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भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

क्रमांक एएआई/एसवीपी/इंजीनियरिंग(ई)/पुराने पावर हाउस का विस्तार/डब्ल्यू.ओ. - 15/2025-26/102 दिनांक: 17.11.2025
No. AAI/SVP/Engg(E)/Augmentation of Old Power House/W.O. - 15/2025-26/102 Date: 17.11.2025

को,
मैसर्स वी. के. सैम इंजीनियरिंग,
बी नंबर 5, राजीव गांधी नगर,
एक्कादुथंगल,
चेन्नई - 600032.
फ़ोन नंबर: 9381032182
ईमेल: vksam05@gmail.com

To,
M/s. V. K. Sam Engineering,
No. 5, Rajiv Gandhi Nagar,
Ekkaduthangal,
Chennai - 600032.
Ph No: 9381032182
Email: vksam05@gmail.com

कार्य का नाम: - वीएसआई हवाई अड्डा, श्री विजयपुरम में पुराने पावर हाउस का विस्तार।।
Name of work: - Augmentation of Old Power House at VSI Airport, Sri Vijaya Puram.

संदर्भ: आपकी ई-बोली (निविदा आईडी: 2025_AAI_247152_1), 27.10.2025 को खोली गई।
Reference: Your e-bid (Tender ID: 2025_AAI_247152_1), opened on 27.10.2025.

महोदया / महोदय Madam / Sir,

1. उपर्युक्त कार्य के लिए आपका ई-निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से, आपके द्वारा उद्धृत मद दरों पर कुल 4,27,73,408.00 रुपये (केवल चार करोड़ सत्ताईस लाख तिहत्तर हजार चार सौ आठ रुपये) जीएसटी को छोड़कर स्वीकार किया जाता है, जो कि निविदा में लगाई गई अनुमानित लागत 4,89,09,810.00 रुपये जीएसटी को छोड़कर से 12.55% कम है।

Your E-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totalling to Rs. 4,27,73,408.00 (Rupees Four Crore Twenty Seven Lakh Seventy Three Thousand Four Hundred and Eight only) excluding GST which is 12.55 % below the estimated cost put to tender of Rs. 4,89,09,810.00 excluding GST.

2. उप महाप्रबंधक (अभियांत्रिकी - विद्युत), वीएसआई एयरपोर्ट, श्री विजयपुरम इस कार्य के प्रभारी अभियंता होंगे। आपसे अनुरोध है कि आप अपने प्रतिनिधि को, जो आपकी ओर से अनुबंध अनुबंध पर हस्ताक्षर करने के लिए अधिकृत है, 01.12.2025 तक उप महाप्रबंधक (अभियांत्रिकी - विद्युत), वीएसआई एयरपोर्ट, श्री विजयपुरम के कार्यालय में उपस्थित होकर अनुबंध अनुबंध पर हस्ताक्षर और उसे पूरा करें। अनुबंध अनुबंध 100/- रुपये मूल्य के गैर-न्यायिक स्टाम्प पेपर पर निष्पादित किया जाएगा और इसकी लागत आपको वहन करनी होगी।

Dy. General Manager (Engg.-Elect), VSI Airport, Sri Vijaya Puram shall be the Engineer-In-Charge of the work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf to attend the office of the Dy. General Manager (Engg.-Elect), VSI Airport, Sri Vijaya Puram by 01.12.2025 to sign and complete contract agreement. The contract agreement shall be executed on a Non-Judicial Stamp Paper of value Rs. 100/- and the cost of the same shall be borne by you.

3. कृपया इस पत्र के जारी होने की तारीख से 10 दिनों के भीतर सुरक्षा जमा के रूप में 42,77,341.00 रुपये (बयालीस लाख सतहत्तर हजार तीन सौ इकतालीस रुपये मात्र) जमा करें, ऐसा न करने पर, अनुबंध दस्तावेज़ के खंड 1 (ए) के अनुसार आपके चालू बिलों से कटौती की जाएगी।

Please deposit Rs. 42,77,341.00 (Rupees Forty Two Lakh Seventy Seven thousand Three Hundred Forty One only) towards security deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from your running bills as per clause 1(A) of the contract document.

4. स्वीकृति पत्र जारी होने के 30 दिनों के भीतर, आपको एएआई को जीसीसी के क्लॉज नंबर 1 बी पेज नंबर 16 की शर्तों के अनुसार 49,78,825.00 रुपये (उनतालीस लाख अठहत्तर हजार आठ सौ पच्चीस रुपये केवल) की एक प्रदर्शन गारंटी परिशिष्ट - I ए, पेज नंबर अनुबंध की सामान्य शर्त (जीसीसी) - 95 पर संलग्न प्रोफार्मा पर बैंक गारंटी के रूप में जमा करनी

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होगी। 8.96 और पत्र प्रोफार्मा परिशिष्ट - आई डी, पृष्ठ संख्या के अनुसार प्रस्तुत किया जाना है। जीसीसी - 100। बैंक गारंटी खाते की जानकारी अनुबंध-आर पृष्ठ संख्या ए-49 में दी गई है और एसएफएमएस पुष्टिकरण पृष्ठ संख्या ए-49 और ए-50 के अनुसार है। बैंक गारंटी कवर संदेश का प्रसारण अनुबंध-एस पृष्ठ संख्या ए-51 के अनुसार बैंक को प्रस्तुत किया जाना है।

Within 30 days of issue of acceptance letter, you shall submit to AAI, a Performance Guarantee as per conditions of Clause No. 1 B Page No. 16 of GCC for an amount of Rs. 49,78,825.00 (Rupees Forty Nine Lakh Seventy Eight Thousand Eight Hundred and Twenty Five only) in the form in Bank Guarantee on the proforma appended at APPENDIX - I A, page no. General Condition of Contract (GCC) - 95 & 96 and letter to be submitted as per proforma APPENDIX - I D, page no. GCC - 100. Bank Guarantee account information given in Annexure-R page no. A- 49 and SFMS confirmation as per page no. A- 49 & A- 50. Transmission of Bank Guarantee cover message to be submitted to bank as per Annexure - S page no. A- 51.

5. आपसे अनुरोध है कि आप संविदा श्रम (विनियमन एवं उन्मूलन) अधिनियम 1970 तथा संविदा श्रम (विनियमन एवं उन्मूलन) केन्द्रीय नियम 1971, बाल श्रम (निषेध एवं विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार एवं सेवा शर्त विनियमन) अधिनियम 1996, भवन एवं अन्य निर्माण श्रमिक कल्याण उपकर अधिनियम 1996 के प्रावधानों का अनुपालन करें, जैसा कि निविदा अनुबंध की सामान्य शर्तों के खंड 19 में निर्दिष्ट है तथा न्यूनतम मजदूरी अधिनियम और केन्द्रीय एवं राज्य सरकारों के नियमों का अनुपालन करें।

You are requested to comply with the provision of Contract labour (Regulation and Abolition) Act 1970 and contract labour (Regulation and Abolition) Central rules 1971 Child Labour (Prohibition & Regulation) Act 1986, Construction Workers (Regulation of Employment and Condition of Service) Act 1996, Building and other construction Workers Welfare Cess Act 1996 as specified in Clause 19 of General Conditions of Contract of tender and minimum wages act and rules there of Central and State Governments.

6. आपको निर्देश दिया जाता है कि आप वरिष्ठ प्रबंधक (अभियांत्रिकी - विद्युत), एएआई, वीएसआई एयरपोर्ट, श्री विजयपुरम से तुरंत संपर्क करें, जो आपको साइट सौंपने की व्यवस्था करेंगे।

You are directed to contact Senior Manager (Engg.-Electrical), AAI, VSI Airport, Sri Vijaya Puram immediately who will arrange to hand over the site to you.

7. कृपया ध्यान दें कि कार्य को पूरा करने के लिए अनुमत समय 08 (आठ) महीने होगा और इसकी गणना इस पत्र के जारी होने के 10वें दिन से यानी 27.11.2025 से की जाएगी।

Please note that the time allowed for carrying out the work shall be 08 (Eight) Months and same shall be reckoned from the 10th day from issue of this letter i.e. from 27.11.2025.

8. अनुबंध के संबंध में कोई भी आगे का पत्राचार सामान्यतः उप महाप्रबंधक (अभियांत्रिकी - विद्युत), एएआई, वीएसआई एयरपोर्ट, श्री विजयपुरम - 744103 को संबोधित किया जाना चाहिए।

Any further correspondence in connection with the contract should normally be addressed to the Dy. General Manager (Engg.-Electrical), AAI, VSI Airport, Sri Vijaya Puram - 744103.

9. आपसे अनुरोध है कि आप जीएसटी अधिनियम के अनुसार वैध जीएसटी चालान प्रस्तुत करें, जिसमें जीएसटीआईएन का उल्लेख हो, जिसमें लागू जीएसटी दरें और इनपुट टैक्स क्रेडिट विवरण (यदि कोई हो) शामिल हो, ताकि बिलों के प्रसंस्करण के लिए एएआई, वीएसआई एयरपोर्ट, श्री विजयपुरम, जीएसटी संख्या 35AAACA6412D1ZB का उल्लेख हो।

You are requested to submit valid GST invoice as per GST act mentioning the GSTIN, including the GST rates applicable and input tax credit details if any for processing the bills mentioning the AAI, VSI Airport, Sri Vijaya Puram, GST No. 35AAACA6412D1ZB.

10. दोष दायित्व कार्य पूरा होने की वास्तविक तिथि से एक (1) वर्ष होगा।

The defect liability shall be One (1) Year from the actual date of completion of work.



11. ई-टेंडरिंग प्रक्रिया के दौरान उठाए गए सभी प्रश्न, स्पष्टीकरण आदि तथा जारी किए गए सभी शुद्धिपत्र सहित उनके उत्तर भी समझौते का हिस्सा होंगे।

All queries, clarification etc. raised its replies during e-tendering process and replies there of including all corrigendum issued shall also form part of the agreement.

12. कृपया रसीद स्वीकार करें और इसके साथ संलग्न इस पत्र की डुप्लिकेट प्रति हस्ताक्षर करने के बाद स्वीकृति के प्रतीक के रूप में अधोहस्ताक्षरी को लौटा दें।

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.

Note: If there is any discrepancy in Hindi and English Version of this letter or its part the corresponding English version shall be considered.

धन्यवाद / Thanking you,

आपका विश्वासी / Yours faithfully

संलग्न: मात्रा का बिल।

Encl: Bill of Quantities.


17/11/25

(अभिजीत दत्ता/ Abhijit Datta)

(प्रभारी अभियंता/Engineer-In-Charge)

उप महाप्रबंधक (अभियांत्रिकी - विद्युत) / Dy. GM (Engg-Elect),

(एएआई के अध्यक्ष की ओर से / For and on behalf of the Chairman, AAI)

ए.ए.आई, वी.एस.आई एयरपोर्ट, श्री विजयपुरम (पोर्ट ब्लेयर) -744103.

AAI, VSI Airport, Sri Vijaya Puram (Port Blair) -744103.

Validate

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Item Rate BoQ

Tender Inviting Authority: SENIOR MANAGER (ENGG-ELECTRICAL), AAI, VSI AIRPORT, SRI VIJAYA PURAM-744103.

Name of Work: Augmentation of Old Power House at VSI Airport, Sri Vijaya Puram.

Contract No: 2025_AAI_247152_1

Name of the Bidder/ Bidding Firm/ Company	V.K.SAM ENGINEERING					
<u>PRICE SCHEDULE</u>						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	SH-I: Supply of Sub-station Equipments					
1.01	Design, Fabrication and Supply of indoor type panels shall be constructed from CRCA steel sheet of 2 mm thickness, floor mounted metal enclosed, 11 KV VCB panel with 5 nos VCBs (2 INCOMER, 1 Bus Coupler with Riser & 2 OUTGOINGS), totally enclosed and fully interlocked, horizontal draw out, horizontal isolation type breaker as per IEC-62271-1,100,200, as amended up to date and additional specifications, having capacities as mentioned below, single break, trip free mechanism, manually charged and manually closing breaker suitable for use on 11 kV, 3 phase, 50 Hz A.C. supply with short circuit fault level of 26.3kA for 3 sec , Panel shall be full internal arc tested i.e. in all three chambers at 26.3kA for 1 sec for safety purpose (AFLR). complete with self contained, fully interlocked, rack in and rack out mechanism, air insulated HT sleeved (PVC sleeve is not accepted) self supported copper bus bars of 630 amps capacity, breaker featured with mechanical ON/ OFF indicator with hand trip coil and auxiliary switch of 4 NO+4NC and equipped with following switchgears and accessories. Make of Vacuum interrupter, circuit breaker, Panel, relays & meters shall be same. Cable compartment suitable for 2RX3C x 240 sq. mm XLPE 11 kV cable (Cable entry from bottom) end termination with heat shrinkable jointing material etc as reqd. There must be a viewing window on VCB chamber door and same must be as per Internal arc test report. The basic insulation level of entire panel shall be 28KV(RMS) / 75KV(Peak)					

NUMBER #	TEXT #	NUMBER R #	TEXT #	NUMBER #	NUMBER #	TEXT #
SL. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1.02	Incoming - 2 No- 630 Amp VCB and each shall be consisting of					
1.03	630 Amp VCB - 1 Nos					
1.04	11 KV / 110 Volts resin cast type PT Class 1 accuracy and 100 VA burden with 1 No. Voltmeter(0-15 KV), digital type selector switch for voltmeter and protection fuses / MCB for HT metering upto 12 KV on incomer. (0-50-100A) comply with IS 3156. PT must not be on the top of the panel. It must be floor rooled placed rear side of panel or on the CB trolley -1 Set.					
1.05	Digital type multi function meter and Digital type Ammeter & Voltmeter - 1 No.					
1.06	Flush mounted type Microprocessor based numercial IDMT relay (VCB Panel manufacturer's own Make) with O/L, E/L and S/C communicable on modbus protocol for protection and Status monitoring with Master trip and Trip Ckt Supervision relay. Relay shall have programable 4 digital Inputs and 6 outputs. -1 No.					
1.07	Dual core /single core separate sets, dual ratio 3 Nos. CTs 200-100/5+5A of 15 VA burden and accuracy class 1 for metering and class 5P10 for protection comply with IS 2705 - 1 Set					
1.08	R,Y,B ON, OFF, Trip Indication with Control MCB - 1 Set					
1.09	Annunciator -8 Window- 1Set					
1.1	ABT meter for power tarrif - 1 Set.					
1.11	Provision of power card/converter arrangments for 230V AC supply for feeding of HT panel internal controlling operation with 220 Volt AC input & 110V Volt DC continuous output suitable for closing / tripping / indication etc					
1.12	Bus Coupler with Riser - 1 No- 630 Amp VCB and each shall be consisting of					
1.13	630 Amp VCB - 1 Nos					
1.14	R,Y,B ON, OFF, Trip Indication with Control MCB - 1 Set					
1.15	Annunciator -8 Window- 1Set					
1.16	Electrical inter locking with both incomers & bus coupler					
1.17	Provision of power card/converter arrangments for 230V AC supply for feeding of HT panel internal controlling operation with 220 Volt AC input & 110V Volt DC continuous output suitable for closing / tripping / indication etc					

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1.18	Outgoing - 2 Nos- 630 Amp VCB and each shall be consisting of					
1.19	630 Amp VCB - 1 Nos					
1.2	Digital type multi function meter & Digital ammeter-1 Nos.					
1.21	Flush mounted type Microprocessor based numerical IDMT relay with O/L, E/L and S/C, Arc fault protection communicable on modbus protocol for protection and Status monitoring with Master trip and Trip Ckt Supervision relay. Relay shall have programable 4 digital Inputs and 6 outputs- 1 Nos.					
1.22	Dual core dual ratio 3 CTs 100-50/5 A of 15 VA burden and accuracy Class-1 for metering and class 5P10 for protection - 3 Nos.					
1.23	Annunciator -8 Window- 1 Nos					
1.24	Hooter - 1 Nos					
1.25	Flash mounted Aux. Relay as required for OTI, WTI & Buchloz Alarm & Trip functions					
1.26	Trip super vision Relay - 1 Nos.					
1.27	Provision of power card/converter arrangements for 230V AC supply for feeding of HT panel internal controlling operation with 220 Volt AC input & 110V Volt DC continuous output suitable for closing / tripping / indication etc					
1.28	COMPLETE ALL AS ABOVE 1.01 to 1.27	1.00	Job	3355600.00	3355600.00	INR Thirty Three Lakh Fifty Five Thousand Six Hundred & Paise Zero Only
2.00	Supply of 1000 kVA capacity (continuous loading) BEE 3 Star rated (Corresponding Level as per BIS amended upto date of receipt of tender) , 11/0.433 KV step down Transformer, 3 Phase, 50 Hz, Dyn 11 vector group, ONAN (Oil Natural Air Natural) copper wound transformer (Electrolytic grade 99.9% pure copper, Core made of first grade Cold Rolled Grain Oriented (CRGO) Core grade MOH or better, losses of the transformer shall not be more than 2.62 kW at 50% load and 7.00 kW at 100% load, 5% impedance, suitable for indoor applications with On Load Tap Changer (OLTC) on HV side having AVR relay and Remote Tap Changer Control (RTCC) for automatic sensing of incoming voltage, automatic operation of OLTC and facility for remote and manual operation of OLTC HV side in range of +5% to -15% in steps of 2.5%, having cable end boxes on HV side suitable for 3x 185 sqmm XLPE cable of 11 KV grade, including bus trunking arrangement on LV side including supplying and laying of copper conductor multicore control cable from transformer to HT breaker/panel for safety tripping, complete with all accessories and safety provisions as per relevant IS Code . The transformer should have QR code which should contain drawing, test report OEM manual,Geo- Tag of manufacturing location complete etc., as required.	2.00	Job	3478725.00	6957450.00	INR Sixty Nine Lakh Fifty Seven Thousand Four Hundred Fifty & Paise Zero Only

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
3.00	Main Non Essential L. T. Panel					
3.01	Design, Fabrication and Supply of Totally Type Tested Panels (Form -4B Construction) complying to IEC: 61439- 1/2 cubicle type LT panel, Panel shall be single tire ACB design to ensure easy maintenance & enough termination space, with minimum impact resistance IK09/IK10 as per IEC : 62262, Active Arc protection shall be considered with Arc Flash relays along with required sensores, Minimum IP42, suitable for 415V+/- 10%, 3 Phase, 4 wire 50 Hz AC supply system. Panel fabricated in compartmentalized modular design 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 7 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 , bottom base channel of MS section not less than 100 mm x 50 mm x 5 mm thick, fabrication shall be done inh of 4 NO+4NC and equipped with following switchgears and accessories. Make of Vacuum interrupter, circuit breaker, Panel, relays & meters shall be same. Cable compartment suitable for 2RX3C x 240 sq. mm XLPE 11 kV cable (Cable entry from bottom) end termination with heat shrinkable jointing material etc as reqd. There must be a viewing window on VCB chamber door and same must be as per Internal arc test report. The basic insulation level of entire panel shall be 28KV(RMS) / 75KV(Peak) Charge), having front section (switch gear and control accessories) and rear section (capacitor and reactor), front and rear access, having suitable current carrying capa					
3.02	Incomer from Transformer 1 & Transformer 2					
3.03	2 Nos. ACB, 2000 Amps, 50 kA, 4 Pole, Microprocessor release Horizontal draw out type of fault breaking capacity 50KA (Ics=Icu=Icw for 1.0 secs) Electrical Draw Out Motorized operated, fitted with interlocked door, automatic safety shutters, mechanical ON/OFF and service/ test/isolated position indicators and frame earthing contact, conforming to IS-60947-2 2003 as amended up-to- date complete with inbuilt LCD/LED display, Independent Electrical & manual spring closing mechanism, Microprocessor release (EMI & EMC certified) for over current (Phase & neutral), earth fault & short circuit protection, LSIG 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 suitable contacts (but 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 & Voltage Unbalance, etc. GF settings shall be from minimum 10% of the rated current of the ACB otherwise Electromechanical relay shall be used for Achiving minimum 10% setting.ACB LED/LCD display shall be with Current metering.ACB ON OFF TRIP status shall be provided through potential free contacts to BMS.					
3.04	All ACBs shall be provided with Mechanical Operation Counter, Door Interlock with Panel door					
3.05	Each Incomer shall have one set of the following items:					

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
3.06	1 set- Intelligent multi function digital meter to read V,A,kVA, KW, kVAR, PF, Hz etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order & maximum demand. LED display with required Nos CTs, 1000/5,15 VA, class 1.0 and control circuit wiring with 2 Amp MCB for controlling.					
3.07	1 Set of Indication Lamps, LED type, R,Y,B Phase indicating lamp with 2 Amp MCB for controlling.					
3.08	1 Set of Indication Lamps, LED type for breaker 'ON' , 'OFF', 'TRIP' & spring charged lamps with 2 Amp MCB for controlling.					
3.09	240 V AC Shunt trip coil. - 1 Set					
3.10	Selector Switch for Auto/Manual/Test					
3.11	Accessories for Electrical Interlocking					
3.12	64R relay with Class PS CT					
3.13	Bus Coupler					
3.14	1 No.2000 Amps, 50 kA, 4 Pole, (EDO) Air Circuit Breaker Horizontal draw out type (without release) of fault breaking capacity 50KA ($I_{cs}=I_{cu}=I_{cw}$) upto 433V) Electrical Draw Out Motorized operated, Independent Electrical / manual spring closing mechanism 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 necessary Auxiliary contact & MCB.					
3.15	4 Sets Indication Lamps, LED type, for RYB with 2 Amp control MCB.& breaker 'ON' , 'OFF', 'TRIP' & spring charged lamps with 2 Amp MCB for controlling.					
3.16	Bus Bars					
3.17	TPN aluminium extensible type main bus bars of Suitable capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 50kA capacity for 1 sec.					
3.18	Outgoing					

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
3.19	4 Nos. 1250 Amps ACB's with 50 kA, 4 Pole, Microprocessor release Horizontal draw out type of fault breaking capacity 50KA (Ics=Icu=Icw for 1.0 secs) Electrical Draw Out Motorized operated, fitted with interlocked door, automatic safety shutters, mechanical ON/OFF and service/ test/isolated position indicators and frame earthing contact, conforming to IS-60947-2 2003 as amended up-to-date complete with inbuilt LCD/LED display, Independent Electrical & manual spring closing mechanism, Microprocessor release (EMI & EMC certified) for over current (Phase & neutral), earth fault & short circuit protection, LSIG 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 suitable contacts (but 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 & Voltage Unbalance, etc. GF settings shall be from minimum 10% of the rated current of the ACB otherwise Electromechanical relay shall be used for Achieving minimum 10% setting. ACB LED/LCD display shall be with Current metering. ACB ON OFF TRIP status shall be provided through potential free contacts to BMS.					
3.20	All ACBs shall be provided with Mechanical Operation Counter, Door Interlock with Panel door					
3.21	Each outgoing ACB shall have one set of the following items:					
3.22	Selector Switch for Auto/Manual/Test					
3.23	1 set- Intelligent multi function digital meter to read V,A,kVA, KW, kVAR, PF, Hz etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order & maximum demand. LED display with required Nos CTs, 15 VA, class 1.0 and control circuit wiring with 2 Amp MCB for controlling.					
3.24	1 Set of Indication Lamps, LED type, R,Y,B Phase indicating lamp with 2 Amp MCB for controlling.					
3.25	1 Set of Indication Lamps, LED type for breaker 'ON' , 'OFF' , 'TRIP' & spring charged lamps with 2 Amp MCB for controlling.					
3.26	240 V AC Shunt trip coil. - 1 Set					
3.27	4 Nos. 400 Amps, MCCB's , 6 Nos. 250 Amps, MCCB's & 4 Nos. 125A mps , MCCBS.					
3.28	Above MCCB'S with 4 Pole, 35 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, Digital Multi Function Meter with maximum demand load and current display RS485 module of class- 1 accuracy with suitable range of cast resin CT including connections etc as required.					
3.29	1 No ON' (Red) ,OFF & TRIP indication lamp (LED type) with 2 Amp SP MCB for each outgoing.					

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
3.30	1 Set Rotary operating mechanism and terminal extension spreaders for all the ACBs/MCCB's.					
3.31	2 Sets Surge protection device Type 1 (Class B) 4 Mode, MOV type suitable for 10/ 350µs surge, Voltage Protection level Phase : 3 NPE, Iimp = 100KA(L-N), 100KA (N-PE), UN = 230 V AC,UC = 320 V, Up = 1.5 KV Including with inbuilt fuse and all necessary accessories and wire connections.					
3.32	COMPLETE ALL AS ABOVE 3.01 to 3.31	1.00	Job	3738105.00	3738105.00	INR Thirty Seven Lakh Thirty Eight Thousand One Hundred Five & Paise Zero Only
4.00	Supply of 500 KVA Prime Duty DG Set comprising of following (Location: Old Substation VSI Airport, Sri Vijaya Puram):					
4.01	01 No. Alternator suitable for generating 400 KW/500 KVA at 415 V, 3 Phase, 50 Hz, 0.8 PF, 1500 RPM, Self Ventilated, Self Regulated and Self Excited with Brushless Type conforming to IS 4722 with suitable size cable termination box including provision of suitable size and length control cable for alternator scanner etc. as specified and as required.					
4.02	01 No. Multi Cylinder, 4 Stroke, Turbo Charged Diesel Engine developing suitable BHP at 1500 RPM suitable for above Alternator, Specific fuel consumption shall be more than 220 g/kWh and Complete with all accessories such as Base Frame, AVM Pads, Batteries 2 Nos. [12 Volts,180 AH], All Types of Filters, Coupling, Starter, Residential Silencer, Lightning arrestor spike with 20 x 3 mm GI tape up to DG set foundation, Automatic Electronic Speed Governing Mechanism, Compact Radiator etc. and conforming to relevant IS with up to date amendments including provision of suitable size and length control cable for engine control panel and battery charger as specified and as required.					
4.03	1 No. Daily Service Fuel Tank of Capacity as per manufacturers standard having minimum capacity of 990 litre, fabricated out of 3 mm thick M.S sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. complete with valves, level indications and accessories as required as per specification.					
4.04	Customised Compact Modular Type Tested Acoustic Enclosure suitable for the above DG Set to limit the Noise Level to 75 dB (A) at a distance of 1 Mtr., from the Enclosure, made out of CRCA sheet of 1.6 mm thickness for the Outside Cover and Doors and for Inside Cover with 0.8 mm thick perforated GI Sheet, Louvers of thickness 1.6 mm CRCA Sheet for Fresh Air and Hot Air, Powder coated after Seven Tank Process, Neoprene Rubber Gasket and heavy duty SS locks with SS Hinges, Acoustic made up of high quality rock wool/glass wool/mineral wool as per OEM design, Base Frame of suitable Size Channel, provision to accommodate Batteries, Support for Silencers, provided with 4 Nos. LED Tube light Fittings of 2 feet and Switches as required.					

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
4.05	Exhaust gas piping upto maximum of 10 Mtr. for above DG of suitable dia. welded black MS, B class pipe confirming to IS:1239 cut to required lengths and installed with necessary bends, clamps, bellows, residential silencer, insulation of exhaust system with mineral wool/Rockwool 50 mm thick, wire mesh & aluminium cladding of minimum thickness of 0.6 mm, Required size lattice type MS supporting structure with suitable foundation etc., as required as per specifications and as per relevant CPCB Norms.					
4.06	G.S.S square/rectangular duct maximum of 20 Sq. Mtr. for dissipation of hot air to outside for above DG set made out of GI sheet thickness as specified in technical specification complete with gaskets, elbows, splitters, vanes, MS angle iron supports with threaded rod hanging arrangement, end cowl, bird mesh, etc. as per specifications to meet site requirement etc. as required.					
4.07	DG set Shall comply to CPCB IV + Emission Norms Compliance to Revised Emission Standards dated 03.11.2022 and upto date amendments. Performing 13 Hrs Load test for the DG set at factory arranged with suitable load equipment at the time of predelivery inspection along with other routine tests as mentioned in the DG set specifications.					
4.08	COMPLETE ALL AS ABOVE 4.01 to 4.07	2.00	Job	4353700.00	8707400.00	INR Eighty Seven Lakh Seven Thousand Four Hundred & Paise Zero Only

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
5.00	AMF LT Panel					
5.01	Design, Fabrication and Supply of Totally Type Tested Panels (Form -4B Construction) complying to IEC: 61439- 1/2 cubicle type LT panel, Panel shall be single tire ACB design to ensure easy maintenance & enough termination space, with minimum impact resistance IK09/IK10 as per IEC : 62262, Active Arc protection shall be considered with Arc Flash relays along with required sensores, Minimum IP42, suitable for 415V+/- 10%, 3 Phase, 4 wire 50 Hz AC supply system. Panel fabricated in compartmentalized modular design 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 7 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 , 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 Copper 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 with necessary over head bus trunking terminations and control wiring with 2.5 sqmm PVC insulated copper conductor cable (FRLSH), cable alleys, cable gland plates in two half, i/c providing following switchgears / accessories as per specifications. (Cable Entry for the panel shall be as decided by E-I-C during drawing approval)					
5.02	Two Nos. of 1000 A, 50KA, Four Pole, Microprocessor release Horizontal draw out type of fault breaking capacity 50KA (Ics=Icu=Icw for 1.0 secs) , One ACB for EB incomer and another for DG incomer ,Electrical Draw Out Motorized operated, fitted with interlocked door, automatic safety shutters, mechanical ON/OFF and service/ test/isolated position indicators and frame earthing contact, conforming to IS-60947-2 2003 as amended up-to- date complete with inbuilt LCD/LED display, Independent Electrical & manual spring closing mechanism, Microprocessor release (EMI & EMC certified) for over current (Phase & neutral), earth fault & short circuit protection, LSIG 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 suitable contacts (but minimum 4NO+4NC) for positive interlocking of the breakers, necessary interlocking for EB & DG incomers with PLC auto controls with all protection i/e Earth fault, Under/Over Voltage, Under/Over Frequency, Current & Voltage Unbalance, etc. GF settings shall be from minimum 10% of the rated current of the ACB otherwise Electromechanical relay shall be used for Achiving minimum 10% setting.ACB LED/LCD display shall be with Current metering.ACB ON OFF TRIP status shall be provided through potential free contacts to BMS.					
5.03	Two Nos. 1000 A, 4P On Load Change Over Switch each one for above ACBs for Bye-pass arrangement with bus bar/link arrangements and auxillary contacts & LED lamps for indicating position of Change Over Switch [AMF/BYEPASS/OFF]					

NUMBER #	TEXT #	NUMBER R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
5.04	24 V Battery Charger consisting of transformer, rectifier, DC Ammeter, DC Volt Meter and charge rate selector switch with position ON/ Trickle/ OFF/ Boost for charging of 24 Volts lead acid battery (2 Nos. each of 12 volts, 25 plates 180 AH in two steps i.e. trickle/boost charging [excluding Batteries]), Rheostat etc. as required.					
5.05	One No. 8 Display Temperature Scanner for RTD and RTD					
5.06	One Set of Timers and contactors/ AMF Relay for Start with condition to take the load within 15 Sec. in 3 Attempts/ Stop/ Delay time of DG Set with Selector Switch for Time Delay, Contactors for Auto/ Manual/ Interlock/ Time Delay and Engine protection PCB & accessories etc. as required.					
5.07	One Set of Selector Switch for Auto/Manual/Test/Off Operation etc.					
5.08	One Set of LVM					
5.09	One Set of Push Button for Start/Stop/Reset etc.					
5.10	One Set of LED Display for Performance of DG Set					
5.11	One Hooter to alarm the abnormality of DG Set and Annunciation Windows for Performance and Operation of DG Set etc.					
5.12	One Set of Contactors for Auto/ Manual/ Interlock/ Time Delay Operation					
5.13	One Set of AMF Module and Engine Protection PCB and Accessories.					
5.14	Four Set of Space Heater, Heating Thermostat, wiring, etc. and Accessories.					
5.15	Four Set of Cooling fan, Cooling Thermostat, wiring, etc. and Accessories.					
5.16	One Set of 1200 Amps Al. Bus Bar for 3 Phases and Neutral					
5.17	All accessories such as fuses, auxiliary contactors, auxiliary switches, Panel illumination LED lamps, etc. as required.					
5.18	COMPLETE ALL AS ABOVE 5.01 to 5.17	2.00	Job	1163659.00	2327318.00	INR Twenty Three Lakh Twenty Seven Thousand Three
6.00	Main Essential L. T. Panel					

NUMBER #	TEXT #	NUMBER R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
6.01	Design, Fabrication and Supply of Totally Type Tested Panels (Form -4B Construction) complying to IEC: 61439- 1/2 cubicle type LT panel, Panel shall be single tire ACB design to ensure easy maintenance & enough termination space, with minimum impact resistance IK09/IK10 as per IEC : 62262, Active Arc protection shall be considered with Arc Flash relays along with required sensores, Minimum IP42, suitable for 415V+/- 10%, 3 Phase, 4 wire 50 Hz AC supply system. Panel fabricated in compartmentalized modular design 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 7 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 , 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 Copper 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 with necessary over head bus trunking terminations and control wiring with 2.5 sqmm PVC insulated copper conductor cable (FRLSH), cable alleys, cable gland plates in two half, i/c providing following switchgears / accessories as per specifications. (Cable Entry for the panel shall be as decided by E-I-C during drawing approval)					
6.02	Incomer from AMF Panel 1 & AMF Panel 2					
6.03	2 Nos. of ACB, 1000 Amps, 50 kA, 4 Pole, Microprocessor release Horizontal draw out type of fault breaking capacity 50KA (Ics=Icu=Icw for 1.0 secs) Electrical Draw Out Motorized operated, fitted with interlocked door, automatic safety shutters, mechanical ON/OFF and service/ test/isolated position indicators and frame earthing contact, conforming to IS-60947-2 2003 as amended up-to- date complete with inbuilt LCD/LED display, Independent Electrical & manual spring closing mechanism, Microprocessor release (EMI & EMC certified) for over current (Phase & neutral), earth fault & short circuit protection, LSIG 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 suitable contacts (but 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 & Voltage Unbalance, etc. GF settings shall be from minimum 10% of the rated current of the ACB otherwise Electromechanical relay shall be used for Achiving minimum 10% setting.ACB LED/LCD display shall be with Current metering.ACB ON OFF TRIP status shall be provided through potential free contacts to BMS.					
6.04	All ACBs shall be provided with Mechanical Operation Counter, Door Interlock with Panel door					
6.05	Each Incomer shall have one set of the following items:					

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
6.06	1 set- Intelligent multi function digital meter to read V,A,kVA, KW, kVAR, PF, Hz etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order & maximum demand. LED display with required Nos CTs, 1000/5,15 VA, class 1.0 and control circuit wiring with 2 Amp MCB for controlling.					
6.07	1 Set of Indication Lamps, LED type, R,Y,B Phase indicating lamp with 2 Amp MCB for controlling.					
6.08	1 Set of Indication Lamps, LED type for breaker 'ON' , 'OFF' , 'TRIP' & spring charged lamps with 2 Amp MCB for controlling.					
6.09	240 V AC Shunt trip coil. - 1 Set					
6.10	Selector Switch for Auto/Manual/Test					
6.11	Accessories for Electrical Interlocking					
6.12	Bus Coupler					
6.13	1 Nos. 1000 Amps, 50 kA, 4 Pole, (EDO) Air Circuit Breaker Horizontal draw out type (without release) of fault breaking capacity 50KA (Ics=Icu =Icw) upto 433V) Electrical Draw Out Motorized operated, Independent Electrical / manual spring closing mechanism 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 necessary Auxiliary contact & MCB.					
6.14	4 Sets Indication Lamps, LED type, for RYB with 2 Amp control MCB.& breaker 'ON' , 'OFF' , 'TRIP' & spring charged lamps with 2 Amp MCB for controlling.					
6.15	Bus Bars					
6.16	TPN aluminium extensible type main bus bars of Suitable capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 50kA capacity for 1 sec.					
6.17	Outgoing					
6.18	4 Nos. 400 Amps, MCCB's , 8 Nos. 250 Amps, MCCB's & 4 Nos. 125A mps , MCCBS.					
6.19	Above MCCB'S with 4 Pole, 35 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, Digital Multi Function Meter with maximum demand load and current display RS485 module of class- 1 accuracy with suitable range of cast resin CT including connections etc as required.					

NUMBER #	TEXT #	NUMBER R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
6.20	1 No ON' (Red) ,OFF & TRIP indication lamp (LED type) with 2 Amp SP MCB for each outgoing.					
6.21	1 Set Rotary operating mechanism and terminal extension spreaders for all the ACBs/MCCB's.					
6.22	2 Sets Surge protection device Type 1 (Class B) 4 Mode, MOV type suitable for 10/ 350µs surge, Voltage Protection level Phase : 3 NPE, Iimp = 100KA(L-N), 100KA (N-PE), UN = 230 V AC,UC = 320 V, Up = 1.5 KV Including with inbuilt fuse and all necessary accessories and wire connections.					
6.23	COMPLETE ALL AS ABOVE 6.01 to 6.22	1.00	Job	2295666.00	2295666.00	INR Twenty Two Lakh Ninety Five Thousand Six Hundred Sixty Six Rupee Zero Only
7.00	Design, Fabrication and Supply of 400 kVAR HYBRID APFC Panel, 3 phase 4 wire, 415 V, 50 Hz AC System for Ambient temperature -5°C to +40°C of 400kVAR capacity with passive solution of 60% capacity and active solution of 40% capacity, 3Phase 4 wire Hybrid Power Factor Correction Solution (with arrangement for neutral current balance) to achieve >0.99 lag and TDDI/THDV values within IEEE recommended limits. APFC should be designed as per IS 16636 Or IEC 61921. The active section and passive section shall work in sync to give optimized output. The degree of protection of passive section should be IP 42, and of active section should be minimum IP 21. The switching device for APFC passive section should be through capacitor duty contactor and for the active compensation system shall be IGBT based with 3 level topology having 12 IGBT in inverter circuit. The active compensation system should filter harmonics from 2nd to 50th individual harmonic order and shall be selectable for the entire range. The active compensation system should have feature to improve PF correction and harmonic filtration having response time <25Micro second. The hybrid panel shall be indoor type floor mounted free standing totally enclosed, extensible, fabricated in compartmentalized designed made of CRCA sheet steel of 2.0mm thick for framework & covers, 3 mm thick for gland plate i/c cleaning & finishing complete with 9 tank process for powder coated of approved shade (RAL 7032-Siemens gray or as approved by Engineer-in- Charge), having front section (switch gear and control accessories) and rear section (capacitor and reactor), front and rear access, having suitable current carrying capacity, extensible TPN Aluminium alloy bus bar of high conductivity, DMC/SMC bus bar supports, bottom base channel of MS Section, fabrication shall be done in transportable section, entire panel shall have common copper earth bar of minimum size of 25mm x 5mm with 2 nos. earth studs, the earth terminals provided on the body of capacitor bank shall also be bonded to the main capacitor panel earth bus with 2 nos. 8 SWG or 6 SWG GI earth wires/ equivalent size of copper conductor cable, forced ventilation for maintaining temperature rise not more than 5°C from ambient, interconnections, connections with 14% detuned copper reactor and heavy duty 525 V ISI marked Impregnated MPP(Metalized Polypropylene) Capacitor (IS 13340 Part -1 & 2) APFC Panel shall be in compliance with IS :16636 & CPWD Specifications etc. as per below details.					
7.01	Incomer					
7.02	1000 Amps ACB, 50 KA (Ics) 4 Pole					
7.03	EDO type without release with ON/ OFF indication lamps with control fuses, Auto Manual selector switch, TNC Switch.					

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
7.04	1 Set of R Y B LED Type Indicating Lamps with HRC fuses and toggle switches					
7.05	1 No Automatic Power factor correction relay for automatic correction of Power factor.					
7.06	Instrument & Indication					
7.07	For Passive Section :					
7.08	3-Phase current sensing APFC microprocessor relay/controller , advance 12 stages for over all capacity of panel (active + passive) and having display of Phase wise V, A, PF, Cos-Phi, KW, KVA, KVAR, THD-V , THD-I, harmonics up to 31 level.					
7.09	Auto Manual Selector switch, auxiliary contactors with timer for delay in manual mode.					
7.10	Digital Multi function meter with LED Display for V, A, PF, KW, KVA, KVAR, THD-V & I, Frequency.					
7.11	Suitable rating control transformer shall be provided for control and indication circuit.					
7.12	All components like control transformer, meter, relay and indicating lamp shall be protected by using suitable rating individual MCB's.					
7.13	Wiring of the control circuit shall be done by using 2.5 sq mm, FRILSH 1100 V grade, PVC insulated multi stranded copper control wire.					
7.14	Communication Ethernet/RS485/SNMP port open protocol for BMS integration as per approved by Engineering in charge.					
7.15	For Active Section :					
7.16	Dedicated HMI (Human Machine Interface) (Minimum 7 inch display) for controlling and communication and having display of Phase wise V, A, PF, Cos-Phi, KW, KVA, KVAR, THD-V , THD-I, harmonics up to 50th level. Communication Ethernet/RS485/SNMP port open protocol for BMS integration as per approved by Engineering in charge.					
7.17	COMPLETE ALL AS ABOVE 7.00 to 7.16	2.00	Job	1549755.00	3099510.00	INR Thirty Lakh Ninety Nine Thousand Five Hundred Ten & Paise Zero Only

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
8.00	Fabrication and Supply of 2000 Amps, 50 KA for 1 sec, Indoor IP 55 Sandwich Type Bus Trucking complying to IEC 61439-1 & 6 (Interconnection from Transformer to Non- Essential LT Panel), for use on 3 Phase 4 Wire, 415 Volts, 50 Hz AC supply with metal clad enclosure made of 1.6mm thick GI Sheet duly powder coated in convenient sections complete with 4 Nos. of Aluminium Bus Bars with Class F Insulation, necessary joints, elbow joints, expansion joints and bends, offsets, adopter box and Copper Flexible for Joints, external Aluminium earth strip 50x6mm, aluminium interconnection busbars, threaded rod for suspenders, angle iron bracket, fasteners, nuts and bolts, connecting to existing earthing system etc. complete as required. Note : Bus Trunking Shall be measured along the length of enclosure of Straigh Run/T Section/Bend. The aluminum strips which will go inside L.T Panels & end termination boxes of transformers shall not be taken in to measurement of bus trunking quantity. (Quantity has to be supplied as per site requirement after finalizing of approval drawing)					
8.01	Straight Run Bus Duct	50.00	Mtr	23662.00	1183100.00	INR Eleven Lakh Eighty Three Thousand One Hundred & Paise Zero Only
8.02	End Flange i/c Making Cost	4.00	Nos	24000.00	96000.00	INR Ninety Six Thousand & Paise Zero Only
8.03	90 Degree Bend i/c Making Cost	8.00	Nos	11600.00	92800.00	INR Ninety Two Thousand Eight Hundred & Paise Zero Only
8.04	Horizontal Offset / Vertical Offset / Combination Elbow / T Elbow i/c Making Cost	4.00	Nos	25000.00	100000.00	INR One Lakh & Paise Zero Only
8.05	Phase Cross Over i/c Making Cost	2.00	Nos	1700.00	3400.00	INR Three Thousand Four Hundred & Paise Zero Only
8.06	Adopter Box	4.00	Nos	17976.00	71904.00	INR Seventy One Thousand Nine Hundred Four & Paise Zero Only
8.07	Tinned Copper Braided Flexibles for End Termination	4.00	Set	35460.00	141840.00	INR One Lakh Forty One Thousand Eight Hundred Forty & Paise Zero Only
9.00	Fabrication and Supply of 1250 Amps, 50 KA for 1 sec, Indoor IP 55 Sandwich Type Bus Trucking complying to IEC 61439-1 & 6 (Interconnection from NE LT Panel to Hybrid PFC Panel & NE LT Panel to AMF Panel), for use on 3 Phase 4 Wire, 415 Volts, 50 Hz AC supply with metal clad enclosure made of 1.6mm thick GI Sheet duly powder coated in convenient sections complete with 4 Nos. of Aluminium Bus Bars with Class F Insulation, necessary joints, elbow joints, expansion joints and bends, offsets, adopter box and Copper Flexible for Joints, external Aluminium earth strip 50x6mm, aluminium interconnection busbars, threaded rod for suspenders, angle iron bracket, fasteners, nuts and bolts, connecting to existing earthing system etc. complete as required. Note : Bus Trunking Shall be measured along the length of enclosure of Straigh Run/T Section/Bend. The aluminum strips which will go inside L.T Panels & end termination boxes of transformers shall not be taken in to measurement of bus trunking quantity. (Quantity has to be supplied as per site requirement after finalizing of approval drawing)					
9.01	Straight Run Bus Duct	80.00	Mtr	14775.00	1182000.00	INR Eleven Lakh Eighty Two Thousand & Paise Zero Only

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
9.02	End Flange i/c Making Cost	8.00	Nos	17930.00	143440.00	INR One Lakh Forty Three Thousand Four Hundred Forty & Paise Zero Only
9.03	90 Degree Bend i/c Making Cost	16.00	Nos	9125.00	146000.00	INR One Lakh Forty Six Thousand & Paise Zero Only
9.04	Horizontal Offset /Vertical Offset / Combination Elbow / T Elbow i/c Making Cost	6.00	Nos	19380.00	116280.00	INR One Lakh Sixteen Thousand Two Hundred Eighty & Paise Zero Only
9.05	Phase Cross Over i/c Making Cost	4.00	Nos	1700.00	6800.00	INR Six Thousand Eight Hundred & Paise Zero Only
9.06	Adopter Box	8.00	Nos	11820.00	94560.00	INR Ninety Four Thousand Five Hundred Sixty & Paise Zero Only
9.07	Tinned Copper Braided Flexibles for End Termination	8.00	Set	25979.00	207832.00	INR Two Lakh Seven Thousand Eight Hundred Thirty Two & Paise Zero
10.00	Fabrication and Supply of 1000 Amps, 50 KA for 1 sec, Indoor IP 55 Sandwich Type Bus Trucking complying to IEC 61439-1 & 6 (Interconnection from DG Set to AMF Panel & AMF Panel to Essential LT Panel), for use on 3 Phase 4 Wire, 415 Volts, 50 Hz AC supply with metal clad enclosure made of 1.6mm thick GI Sheet duly powder coated in convenient sections complete with 4 Nos. of Aluminium Bus Bars with Class F Insulation, necessary joints, elbow joints, expansion joints and bends, offsets, adopter box and Copper Flexible for Joints, external Aluminium earth strip 50x6mm, aluminium interconnection busbars, threaded rod for suspenders, angle iron bracket, fasteners, nuts and bolts, connecting to existing earthing system etc. complete as required. Note : Bus Trucking Shall be measured along the length of enclosure of Straigh Run/T Section/Bend. The aluminum strips which will go inside L.T Panels & end termination boxes of transformers shall not be taken in to measurement of bus trucking quantity. (Quantity has to be supplied as per site requirement after finalizing of approval drawing)					
10.01	Straight Run Bus Duct	80.00	Mtr	14225.00	1138000.00	INR Eleven Lakh Thirty Eight Thousand & Paise Zero Only
10.02	End Flange i/c Making Cost	8.00	Nos	16968.00	135744.00	INR One Lakh Thirty Five Thousand Seven Hundred Forty Four & Paise Zero Only
10.03	90 Degree Bend i/c Making Cost	16.00	Nos	9124.00	145984.00	INR One Lakh Forty Five Thousand Nine Hundred Eighty Four & Paise Zero
10.04	Horizontal Offset /Vertical Offset / Combination Elbow / T Elbow i/c Making Cost	4.00	Nos	17160.00	68640.00	INR Sixty Eight Thousand Six Hundred Forty & Paise Zero Only
10.05	Phase Cross Over i/c Making Cost	4.00	Nos	1700.00	6800.00	INR Six Thousand Eight Hundred & Paise Zero Only
10.06	Adopter Box	8.00	Nos	11820.00	94560.00	INR Ninety Four Thousand Five Hundred Sixty & Paise Zero Only
10.07	Tinned Copper Braided Flexibles for End Termination	8.00	Set	25979.00	207832.00	INR Two Lakh Seven Thousand Eight Hundred Thirty Two & Paise Zero

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
11.00	Supply of 3 Core 185 Sq.mm sizes of XLPE insulated PVC sheathed aluminium conductor armoured power cable of 11 kV grade (11kV- earthed) conforming to IS: 7098 (Part-II) amended upto date.	200.00	Mtr	1635.00	327000.00	INR Three Lakh Twenty Seven Thousand & Paise Zero Only
12.00	Supply of XLPE insulated and PVC sheathed Copper armoured control cable of 1.1 KV grade conforming to IS 7098 (Part-I) 1988 as amended upto date and of following size as required:					
12.01	4C x 2.5 Sq.mm	100.00	Mtr	255.00	25500.00	INR Twenty Five Thousand Five Hundred & Paise Zero
12.02	16C x 2.5 Sq.mm	100.00	Mtr	750.00	75000.00	INR Seventy Five Thousand & Paise Zero Only
13.00	Supply of XLPE insulated and PVC sheathed aluminum conductor armoured power cable of 1.1 KV grade conforming to IS 7098 (Part-I) 1988 as amended upto date and of following size as required:					
13.01	4C x 25 Sq.mm	500.00	Mtr	270.00	135000.00	INR One Lakh Thirty Five Thousand & Paise Zero Only
13.02	3.5C x 120 sq.mm	500.00	Mtr	750.00	375000.00	INR Three Lakh Seventy Five Thousand & Paise Zero Only
13.03	3.5C x 240 sq.mm	500.00	Mtr	1360.00	680000.00	INR Six Lakh Eighty Thousand & Paise Zero Only
14	Supply of industrial type First Aid Box (suitable for min 10 persons) as approved by St. John Ambulance Brigade/ Indian Red Cross with metal cabinet conforming to IS 2217-1963 as required.	2.00	Each	1773.00	3546.00	INR Three Thousand Five Hundred Forty Six & Paise Zero Only
15	Supply of wall mountable portable Rechargeable minimum of 15w Emergency LED light with minimum 6 hours backup battery, operating supply of 230V AC, auto ON & OFF etc as required.	6.00	Each	2265.00	13590.00	INR Thirteen Thousand Five Hundred Ninety & Paise Zero Only
16	Supply of 450 mm sweep, Heavy duty exhaust fan of 250 Watt with 2 years warranty, suitable for 1-Phase, 230V, 50Hz, with air delivery of minimum 6120 CMH, 1400 RPM including provision of louver shutter, powder coated metallic body, motor with copper winding etc., complete as required.	16.00	Each	6895.00	110320.00	INR One Lakh Ten Thousand Three Hundred Twenty & Paise Zero Only
17	SH-II: Installation, Testing, Commissioning of Substation Equipments, Earthing, Dismantling, Laying of Cables and Other Associated Works					
18	Installation, Testing & Commissioning of indoor type HT panels (mentioned at SH-I/item no. 1.01) shall be constructed from CRCA/ Aluminium Zinc coated steel sheet of 2 mm thickness, floor mounted metal enclosed, 11 KV VCB panel with 5 nos VCBs (2 INCOMER, 1 Bus Coupler with Riser & 2 OUTGOINGS), totally enclosed and fully interlocked, horizontal draw out, horizontal isolation type breaker as per IEC-62271-1,100,200, as amended up to date ,including provision of necessary "C" Channel arrangement of size 100x50x6 mm, earthing connections , interconnections and adjustment in the chequered plate for cable termination and panel positioning at site etc.,complete as required. (Location: Old Sub Station, VSI Airport, Sri Vijaya Puram)	1.00	Job	82750.00	82750.00	INR Eighty Two Thousand Seven Hundred Fifty & Paise Zero Only

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
SL. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
19	Installation, Testing and Commissioning of 1000 kVA, 11/0.433 kV 3 Phase, 50Hz, Dyn 11 vector group copper wound transformer (mentioned at SH-I/ item no. 1.02) with OLTC, class F insulation, having impedance as per ECBC - 2017, associated with winding temperature indicator / digital controller temperature detector indoor type along with Surge arrester on H.T. side, including provision of 150mm height RCC foundation from floor level for positioning of transformer , necessary "C" Channel arrangement of size 100x50x6 mm, railing, stopper, earthing connections, interconnections, control cabling for HT panel, adjustment in the chequered plate at site for cabling and necessary modifications for sandwich bus trunk termination etc., complete as required. (Location: Old Sub Station, VSI Airport, Sri Vijaya Puram)	2.00	Job	123125.00	246250.00	INR Two Lakh Forty Six Thousand Two Hundred Fifty & Paise Zero Only
20	Installation, Testing and Commissioning of Totally Type Tested Non-Essential Panel (Form -4B Construction) complying to IEC: 61439- 1/2 cubicle type LT panel (mentioned at SH-I/Item No.1.03) , including provision of necessary "C" Channel arrangement of size 100x50x6 mm, earthing connections, interconnections and adjustment in the chequered plate for cable termination, panel positioning at site and necessary modifications for sandwich bus duct termination etc., complete as required. (Location: Old Sub Station, VSI Airport, Sri Vijaya Puram).	1.00	Job	68950.00	68950.00	INR Sixty Eight Thousand Nine Hundred Fifty & Paise Zero Only
21	Installation, Testing and Commissioning of 500 KVA Prime Duty DG Set (mentioned at SH-I/Item No.1.04) including laying of fuel pipe lines, fixing of exhaust piping, GSS duct, including provision of 150 mm high RCC foundation from floor level for positioning of DG set, including supply and laying of control cable from panel to DG set, earthing connections, interconnections and adjustment in the chequered plate for cable termination, necessary modifications for sandwich bus trunk termination and panel positioning at site etc., complete as required., necessary civil work opening in the existing wall to fix GSS duct, performing 06 Hrs Load test for the DG set at site with available load, laying and termination of control cables for engine control panel, batteries, etc. complete as required. (Location: Old Sub Station, VSI Airport, Sri Vijaya Puram)	2.00	Job	221625.00	443250.00	INR Four Lakh Forty Three Thousand Two Hundred Fifty & Paise Zero Only
22	Installation, Testing and Commissioning of Totally Type Tested AMF Panel (Form -4B Construction) complying to IEC: 61439- 1/2 cubicle type LT panel (mentioned at SH-I/Item No.1.05) , including provision of necessary "C" Channel arrangement of size 100x50x6 mm, earthing connections, interconnections and adjustment in the chequered plate for cable termination, panel positioning at site and necessary modifications for sandwich bus duct termination etc., complete as required. (Location: Old Sub Station, VSI Airport, Sri Vijaya Puram).	2.00	Job	73875.00	147750.00	INR One Lakh Forty Seven Thousand Seven Hundred Fifty & Paise Zero Only
23	Installation, Testing and Commissioning of Totally Type Tested Essential Panel (Form -4B Construction) complying to IEC: 61439- 1/2 cubicle type LT panel (mentioned at SH-I/Item No.1.06) , including provision of necessary "C" Channel arrangement of size 100x50x6 mm, earthing connections, interconnections and adjustment in the chequered plate for cable termination, panel positioning at site and necessary modifications for sandwich bus duct termination etc., complete as required. (Location: Old Sub Station, VSI Airport, Sri Vijaya Puram).	1.00	Job	93575.00	93575.00	INR Ninety Three Thousand Five Hundred Seventy Five & Paise Zero Only

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
24	Installation, Testing and Commissioning of Totally Type Tested 400 kVAR Hybrid APFC Panel (Form -4B Construction) complying to IEC: 61439- 1/2 cubicle type LT panel (mentioned at SH-I/Item No.1.07) , including provision of necessary "C" Channel arrangement of size 100x50x6 mm, earthing connections, interconnections and adjustment in the chequered plate for cable termination, panel positioning at site and necessary modifications for sandwich bus duct termination etc., complete as required. (Location: Old Sub Station, VSI Airport, Sri Vijaya Puram).	2.00	Job	39400.00	78800.00	INR Seventy Eight Thousand Eight Hundred & Paise Zero Only
25	Installation, Testing and Commissioning of 2000 Amps Indoor Sandwich type Bus trunking system for following items by suspension on ceiling consist of straight Run bus duct, End Flange, 90 Degree bend, Offset, T section, phase cross over, Adaptor Box & Copper flexible for End Termination item mentioned at SH-I/Item No.1.08 including required aluminium interconnection busbars, aluminium external earthing strip including providing suitable size threaded rod & MS angle, nuts & bolts , suspender, angle iron bracket, steel fastners, connecting to earthing system etc. complete as required. (Location: Interconnection from Transformer to Non-Essential LT Panel)					
25.01	Straight Run Bus Duct	50.00	Mtr	887.00	44350.00	INR Forty Four Thousand Three Hundred Fifty & Paise Zero Only
25.02	End Flange i/c Making Cost	4.00	Nos	350.00	1400.00	INR One Thousand Four Hundred & Paise Zero Only
25.03	90 Degree Bend i/c Making Cost	8.00	Nos	490.00	3920.00	INR Three Thousand Nine Hundred Twenty & Paise Zero Only
25.04	Horizontal Offset /Vertical Offset / Combination Elbow / T Elbow i/c Making Cost	4.00	Nos	490.00	1960.00	INR One Thousand Nine Hundred Sixty & Paise Zero Only
25.05	Phase Cross Over i/c Making Cost	2.00	Nos	490.00	980.00	INR Nine Hundred Eighty & Paise Zero Only
25.06	Adopter Box	4.00	Nos	490.00	1960.00	INR One Thousand Nine Hundred Sixty & Paise Zero Only
25.07	Tinned Copper Braided Flexibles for End Termination	4.00	Set	1450.00	5800.00	INR Five Thousand Eight Hundred & Paise Zero Only
26	Installation, Testing and Commissioning of 1250 Amps Indoor Sandwich type Bus trunking system for following items by suspension on ceiling consist of straight Run bus duct, End Flange, 90 Degree bend, Offset, T section, phase cross over, Adaptor Box & Copper flexible for End Termination item mentioned at SH-I/Item No.1.09 including required aluminium interconnection busbars, aluminium external earthing strip including providing suitable size threaded rod & MS angle, nuts & bolts, suspender, angle iron bracket, steel fastners, connecting to earthing system etc. complete as required. (Interconnection from NE LT Panel to Hybrid PFC Panel & NE LT Panel to AMF Panel)					
26.01	Straight Run Bus Duct	80.00	Mtr	856.00	68480.00	INR Sixty Eight Thousand Four Hundred Eighty & Paise Zero Only

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
26.02	End Flange i/c Making Cost	8.00	Nos	490.00	3920.00	INR Three Thousand Nine Hundred Twenty & Paise Zero Only
26.03	90 Degree Bend i/c Making Cost	16.00	Nos	295.00	4720.00	INR Four Thousand Seven Hundred Twenty & Paise Zero Only
26.04	Horizontal Offset /Vertical Offset / Combination Elbow / T Elbow i/c Making Cost	6.00	Nos	490.00	2940.00	INR Two Thousand Nine Hundred Forty & Paise Zero Only
26.05	Phase Cross Over i/c Making Cost	4.00	Nos	690.00	2760.00	INR Two Thousand Seven Hundred Sixty & Paise Zero Only
26.06	Adopter Box	8.00	Nos	295.00	2360.00	INR Two Thousand Three Hundred Sixty & Paise Zero Only
26.07	Tinned Copper Braided Flexibles for End Termination	8.00	Set	856.00	6848.00	INR Six Thousand Eight Hundred Forty Eight & Paise Zero Only
27	Installation, Testing and Commissioning of 1000 Amps Indoor & outdoor Sandwich type Bus trunking system for following items by suspension on ceiling consist of straight Run bus duct, End Flange, 90 Degree bend, Offset, T section, phase cross over, Adaptor Box & Copper flexible for End Termination item mentioned at SH-I/Item No.1.10 including required aluminium interconnection busbars, aluminium external earthing strip including providing suitable size threaded rod & MS angle, nuts & bolts, suspender, angle iron bracket, steel fastners, connecting to earthing system etc. complete as required. (Interconnection from DG Set to AMF Panel & AMF Panel to Essential LT Panel)					
27.01	Straight Run Bus Duct	80.00	Mtr	856.00	68480.00	INR Sixty Eight Thousand Four Hundred Eighty & Paise Zero Only
27.02	End Flange i/c Making Cost	8.00	Nos	590.00	4720.00	INR Four Thousand Seven Hundred Twenty & Paise Zero Only
27.03	90 Degree Bend i/c Making Cost	16.00	Nos	590.00	9440.00	INR Nine Thousand Four Hundred Forty & Paise Zero Only
27.04	Horizontal Offset /Vertical Offset / Combination Elbow / T Elbow i/c Making Cost	4.00	Nos	856.00	3424.00	INR Three Thousand Four Hundred Twenty Four & Paise Zero Only
27.05	Phase Cross Over i/c Making Cost	4.00	Nos	590.00	2360.00	INR Two Thousand Three Hundred Sixty & Paise Zero Only
27.06	Adopter Box	8.00	Nos	295.00	2360.00	INR Two Thousand Three Hundred Sixty & Paise Zero Only
27.07	Tinned Copper Braided Flexibles for End Termination	8.00	Set	866.00	6928.00	INR Six Thousand Nine Hundred Twenty Eight & Paise Zero Only
28	Supplying and installing following size of perforated painting with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc., as required.					

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
28.01	300 mm width X 62.5 mm depth X 2 mm thickness	100.00	Mtr	1182.00	118200.00	INR One Lakh Eighteen Thousand Two Hundred & Paise Zero Only
28.02	450 mm width X 62.5 mm depth X 2 mm thickness	80.00	Mtr	1773.00	141840.00	INR One Lakh Forty One Thousand Eight Hundred Eighty Four & Paise Zero Only
28.03	600 mm width X 62.5 mm depth X 2 mm thickness	40.00	Mtr	1920.00	76800.00	INR Seventy Six Thousand Eight Hundred & Paise Zero Only
29	Supplying and installing following size of perforated painted with powder coating M.S cable trays bend with perforation not more than 17.5%, joined with connector, suspended from the ceiling with M.S . Suspenders including bolts & nuts, painting suspenders etc as required.					
29.01	300 mm width X 62.5 mm depth X 2 mm thickness	10.00	Each	1545.00	15450.00	INR Fifteen Thousand Four Hundred Fifty & Paise Zero Only
29.02	450 mm width X 62.5 mm depth X 2 mm thickness	8.00	Each	1940.00	15520.00	INR Fifteen Thousand Five Hundred Twenty & Paise Zero Only
29.03	600 mm width X 62.5 mm depth X 2 mm thickness	6.00	Each	2325.00	13950.00	INR Fifteen Thousand Nine Hundred Fifty & Paise Zero Only
30	Supplying and installing following size of perforated painted with powder coating M.S cable trays Tee with perforation not more than 17.5%, joined with connector, suspended from the ceiling with M.S . Suspenders including bolts & nuts, painting suspenders etc as required.					
30.01	300 mm width X 62.5 mm depth X 2 mm thickness	6.00	Each	1690.00	10140.00	INR Ten Thousand One Hundred Forty & Paise Zero Only
30.02	450 mm width X 62.5 mm depth X 2 mm thickness	4.00	Each	2134.00	8536.00	INR Eight Thousand Five Hundred Thirty Six & Paise Zero Only
30.03	600 mm width X 62.5 mm depth X 2 mm thickness	4.00	Each	2573.00	10292.00	INR Ten Thousand Two Hundred Ninety Two & Paise Zero Only
31	Earthing with GI earth plate 600 mm X 600 X 6 mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	8.00	Set	11820.00	94560.00	INR Ninety Four Thousand Five Hundred Sixty & Paise Zero Only
32	Supplying and laying 25mm X 5mm G.I strip at 0.50 meter below ground as strip earth electrode , including connection / terminating with G.I nut, bolt, spring, washer etc as required. Jointing shall be done by overlapping and with 2 sets of brass nut bolt and spring washer spaced at 50 mm)	10.00	Mtr	380.00	3800.00	INR Three Thousand Eight Hundred & Paise Zero Only
33	Providing and fixing 25 mm X 5 mm GI strip in 40 mm dia G.I Pipe from earth electrode including connection with brass, nut bold spring washer excavation and re- filling etc as required.	50.00	Mtr	825.00	41250.00	INR Forty One Thousand Two Hundred Fifty & Paise Zero Only
34	Providing and fixing 25 mm X 5 mm G.I strip on surface or in recess for connections etc., as required.	120.00	Mtr	246.00	29520.00	INR Twenty Nine Thousand Five Hundred Twenty & Paise Zero Only
35	Earthing with copper earth plate 600 mm x 600 mm x 3 mm thick including accessories and proving masonary enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required.	14.00	Set	27580.00	386120.00	INR Three Lakh Eighty Six Thousand One Hundred Twenty & Paise Zero Only

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
36	Supplying and laying 25mm X 5mm copper strip at 0.50 meter below ground as strip earth electrode , including connection / terminating with nut, bolt, spring, washer etc as required. Jointing shall be done by overlapping and with 2 sets of brass nut bolt and spring washer spaced at 50 mm)	50.00	Mtr	2117.00	105850.00	INR One Lakh Five Thousand Eight Hundred Fifty & Paise Zero Only
37	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I Pipe from earth electrode including connection with brass, nut bold spring washer excavation and re- filling etc as required.	110.00	Mtr	2364.00	260040.00	INR Two Lakh Sixty Thousand Forty & Paise Zero Only
38	Providing and fixing of 25mmX 5 mm copper strip on surface or in recess for connection etc as required.	330.00	Mtr	1428.00	471240.00	INR Four Lakh Seventy One Thousand Two Hundred Forty & Paise Zero Only
39	Providing and Fixing of 25 mm X 5 mm Copper strip in 40mm dia 'B' Class G.I. pipe from earth electrode including connection with G.I nut bolt, spray, washer, i/c excavation of bituminous/ concrete / pavement & excavation of Soil to the depth of 0.30 Mtrs from ground, refilling the Soil and with 1:2:4 concrete on top for 0.15 Mtrs after laying Pipe and making good the same to original surface etc. complete as required.	120.00	Mtr	2561.00	307320.00	INR Three Lakh Seven Thousand Three Hundred Twenty & Paise Zero Only
40	Supply and Fixing of nominal 2.5 mm thick (Width 1 Mtr),Class: B, for working voltage upto 11.0KV, PVC synthetic, electric insulated mats conforming to IS 15652-2006 having Dielectric strength of 45 KV, no adverse effect of mineral oil, high insulation resistance (Minimum 1,00,000 M Ω on wet condition with 5 KV meggar) with yellow coloured bordered reflective Adhesive sticker of width 50mm at borders etc., as required.	25.00	Sq. Mtr	1083.00	27075.00	INR Twenty Seven Thousand Seventy Five & Paise Zero Only
41	Supply and Fixing of nominal 2.0 mm thick (Width 1 Mtr) , Class: A, for working voltage upto 3.3 KV, PVC synthetic, electric insulated mats conforming to IS 15652-2006 having Dielectric strength of 30 KV, no adverse effect of mineral oil, high insulation resistance (Minimum 1,00,000 M Ω on wet condition with 5 KV meggar) with yellow coloured bordered reflective Adhesive sticker of width 50mm at borders etc., as required.	55.00	Sq. Mtr	886.00	48730.00	INR Forty Eight Thousand Seven Hundred Thirty & Paise Zero Only
42	Providing & Laying of following size 'B' class G.I pipe with GI fittings i/c Bituminous road cutting excavation, laying the G. I Pipe in depth of 30cm, re-filling with cement concrete 1:2:4 and making good the same etc., as required.					
42.01	50mm dia	20.00	Mtr	965.00	19300.00	INR Nineteen Thousand Three Hundred & Paise Zero Only
42.02	100mm dia	20.00	Mtr	2167.00	43340.00	INR Forty Three Thousand Three Hundred Forty & Paise Zero Only
43	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.					
43.01	upto 35 Sq.mm	30.00	Mtr	39.00	1170.00	INR One Thousand One Hundred Seventy & Paise Zero Only

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SL No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
43.02	Above 35 sq mm and upto 95 sq mm	50.00	Mtr	59.00	2950.00	INR Two Thousand Nine Hundred Fifty & Paise Zero Only
43.03	Above 95 sq mm and upto 185 sq mm	100.00	Mtr	78.00	7800.00	INR Seven Thousand Eight Hundred & Paise Zero Only
43.04	Above 185 sq mm and upto 400 sq mm	100.00	Mtr	118.00	11800.00	INR Eleven Thousand Eight Hundred & Paise Zero Only
44	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.					
44.01	upto 35 Sq.mm	50.00	Mtr	39.00	1950.00	INR One Thousand Nine Hundred Fifty & Paise Zero Only
44.02	Above 35 sq mm and upto 95 sq mm	50.00	Mtr	44.00	2200.00	INR Two Thousand Two Hundred & Paise Zero Only
44.03	Above 95 sq mm and upto 185 sq mm	120.00	Mtr	64.00	7680.00	INR Seven Thousand Six Hundred Eighty & Paise Zero Only
44.04	Above 185 sq mm and upto 400 sq mm	120.00	Mtr	98.00	11760.00	INR Eleven Thousand Seven Hundred Sixty & Paise Zero Only
45	Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
45.01	upto 35 Sq.mm	50.00	Mtr	44.00	2200.00	INR Two Thousand Two Hundred & Paise Zero Only
45.02	Above 35 sq mm and upto 95 sq mm	50.00	Mtr	93.00	4650.00	INR Four Thousand Six Hundred Fifty & Paise Zero Only
45.03	Above 95 sq mm and upto 185 sq mm	100.00	Mtr	108.00	10800.00	INR Ten Thousand Eight Hundred & Paise Zero Only
45.04	Above 185 sq mm and upto 400 sq mm	100.00	Mtr	182.00	18200.00	INR Eighteen Thousand Two Hundred & Paise Zero Only
46	Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size on cable tray as required.					
46.01	upto 35 Sq.mm	20.00	Mtr	44.00	880.00	INR Eight Hundred Eighty & Paise Zero Only
46.02	Above 35 sq mm and upto 95 sq mm	50.00	Mtr	78.00	3900.00	INR Three Thousand Nine Hundred & Paise Zero Only

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
46.03	Above 95 sq mm and upto 185 sq mm	120.00	Mtr	88.00	10560.00	INR Ten Thousand Five Hundred Sixty & Paise Zero Only
46.04	Above 185 sq mm and upto 400 sq mm	120.00	Mtr	147.00	17640.00	INR Seventeen Thousand Six Hundred Forty & Paise Zero Only
47	Laying of one number PVC insulated and PVC sheathed/ XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					
47.01	above 120 sq.mm and upto 400 sq mm	100.00	Mtr	118.00	11800.00	INR Eleven Thousand Eight Hundred & Paise Zero Only
48	Laying of one number PVC insulated and PVC sheathed/ XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.					
48.01	above 120 sq.mm and upto 400 sq mm	120.00	Mtr	98.00	11760.00	INR Eleven Thousand Seven Hundred Sixty & Paise Zero Only
49	Supplyind and making indoor end termination with brass compression gland and aluminium lugs for following size of XLPE insulated and PVC sheathed aluminum conductor armoured power cable of 1.1 KV grade as required.					
49.01	4 X 25 Sq.mm	6.00	Each	295.00	1770.00	INR One Thousand Seven Hundred Seventy & Paise Zero Only
49.02	3.5 X 50 Sq.mm	4.00	Each	369.00	1476.00	INR One Thousand Four Hundred Seventy Six & Paise Zero Only
49.03	3.5 X 95 Sq.mm	4.00	Each	517.00	2068.00	INR Two Thousand Sixty Eight & Paise Zero Only
49.04	3.5X120 sq.mm	6.00	Each	541.00	3246.00	INR Three Thousand Two Hundred Forty Six & Paise Zero Only
49.05	3.5X185 sq.mm	18.00	Each	886.00	15948.00	INR Fifteen Thousand Nine Hundred Forty Eight & Paise Zero Only
49.06	3.5X240 sq.mm	2.00	Each	1182.00	2364.00	INR Two Thousand Three Hundred Sixty Four & Paise Zero Only
49.07	3.5X300 sq.mm	36.00	Each	1329.00	47844.00	INR Forty Seven Thousand Eight Hundred Forty Four & Paise Zero Only
50	Supplyind 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 aluminum conductor cable of 1.1 KV grade as required.					
50.01	4 X 25 Sq.mm	3.00	Each	1773.00	5319.00	INR Five Thousand Three Hundred Nineteen & Paise

NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
50.02	3.5 X 50 Sq.mm	2.00	Each	2462.00	4924.00	INR Four Thousand Nine Hundred Twenty Four & Paise
50.03	3.5 X 95 Sq.mm	4.00	Each	3841.00	15364.00	INR Fifteen Thousand Three Hundred Sixty Four & Paise
50.04	3.5X120 sq.mm	8.00	Each	3235.00	25880.00	INR Twenty Five Thousand Eight Hundred Eighty & Paise
50.05	3.5X185 sq.mm	2.00	Each	4925.00	9850.00	INR Nine Thousand Eight Hundred Fifty & Paise Zero
50.06	3.5X240 sq.mm	6.00	Each	6501.00	39006.00	INR Thirty Nine Thousand Six & Paise Zero Only
50.07	3.5X300 sq.mm	6.00	Each	6895.00	41370.00	INR Forty One Thousand Three Hundred Seventy &
51	Supplyind 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 aluminum conductor cable of 11 KV grade as required.					
51.01	185 sq.mm	6.00	Each	13790.00	82740.00	INR Eighty Two Thousand Seven Hundred Forty & Paise Zero Only
52	Supplyind and making outdoor cable end termination with heat Shrinkable jointing Kit complete with all accessories including lugs suitable for following size of 3 core , XLPE aluminum conductor cable of 11 KV grade as required.					
52.01	185 sq.mm	2.00	Each	14775.00	29550.00	INR Twenty Nine Thousand Five Hundred Fifty & Paise Zero Only
53.00	Dismantling of existing 250 KVA DG Set without acoustic enclosure alongwith AMF Panel from Old Power House including dismantling of fuel piping, exhaust piping, fuel tank, control cabling, Power cabling, earthing etc. and Handing Over of dismantled materials to AAI Store etc complete as required and as per the instructions of the Engineer-In-Charge.	3.00	Job	19700.00	59100.00	INR Fifty Nine Thousand One Hundred & Paise Zero Only
54.00	Dismantling of existing 1000 KVA Oil Transformer from Old Power House including dismantling of existing busduct from Transformers to Non Essential Panel , earthing etc. and Handing Over of dismantled materials to AAI Store etc complete as required and as per the instructions of the Engineer-In-Charge.	2.00	Job	19700.00	39400.00	INR Thirty Nine Thousand Four Hundred & Paise Zero Only
55.00	Dismantling of existing 11 KV VCB HT Panel from Old Power House including dismantling of existing . and Handing Over of dismantled materials to AAI Store etc complete as required and as per the instructions of the Engineer-In-Charge.	1.00	Job	14775.00	14775.00	INR Fourteen Thousand Seven Hundred Seventy Five & Paise Zero Only
56.00	Dismantling of existing LT Panels as detailed below including dismantling of Power cabling, earthing etc. and Handing Over of dismantled materials to AAI Store etc. complete as required and as per the instructions of the Engineer-In-Charge. (Location : Old Power House, VSI Airport) i) AMF Panel - 3 Nos ii) Change over Panel - 1 No	1.00	Job	29550.00	29550.00	INR Twenty Nine Thousand Five Hundred Fifty & Paise Zero Only

NUMBER #	TEXT #	NUMBER R #	TEXT #	NUMBER #	NUMBER #	TEXT #
SL. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
57.00	Dismantling of existing LT Panels as detailed below including dismantling of Power cabling, earthing etc. and Handing Over of dismantled materials to AAI Store etc. complete as required and as per the instructions of the Engineer-In-Charge. (Location : Old Power House, VSI Airport) i) Main Non Essential Panel - 1 No. ii) Main Essential Panel - 1 No .	1.00	Job	34475.00	34475.00	INR Thirty Four Thousand Four Hundred Seventy Five & Paise Zero Only
58.00	Retrieval of HT/LT cables of different sizes from existing sub-station, including transportation to AAI store, stacking etc., as per the direction of Engineer in Charge complete as required.	500.00	Mtr	173.00	86500.00	INR Eighty Six Thousand Five Hundred & Paise Zero Only
59.00	Supply and Fixing of 10 mm thick SMC chequered plates on MS Channel of cable trench as per the instruction of Engineer-In-Charge etc. complete as required.	50.00	Sq. Mtr	13297.00	664850.00	INR Six Lakh Sixty Four Thousand Eight Hundred Fifty & Paise Zero Only
60.00	Supply, fabrication, Transportation and installation of the MS channel of size 50 x 50 x 5 mm thick on cable trench including civil works for altration, cutting, welding, drilling, fixing, grinding, applying redoxide primer of two coats and two coat of enamel paint of Black colour etc. complete as required. and as per the instructions of Engineer-In-Charge.	500.00	Kg	182.00	91000.00	INR Ninety One Thousand & Paise Zero Only
61.00	Supply and fixing of Galvanised mild steel Fire Bucket Stand with 4 Nos. of Galvanised mild steel fire buckets of 10 litre nominal capacity filled with dry sand conforming IS 2546 etc., complete as required.	3.00	Each	4432.00	13296.00	INR Thirteen Thousand Two Hundred Ninety Six & Paise Zero Only
62.00	Supply of Shock treatment chart of standared size in Two languages (English & Hindi) with aluminium frame and transparent polycarbonate cover sheet as required.	3.00	Each	738.00	2214.00	INR Two Thousand Two Hundred Fourteen & Paise Zero Only
Total in Figures					42773408.00	INR Four Crore Twenty Seven Lakh Seventy Three Thousand Four Hundred Eight & Paise Zero Only
Quoted Rate in Words		INR Four Crore Twenty Seven Lakh Seventy Three Thousand Four Hundred Eight & Paise Zero Only				


 17/11/25
 उप महाप्रबंधक (अभि-विपुल)
 DGM (Engg-Elect)
 भारतीय विमानपत्तन प्राधिकरण
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