



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

विद्युत अभियांत्रिकी अनुभाग ELECTRICAL ENGINEERING WING

संदर्भ सं.: भा.वि.प्रा./ भुवनेस्वर/ उप महाप्रबंधक(अभि-विद्युत)/WO-06/2021-22/8339-8349 दिनांक: 04.08.2021

सेवा में/To,

मेसर्स जीतेन्द्र इलेक्ट्रीकल्स,

M/s Jitendra Electricals,

१०, वराही इंडस्ट्रीयल इस्टेट, नियर रेलवे क्रसींग,

10, Varahi Industrial Estate, Near Railway Crossing,

गोटा, अहमदाबाद - ३८२४८१।

Gota, Ahmedabad - 382481.

स्पीड पोस्ट द्वारा / By Speed Post#

e-Mail: jitelect@gmail.com

विषय: "कनस्ट्रक्शन अफ ए.टी.सी टावर कम टेक्नीकल ब्लोक, फायर स्टेशन एंड इ&एम वर्कशॉप एट बी.पी.आई. एयरपोर्ट, भुवनेस्वर। एस.एच: प्रोविजन अफ ११ के.वि सबस्टेशन एंड अलाइड वर्क्स एट सी.सी.आर बिल्डिंग।

Subject: "Construction of ATC Tower cum Technical Block, Fire Station and E&M Workshop at B. P. I. Airport, Bhubaneswar. S.H:-Provision of 11 KV Substation and allied works at CCR building."

महोदय/Dear Sir(s),

Ref: Your e-Tender opened dated 03.06.2021 for Tender ID No.2021_AAI_70108_1.

- उपरोक्त कार्य के लिए आपकी निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आप द्वारा उद्धरित मद दर जिसकी कुल राशि रु. ३,८०,६२,३६३.०० (तीन करोड़ अस्सी लाख बासठ हजार तीन सौ तिरसठ रुपया मात्र) जीएसटी को छोड़कर जो कि निविदा की अनुमानित लागत रु. ५,२५,४८,३४९.०० से २७.५७% कम है, स्वीकृत की जाती है।

Your e-Tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at item rates quoted by you totaling to Rs.3,80,62,363.00 (Rupees Three Crore Eighty Lakh Sixty Two Thousand Three Hundred Sixty Three only) Excluding GST which is 27.57% (Twenty Seven Point Five Seven Percent) below the Justified cost of Rs.5,25,48,349.00.

- उप महाप्रबंधक(अभि-विद्युत), भारतीय विमानपत्तन प्राधिकरण, बी.पी.आई. हवाई अड्डा, भुवनेस्वर इस कार्य के इंजीनियरिंग प्रभारी होंगे। आपसे अनुरोध है कि आप संविदा करार पर हस्ताक्षर करने एवं उसे पूरा करने हेतु दिनांक १९.०८.२०२१ के अंदर उप महाप्रबंधक (अभि- विद्युत), भारतीय विमानपत्तन प्राधिकरण, बी.पी.आई. हवाई अड्डा, भुवनेस्वर के कार्यालय में उपस्थित हों। संविदा करार रु १००. ०० (सौ रुपये मात्र) के न्यायिकेतर (नॉन ज्युडिशियल) स्टाम्प पेपर पर बनाया जाएगा और स्टाम्प पेपर की लागत आपको वहन करनी होगी।

Dy. General Manager Engg. (E), AAI, B.P. International Airport Bhubaneswar, shall be the Engineer-in-Charge of the work. You are requested to attend the office of the Dy. General Manager Engg. (E), AAI, B.P. International Airport, Bhubaneswar by 19.08.2021 to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100.00 (Rupees One Hundred only) and the cost of stamp paper shall be borne by you.

Cont...2

उप महाप्रबंधक अभियंता (विद्युत)
Dy. General Manager Engg. (Elect)

कार्यालय निदेशक विमानपत्तन, बिजु पटनायक अंतर्राष्ट्रीय हवाई अड्डा, भुवनेस्वर, भारतीय विमानपत्तन प्राधिकरण
Office of the Airport Director, Biju Patnaik International Airport, Bhubaneswar-751020, India
फोन: 0674-2596300, फैक्स: 0674-2596302

B.P. Airport, Bhubaneswar-20



3. कृपया इस पत्र के जारी होने के १० दिन के भीतर सुरक्षा जमा के लिए रु. ३८,०६,२३६.०० (अड़तीस लाख छह हजार दो सौ छत्तीस रुपया मात्र) जमा करवा दें, ऐसा नहीं करने पर उक्त रकम संविदा दस्तावेज के पृष्ठ १६ पर दी गई शर्त 1A के अनुसार आपके रनिंग बिल से काट ली जाएगी।

Please deposit Rs. 38,06,236.00 (Rupees Thirty Eight Lakh Six Thousand Two Hundred Thirty Six only) towards Security deposit within 10 days from the date of issue of this letter, failing which the same will be deducted as per conditions of Clause No - 1A page 16 of Clauses of the contract document.

4. आपसे अनुरोध है कि संविदा श्रमिक (विनियमन एवं समापन) अधिनियम १९७० और संविदा श्रमिक (विनियमन एवं समापन) केन्द्रीय नियमावली १९७१ बाल श्रम (निषेध और विनियमन) अधिनियम १९८६, निर्माण वर्कर्स (रोजगार और सेवा की शर्त का विनियमन) अधिनियम १९९६, भवन और अन्य निर्माण श्रमिक कल्याण अपकर अधिनियम १९९६ जैसा कि निविदा के जीसीसी के पृष्ठ संख्या ५१ पर धारा-१९ में जीसीसी आफ निविदा निर्दिष्ट है तथा केंद्रीय और राज्य सरकारों के नियमों का अनुपालन करें।

You are requested to comply with the provisions of Contract Labour (Regulation & Abolition) Act of 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 On Page No.51 of GCC of Tender and rules of Central and State Governments.

5. आपको निदेश दिए जाते हैं कि आप सहायक महाप्रबंधक(अभी-विद्युत)-२, भारतीय विमानपत्तन प्राधिकरण, बी.प.अ.हवाईअड्डा से तत्काल सम्पर्क करें जो कि आपको कार्यस्थल हस्तान्तर करने की व्यवस्था करेंगे।

You are also directed to contact the Asst. General Manager Engg(E)-II, AAI, B.P. International Airport, Bhubaneswar immediately, who will arrange to handover the site to you.

6. पया यह नोट कर लें कि काम पूरा करने का समय 06 (छह) महीने है, जिसे इस पत्र के जारी होने की तारीख से १० दिन बाद गिना जाएगा।

Please note that the time allowed for carrying out the work shall be 06(Six) Months and same shall be reckoned from 10th day after the date of issue of this letter.

उप महाप्रबंधक अभियंता (विद्युत)
Dy. General Manager Engg.(Elect)
भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India
बिजू पटनायक हवाई अड्डा, भुवनेश्वर
B.P. Airport, Bhubaneswar-20

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विद्युत अभियांत्रिकी अनुभाग
ELECTRICAL ENGINEERING WING

7. कृपया ध्यान दें कि त्रुटि की देयता अवधि कार्य समाप्ती होने का तारीख से १२(बारह) महीने की होगी।

Please note that the defect liability period shall be 12(Twelve) Months from the date of completion of work.

8. संविदा के संबंध में आगे किया जाने वाला पत्राचार सामान्यतः प्रभारी इंजीनियर से किया जाए।

Any further correspondence in connection with the contract should normally be addressed to the Engineer - in - Charge.

9. कृपया इस पत्र की पावती भेजें तथा साथ में संलग्न इस पत्र की दूसरी प्रति पर स्वीकारोक्ति के रूप में विधिवत हस्ताक्षर करके हमें वापस भेजें।

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

धन्यवाद / Thanking you,

भवदीय /Yours Faithfully,

 04/08/2024

उप महाप्रबंधक(अभि-विद्युत) / Dy. General Manager (Engg.-Elect.)

बी.प.अ. हवाईअड्डा, भुवनेस्वर / B.P.I Airport, Bhubaneswar

कृते अध्यक्ष, भा.वि.प्रा, नई दिल्ली / On behalf of Chairman, AAI, New Delhi.

संलग्न / Encl: शिड्यूल अफ क्वान्टिटीज / Schedule of quantities.

Copy to: (External)

1. Labour Commissioner (Central), Kendriya Shrama Sadan, Plot no. N-7/6 & 7, IRC Village, Behind ISCON Temple, Nayapalli, Bhubaneswar - 15, Odisha.
2. Regional Provident Fund Commissioner, Vabisyanidhi Bhawan, Janpath, Unit IX, Bhubaneswar, Odisha.
3. The Regional Commissioner, Employee State Insurance Corporation, Panchadeep Bhawan, Janpath, Unit IX, Bhubaneswar, Odisha.



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AIRPORTS AUTHORITY OF INDIA

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ELECTRICAL ENGINEERING WING

आंतरिक /Internal :

1. महाप्रबंधक (अभी), इ. आर. भा.वि.प्रा., एन.एस.सि.बि.आई हवाईअड्डा, कोलकाता।
The General Manager (Engg), ER, AAI, N.S.C.B.I Airport, Kolkata.
2. विमानपत्तन निदेशक, भा.वि.प्रा., बी.प.अ. हवाईअड्डा, भुवनेस्वर।
The Airport Director, AAI, B.P. International Airport, Bhubaneswar.
3. संयुक्त महाप्रबंधक (वित्त लेखा), भा.वि.प्रा., बी.प.अ. हवाईअड्डा, भुवनेस्वर।
The Jt. General Manager (F&A), AAI, B.P. International Airport, Bhubaneswar.
4. सहायक महाप्रबंधक (अभी.- विद्युत)- २, भा.वि.प्रा., बी.प.अ. हवाईअड्डा, भुवनेस्वर।
The Asst. General Manager (Engg. - Elect)-II, AAI, B.P. International Airport, Bhubaneswar.
5. प्रबंधक (अभि. - विद्युत)-२, भा.वि.प्रा., बी.प.अ. हवाईअड्डा, भुवनेस्वर।
The Manager (Engg.- Elect)-II, AAI, B.P. International Airport, Bhubaneswar.
6. अनुबन्ध फाइल/ Agreement Copy.
7. कार्य फाइल / The Works File.

उप महाप्रबंधक(अभि-विद्युत) / Dy. General Manager (Engg.-Elect.)
बी.प.अ. हवाईअड्डा, भुवनेस्वर / B.P.I Airport, Bhubaneswar
कृते अध्यक्ष, भा.वि.प्रा, नई दिल्ली / On behalf of Chairman, AAI, New Delhi.

उप महाप्रबंधक अभि-विद्युत (विद्युत)
Dy. General Manager Engg.(Elect)
भारतीय विमान पत्तन प्राधिकरण
Airports Authority of India
बिजु पटनायक हवाई अड्डा, भुवनेस्वर
B.P. Airport, Bhubaneswar-20

Airports Authority of India B.P.I Airport, Bhubaneswar.

Schedule of Quantity

Name of Work: Construction of ATC Tower cum Technical Block, Fire Station and E&M Workshop at B. P. I. Airport, Bhubaneswar. S.H. :-Provision of 11 KV Substation and allied works at CCR building.

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
1.00	H.T. PANEL BOARD 11KV H.T. (04) BREAKER SWITCH BOARD PANEL Supplying, installation, testing & commissioning of indoor type floor mounted metal clad, 11 KV VCB panel with 04 nos. VCBs(single panel), totally enclosed with electrical and mechanical interlocking system for both the incomers, trolley mounted(additional VCB handling trolley will not be acceptable), horizontal draw out type breaker as per IS:13118 & IEC 62271-200/100, as amended up to date and additional specifications, having capacities as mentioned below, single break, trip free mechanism, electrical as well as manually charged and electrical closing breaker system suitable for use on 11 KV, 3 Phase, 50Hz A.C. supply with short circuit fault level of 25KA for 3 sec with rated voltage 12KV & rated current 630Amp, complete with self contained, fully interlocked, rack in and rack out mechanism, air insulated but encapsulated copper bus bars of 800 Amps capacity, breaker featured with mechanical ON/OFF indicator with hand trip device, spring release coil, shunt trip coil and auxiliary switch of 6 NO + 6 NC and equipped with following switchgears and accessories i/c connections suitable for 3 X 185/300 sqmm. XLPE 11KV cable (cable entry from bottom), end termination with heat shrinkable jointing material etc. as required. (Note-Cost of end termination not included in this item) as per technical specification and site condition etc as required as per direction of E-I-C.(Note:-Closing Coil -24V/110V DC, Tripping coil -24V/110V DC, spring charging motor with 230V AC contactor 06 NO + 06 NC with test & service limit switch Actuator.) along with RS-485 or equivalent communication protocol in numeric relay as per tender spcification, as per site requirement and as per direction of Engineering In-Charge(Five years warranty certificate should be given from OEM for complete HT Panel).				
1.01	A) INCOMER - 2 nos. Min 800 Amp. VCB Each incomer will have the following:- i 1 no. 11 KV, PT Class 0.5 accuracy and 100 VA burden with 1 no. digital Voltmeter (0-15KV), selector switch for voltmeter and protection MCB for HT metering. ii 1 no. (0-400A) dual scale ~ammeter, digital type, selector switches for ammeters. iii Potential Transformer, Single Phase(03 Nos.) Cast Rasin, Draw Out type mounted below VCB, PTR:11KV/V3/110V/V3, 100VA, OVF 1.2 Const & 1.9 for 8 hours. iv 1 no. microprocessor based numerical relay with OIL, EIF, SIC protection, UVOV Protection, Flush Mounted with RS-485 Connector. v 1 no. set of dual core dual ratio 3 CT's 400/200/5/5A of 15 VA burden and accuracy Class-0.5 for Metering and class 5 P10 for protection. vi Multifunction digital meter to read A,V,KVA,KW,KVAR,KVAH,KAVARH,HZ,PF, CTR-5A, PTR-24VAC with RS 485 Port vii LED type phase indications lamps for R,Y,B, Breaker ON,OFF,TRIP, Trip circuit healthy, spring charge DC ON(110V AC) etc. viii Electrical & Mechanical interlocking arrangement among 2 nos. Incomers B OUTGOING - 02 (TWO) nos. 800 Amp. VCB Each outgoing will have the following:- i (1 no. (0-400 A) Ammeters, dual scale digital type & selector switches for Ammeters. ii 1 no. microprocessor based numerical relay with OIL, E/F and S/C protection. iii 1 no. of dual core dual ratio 3 CTs 100/50/5/5 A of 7.5VA burden and accuracy Class-0.5 for metering and class 5P10 for protection. iv Multifunction digital meter to read A,V,KVA,KW,KVAR,KVAH,KAVARH,HZ,PF etc. v LED type indications lamps for Breaker ON,OFF,TRIP, Trip circuit healthy, spring charge etc. vi All metering and protection devices, interconnections, necessary control wiring and all other accessories shall be provided as per Technical specifications & technical particulars. vii Trip circuit supervision Relay, Aux. Supply-24VDC-Flush mounted. viii Master Trip Relay, Aux Supply-24VDC-Flush Mounted. ix 10A, 2P DC supply ON/OFF Switch. x 10A, 2P AC supply ON/OFF Switch xi 10A, 2P Local/ Remote Selector Switch xii 25A, 220V DC, 1P, Trip Neutral Close(TNC) switch, Spring return xiii Space Heater (02 Nos.) with thermostat, 230V AC xiv Panel Illumination Lamp, LED type, 230V AC xv Buzzer, 230V AC xvi 4A MCB for PT Secondary-03 Nos, 2A MCB for Lamp circuit 24V DC-02 Nos., 6A MCB for Spring charging meter 230V AC-02 Nos., 16A MCB for plug point, space heater etc.-01 No, Neutral Link-02 Nos. xvii Annunciator for each incoming and out going feeder VCB	1.00	Job	1290000.00	1290000.00
2.00	BATTERIES & BATTERY CHARGER Supply, installation, testing and commissioning of 36 V Battery Charger & 18 (Eighteen) numbers of 2V 100 AH Valve Regulated Lead Acid (VRLA) batteries, Battery Charger shall be solid state, full wave fully controlled bridge, input suitable for single phase 230V +/- 10% AC supply, conforming to degree of protection IP-42, Sheet steel enclosure 1.6mm thick, with automatic voltage regulation, current limiting circuit, auto cut facility, smooth filter circuit switches, digital Ammeter & voltmeter on DC side, phase indicating lamps (LED type) on AC side complete in all respect with switchgear, earthing, powder coated painting etc as required. The battery charger shall have electronic health module which will monitor and indicate the health of connected batteries regularly. Suitable Iron angle stand for 18nos. 2V, battery bank shall be provided as per tender specification.	1.00	Job	310000.00	310000.00

Dy. General Manager Engg.(Elect)
 भारतीय विमान पत्तन प्राधिकरण
 Airports Authority of India
 विजु पटनायक हवाई अड्डा, भुवनेश्वर
 B. P. Airport, Bhubaneswar-20

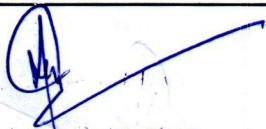
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
3.00	TRANSFORMER 11KV/0.433KV INDOOR TYPE TRANSFORMER Supply, installation, testing and commissioning of indoor type, 11/0.433 KV, min 1000KVA, 3Ph, 50 Hz, vector group Dyn-11, OIL COOL type, copper wound Transformer with off load tap changer on HV side to cater to voltage variation range of +7.5% to -7.5% in steps of 2.5%, suitable HV cable termination boxes on both sides (suitable for 11KV, 3 core x 400Sq.mm. XLPE cable on HT side and 3200 Amp TPN Busduct connection arrangement on LT side), complete with standard fittings, accessories and first filling of filtered dehydrated oil as per IS:1180 level 2 BIS with up to date amendments, including required transformer oil, oil temperature. indicator, winding temperature indicator, bucholz relay, marshalling box etc and as per Technical Specifications as per technical specification and site condition etc as required as per direction of E-I-C.	2.00	Job	1540000.00	3080000.00
4.00	HT CABLE SUPPLY OF HT CABLE Supply of following sizes of XLPE insulated PVC sheathed aluminium conductor armoured power cable of following KV grade conforming to IS : 7098 (Part-11) amended up to date.				
4.01	1) 3 Core, 300 Sq.mm. (11KV UE grade)	2200.00	Mtr	1240.00	2728000.00
5.00	HT CABLE END TERMINATION Supplying & making indoor cable end termination with heat shrinkable jointing kit complete with all accessories, including lugs suitable for following size of 3 core XLPE aluminium conductor cable of 11 KV grade complete as required. For 3 Core 300 Sq.mm cable				
5.01	3 Core, 300 Sq.mm. (11KV UE grade)	4.00	Sets	6400.00	25600.00
6.00	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size.				
6.01	3 Core, 300 Sq.mm. (11KV UE grade)	5.00	Sets	12700.00	63500.00
7.00	HT CABLE LAYING Laying of HT cable				
7.01	Laying of one number XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required Size: Above 120 sq. mm and upto 400 sq. Mm	2050.00	Mtr	100.00	205000.00
7.02	Laying of one number XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required Size: Above 120 sq. mm and upto 400 sq. Mm	100.00	Mtr	100.00	10000.00
8.00	Horizontal Boring				
8.01	Laying of HDPE pipe by HDD method including preparing & setting up plant & machinery including jointing reaming and pulling of HDPE pipe upto 200 mm dia pipe in soft soil as per technical specification and site condition etc as required as per direction of E-I-C.	60.00	RMtr	600.00	36000.00
8.02	Laying of HDPE pipe by HDD method including preparing & setting up plant & machinery including jointing reaming and pulling of HDPE pipe upto 200 mm dia pipe in rock area as per technical specification and site condition etc as required as per direction of E-I-C.	50.00	RMtr	700.00	35000.00
9.00	Supply and laying of HDPE pipe of 200 MM dia PE-100, PN-6 at a depth of 1.2 mtr below the ground as per site condition.	2050.00	Mtr	1005.00	2060250.00
10.00	LT CABLE Supply of following sizes of XLPE insulated PVC sheathed, aluminium conductor, armoured, power cable of 1.1 KV grade conforming to IS 7098 (Part I), 1988 amended up to date.				
10.01	3.5 Core, 240 Sq.mm.	534.00	Mtr	700.00	373800.00
10.02	3.5 Core, 185 Sq.mm.	1164.00	Mtr	550.00	640200.00
10.03	3.5 Core, 150 Sq.mm.	1284.00	Mtr	445.00	571380.00
10.04	3.5 Core, 70 Sq.mm.	902.00	Mtr	235.00	211970.00
10.05	4 Core, 25 Sq.mm.	83.00	Mtr	125.00	10375.00
11.00	Supplying of following sizes of 1.1 KV grade PVC insulated copper conductor armoured multistranded Control Cable complete as required.				
11.01	4 core, 2.5 Sq.mm. Copper Conductor cable	50.00	Mtr	125.00	6250.00
11.02	10 core, 2.5 Sq.mm. Copper Conductor cable	50.00	Mtr	230.00	11500.00
12.00	Supply of 1.0 Core x 150 Sqmm size 1.1 kv grade, XLPE insulated and PVC inner sheathed copper conductor armoured power cable conforming to IS: 7098(Part 1)1988 with upto date amendments etc. complete as required.	696.00	Mtr	1040.00	723840.00
13.00	Supplying and making end termination with brass single compression gland and copper lugs for 1.0 Core x 150 Sqmm PVC/XLPE insulated PVC sheathed copper conductor cable of 1.1KV grade as required.	16.00	Set	500.00	8000.00
14.00	LAYING OF LT CABLE Laying and fixing of one number armoured PVC insulated and 1 PVC sheathed 1XLPE power cable 1.1 kv of following size in the existing cable Trays/ Surface including providing suitable size 1 clamp to secure the cable in tray surface as required.				
14.01	Upto 35 Sq.mm (including control cables)	80.00	Mtr	50.00	4000.00
14.02	Above 35 sq. mm and upto 95 sq. Mm	5.00	Mtr	70.00	350.00
14.03	Above 95 Sq.mm. but not exceeding 400 Sq.mm.	25.00	Mtr	100.00	2500.00
15.00	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in the existing RCCI HUMEI STONEWARE METALICORRUGATED PIPE as required.				
15.01	upto 35 sq mm	10.00	Mtr	50.00	500.00
15.02	Above 35Sq.mm up to 400Sqmm	1100.00	Mtr	70.00	77000.00
16.00	Laying of one number PVC insulated and PVC sheathed/XLPE . lower cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
16.01	upto 35 sq mm	10.00	Mtr	50.00	500.00
16.02	Above 35Sq.mm up to 400Sqmm	205.00	Mtr	70.00	14350.00

उप महाप्रबंधक अभियंता (वैद्युत)
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 Airport Authority of India
 विजु पटनगर हवाई अड्डा, भुवनेश्वर
 B. P. Airport, Bhubaneswar-20

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
17.00	Laying of one number armoured PVC/XLPE insulated and PVC sheathed 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.				
17.01	Upto 35 sq mm	5.00	Mtr	350.00	1750.00
17.02	Above 35 Sq.mm. but not exceeding 95 sq.mm.	5.00	Mtr	400.00	2000.00
17.03	Above 95 Sq.mm. but not exceeding 185 sq.mm.	5.00	Mtr	450.00	2250.00
17.04	Above 185 Sq.mm. but not exceeding 400 sq.mm.	5.00	Mtr	500.00	2500.00
18.00	L.T. CABLE END TERMINATION Supplying and making end termination with brass compression gland and Aluminum lugs for following size of XLPE insulated PVC sheathed aluminium conductor armoured power cable of 1.1 KV grade as required.				
18.01	3.5 Core, 240 Sq.mm.	8.00	Set	1000.00	8000.00
18.02	3.5 Core, 185 Sq.mm.	22.00	Set	800.00	17600.00
18.03	3.5 Core, 150 Sq.mm.	4.00	Set	700.00	2800.00
18.04	3.5 Core, 70 Sq.mm.	22.00	Set	500.00	11000.00
18.05	4 Core, 25 Sq.mm.	4.00	Set	400.00	1600.00
19.00	Supplying and making end termination with brass compression gland and Copper lugs for following size of PVC sheathed copper conductor armoured control cable of 1.1 KV grade as required.				
19.01	4 C x 2.5sqmm	16.00	Set	250.00	4000.00
19.02	10 C x 2.5sqmm	12.00	Set	400.00	4800.00
20.00	CABLE TRAY Supplying and installing following size of perforated painted with powder coating G.I. cable trays Tee with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders as per technical specification and site condition etc as required as per direction of E-I-C.				
20.01	100mm width x 54mm depth x 2.0mm thickness.	50.00	Mtr	400.00	20000.00
20.02	200/150 mm width x 54mm depth x 2.0mm thickness.	150.00	Mtr	470.00	70500.00
20.03	400mm width x 54mm depth x 2.0mm thickness.	250.00	Mtr	890.00	222500.00
20.04	600/500 mm width x 54mm depth x 2.0mm thickness.	50.00	Mtr	1065.00	53250.00
21.00	LT BUS DUCT (SANDWICH INSULATED BUS DUCT) Supply, Installation, Testing and Commissioning of following rating pre-fabricated sandwiched bustrunking suitable for 3 Phase 4 Wire, 415 V, 50 Hz AC supply system with aluminium busbars complete with bends, expansion joints, fire barriers, copper flexible end connection at both ends, earthing with 2 runs of GI earth of size 50mm x 6mm strips i/c necessary supports etc as per specifications attached. (Made out of 1.6 mm thick CRCA sheet steel / GI enclosure with powder coated painting, IP 54 degree of protection (minimum), complete with proper supporting arrangement with suspenders / brackets etc) Note: The bustrunking shall be measured along with length centreline of enclosure. The aluminium strips which will go inside LT panels and end termination boxes of transformers shall not be taken into measurement of bustrunking quantity including flexible coupling to terminate with panels and busduct end box along with all accessories as per technical specification and site condition etc as required as per direction of E-I-C.				
21.01	1250 A, Four pole busduct	100.00	Mtr	15025.00	1502500.00


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 B.P. Airport, Bhubaneswar-20

Sl.No	Description of Work / Item(s)	No. of Qty	Units	Rate	Amount
22.00	LT PANEL NON-ESSENTIAL PANEL Design, manufacture supply, installation, testing and commissioning of main LT Panel, cubicle & modular type, made of 2 mm thick sheet steel for frame work and covers, 3mm thick for gland plates, totally enclosed, IP 42, free standing, floor mounting, dust and vermin proof, indoor, compartmentalised, including cleaning & finishing complete with 7 tank process, powder coated, painting, suitable for operation on 3 Phase and neutral, 415v, 50 Hz AC system with Al.busbars extensible on both sides, fabrication shall be done in transportation sections, entire panel shall have a common copper earth bar of size 25mm x 5mm at the rear with 2 nos, earth stud, control wiring with 2.5 sq.mm. PVC insulated copper conductor, cable alloys, cable gland plates in two half, interconnections including supply & installation of following items and as per technical specification and site condition etc as required as per direction of E-I-C:(ACB should be mount on single tire only)				
22.01	A) INCOMER i) 2 nos. ACB, EDO type 1250A, FP, fault braking capacity Ics=Icu up to 433V) 65 kA, (for Transformers) motor wound spring charged closing mechanism, drawout type ACB with microprocessor based release having short circuit, over current, earth fault, zone selective interlocking features with communication module RS 485 . ii) 2 nos. Digital Voltmeter, accuracy class 1, suitable range for 3 phase, 4 wire operation with LED display and built-in selector switch along with 3 nos. of 2 Amp SP 1 MCBs. iii) 2 sets Indication Lamps, LED type for R,Y ,B and breaker 'ON', 'OFF', 'TRIP' indications with 2 Amp MCBs for protection. 96 mm sq. Flush pattern Digital Type Ammeter of suitable range (to measure 0-2000A), for 3 phase 4 wire operation with LED iv) display and selector switch with 3 numbers of class 1.0 accuracy, 15 VA burden & suitable range CTs.- 2 sets. v) 2 nos.(I for each transformer incomer) of current transformer Class 1,15 VA for APFC Relay. B) Bus Bars 1 set of high conductivity Aluminium bus bars of minimum 2000 Amps capacity, TPN with heat shrinkable coloured sleeves and i/c DMCISMC busbars supports at required intervals. C) Bus coupler i) 1 Nos. ACB, 1250A, EDO type FP, 65 kA, (Ics=Icu=Icw=65KA foe 1 sec).motor wound spring charged closing mechanism, drawout type ACB without release ii) 1 Sets Indication Lamps, LED type for 'ON' , 'OFF', 'TRIP' indications with 2 Amp SP/MCBs, auxiliary contact contactors for positive electrical interlocking of breakers etc. as required. D) Accessories for Electrical & Mechanical Interlocking i) Electrical & mechanical interlocking arrangement as per drawing and specifications among 2 nos. Incomers for transformer and 1 no. Bus coupler including interconnections etc. as required. E) Outgoing i) 2 nos. ACB, EDO type 1250A, FP, breaking capacity 65 kA (Ics=Icu up to 433V), drawout type ACB with microprocessor based release having short circuit, over current, earth fault protection. ii) 2 Nos. MCCB, 630A,65 kA, pour Pole , with microprocessor based release having Over current, Short Circuit, Earth Fault Protection (Ics=Icu). iii) 2Nos. MCCB, 400A, 65 kA, Four Pole, with microprocessor based release having Over Current, Short Circuit, Earth Fault Protection (Ics=Icu). iv) Digital Ammeter (for 3 Phase 4 wire operation with LED display and selector switch) with 3 nos CT of required ratings for all out goings v) Intelligent multi function digital meter to read V,A,KVA, KW, KVAR, PF, Hz etc with communication facility (RS485 module) and LED display with 3 Nos CTs, 15 VA, class 1.0 and control circuit wiring with HRC control fuses 1 MCBs for all out goings vi) (1 Set for all out goings ACB) of Indicating lamps, LED type, for breaker "ON", "OFF", "TRIP" indication with HRC control fuses/MCBs . vii) (1 set for all out goings MCCB) of Extended Rotary operating mechanism, terminal extension spreaders and "ON", indication with HRC control fuses1MCBs.	1.00	Job	1840000.00	1840000.00


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 B. P. Airport, Bhubaneswar-751 005

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
23.00	MAIN Distribution LT PANEL Design, manufacture supply, installation, testing and commissioning of main LT Panel, cubicle & modular type, made of 2 mm thick sheet steel for frame work and covers, 3mm thick for gland plates, totally enclosed, IP 42, free standing, floor mounting, dust and vermin proof, indoor, compartmentalised, including cleaning & finishing complete with 7 tank process, powder coated, painting, suitable for operation on 3 Phase and neutral, 415v, 50 Hz AC system with Al.busbars extensible on both sides, fabrication shall be done in transportation sections, entire panel shall have a common copper earth bar of size 25mm x 5mm at the rear with 2 nos, earth stud, control wiring with 2.5 sq.mm. PVC insulated copper conductor, cable alloys, cable gland plates in two half, interconnections including supply & installation of following items and as per technical specification and site condition etc as required as per direction of E-I-C.. ACB should be mount on single tire only)				
23.01	A) INCOMER i) 4 nos. ACB, ED0 type 1250A, FP, fault braking capacity Ics=Icu up to 433V) 50 kA, (for Transformers) motor wound spring charged closing mechanism, drawout type ACB with microprocessor based release having short circuit, over current, earth fault, zone selective interlocking features with communication module RS 485 ii) Digital Voltmeter, accuracy class 1, suitable range for 3 phase, 4 wire operation with LED display and built-in selector switch along with 3 nos. of 2 Amp SP 1 MCBs for all incomers. iii) 2 sets Indication Lamps, LED type for R,Y ,B and breaker 'ON', 'OFF', 'TRIP' indications with 2 Amp MCBs for protection. 96 mm sq. Flush pattern Digital Type Ammeter of suitable range (to measure 0-2000A), for 3 phase 4 wire operation with LED for all incomers. iv) Display and selector switch with 3 numbers of class 1.0 accuracy, 15 VA burden & suitable range CTs.- for all incomers.. B) Bus Bars 1 set of high conductivity Aluminium bus bars of minimum 1600 Amps capacity, TPN with heat shrinkable coloured sleeves and i/c DMCISMC busbars supports at required intervals. C) Bus coupler i) 1 Nos. ACB,1250A, ED0 type FP, 50 kA, motor wound spring charged closing mechanism, drawout type ACB without release ii) 1 Sets Indication Lamps, LED type for 'ON' , 'OFF', 'TRIP' indications with 2 Amp SP/MCBs, auxiliary contact contactors for positive electrical interlocking of breakers etc. as required. D) Accessories for Electrical & Mechanical Interlocking i) Electrical & mechanical interlocking arrangement as per drawing and specifications among 4 nos. Incomers for transformer and 1 no. Bus coupler including interconnections etc. as required. E) Outgoing i) 02 Nos. MCCB, 200A, 50 kA, Four Pole, with microprocessor based release having Over Current, Short Circuit, Earth Fault Protection (Ics=Icu). ii) 16 Nos. MCCB, 160A, 50 kA, Four Pole, with microprocessor based release having Over Current, Short Circuit, Earth Fault Protection (Ics=Icu). iii) 02 Nos. MCCB,63A, 50 kA, Four Pole, with microprocessor based release having Over Current, Short Circuit, Earth Fault Protection (Ics=Icu). iv) Digital Ammeter (for 3 Phase 4 wire operation with LED display and selector switch) with 3 nos CT of required ratings for all out goings v) Intelligent multi function digital meter to read V,A,KVA, KW, KVAR, PF, Hz etc with communication facility (RS485 module) and LED display with 3 Nos CTs, 15 VA, class 1.0 and control circuit wiring with HRC control fuses 1 MCBs for all out goings vi) (1 Set for all out goings ACB) of Indicating lamps, LED type, for breaker "ON", "OFF", "TRIP" indication with HRC control fuses/MCBs all out goings. vii) (1 set for all out goings MCCB) of Extended Rotary operating mechanism, terminal extension spreaders and "ON", indication with HRC control fuses1MCBs all out goings.	2.00	Job	2500000.00	5000000.00


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Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
24.00	Design, fabrication, assembly, wiring, supply, erection, testing and commissioning of Hybrid Solution to achieve 1.0 or 0.99 Lag power factor with following rating incomer of MCCB as specified below, 415V, 50Hz, 3 phase, 36KA (ICS=ICU) System. The system shall be of design as per IS 16636. The degree of protection of enclosures system shall be IP42 in accordance with IEC 60529. The switching device of the active compensation system shall be IGBT based. The active compensation system specifications are mentioned below. The active compensation system should filter all type of harmonics from 2nd to 51st individual harmonic order and shall be selectable for the entire range. The active compensation system should have feature to improve PF correction as well. The active compensation system should have a Multi master operation. Response time shall be 100 micro Sec or less. (Panel shall be designed with appropriate heat ventilation and separation of components).				
24.1	The Hybrid should deliver the specified output at 415V The Hybrid Solution should comprise of a minimum of 35% Active filter by capacity. Incomer shall be of 630A MCCB, 415V, 50Hz, 3 phase, 36KA (ICS=ICU) - The Active harmonic filter Incomer shall be of MCCB 200A, 415V, 50Hz, 3 phase, 36KA (ICS=ICU) and contactor shall be 200A TP AC3 duty. - The capacitor shall be of MPP Type of required ratings @525V - Detuned reactor shall be of 7% Aluminium of required ratings - Each capacitor bank shall have Incomer of MCCBs of required rating - Capacitors shall be as per MPP low loss as per standards. - Contactors based switching - APFC Relay controlling for Bank The system should be with compatible with Grid Power OR D.G. Power Supply. The Hybrid Solution described as above complete in all respect as per specification enclosed, up to the entire satisfaction of engineer In Charge. Busbar and switchgears shall be as per followings and as per specifications. Bus Bar Specifications 630A Electrolytic high conductivity Aluminium extensible three phase and neutral busbars of required ratings & auxiliary Bus Bars of suitable capacity insulated with heat shrinkable coloured PVC sleeves & clip on shrouds for joints having a maximum current density as per Indian standards suitable to with stand symmetrical fault level of atleast 36 kA at 415 volts i/c polyamide/smc/dmc bus bars supports at required intervals complete for cross section, size supports & their spacing etc. The neutral busbar is to be of 100 % capacity. Display and indications 7 inch LCD touchscreen for all parameters related to IGBT based system - 01 No The LCD should display all parameters like Currents, Fundamental Current, ITHD, ITDD, Aunb, Voltages, vTHD, kW, KVAR, KVA, PF, dPF, Filter Current, Filter Loading (%), Stack Temperature, Ambient Temperature, Filter Runtime, System Runtime etc and also have the provision of a proper fault log which can be exported to an external storage device LCD should be capable of displaying individual harmonics for currents and voltages upto 51st order, LCD should be capable of simultaneously displaying current and voltage waveforms. User should be able to select the phases to display. HMI Shall have Ethernet port, USB Port and SD card port, Modbus TCP for communication protocol, IGBT based Active technology (No use of low power discrete IGBTs), IGBT based 3-Level stacks with complete forced cooling arrangement, Single phase, toroidal, powder core, low loss, low noise inductor designed for high frequency application with noise level < 70dB. System should use a single inductor/phase All required hardwares, softwares, protections, cards, inscription plates, Danger notice board etc., as required to be provided to complete the system Long life Aluminium DC capacitors to be used for DC link High speed semi conductor fuses to protect power stack and contactor, Full output without de-rating upto 45degrees ambient. 45 to 55 degrees with derating Under voltage, Over voltage, Over load, Over DC, Over temperature, Fuse failure, Contactor abnormal etc protections to be Provided, Temperature Sensor to be provided in each cubicle for all panels and suitable to map on BMS. corrections in current THD levels/Power factor as per requirement Ratings 300 KVAR (minimum active filter of 150A plus 200 KVAR detuned PFC)	2.00	Job	1040000.00	2080000.00
25.00	EARTHING 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. Including charcoal and salt complete as required.	14.00	Set	15500.00	217000.00
26.00	Earthing with G.I. earth plate 600mm x 600mm x 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. including charcoal and salt complete as required.	12.00	Set	9300.00	111600.00
27.00	Providing & fixing of 50mm x 5mm copper strip on surface or recess for earth connection as required.	75.00	Mtr	1915.00	143625.00
28.00	Supply & fixing of 50 mm x 5mm copper strip in 80 mm dia GI pipe from earth electrode as required.	250.00	Mtr	2435.00	608750.00
29.00	Providing & fixing of 50mm x 5mm G.I. strip on surface or recess for earth connection as required.	250.00	Mtr	260.00	65000.00
30.00	Supplying and laying 25 mm x 5 mm GI strip at 0.50 m below ground level as strip earth electrode, including soldering etc. as required.	350.00	Mtr	290.00	101500.00
31.00	Providing & fixing of 25mm x 5mm GI strip on surface or in recess for earth connection as required.	150.00	Mtr	260.00	39000.00
32.00	Supply of Rubber Hand Globes suitable for 11 KV operation.	2.00	Pair	1000.00	2000.00
33.00	Supply and fixing Fire Buckets 12 liter capacity painted in post office red colour and written with white paint 'FIRE' filled with Dry Sand and suitable hanging arrangement & conforming IS 2546 - 1974 for hanging on canopy type MS Structure.	2.00	Each	500.00	1000.00
34.00	Supply of First Aid Box containing material as prescribed by St. John Ambulance brigade OR Indian Red Cross conforming to IS 2217-1963.	2.00	Each	2500.00	5000.00
35.00	Supply and fixing of flame retardant electrical insulation mat of 2.0 mm thick to withstand up to 3.3 kV conforming to IS 15652:2006 with up to date amendments and having minimum width 1000mm (±20mm). The sufficient of adhesive/compound shall be supplied to fix the insulation mat on the front/rear side of electrical installation. Mat shall be ISI marked. Its leakage current at 3.3 KV shall not be more than 10 MA. The mat shall be welded by hot gas welding with filler material method by making V groove cut at joints with suitable welding cord of insulating material of matching colour to provide a seamless jointed surface as per IS :8002.	80.00	RM	750.00	60000.00

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Sl.No	Description of Work / Item(s)	No. of Qty	Units	Rate	Amount
36.00	Supply and fixing of flame retardant electrical insulation mat of minimum 2.5mm thick to withstand up to 11 kV conforming to IS 15652:2006 with up to date amendments and having minimum width 1000mm (±20mm). The sufficient of adhesive / compound shall be supplied to fix the insulation mat on the front/rear side of electrical installation. Mat shall be ISI marked. Its-leakage current at 33 KV shall not be more than 10 MA. The mat shall be welded by hot gas welding with filler martial method by making V groove cut at joints with suitable welding cord of insulating material of matching colour to provide a seamless jointed surface as per IS :8002.	25.00	RM	1000.00	25000.00
37.00	Supplying and Fixing of the following danger1 Caution notice boards as per the I.E. specifications.				
37.01	Danger board for 11KV size 250mm x 200mm x 2mm thick.	4.00	Each	250.00	1000.00
37.02	Danger board for 433V size 250mm x 200mm x 2mm thick.	4.00	Each	250.00	1000.00
37.03	Caution board printed in signal red "Man on Line" size 250mm x 200mm x 2mm thick. .	4.00	Each	250.00	1000.00
37.04	Caution board printed in signal red "Don't switch on" size 250mm x 200mm x 2mm thick.	4.00	Each	250.00	1000.00
38.00	750KVA SILENT TYPE DG SET WITH DG SET CONTROL MODULE Supply, installation, testing and commissioning of 750 KVA Silent type D.G Set as per CPCB norms II with DG set controller module mounted on DG set having AMF control, auto synchronizing, inbuilt metering & protection, communicable port (RS485) etc. facilities and 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, Radiator, four stroke, electric start, turbo-charged & after cooled conforming to BS: 55 14 with all standard accessories, coupled with Alternator of 750 KVA rating, brushless, self excited, self regulated and suitable for continuous operation, generating 415 V+/-5% Volts 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 up to 10 meter (to be concealed under floor), exhaust pipe line with insulation as per OEM (C class MS pipe) as per site condition (to be erected with sufficient M.S supports and hood on top), required accessories and radiator , Ant vibration mountings, residential type silencer, electric starter, minimum batteries-02 nos of 180AH & battery charger, fuel tank of 990 ltrs. capacity with level indicator, other standard accessories etc complete as required for successful installation and commissioning of the DG sets as per site condition including necessary foundation as per OEM recommendation including Supply, Installation, Testing & Commissioning AMF panel(TTA Panel) with two nos of four pole, 50 KA, EDO type 1250KVA microprocessor based released type ACB(with undervoltage protection,shunt trip,over voltage protection, short circuit, over current, earth fault protection with electrical interlocking with two ACB and other protection as required as per site condition) with all control wiring as per OEM etc. as required as per site condition for automatic operation. Note: Necessary provision should be provided for two sets of incoming & out going BUS DUCT of rating 1250A through flexible copper link etc as per site condition and tender specification as directed by	2.00	Job	5583000.00	11166000.00
39.00	Supply, installation, testing, and commissioning of single spike air terminals of 16 mm dia. of 1.5 Meter lengths as required and as per site conditions. the air terminal shall be manufactured with copper. The terminal shall be provided with the integrated / attached threaded base support suitable for mounting the terminals as per site condition. The base support shall be minimum 3 mm thick and shall have inbuilt connector fitting for connection of lightning conductor in such way that conductor contact area shall not be less than 40mm on all side of the conductor. The air terminals shall be supplied with the intermediate guywire supports to make it stable in case of high wind	2.00	Each	7075.00	14150.00
40.00	Supply, Installation, testing and commissioning of 240 kA 3 phase 4 wire Digital Portable Low Impedance equipment Grounding & bonding system with built in 100% Lightning and Surges suppressor, static charge, Noises, ESD, EPR and abnormal electrical characteristics eliminator which enter from power and other service lines and ensuring clear bonding potential (earth to Neutral voltage) less than 1.0V, a digital 6 digit lightening surge counter, self health visual status indicator and ON-LINE remote monitoring facility of Earth-Neutral voltage in a Pre-wired pulverulent body painted metal enclosure to be connected in parallel to the power supply circuit, Conforming to IEC , CE Marked, CPRI tested as per site condition.	3.00	Each	225000.00	675000.00
41.00	Dismantalling,shifting and re installation of Existing 320 KVA DG sets from existing T2 power house to New CCR substation along with exhaust piping system,supporting MS structure as per site, 990 Liters fuel tank including necessary MS Piping work, foundation work with 1:2:4 as per the OEM recommendation including necessary testing and commissioning (HSD will be supplied by AAI) as directed by Engg In Charge as per site conditions.	2.00	Each	350000.00	700000.00
42.00	Providing and fixing ABC powder type fire extinguishers consisting of welded MS cylindrical body automatic modular ABC powder type extinguisher actuated through a sprinkler head mounted on the extinguisher body finished externally with red enamel paint and fixed to wall with brackets complete with internal charge.Minimum 4.0 KG	4.00	Each	6500.00	26000.00
43.00	Providing and fixing Co2 type fire extinguisher as per IS 2878 with discharge time of 10 sec to 18 sec and gas storage pressure of 85 kgf/sq cm fixed to wall with brackets complete with internal charge.6.5KG	4.00	Each	8800.00	35200.00
44.00	Rate for each one rupee value of work executed from the DSR-2018 (Electrical) Schedule & cost worked out on the basis of DSR-2018 (Electrical) rates. {For example, if the quoted rate for this item is Rs.0.90, then for executing DSR-2018 (Electrical) schedule works of value Rs.1,00,000.00 at DSR-2018 (Electrical) rates, the quoted amount will be Rs.90,000.00. And if quoted rate for this item is Rs.1.25, then quoted amount for the same will be Rs.1,25,000.00}{Note:-Excluding all above items)	715623.00	Each	1.00	715623.00

Total Rs. 38062363.00

(Rupees Three Crore Eighty Lakh Sixty Two Thousand Three Hundred Sixty Three only)

Note: GST extra as applicable


Dy. General Manager (Engg.-Elect.)
B.P.I Airport, Bhubaneswar.
On behalf of Chairman, AAI, New Delhi.