch for above rating CL-1.0, 96 x 96 sqmm - 2 Nos. viii) Metering CTs 1600/5A, CL-1, 15 VA, Epoxy Cast Resin. - 6 Nos. ix) Metering CTs 1600/5A, CL-1, 15 VA, Epoxy Cast Resin for APFC - 2 Nos. x) 2A, SP MCB 10 KA for Cont. Ckt. -12Nos. xi) 6A Neutral Link Dropout Type.-4 Nos.				
	b)	INCOMER 1250A FP EDO ACB 50KA DG INCOMER i) ACB, 1250 Amps, 4 pole, EDO type ,50KA, microprocessor based O/C,S/C & E/F Protection, Safety shutter, 3NO+3NC Aux. Contact & Trip Contacts, Shunt Release, Under Voltage Release. release, Motor wound spring charged,closing mechanism, - 02 Nos. ii) Breaker Control Switch TNC 16A -2 Nos. iii) Phase Indicating Lamp LED (Red) 230 V ac -2 Nos. iv) Phase Indicating Lamp LED (Yellow) 230 V ac -2 Nos. v) Phase Indicating Lamp LED (Blue) 230 V ac -2 Nos. vi) Digital Ammeter with built in selector switch for above rating CL-1.0, 96 x 96 sqmm - 2 Nos. vii) Digital Voltmeter with built in selector switch for above rating CL-1.0, 96 x 96 sqmm - 2 Nos. viii) Metering CTs 1250/5A, CL-1, 15 VA, Epoxy Cast Resin. - 6 Nos. ix) 2A, SP MCB 10 KA for Cont. Ckt. -12Nos. x) 6A Neutral Link Dropout Type. -4 Nos.				

and Sri
07/20/18

Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	c)	AMF CONTROL LOGIC FOR 2 DG SETS 1) AMF Control Logic Relay - 2 Nos. 2) Engine Start Relay 24V DC with 3:attempts for Starting - 2 Nos. 3) Engine Stop Relay 24V DC with 3:attempts for Stopping - 2 Nos. 4) Mains Supply Voltage Sensing Relay - 2 Nos. 5) Gen. Voltage & Frequency Sensing Relay - 2 Nos. 6) 24Vdc Hooter / Buzzer - 2 Nos. 7) Emergency Push Button with Mushroom Head Type - 2 Nos. 8) Auto/Manual Selector Switch, 2Pole 2way with Off - 2 Nos. 9) Engine Start Push Button Green with 1NO Contacts - 2 Nos. 10) Engine Stop Push Button Red with 1NC Contacts - 2 Nos. 11) Engine 'ON' Status Indicating Lamp LED Type - 2 Nos. 12) Control Supply 'ON' Status Indicating Lamp LED Type - 2 Nos. 13) 6-Window Annunciator - 2 Nos. 14) Ann. Test / Accept / Reset Push Button-6 Nos. 15) Aux. 8-Pin Control Relay with Base Coil-12 Nos. 16) Aux. Contactors with 2NO+2NC Contacts, Aux, Supply - 230Vac,-4 Nos. 17) 240V AC Input, 24V DC/12A Battery Charger - 2 Nos. 18) Ammeter DC 0-25A 96 sqmm Digital type - 2 Nos. 19) Voltmeter DC 0-50V 96 sqmm Digital type - 2 Nos. 20) 6A DP 10KA MCB for Control-8 Nos. 21) 6A SP 10KA MCB for Control-8 Nos. 22) 6A Neutral Link Dropout Type,-4 Nos.				
	d)	BUS COUPLER i) ACB, 1600Amps, 4 pole, EDO type , 50KA, microprocessor based O/C,S/C & E/F Protection Rel., Safety shutter, 4NO+4NC Aux. Contact, Charging Motor-230Vac, Shunt Release.-01 Sets ii) Breaker Control Switch TNC 16A- 1 Nos. iii) Breaker 'ON' Status Indicating Lamp LED (Red) 24 V dc.-1 Nos. iv) Breaker 'OFF' Status Indicating Lamp LED(Green) 24 V dc.-1 Nos. v) Breaker 'TRIP' Status Indicating Lamp LED(Amber) 24 V dc.-1 Nos. vi) Aux. Contactors with 2NO+2NC Contacts, MX0 ,Aux, Supply-230Vac.-3 Nos. vii) Auto/Manual Selector Switch, 1 Pole 2 Way with Off.-1 Nos. viii) 2A, SP MCB 10 KA for Cont. Ckt.-1 Nos. ix) 6A Neutral Link Dropout Type.-1 Nos. x) Mechanical Interlocking.- 1 Nos.				


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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	e)	1600A TPN 50KA ALUMINIUM BUSBAR				
	f)	OUT GOINGS i) ACB, 800 Amps, 4 pole,50KA, microprocessor release, Motor wound spring charged,closing mechanism, Drawout type, red LED ON indication with back up HRC fuse - 05 Nos. ii) ACB, 630 Amps, 4 pole,50KA, microprocessor release, Motor wound spring charged,closing mechanism, Drawout type , red LED ON indication with back up HRC fuse - 02 Nos. iii) MCCB,4 Pole, 400 Amp, with Thermal magnetic based release ,50KA, red LED ON indication with 2A MCB, extended terminal and rotary handle - 05 Nos. iv) MCCB,4 Pole, 63 Amp, with Thermal magnetic based release ,35KA, red LED ON indication with 2 A MCB, extended terminal and rotary handle - 03 Nos.				
	g)	PANEL ILLUMINATION LIGHT/HEATER CKT. 1) 2A, SP MCB 10KA for Cont. Ckt -10 Nos. 2) 6A Neutral Link Dropout Type -10 Nos. 3) Illumination Light Holder -10 Nos. 4) Door Switch 1COS -10 Nos. 5) Space Heater 230Vac -10 Nos. 6) Thermostat (05-75 Degree Centigrade -10 Nos.	Job	1	1984979.60	1984979.60
6	1.6	SUB MAIN L.T. PANEL				
		Supply, Installation, Testing and Commissioning of LT panel cubicle type, made out of 14 swg CRCA sheet steel, totally enclosed,dust and vermin proof; IP 42, protection, free floor standing, indoor compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415v, 50 Hz AC supply, 35KA, system with busbars extensible on both sides, interconnections within the panel by providing 1.5sqmm/2.5sqmm size of FRLS copper wire, control circuit with necessary MCCB breakers(Icu = Isc),mechanical castle key interlocking for incomer MCCBs with following accessories and as per SLD drawing , technical specifications etc as required.				

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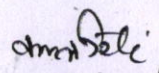
Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	a)	INCOMER i) MCCB,4 Pole, 400 Amps(Thermal release settigs 350-400Amps),35KA, with extended terminal and rotary handle with castle key mechanical interlocks,red LED on indication with HRC fuse back up - 1 set. ii) Digital Voltmeter suitable range for 3 phase, 4 wire with LED display and selector switch along with MCB back up- 01 Set. iii) LED Indication Lamps, R.Y.B - 01 Set iv) Digital Ammeter of suitable range (to measure 0-400 Amp), for 3 phase 4 wire with LED display and selector switch and 3 nos class 1.0, 15 VA suitable range, epoxy CTs 400/5 A - 1 set.				
	b)	BUS BAR i) One set of 500 Amp. R,Y,B,N aluminium bus bars of suitable rupturing capacity.				
	c)	OUTGOING i) MCCB,4 Pole, 100 Amp(Thermal release settigs 80-100Amps) ,35KA,red LED ON indication with HRC fuse back upwith extended terminal and rotary handle - 04 sets. ii) MCCB,4 Pole, 63 Amp(Thermal release settigs 50-63Amps) ,35KA, red LED ON indication with HRC fuse back upwith extended terminal and rotary handle -04 sets. iii) 1 Set of Space heater with suitable MCB,thermostat for sensing and control .	Job	2	126087.62	252175.24
7	1.7	GLF L.T. PANEL				
		Supply, Installation, Testing and Commissioning of LT panel cubicle type, made out of 14 swg CRCA sheet steel, totally enclosed, dust and vermin proof; IP 42, protection, free floor standing, indoor compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415v, 50 Hz AC supply,35KA, system with busbars extensible on both sides, interconnections within the panel by providing 2.5sqmm size of FRLS copper wire, control circuit with necessary MCCB breakers(Icu = Isc),mechanical castle key interlocking for incomer MCCBs with following accessories and as per SLD drawing , technical specifications etc as required.				

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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	a)	INCOMER i) MCCB,4 Pole, 400 Amps(Thermal release settigs 350-400Amps), 35KA, with extended terminal and rotary handle with castle key mechanical interlocks, red LED on indication with HRC fuse back up - 02 set. ii) Digital Voltmeter suitable range for 3 phase, 4 wire with LED display and selector switch along with MCB back up- 01 Set. iii) LED Indication Lamps, R.Y.B - 01 Set iv) Digital Ammeter of suitable range (to measure 0-400 Amp), for 3 phase 4 wire with LED display and selector switch and 3 nos. class 1.0, 15 VA suitable range, epoxy CTs 400/5 A- 1 set.				
	b)	BUS BAR i) One set of 500 Amp. R,Y,B,N aluminium bus bars of suitable rupturing capacity.				
	c)	OUTGOING i) MCCB,4 Pole, 125 Amp(Thermal release settigs 80-125Amps) ,35KA, red LED ON indication with HRC fuse back upwith extended terminal and rotary handle - 04 sets. ii) MCCB,4 Pole, 100 Amp(Thermal release settigs 80-100Amps) , 35KA, red LED ON indication with HRC fuse back upwith extended terminal and rotary handle - 07 sets. iii) MCCB,4 Pole, 63 Amp(Thermal release settigs 50-63Amps) ,35KA, red LED ON indication with HRC fuse back upwith extended terminal and rotary handle -04 sets. iv) 1 Set of Space heater with suitable MCB,thermostat for sensing and control.	Job	1	212547.72	212547.72
8	1.8	450KVAR CAPACITOR PANEL				
		Supply, Installation, Testing and Commissioning of Automatic Power Factor Control Panel 450 kVAR , 3ph, 415V, totally enclosed, free standing, floor mounting, dust and vermin proof, cubicle type to be fabricated out of 14 guage CRCA Sheet steel, with auto/manual selection of operation, provision for capacitor mounted inside the panel with Busbars, interconnections, adequate number of louvers and powder coated with approved shade including supply & installation of following components and as per technical specifications:				

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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	a)	INCOMER i) ACB, 630 Amps, 4 pole, EDO type ,50KA, microprocessor based O/C,S/C & E/F Protection, Safety shutter, 3NO+3NC Aux. Contact & Trip Contacts, Shunt Release, - 01 Nos. Breaker Controal Switch TNC 16A-1 No. ii) Phase Indicating Lamps (Red) 230Vac-1 No. iii) Phase Indicating Lamps (Yellow) 230Vac-1 No. iv) Phase Indicating Lamps (Blue) 230Vac-1 No. v) Breaker 'ON' Status Indicating Lamp LED Type , Red-24Vdc-1 No. vi) Digital Ammeter with built in selector switch for above rating CL-1.0, 96 x 96 sqmm -1 No. vii) Digital Voltmeter with built in selector switch for above rating CL-1.0, 96 x 96 sqmm - 1 No. viii) Metering CTs 600/5 ,CL-1 , 15VA, Epoxy Cast Resin, for APFC-3 Nos. ix) Aux. Contactors with 4NO+4NC Contacts,Aux. Supply- 230Vac.-4 Nos. x) 19 Stage APFC Relay, Sensing 415Vac, Digital PF Meter, CTR-/5A,144Sqmm Aux, Supply 415Vac, with Communication Port.-1 No. xi) Auto/Manual Selector Switch ,2 Pole 2 Way with Off.-1 No. xii) Off Delay Timer- 230Vac.-1 No. xiii) 2A, SP MCB 10 KA for Cont. Ckt.-6 Nos. xiv) 6A Neutral Link Dropout Type.-2 Nos. 800A TPN Aluminium Busbar				
	b)	1) 50 KVAR CAPACITOR BANK i) 160A 4P ,MCCB 35 KA Thermal Magnetic Based Release O/C & S/C Protection Release & Rotary Operating Handle.-5 Nos. ii) 160A TP AC-3 Duty Power Contactors with 2NO+2NC Aux. Contact.-5 Nos iii) 440Vac 50K VAR Capacitor Bank, MDXL BOX Type-5 Nos iv) Bank'ON' Status Indicating Lamp LED Type , Red-240Vac-5 Nos v) Bank'ON' Status Indicating Lamp LED Type ,Green-240Vac-5 Nos vi) A/M Selector Switch 2 Pole 2 Way with Off.-5 Nos vii) Push Button Start Green with 1NO Contacts.-5 Nos viii) Push Button Stop Red with 1NO+1NC Contacts.-5 Nos ix) 2A, SP MCB 10 KA for Cont. Ckt.-5 Nos				


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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	c)	2) 25 KVAR CAPACITOR BANK i) 125A 4P, MCCB 35 KA Thermal Magnetic Based Release O/C & S/C Protection Release & Rotary Operating Handle.-5 Nos. ii) 125A TP AC-3 Duty Power Contactors with 2NO+2NC Aux. Contact.-5 Nos iii) 440Vac 25KVAR Capacitor Bank, MDXL BOX Type-5 Nos iv) Bank'ON' Status Indicating Lamp LED Type , Red-240Vac-5 Nos v) Bank'ON' Status Indicating Lamp LED Type ,Green-240Vac-5 Nos vi) A/M Selector Switch 2 Pole 2 Way with Off.-5 Nos vii) Push Button Start Green with 1NO Contacts.-5 Nos viii) Push Button Stop Red with 1NO+1NC Contacts.-5 Nos ix) 2A, SP MCB 10 KA for Cont. Ckt.-5 Nos				
	d)	3) 12.5 KVAR CAPACITOR BANK i) 100 A 4P ,MCCB 35 KA Thermal Magnetic Based Release O/C & S/C Protection Release & Rotary Operating Handle.-4 Nos. ii) 100 A TP AC-3 Duty Power Contactors with 2NO+2NC Aux. Contact.-4 Nos iii) 440Vac 12.5 KVAR Capacitor Bank, MDXL BOX Type-4 Nos iv) Bank'ON' Status Indicating Lamp LED Type , Red-240Vac-4 Nos v) Bank'ON' Status Indicating Lamp LED Type ,Green-240Vac-4 Nos vi) A/M Selector Switch 2 Pole 2 Way with Off.-4 Nos vii) Push Button Start Green with 1NO Contacts.-4 Nos viii) Push Button Stop Red with 1NO+1NC Contacts.-4 Nos ix) 2A, SP MCB 10 KA for Cont. Ckt.-4 Nos				
	e)	4) 5 KVAR CAPACITOR BANK i) 40 A 4P, MCCB 35 KA Thermal Magnetic Based Release O/C & S/C Protection Release & Rotary Operating Handle.-5 Nos. ii) 40 A TP AC-3 Duty Power Contactors with 2NO+2NC Aux. Contact.-5 Nos iii) 440Vac 5 KVAR Capacitor Bank, MDXL BOX Type-5 Nos iv) Bank'ON' Status Indicating Lamp LED Type , Red-240Vac-5 Nos v) Bank'ON' Status Indicating Lamp LED Type ,Green-240Vac-5 Nos vi) A/M Selector Switch 2 Pole 2 Way with Off.-5 Nos vii) Push Button Start Green with 1NO Contacts.-5 Nos viii) Push Button Stop Red with 1NO+1NC Contacts.-5 Nos ix) 2A, SP MCB 10 KA for Cont. Ckt.-5 Nos				

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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	f)	5) PANEL ILLUMINATION LIGHT/HEATER CKT. i) 2A, SP MCB 10KA for Cont. Ckt -4 Nos. ii) 6A Neutral Link Dropout Type -4 Nos. iii) Illumination Light Holder -4 Nos. iv) Door Switch -4 Nos. v) Space Heater 230Vac -4 Nos. vi) Thermostat (05-75 Degree Centigrade -4 Nos.	Job	1	788948.32	788948.32
9	1.9	Constant Current Regulator (CCR)				
		SITC of FAA/ICAO compliant Indoor type Microprocessor based,Air cooled constant current regulator of Thyristor control electronic type suitable for use on 240/415 V AC, 50Hz input AC supply with output having 5 steps variation of current output suitable for local and remote control operation with 24/48 VDC control supply and able to communicate with PC or PLC controlled system with output current indicator on multifunction digital display, overcurrent, overvoltage,open circuit and earth fault protection and earth leakage meter, positive back indication equipments, hours run counter, LCD display, complete as required for the following rating.				
	a)	4 KW MPCCR at 6.6 Amp. Supply voltage 240 VAC	Job	6	126087.62	756525.72
	b)	30 KW MPCCR at 20 Amp. Supply voltage 415 VAC	Job	3	327827.84	983483.52
10	1.10	UPS For GLF Panel				
		Supply, installation, Testing and Commissioning of 80 KVA Capacity, 3 phase in / 3 Phase out online UPS in Stand alone configuration with double conversion PWM IGBT technology to drive constant current regulators & suitable for 100% unbalanced load.The UPS shall have built in automatic static by pass, active input power factor correction, phase sequence corrector, pure sine wave output. input-output isolation, built in isolation transformer compatibility with generator supply cold start capability, EMI/RFI noise filter advanced communication-RS232 or equivalent port and user friendly LCD display, suitable to operate at 415V, 50Hz, 3 Phase AC supply and delivering 2 phase & single phase loads with 3phase output and necessary safety protection etc as required as per AAI Technical Specification.The job also includes SITC of 12V, VRLA SMF batteries having backup time of minimum 30 minutes along with MS battery rack, connectors, wiring between battery bank and UPS with insulated copper conductor of required size as per site requirement etc. as required. (UPS & Batteries should be As per AAI Approved makes and Warranty on UPS and Battries should be for 02 Years.)	Job	2	1855289.45	3710578.90

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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
11	1.11	Street light feeder pillar Supplying, installation, testing and commissioning of Suitable size dust & vermin proof, out door type, floor mounted Feeder Pillar Panel on cement concrete/MS channel foundation, fabricated with 14 SWG CRCA Sheet and suitable size MS angle complete with detachable gland plate and front hinged door locking arrangement duly powder coated of approved shade as per manufacturer drawings/SLD, required MCB/Contractors/auto manual switch/MCB LED indicator lamp/Suitable capacity Busbar as require rating, accessories including connection, inter connection, wiring with minimum 2.5 sqmm flexible copper wire & provision for earth connection etc complete as required: Incomer i) 125 Amps, Four Pole MCCB having adjustable Thermal (80% - 100%) and adjustable Magnetic setting, breaking capacity Ics=100% of Icu at 415 V, 35 KA - 2 No. ii) Set of indication lamps, LED type , R, Y, B with HRC control fuse- 1 set Bus coupler (iii) 125 Amps, 35KA FP MCCB having adjustable Thermal (80% - 100%) and adjustable Magnetic setting, breaking capacity Ics=100% of Icu at 415 V, 35 KA - 1 No. Bus Bar iv) 250 Amps Aluminium busbar for phase and neutral - 1 Set Outgoing v) 6-32 Amps, TPN MCB - 14 Nos. vi) LED type indicating lamps with toggle switches.	Job	1	54037.54	54037.54
	SH-II (2)	CABLING,LAYING AND END TERMINATION				
12	2.1	Supplying of following sizes of aluminium conductor 33 KV grade earthed cable, screened with extruded semiconductor compound with copper tape , XLPE insulated PVC sheathed armoured cable confirming to IS 7098 Part-II-1988 with upto date ammendment as required.				
		3Cx185 Sq.mm.	Metre	1200	1271.67	1526004.00
13	2.2	Supply of LT power cable of 1.1 KV grade of following sizes aluminium conductor XLPE insulated PVC sheathed armoured cable confirming to IS 7098 Part-I-1988 with upto date ammendment as required.				
	a)	3.5C x 400 sq.mm	Metre	1100	933.04	1026344.00
	b)	3.5 Cx 150 sq.mm	Metre	3600	428.69	1543284.00
	c)	3.5C x 35 sq.mm	Metre	800	234.15	187320.00

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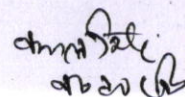
Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
14	2.3	Supply of Airfield copper conductor cable, PVC insulated, PVC sheathed unshielded, anti termite and anti rodent treated UG cable of 5 KV grade conforming to IS 1554 (Part II) as amended upto date etc as required.				
	a)	1 X 16 sq mm	Meter	8900	104.47	929783.00
	b)	2 x 16 sq mm	Meter	1200	241.37	289644.00
15	2.4	Laying of one number 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.				
		Above 120 sqmm & Upto 400 sq.mm.	Metre	45	360.25	16211.25
16	2.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
		Above 120 sqmm & Upto 400 sq.mm.	Metre	960	90.06	86457.60
17	2.6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 33 KV grade of following size in the existing masonry open duct as required.				
		Above 120 sqmm & Upto 400 sq.mm.	Metre	150	79.25	11887.50
18	2.7	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
	a)	Upto 35 sq.mm.	Metre	1500	234.16	351240.00
	b)	Above 95 sqmm & Upto 185 sq.mm.	Metre	1700	216.15	367455.00
	c)	Above 185 sqmm & Upto 400 sq.mm.	Metre	500	234.16	117080.00
19	2.8	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
	a)	Upto 35 sq.mm.	Metre	6600	126.09	832194.00
	b)	Above 95 sqmm & Upto 185 sq.mm.	Metre	1400	108.08	151312.00
	c)	Above 185 sqmm & Upto 400 sq.mm.	Metre	20	270.19	5403.80
20	2.9	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
	a)	Upto 35 sq.mm.	Metre	1000	21.62	21620.00

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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	b)	Above 95 sqmm & Upto 185 sq.mm.	Metre	250	36.03	9007.50
	c)	Above 185 sqmm & Upto 400 sq.mm.	Metre	870	64.85	56419.50
21	2.10	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.				
	a)	Upto 35 sq.mm.	Metre	650	14.41	9366.50
	b)	Above 95 sqmm & Upto 185 sq.mm.	Metre	180	36.03	6485.40
	c)	Above 185 sqmm & Upto 400 sq.mm.	Metre	4300	43.23	185889.00
22	2.11	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on surface as required.				
	a)	Upto 35 sq.mm.(clamped with 1mm thick saddle)	Metre	40	28.82	1152.80
	b)	Above 95 sqmm & Upto 185 sq.mm.(clamped with 25/40x3mm MS flat clamp)	Metre	30	57.64	1729.20
	c)	Above 185 sqmm & Upto 400 sq.mm.(clamped with 25/40x3mm MS flat clamp)	Metre	20	86.46	1729.20
23	2.12	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
	a)	Upto 35 sq.mm.(clamped with 1mm thick saddle)	Metre	550	21.62	11891.00
	b)	Above 95 sqmm & Upto 185 sq.mm.(clamped with 25/40x3mm MS flat clamp)	Metre	50	57.64	2882.00
	c)	Above 185 sqmm & Upto 400 sq.mm.(clamped with 25/40x3mm MS flat clamp)	Metre	100	86.46	8646.00
24	2.13	Supplying and making indoor cable end jointing with cast resin compound, including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 33 KV grade as required				
		3Cx185 Sq.mm.	set	8	3242.25	25938.00
25	2.14	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				
		3Cx185 Sq.mm.	set	4	7205.00	28820.00
26	2.15	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (cement:2 fine sand) including trenching and refilling etc as required.				
	a)	150 mm dia	Metre	150	252.18	37827.00
	b)	250 mm dia	Metre	1150	324.23	372864.50
	c)	300 mm dia	Metre	200	396.28	79256.00

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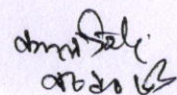
Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
27	2.16	Excavation for cable trenches in soft soil, depth upto 1.2 m including dressing of sides lift upto 1.5 m, including getting out the excavated soil, refilling with sand and or good soil after laying of cable/ pipe etc in layers of 20 cm, ramming, watering and disposal of surplus excavated soil as directed, within a lead of 50 metres.	Cum	50	360.25	18012.50
28	2.17	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				
	a)	3.5 C x 400 sq.mm	Set	28	720.50	20174.00
	b)	3.5 C x 150 sq.mm	Set	5	540.38	2701.90
	c)	3.5 C x 35 sq.mm	Set	30	252.18	7565.40
29	2.18	Supplying, laying, connecting,terminating, testing & commissioning of following sizes of PVC insulated, PVC sheathed armoured and overall PVC sleeved 1.1 KV grade control cables in pipe/ wall/racks/ cable trays, including, dressing, clamping with M.S Zinc passivated clamps etc as required conforming to relevant IS code and technical specifications.				
	a)	4C x 2.5 sq.mm	Metre	40	212.55	8502.00
	b)	12C x 2.5 sq mm	Metre	100	255.78	25578.00
	c)	61C x 2.5 sqmm	Metre	450	1116.78	502551.00
30	2.19	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray cable tray with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.				
	a)	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	50	360.25	18012.50
	b)	300mm width x 50 mm depth x 1.6 mm thickness	Metre	30	540.38	16211.40
31	2.20	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends " (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.				
	a)	150 mm width X 50 mm depth X 1.6 mm thickness	No.	2	1801.25	3602.50
	b)	300mm width x 50 mm depth x 1.6 mm thickness	No.	2	2521.75	5043.50
32	2.21	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.				


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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
	a)	150 mm width X 50 mm depth X 1.6 mm thickness	No.	2	1801.25	3602.50
	b)	300mm width x 50 mm depth x 1.6 mm thickness	No.	2	2521.75	5043.50
33	2.22	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Cross member" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.				
	a)	150 mm width X 50 mm depth X 1.6 mm thickness	No.	2	1801.25	3602.50
	b)	300mm width x 50 mm depth x 1.6 mm thickness	No.	2	2521.75	5043.50
34	2.23	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Reducer" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required.				
	a)	150 mm width X 50 mm depth X 1.6 mm thickness	No.	2	2521.75	5043.50
	b)	300mm width x 50 mm depth x 1.6 mm thickness	No.	2	3602.50	7205.00
35	2.24	Supplying and making straight through joint with cast resin compound 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.				
	(a)	3.5 C X 35 sq. mm	Set	1	1801.25	1801.25
	(b)	3.5 C X 120 sq. mm	Set	2	2521.75	5043.50
	(c)	3.5 C X 150 sq. mm	Set	5	2521.75	12608.75
	(d)	3.5C X 400 sq. mm	Set	5	3242.25	16211.25
36	2.25	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Job	10	18012.52	180125.20

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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
37	2.26	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.	Job	10	540.38	5403.80
38	2.27	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Job	5	504.35	2521.75
39	2.28	Excavation of the cable trenches in hard rock not exceeding 1.5 metres in width, and lift upto 1.5 metres, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 metres.	Cum	50	720.50	36025.00
	SH-III (3)	EARTHING AND LIGHTNING PROTECTION				
40	3.1	Earthing with copper earth plate 600mm x 600mm x 3.0mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt complete as required.	Set	6	12608.75	75652.50
41	3.2	Earthing with GI earth plate 600mm x 600mm x 6.0mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt complete as required .	Set	10	5403.75	54037.50
42	3.3	Providing & fixing of 25mm x 5mm copper strip in 40 mm dia GI Pipe from earth electrode as required.	Meter	20	1044.73	20894.60
43	3.4	Providing & fixing of 25mm x 5mm GI strip in 40 mm dia GI Pipe from earth electrode as required.	Meter	40	396.28	15851.20
44	3.5	Providing & fixing of 25mm x 5mm copper strip on surface or recess for earth connection as required.	Meter	80	756.53	60522.40
45	3.6	Providing & fixing of 25mm x 5mm GI strip on surface or recess for earth connection as required.	Meter	120	252.18	30261.60
46	3.7	Supply and drawing 6 SWG GI wire for loop earthing in surface / recess	Mtr	20000	25.22	504400.00
47	3.8	Providing & fixing of 50mm x 5mm copper strip on surface or recess for earth connection as required.	Mtr	40	1116.78	44671.20
48	3.9	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	Number	4	216.14	864.56

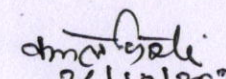

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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
49	3.10	Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required.	Job	4	180.12	720.48
50	3.11	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	Job	4	64.84	259.36
51	3.12	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	Mtrs	110	57.64	6340.40
52	3.13	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	Mtrs	35	57.64	2017.40
	SH-IV (4)	SAFETY EQUIPMENTS				
53	4.1	Supplying of Rubber hand gloves suitable for 33kV grade .	Each	2	432.30	864.60
54	4.2	Supplying and fixing of Shock treatment chart both in Hindi & English and framed with 5mm thick glass as required.	Each	2	216.15	432.30
55	4.3	Supplying and fixing of nominal 3.00mm +/- 10% thick, 1000mm wide Antistatic Electric Insulated Synthetic Mat confirming to IS: 15652: 2006 with upto date amendments suitable for 33KV installation alongwith adhesive/ resin, sealing material and similar type of taping on sealing at all joints and corners as per recommendations etc as required.	Sqm	15	576.38	8645.70
56	4.4	Supplying and fixing of nominal 2.00mm +/- 10% thick, 1000mm wide Antistatic Electric Insulated Synthetic Mat confirming to IS: 15652: 2006 with upto date amendments suitable for 3.3 KV installation alongwith adhesive/resin, sealing material and similar type of taping on sealing at all joints and corners as per recommendations etc as required.	Sqm	25	432.28	10807.00
57	4.5	Supply of First aid box containing material as prescribed by St. John Ambulance brigade OR Indian Red Cross complete as required.	No.	2	2521.75	5043.50
58	4.6	Supplying and fixing of Mechanical foam stored pressure type fire extinguisher 9 kgs. capacity of approved make with wheeled trolley as required conforming to IS: 15683.	No.	5	2017.38	10086.90
59	4.7	Supplying and fixing of fire bucket painted red and duly filled with sand conforming to IS: 2546-1974.	No.	8	129.68	1037.44
60	4.8	Supplying and fixing of MS stand suitable for supporting four buckets.	No.	2	648.44	1296.88

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Sr No.	ITEM NO.	DESCRIPTION OF ITEM	UNIT	QTY.	Rate	Amount
61	4.9	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	12	108.06	1296.72
62	4.10	Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Each	4	108.07	432.28
63	4.11	Supply of Electrical Tool Box of make Bosch/Taparia or its equivalent with complete tools like analog multimeter, screw driver with individual handle and arm provided kit, bit sets, ratchet handle screwdriver, allen key set of 12 pieces, nos. of combination plier, flat nose plier, wire stripper or wire cutter, ball pin handle with rubber handle, torch 9 pearl LED Flashlight, tester with neon bulb 500 v, masonry drill bit, file provided tool kit, branded S-plug, branded screw, knife blade, hand drill machine, soldering iron, end cutting nipper rubber gloves, hand saw etc as required per the manufacture standard.	Each	1	2161.50	2161.50
64	4.12	Providing and fixing Caution board notice plate of 300 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	No.	2	360.25	720.50
65	4.13	Supplying and fixing of Wall mounted wooden Key Board suitable with suitable dimension with 70 key pins etc as required.	No.	1	1441.00	1441.00
					Total	27866700.00
					Say Rs. (Excl. GST)	27866700.00

(Rupees Two Crore Seventy Eight Lakhs Sixty Six Thousand Seven Hundred only)


 26/10/2020
 वरिष्ठ प्रबंधक (अभि-विधुत)

भा. वि. प्रा. खजुराहो विमानतल, खजुराहो

Signature Not Verified

Digitally signed by RAVINDRA DINANATH NANDURKAR
 Date: 2020.10.26 16:02:19 IST
 Location: eProcurement System for Central PSUs

