

संदर्भ सं.: भा.वि.प्रा./BBSR/ सहायक महाप्रबंधक (अभि- विद्युत)/WO-39/2025-26/98-102 दिनांक: 05.01.2026.

सेवा में/To,

मेसर्स पवई कंस्ट्रक्शन
M/s Pavée Construction
मेन स्ट्रीट गोंडर 35 विला,
Main Street Gonder 35 Vill
गोंडर, करनाल
Gonder, Karnal
हरयाणा -132024/Haryana:-132024.

#स्पीडपोस्ट द्वारा/ By Speed Post#
e-mail:paveeconstruction@gmail.com

कार्य का नाम: प्रोविंसिओं /ऑगमेंटेशन ऑफ पावर सप्लाई सिस्टम इन्क्लूडिंग एलटी पैनल एंड केबल्स एट बी.पी.आई. एयरपोर्ट, भुवनेश्वर।

Name of Work: Provision/Augmentation of Power Supply System Including LT Panel and Cables etc at B.P.I. Airport, Bhubaneswar.

महोदय/Dear Sir(s),

Ref: Your e-Tender opened dated 17.12.2025 for Tender ID No.2025_AAI_253303_1.

1. उपरोक्त कार्य के लिए आपकी निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आप द्वारा उद्धरित मद दर जिसकी कुल राशि रु.1,69,42,300.00(एक करोड़ उनसठ लाख बयालीस हजार तीन सौ रुपया मात्र)जीएसटी को छोड़करजो कि निविदा की अनुमानित लागत रु.2,28,62,728.00.से 25.90%कम है, स्वीकृत की जाती है।

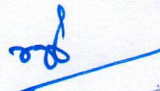
Your e-Tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at item rates quoted by you totaling to Rs.1,69,42,300.00(Rupees One Crore Sixty Nine Lakhs Forty Two Thousand and Three Hundred Only) Excluding GST which is 25.90%(Twenty Five Point Nine Zero Percent) below the Justified cost of Rs.2,28,62,728.00.

2. सहायक महाप्रबंधक(अभि-विद्युत), भारतीय विमानपत्तन प्राधिकरण, बी.पी.आई. हवाई अड्डा, भुवनेश्वर इस कार्य के इंजीनियरिंग प्रभारी होंगे। आपसे अनुरोध है कि आप निविदा करार पर हस्ताक्षर करने एवं उसे पूरा करने हेतु दिनांक 16.01.2026 के अंदर सहायक महाप्रबंधक(अभि-विद्युत), भारतीय विमानपत्तन प्राधिकरण, बी.पी.आई. हवाई अड्डा, भुवनेश्वर के कार्यालय में उपस्थित हों। निविदा करार रु 100/- (सौ रुपये मात्र) के न्यायिकेतर (नॉन ज्युडिशियल) स्टाम्प पेपर पर बनाया जाएगा और स्टाम्प पेपर की लागत आपको वहन करनी होगी।

Asst. 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 Asst. General Manager Engg. (E), AAI, B.P. International Airport, Bhubaneswar by 16.01.2026 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.

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सहायक महाप्रबंधक अभियांत्रिकी (विद्युत)
Asst. General Manager Engg. (Elect.)
भा.वि.प्रा. अंतरराष्ट्रीय हवाई अड्डा
AAI, Biju Patnaik International Airport
भुवनेश्वर/Bhubaneswar

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3. कृपया इस पत्र के जारी होने के 10 दिन के भीतर सुरक्षा जमा के लिए रु. **16,94,230.00** (सोलह लाख चौरानवे हजार दो सौ तीस रुपया मात्र) जमा करवा दें, ऐसा नहीं करने पर उक्त रकम संविदा दस्तावेज के पृष्ठ 17 पर दी गई शर्त 1A जीसीसी के अनुसार आपके रनिंग बिल से काट ली जाएगी।

Please deposit **Rs.16,94,230.00 (Rupees Sixteen Lakhs Ninety Four Thousand Two Hundred and Thirty 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 GCC page 17 of Clauses of the contract document.

4. आपसे अनुरोध है कि संविदा श्रमिक (विनियमन एवं समापन) अधिनियम 1970 और संविदा श्रमिक (विनियमन एवं समापन) केन्द्रीय नियमावली 1971 बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण वर्कर्स (रोजगार और सेवा की शर्त का विनियमन) अधिनियम 1996, भवन और अन्य निर्माण श्रमिक कल्याण अपकर अधिनियम 1996 जैसा कि निविदा के जीसीसी के पृष्ठ संख्या 68 पर धारा 19 में जीसीसी आफ निविदा निर्दिष्ट है तथा केन्द्रीय 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.68 of GCC of Tender and rules of Central and State Governments.

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

You are also directed to contact the **Manager Engg(E)**, 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 **08 (आठ) महीने** है, जिसे इस पत्र के जारी होने की तारीख से 10 दिन बाद गिना जाएगा।

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

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7. कृपया ध्यान दें कि त्रुटि की देयता अवधि कार्य पूरा होने की तारीख से बारह महीने की होगी।

Please note that the defect liability period shall be **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 ध्यान दें कि यदि उपरोक्त हिंदी और अंग्रेजी संस्करण के प्रावधान में कोई अंतर/विसंगति या विरोधाभास है तो अंग्रेजी संस्करण मान्य होगा।

Please note if there is any difference/discrepancy or contradiction in the provision of Hindi and English version in above the English version shall prevail

10. 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,

सहायक महाप्रबंधक (अभी. - विद्युत) /Asst.GM.Ehgg. (Elect.)

भा.वि.प्रा., बी.प.अ. हवाईअड्डा, भुवनेश्वर /AAI, B.P.I. Airport, Bhubaneswar
कृते अध्यक्ष, भाविप्रा, नई दिल्ली/on Behalf of Chairman AAI New Delhi

संलग्न / Encl: 1. शिड्यूलऑफ क्वान्टिटीज / Schedule of quantities.

मंजूर
सहायक महाप्रबंधक (अभी. - विद्युत)
Asst.General Manager (Elect.)
भा.वि.प्रा./बी.प.अ. अंतरराष्ट्रीय हवाई अड्डा
AAI,Biju Patnaik International Airport
भुवनेश्वर/Bhubaneswar-751020

Copy to:-

N.O.O. (External) :

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

आंतरिक / Internal :

1. विमानपत्तन निदेशक, भा.वि.प्रा., बी.प.अ. हवाई अड्डा, भुवनेश्वर।
The Airport Director, AAI, B.P. International Airport, Bhubaneswar.
2. उप महाप्रबंधक (वित्त लेखा), भा.वि.प्रा., बी.प.अ. हवाई अड्डा, भुवनेश्वर।
The Dy. General Manager (F&A), AAI, B.P. International Airport, Bhubaneswar
3. उप महाप्रबंधक (अभि. - विद्युत), भा.वि.प्रा., बी.प.अ. हवाई अड्डा, भुवनेश्वर।
The Dy. General Manager (F&A), AAI, B.P. International Airport, Bhubaneswar
4. प्रबंधक (अभि. - विद्युत) भा.वि.प्रा., बी.प.अ. हवाई अड्डा, भुवनेश्वर।
The Manager (Engg. - Elect), AAI, B.P. International Airport, Bhubaneswar
5. अनुबन्ध फाइल / Agreement Copy.
6. कार्य फाइल / The Works File.

सहायक महाप्रबंधक (अभि. - विद्युत) / Asst. GM Engg. (Elect.)
भा.वि.प्रा., बी.प.अ. हवाई अड्डा, भुवनेश्वर / AAI, B.P. I. Airport, Bhubaneswar
कृते अध्यक्ष, भाविप्रा, नई दिल्ली / on Behalf of Chairman AAI New Delhi

AIRPORTS AUTHORITY OF INDIA
B.P.INTERNATIONAL AIRPORT BHUBANESWAR-751020

Schedule of Quantity

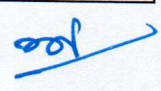
Name of work:-Provision/Augmentation of Power Supply System Including LT Panels and Cables etc at B.P.I. Airport, Bhubaneswar

Sl No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
	ESSENTIAL DISTRIBUTION LT PANEL:- Design, Supply, Installation, Testing and commissioning of cubicle type IP 42, MV TTA, Panel-type tested designed as per IEC 61439-1 & 2 , suitable for 415 V, 3 Phase, 4 wire 50 Hz AC supply, made out of 2 mm thick CRCA sheet for frame work, doors and covers, 3 mm thick for gland plates, dust tight, vermin proof, totally enclosed, floor mounting, free standing, extensible on both sides i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade , having 1000 Amps capacity FP Aluminium bus bars of high conductivity,DMC/SMC bus bar supports with short circuit withstand capacity of 35 KA for 1Sec., 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 to minimum 50 mm x 5 mm at the rear with 2 nos earth stud, 20% spare space of outgoing in Panel, solid connections from main bus bars to switch gears with required size of Aluminium bus bars and control wiring with 2.5 Sq.mm. FRLS PVC insulated copper conductor cable, cable alleys, cable gland plates suitable for indoor operation , complete with all accessories, connection, interconnection, earthing, including provision of SPD's. Surge Protection Devices (SPD'S) shall be provided at Sub Distribution LT Panel (Type 2 / Class C) i/c providing following switchgears /accessories as per specifications.etc., as required (Sub-Essential Panel at old Substation Room).	JOB	1.00	1650000.00	1650000.00
A)	INCOMERS - 2 Nos and each incomer shall comprises of following				
i)	01 Nos. 800 A FP,ics=lcu= 35KA at 440 V, MCCB with microprocessor based release having inbuilt adjustable Over current, Short Circuit and Earth Fault Protection with spreader links i/c extended rotary handle mechanism and LED indication lamps for ON/OFF/TRIP along with control MCB.				
ii)	01 Set Intelligent digital multi function meter of class 0.5 to read V,A, F, KVA, KW, KVAR, KWH, KVAH, PF, Hz etc with communication facility (RS485 port). LED display with required Nos CTs of suitable range,15 VA, class 0.5 and control circuit wiring along with control MCBs etc.				
iii)	1 no. 96 sqmm Digital Voltmeter, accuracy class 0.5 of suitable range along with inbuilt selector switch and suitable for 3 phase, 4 wire operation with LED display with built-in selector switch along with control MCBs etc.				
iv)	1 set 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers of class 0.5 accuracy, 15 VA burden & suitable range CTs.				
v)	1 Set of LED type Indication Lamps, R,Y,B and breaker 'ON', 'OFF', 'TRIP' each protected with 2 Amp. SP MCB.				

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Asst. General Manager Engg. (Elect.)
AAI, Biju Patnaik International Airport
Bhubaneswar-751020

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
B)	Bus Bars				
i)	1 set of high conductivity 4 pole (TPN) Aluminium bus bars of minimum 1000 Amps capacity having 100% neutral bus as that of phase bus with heat shrinkable coloured sleeves i/c DMC / SMC busbars supports at required intervals. The bus bar shall be extensible at both ends.				
C)	Bus coupler				
i)	01 Nos. 800 A FP , $I_{cs}=I_{cu}= 35KA$ at 440 V, MCCB with microprocessor based release having inbuilt Adjustable Over current, Short Circuit, Earth Fault Protection with spreader links i/c extended rotary handle mechanism and LED indication lamps for ON and OFF protected with 2 A MCB.				
ii)	1 Set Indication Lamps, LED type 'ON', 'OFF', 'TRIP' lamps protected along with control MCBs etc.				
D)	Electrical & Mechanical Interlocking between both incommers and bus coupler				
E)	Outgoing				
iii)	04 Nos. 400 A FP , $I_{cs}=I_{cu}= 35KA$ at 440 V, MCCB with microprocessor based release having inbuilt Adjustable Over current, Short Circuit & Earth Fault Protection with spreader links i/c extended rotary handle mechanism and LED indication lamps for ON/OFF/Trip protected along with control MCBs etc..				
iv)	02 Nos. 250 A FP , $I_{cs}=I_{cu}= 35 KA$ at 440 V, MCCB with microprocessor based release having Over current, Short Circuit and Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON /OFF/Trip protected along with control MCBs etc.				
v)	02 Nos. 160A FP , $I_{cs}=I_{cu}= 35 KA$ at 440 V, MCCB with microprocessor based release having Over current, Short Circuit & Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON /OFF/Trip protected along with control MCBs etc.				
vi)	04 Nos. 100 A FP , $I_{cs}=I_{cu}= 35 KA$ at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON /OFF/Trip protected along with control MCBs etc..				
vii)	12 Sets of 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers. of class 0.5 accuracy, 15 VA burden & suitable range CTs.				
viii)	2No Surge protection device Type 2 (Class C), 4 Mode, MOV type suitable for 8/ 20 μ s surge, Voltage Protection level Up < 1.8kV, Operating Temperature -40 deg 'c' - +80 deg 'C', Connected Between 3Nos. phase to neutral and 1Nos. neutral to earth with discharge Current $I_{max} \geq 40KA$ Per mode & $I_n \geq 20kA$ per Mode. SPD with 63A 4P HRC fuses of 100kA breaking capacity. For connecting SPD minimum 10sqmm copper wire must be used & length of connecting leads shall not be more than 500mm for per mode connection with each busbar including all necessary accessories. The SPD shall compliance with IEC 61643-11 and certified by CE and ROHS.				


 सहयक महाप्रबंधक अभियांत्रिकी (विद्युत)
 Asst. General Manager Engg. (E)
 भा.वि.प्रा/बीजु पटनायक अंतरराष्ट्रीय हवाई
 AAI, Biju Patnaik International
 भुवनेश्वर/Bhubaneswar-751005

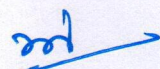
V-Sat

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
	Essential LT Panel complete comprises of above				
2	NON-ESSENTIAL DISTRIBUTION LT PANEL:- Design, Supply, Installation, Testing and commissioning of cubicle type IP 42, TTA LT Panel-type tested designed as per IEC 61439-1 & 2, suitable for 415 V, 3 Phase, 4 wire 50 Hz AC supply, made out of 2 mm thick CRCA sheet for frame work, doors and covers, 3 mm thick for gland plates, dust tight, vermin proof, totally enclosed, compartmentalised design, floor mounting/ Wall mounting, free standing, extensible on both sides i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having 500 Amps capacity FP Aluminium bus bars of high conductivity, DMC/SMC bus bar supports with short circuit withstand capacity of 35 KA for 1Sec., 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 as per IS 3043 subject to minimum 30 mm x 5 mm at the rear with 2 nos earth stud, 20% spare space of outgoing in Panel, solid connections from main bus bars to switch gears with required size of Aluminium bus bars and control wiring with 2.5 Sq.mm. FRLS PVC insulated copper conductor cable, cable alleys, cable gland plates suitable for indoor operation, complete with all accessories, connection, interconnection, earthing i/c providing following switchgears / accessories as per specifications etc., as required (Sub-Non Essential Panel at old Substation Room)	JOB	1.00	600000.00	600000.00
A)	INCOMERS - 1 Nos and each incomer shall comprises of following				
i)	01 Nos. 400A FP, Ics=Icu= 35KA at 440 V, MCCB with microprocessor based release having inbuilt Adjustable Over current, Short Circuit, Earth Fault Protection with spreader links i/c extended rotary handle mechanism and LED indication lamps for ON /OFF/Trip protected along with control MCBs etc.				
ii)	01 Set Intelligent digital multi function meter of class 0.5 to read V, A, F, KVA, KW, KVAR, KWH, KVAH, PF, Hz etc with communication facility (RS485 port). LED display with required Nos CTs of suitable range, 15 VA, class 0.5 and control circuit wiring protected along with control MCBs etc. 2 Amp protection MCB.				
iii)	1 no. 96 sqmm Digital Voltmeter, accuracy class 0.5 of suitable range along with inbuilt selector switch and suitable for 3 phase, 4 wire operation with LED display with built-in selector switch along with 3 nos. of 2 Amp SP protection MCBs.				
iv)	1 set 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers of class 0.5 accuracy, 15 VA burden & suitable range CTs.				
B)	Bus Bars				
i)	1 set of high conductivity 4 pole (TPN) Aluminium bus bars of minimum 500 Amps capacity having 100% neutral bus as that of phase bus with heat shrinkable coloured sleeves i/c DMC / SMC busbars supports at required intervals. The bus bar shall be extensible at both ends.				
E)	Outgoing				
i)	04 Nos. 250A FP, Ics=Icu= 35KA at 440 V, MCCB with microprocessor based release having inbuilt Adjustable Over current, Short Circuit, Earth Fault Protection with spreader links i/c extended rotary handle mechanism and LED indication lamps for ON and OFF protected with 2 A MCB.				

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 Asst. General Manager (Elect.)
 ना.वि.प्र./बी.पु.पटनायक अंतरराष्ट्रीय हवाई अड्डा
 Bhubaneswar-751020

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
ii)	02 Nos. 100 A FP, Ics=Icu= 25 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
iii)	06 Sets of 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers of class 0.5 accuracy, 15 VA burden & suitable range CTs.				
vi)	06 Sets of LED type Indication Lamps, R,Y,B and breaker 'ON', 'OFF', 'TRIP' each protected with 2 Amp. SP MCB.				
	Non Essential LT Panel complete comprises of above				
3	DISTRIBUTION LT PANEL T2 FIRST FLOOR:- Supply, Installation, Testing and Commissioning of cubicle type Essential Distribution TTA Indoor LT panel as per IEC 61439-1&2, IP42 , suitable for 415V+/-10%, 3 Phase, 4 wire 50 Hz AC supply system, fabricated in 4b 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 having 100% neutral bus as that of phase bus supported with SMC bus bar supports, extensible at both side, with short circuit withstand capacity as per design subject to minimum 35 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 bus bar of size as per IEC 61439/ IS 3043 subject to minimum 50 mm x 5 mm at the rear with 2 Nos. earth stud, solid / flexible connections from main earth bus bar to switchgears with required size of Cooper conductors / bus bars and control wiring with 2.5 sqmm FRLS PVC insulated copper conductor cable, cable alleys, cable gland plates in two halves and providing following switchgears / accessories as per specifications.	JOB	1.00	1420000.00	1420000.00
A)	INCOMERS - 2 Nos and each incomer shall comprises of following				
i)	01 Nos. 400 A FP, Ics=Icu= 35KA at 440 V, MCCB with microprocessor based release having Adjustable Over current, Short Circuit, Earth Fault Protection i/c extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
ii)	01 Set Intelligent digital multi function meter of class 0.5 to read V,A, F, KVA, KW, KVAR, KWH, KVAH, PF, Hz etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order. LED / LCD display with required Nos CTs of suitable range, 15 VA, class 0.5 and control circuit wiring with 2 Amp protection MCB.				
iii)	1 no. 96 sqmm Digital Voltmeter, accuracy class 0.5 of suitable range along with inbuilt selector switch and suitable for 3 phase, 4 wire operation with LED / LCD display with built-in selector switch along with 3 nos. of 2 Amp SP protection MCBs.				
iv)	1 set 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers of class 0.5 accuracy, 15 VA burden & suitable range CTs.				
v)	1 Set of LED type Indication Lamps, R,Y,B and breaker 'ON', 'OFF', 'TRIP' each protected with 2 Amp. SP MCB.				

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
B)	Bus Bars				
i)	1 set of high conductivity 4 pole (TPN) Aluminium bus bars of minimum 500 Amps capacity having 100% neutral bus as that of phase bus with heat shrinkable coloured sleeves i/c DMC / SMC busbars supports at required intervals. The bus bar shall be extensible at both ends.				
C)	Bus coupler				
i)	01 No. 400 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having adjustable Over current, Short Circuit, Earth Fault Protection i/c extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
ii)	1 Set Indication Lamps, LED type 'ON', 'OFF', 'TRIP' lamps protected with 2 Amp. SP MCBs.				
D)	Electrical & Mechanical Interlocking between both incomers and bus coupler				
E)	Outgoing				
i)	02 Nos. 250 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
ii)	02 Nos. 165 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
iii)	02 Nos. 125 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
iv)	02 Nos. 100 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
v)	04 Nos. 63 A FP, Ics=Icu= 25 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamps for ON and OF protected with 2 A MCB.				
vi)	12 Sets Intelligent digital multi function meter of class 0.5 to read V, A, F, KVA, KW, KVAR, KWH, KVAH, PF, Hz etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order. LED / LCD display with required Nos CTs of suitable range, 15 VA, class 0.5 and control circuit wiring with 2 Amp protection MCB.				
vii)	12 Sets of 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers of class 0.5 accuracy, 15 VA burden & suitable range CTs.				
viii)	12 Sets of LED type Indication Lamps, R, Y, B and breaker 'ON', 'OFF', 'TRIP' each protected with 2 Amp. SP MCB.				
	Distribution LT Panel T2 First Floor complete comprises of above				


 सहायक महाप्रबंधक अभियंत्रिकी (विद्युत)
 Asst General Manager Engg. (Elect.)
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 AAI, Biju Patnaik International Airport
 भुवनेश्वर/Bhubaneswar-751020

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
4	DISTRIBUTION LT PANEL Near OLD POWER HOUSE :- Design, Supply, Installation, Testing and commissioning of Outdoor cubicle MV panel as per IEC 61439, weather proof, vermin proof, powder coated, free floor standing, fully compartmentalised, bottom entry double door type, Outdoor canopy type Electrical Main Distribution panel (Feeder Pillar Panel), generally conforming to IP-55 and higher , fabricated from 2 mm. thick CRCA sheet, treated through seven tank process along with detachable 3mm thick gland plate suitable for operation on 415V +/-10%, 3 phase, 4 wire, 50 Hz AC supply, TPN aluminium busbars of high conductivity, DMC/SMC busbar supports with bottom base channel made out of MS section not less than 100 mm x 50 mm x 5 mm thick, entire panel shall have a common copper earthbar of size as per IS 3043 subject to minimum 30 mm x 5 mm at the rear with 2 Nos. earth stud, solid connection from main busbar to switchgears with required size of aluminium busbar & control wiring with 2.5 sqmm FRLS insulated copper conductor cable, cable alleys, lifting hooks including swapping, recoiling and handling of all incoming and outgoing cables, Civil work for RCC foundation, cutting, fixing, grouting, painting and sign writing etc. complete as required.	JOB	1.00	1230000.00	1230000.00
A)	INCOMERS - 2 Nos and each incomer shall comprises of following				
i)	01 Nos. 630 A FP, Ics=Icu= 35KA at 440 V, MCCB with microprocessor based release having adjustable Over current, Short Circuit, Earth Fault Protection i/c extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
ii)	01 Set Intelligent digital multi function meter of class 0.5 to read V, A, F, KVA, KW, KVAR, KWH, KVAH, PF, Hz etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order. LED / LCD display with required Nos CTs of suitable range, 15 VA, class 0.5 and control circuit wiring with 2 Amp protection MCB.				
iii)	1 no. 96 sqmm Digital Voltmeter, accuracy class 0.5 of suitable range along with inbuilt selector switch and suitable for 3 phase, 4 wire operation with LED / LCD display with built-in selector switch along with 3 nos. of 2 Amp SP protection MCBs.				
iv)	1 set 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers of class 0.5 accuracy, 15 VA burden & suitable range CTs.				
v)	1 Set of LED type Indication Lamps, R,Y,B and breaker 'ON', 'OFF', 'TRIP' each protected with 2 Amp. SP MCB.				
B)	Bus Bars				
i)	1 set of high conductivity 4 pole (TPN) Aluminium bus bars of minimum 800 Amps capacity having 100% neutral bus as that of phase bus with heat shrinkable coloured sleeves i/c DMC / SMC busbars supports at required intervals. The bus bar shall be extensible at both ends.				
C)	Bus coupler				
i)	01 No. 630 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Adjustable Over current, Short Circuit, Earth Fault Protection i/c extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
ii)	1 Set Indication Lamps, LED type 'ON', 'OFF', 'TRIP' lamps protected with 2 Amp. SP MCBs.				
D)	Electrical & Mechanical Interlocking between both incomers and bus coupler				
E)	Outgoing				

सहायक महानगरपालिका अभियान्तिक (विद्युत)
 Asst. General Manager Engg. (Elect.)
 भा.वि.प्रा/वीर पटनायक अंतरराष्ट्रीय हवाई अड्डा
 AA, Biju Patnaik International Airport
 भुवनेश्वर/Bhubaneswar

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
i)	02 Nos. 400 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having adjustable Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
iii)	04 Nos. 250 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Adjustable Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
iv)	02 Nos. 160 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
iv)	02 Nos. 100A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
v)	02 Nos. 63 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected with 2 A MCB.				
vi)	12 Sets of 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers of class 0.5 accuracy, 15 VA burden & suitable range CTs.				
vii)	12 Sets of LED type Indication Lamps, R,Y,B and breaker 'ON', 'OFF', 'TRIP' each protected with 2 Amp. SP MCB.				
	Distribution LT Out door Panel complete comprises of above				
5	LT panel at T-1 garden area :- Design, Supply, Installation, Testing and commissioning of weather proof, vermin proof, powder coated, free floor standing, fully compartmentalised double door type bottom entry , canopy type for rain protection , MV cubicle Electrical Main Out Door Feeder Piller panel , generally conforming to IP-55 and higher , fabricated from 2 mm. thick CRCA sheet , treated through seven tank process along with detachable 3mm thick gland plate suitable for operation on 415 V, 3 phase , 4 wire, 50 Hz AC supply, TPN aluminium busbars of high conductivity, DMC/SMC busbar supports with bottom base channel made out of MS section not less than 75 mm x50 mm x 5 mm thick, entire panel shall have a common copper earthbar of size 20mm X 5 mm at the rear with 2 Nos. earth studs ,solid connection from main busbar to switchgears with required size of aluminium busbar & control wiring with 2.5 sqmm FRLS insulated copper conductor cable, cable alleys, lifting hooks including swapping, recoiling and handling of all incoming and outgoing cables, Civil work for RCC foundation, cutting , fixing, grouting, painting and sign writing etc. complete as required.	JOB	1.00	495000.00	495000.00
	Incoming:- 02 Nos. 250 A FP, Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Adjustable Over current, Short Circuit, Earth Fault Protection i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected along with control MCB.				
	02 Set of Intelligent digital multi function meter of class 0.5 to read V,A, PF, KVA, KW, KVAR, KWH, KVAH, PF, Hz etc LED / LCD display with required Nos CTs of suitable range, 15 VA, class 0.5 and control circuit wiring with 2 Amp protection MCB.				

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
	LED type R/Y/B Indication lamp with Suitable MCBs				
	BUS BAR: 415V, 3 phase and neutral 350A rating Copper busbar with colour code & sleeves-1 set.				
	Bus Coupler:- FP,Ics=Icu= 35 KA at 440 V, MCCB with microprocessor based release having Adjustable Over current, Short Circuit i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected along with control MCB.				
	Outgoing:- 6Nos. 100A , 25KA FP,T/M release MCCB having Over current, Short Circuit i/c terminal spreaders, extended rotary mechanism and LED indication lamp for ON and OFF protected along with control MCB.				
	06 Sets of 96 sq mm Digital Type Ammeter of accuracy class 0.5 of suitable range along with inbuilt selector switch suitable for 3 phase 4 wire operation with LED / LCD display with 3 numbers of class 0.5 accuracy, 15 VA burden & suitable range CTs for each outgoing feeder.				
	Feeder pillar panel for outside of T-1 building :- Design, Fabrication, Supply, Installation, Testing & Commissioning of cubicle type, Totally enclosed, double door with sloped roof, Outdoor type (IP55 or higher) , floor mounted, fully CRCA steel built feeder pillar fabricated in compartmentalised design made out of 2.0 mm thick CRCA sheet, duly powder coated in approved shade suitable for operation on 415 V, 3 phase , 4 wire, 50 Hz AC supply, TPN aluminium busbars of high conductivity, DMC/SMC busbar supports with bottom base channel with mounting legs made out of steel section of not less than 3mm thickness, entire panel shall have a common copper earthbar of size 20mm X 3 mm at the rear with 2 Nos. earth studs, solid connection from main busbar to switchgears with required size of aluminium busbar, suitable cement concrete foundation, control wiring with FRLS insulated copper conductor.	JOB	2.00	110000.00	220000.00
6	I) Incomer MCCBs : 100 A, FP, Breaking capacity of 25kA at 415 Volts MCCB (Ics= 100% Icu) with Thermal magnetic release having O/L & S/C protection - 1 Set II) LED Phase Indication (R,Y,B) lamps ON&OFF indication lamps with control MCBs & FRLS Copper wiring and Digital Multifunction meter - 01 Set III) Outgoing MCBs : 32 A, 10 KA, 4P, C Series MCB - 2 Nos and 63 A, 10 KA, 4P, C Series MCB - 2 Nos IV) Common 4 Pole, 150A capacity Copper Busbar. V) Necessary Internal wiring & earthing strip as per specifications. I/C providing & fixing of suitable Rail Mounted Terminal Connectors etc. (Incoming 35 sq. mm and outgoing 16 & 25 sq mm terminals and provide necessary connectors along with by pass arrangement for contactor etc. as required as per specification given and as per site condition.)				

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SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
7	High Mast Control Panel for T-2 City Side area:- Supply, Installation, Testing & Commissioning of out door type, Double Door Distribution LT Panel, cubicle type, made of environment friendly high quality Polycarbonate Thermoplastic(PC-GFS) (Shock proof, Rust free, Dust proof, Corrosion free, Acid & Chemical Resistant, Impact resistant, Fire retardant, Ultra Violet resistant, halogen & Silica free recyclable material) Insulation enclosed power distribution board as power switchgear and controlgear assembly (PSC) in accordance with IEC 61439-2 totally enclosed IP 65, free standing, floor mounting, outdoor type with canopy, compartmentalized, suitable for operation on 3 phase and neutral, 415 V, 50 Hz AC system with copper busbars including internal wiring with(FRSLH) suitable size wires/cable interconnection, bottom, cable entry provision, should Withstand Glow wire test as per IEC 60695-2-11 upto 960°C, should be flame retardant, Self Extinguishing including with DMC/SMC bus bar supports, commonCopper earth of size 25 mm X 3mm at the rear with 2 nos. earth stud including supply and installation of following switchgears, metering instruments and accessories in the LT Panel and as per specifications. Technical Features: - Degree Of Protection- IP 65 Mechanical Strength - IK 10 (20 Joules) in accordance with System Voltage- 415V, 50 Hz Color- RAL 7035 Protection Class- Class II, Double Insulated Temperature Operating conditions- -25degC to +85degC Chemical Behavior-Resistant from Petrol, Acid, Lye, Benzene Document Required -OEM Authorization certificate, Type test	Job	2.00	50000.00	100000.00
	Incomer :-01 Nos. 100A,4P,25KA, MCCB BUS BAR: 415V, 3 phase and neutral 150A rating copper busbar with colour code & sleeves-1 set Outgoings:- 0-32 A , 10KA 4P MCB- 03 no; Digital Multifunction Meter- 1 no; 32A FP AC1 duty contactor - 01 no. For the automatic switching of luminaries through auto/remote/local mode operation by selector switch. For auto mode operation one no Astro Time Switch for the automatic switching of luminaries, for local mode operation through ON / OFF push button, also provide power tool control with 2 nos 32A contactors with 32 A TP MCB and raise and lower with push button as required. Incoming 35 sq. mm and out going 16 & 25 sq mm terminals and provide necessary connectors along with by pass arrangement for contactor etc. as required as per specification given and as per site condition.				
8	Design, Fabrication,Supply, Installation, Testing and Commisioning of 415V, 50Hz, 3 phase AC Online UPS sytem of 20 KVA capacity , suitable for operating 100% unbalanced loads , in dust and vermin proof cubicle panel duly painted and with ventillation ducts, floor mounted comprising of 12V VRLA SMF batteries(minimum life span of 02 years) shall have backup time of minimum 30 minutes, arranged in racks with terminals, intercell connectors, DC cables, interconnecting cables between battery rack and UPS of required size as per site condition and all accessories, forced air cooling and capable of giving desired output with all contorts and protective circuits and conforming to etc. complete as required.	Job	1.00	260000.00	260000.00

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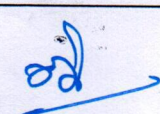
सहायक महाप्रबंधक अभियंत्रिकी (विद्युत)
Asst. General Manager Engg. (Elect.)
आ. वि. प्रा. वि. पुणे महानगरपालिका अंतरराष्ट्रीय हवाई अड्डा
Bhatk International Airport
Pune-411002

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
9	Supply installation testing Commissioning of battery bank of 24 Volt, 100 AH , with automatic float cum boost battery charger, Thyristor / IGBT controlled type. The charger shall have selector switch for Auto Float-Boost/manual Float / Manual Boost mode of operation. DC output voltage of float/boost charger shall be within +2% for AC input of 415 volt +/-10%, 50 Hz +/-5% and for DC load variation from 0 to 100%. Constant voltage regulator shall be SCR / IGBT controlled & ripple content in output to be limited within 2% of DC output nominal voltage. Battery charger shall have automatic output current limiting feature. Battery charger shall be complete with Main Transformer, full wave bridge rectifier, Solid state Constant Potential controller, Electronic controller, Potentiometer, digital ammeter, digital voltmeter, circuit breaker for Input & Output protection complete with 2 volt Battery cell of 100 AH Capacity . The panel shall be fabricated from CRCA sheet steel enclosure of 2 mm thick, hinged type lockable door, totally enclosed, vermin proof, free standing, suitable ventilated louvers covered with wire mesh, floor mounting, 'C' channel base frame of size 75x40 mm etc. including painting, all internal copper wiring, inter connections of all control & power cables, continuous earthing bus with provision for earth connections at both ends etc, all as required and as per enclosed specifications.	Job	1.00	175000.00	175000.00
10	LT Cables:- Supply of following size cables of grade 1.1 KV, XLPE insulated, PVC sheathed, armoured multistranded Aluminium conductor conforming to IS 7098 (Part 1) amended upto date.				
	a) 4 x 35 sq.mm.	Meter	1510.00	220.00	332200.00
	b) 3.5Cx95 Sqmm	Meter	850.00	440.00	374000.00
	c) 3.5 x 185sq.mm.	Meter	2600.00	830.00	2158000.00
	d) 3.5 x 300 sq.mm.	Meter	730.00	1250.00	912500.00
	e) 3.5 x 400 sq.mm.	Meter	1300.00	1610.00	2093000.00
11	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
	a) 4 x 35 sq.mm.	Set	12.00	100.00	1200.00
	b) 3.5C x 95 Sqmm	Set	4.00	200.00	800.00
	c) 3.5 x 185sq.mm.	Set	16.00	250.00	4000.00
	d) 3.5 x 300 sq.mm.	Set	12.00	350.00	4200.00
	e) 3.5 x 400 sq.mm.	Set	8.00	600.00	4800.00
12	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size.				
	a) 4 x 35 sq.mm.	Set	1.00	5000.00	5000.00
	b) 3.5Cx95 Sqmm	Set	1.00	7000.00	7000.00
	c) 3.5 x 185sq.mm.	Set	4.00	8000.00	32000.00
	d) 3.5 x 300 sq.mm.	Set	2.00	9000.00	18000.00
	e) 3.5 x 400 sq.mm.	Set	4.00	10000.00	40000.00
13	Supply of following size ISI marked, HDPE pipe along with all accessories like socket, bend, couplers etc. confirming to IS-4984-2016 with up to date amendments and confirming to tender's technical specifications, terms & conditions etc. complete as required.				
	a) 50 mm Dia, PN-06, PE 100.	Mtr	1160.00	65.00	75400.00
	b) 63 mm Dia, PN-06, PE 100.	Mtr	500.00	100.00	50000.00
	c) 90 mm Dia, PN-06, PE100.	Mtr	1000.00	200.00	200000.00
	d) 125mm Dia, PN-06, PE 100.	Mtr	500.00	375.00	187500.00

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
14	Laying of following size dia HDPE pipe/G.I pipe with all accessories like socket, bend, couplers etc., complete with fitting and cutting, jointing etc, direct in ground (70 cm below ground level) including excavation and refilling the trench after laying pipe and providing all accessories i.e Socket, bend, couplers etc., and making good surface etc. complete as required.				
	a) 50 mm Dia,.	Mtr	1160.00	100.00	116000.00
	b) 63 mm Dia	Mtr	500.00	100.00	50000.00
	c) 90 mm Dia	Mtr	1000.00	100.00	100000.00
	d) 125mm Dia	Mtr	500.00	100.00	50000.00
15	Excavation of existing Bituminous/ Concrete road by using groove cutting machine to facilitate laying of metal/ HDPE pipe including disposal of material within 50 mtrs lead and providing & laying in position 1:2:4 (1 cement : 2 Coarse sand : 4 Graded stone aggregated of 20 mm nominal size all works up to plinth level to fill up the excavated trenches after laying of the Metal pipe(up to 125 mm Dia) complete above etc. as required. etc complete as required.	Cu.mtr	15.00	10000.00	150000.00
16	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/HDPE pipe as reqd.				
	a) Upto 35 sq. mm	Mtr	1240.00	50.00	62000.00
	b) Above 35sqmm upto 95 sqmm	Mtr	360.00	70.00	25200.00
	c) Above 95 Sqmm to upto 185 Sqmm	Mtr	1380.00	100.00	138000.00
	d) Above 185 sqmm upto 400 sqmm	Mtr	760.00	150.00	114000.00
17	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 reqd.				
	a) Upto 35 sq. mm	Mtr	90.00	50.00	4500.00
	b) Above 35sqmm upto 95 sqmm	Mtr	90.00	70.00	6300.00
	c) Above 95 Sqmm to upto 185 Sqmm	Mtr	320.00	100.00	32000.00
	d) Above 185 sqmm upto 400 sqmm	Mtr	1100.00	150.00	165000.00
18	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/CableTray as reqd.				
	a) Upto 35 sq. mm	Mtr	80.00	70.00	5600.00
	b) Above 35sqmm upto 95 sqmm	Mtr	50.00	70.00	3500.00
	c) Above 95 Sqmm to upto 185 Sqmm	Mtr	220.00	110.00	24200.00
	d) Above 185 sqmm upto 400 sqmm	Mtr	60.00	150.00	9000.00
	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories and providing 300x300 X 450(H) mm RCC earth pit chamber suitable to receive 6mm thick MS chequered plate with handle, strengthening & compaction of soil below the earth pit chamber including providing suitable ratio PCC, providing & laying Plain Cement Concrete (PCC) (1:2:4) of depth 100mm surrounding the earth pit chamber covering surface area of 0.5 SqMeter, including providing and fixing of reducer, water funnel with wire mesh arrangement for watering etc. with charcoal/coke and salt as required.	Job	10.00	10000.00	100000.00
20	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode at 0.5 meter below the ground including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Mtrs	50.00	650.00	32500.00
21	Providing and fixing 25mm x 5mm GI strip on surface or in recess from earth electrode to electrical panel/Highmast as required.	Mtrs	100.00	90.00	9000.00
22	Excavation of existing Bituminous/ Concrete road to facilitate laying of GI /HDPE pipe including disposal of material within 50 Meters lead and providing & laying in position 1:2:4 (1 cement : 2 Coarse sand : 4 Graded stone aggregated of 20 mm nominal size all works up to plinth level to fill up the excavated trenches after laying of the GI pipe complete above as required.	Cu.mtr	15.00	8500.00	127500.00

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
23	Hybrid Panel of 500KVAR Passive and 100Amps AHF) (Automatic Power Factor Correction & Harmonic Filters)				
	Design, fabrication, assembly, wiring, supply, erection, testing and commissioning of Hybrid Solution consisting of Indoor APFC Panel and AHF, to achieve 0.99 Lag and THDI / THD Voltage within limits. The Hybrid panel should have an incomer of 1250 Amps, 4 Pole, Horizontal draw out type ACB of fault breaking capacity 50KA (Ics=Icu=Icw=50KA for 1 secs at 440V), The Hybrid Panel should be certified as per IS16636 and IEC 61921, The capacitor bank shall comprise of capacitor units rated at 525 volt, 14% de tuning reactors, PF controllers, circuit breakers etc. The AHF should be 3 Phase, 4 Wire System. The switching device of the active compensation system shall be 3 / 2 level IGBT based. The active compensation system should filter harmonics from 2nd to 51st individual harmonic order and shall be selectable for the entire range. The active compensation system should also have feature to improve PF correction. The active compensation system should have a Multi master and Master Slave operation. The reactor shall be fitted with a temperature sensitive switch to trip circuits in case of high operating temperature (Panel shall be of Form 3b compartmentalization test design temperature rise).	Job	1.00	500000.00	500000.00
	The Passive section shall be microprocessor or integrated DSP controller based for Active and Passive section and shall be able to sense the reactive current requirement of the network and shall switch ON / OFF the required stages of a capacitor bank. The Capacitor Bank shall be of type tested design as IS 16636.				
	The Super heavy duty capacitor units shall be rated at 525 V. The capacitor and reactor combination represents a series resonant circuit. The circuit should be tuned such that the series resonant frequency should be below the lowest harmonic order expected to be present in the electrical network.				
	The Hybrid Solution should comprise of Active filter i.e. 100 A and Passive i.e. 500 kVar. -The Active harmonic filter should have a 160Amp MCCB. - -The 14% de-tuned capacitor bank with capacitor duty contactor suitable for following step ratings: 2 nos. x 100 KVAR + 4 nos. x 50 KVAR+ 4 nos. x 25 KVAR 100 KVAR- 2 No. MCCB, 250 Amps, TP, (Ics = Icu = 35 KA) with thermal magnetic release. 50 KVAR - 4 No. MCCB, 160 Amps, TP, (Ics = Icu = 35 KA) with thermal magnetic release. 25 KVAR - 4 No. MCCB, 63 Amps, TP, (Ics = Icu = 35 KA) with thermal magnetic release. - The de-tuned capacitor bank should have Integrated DSP controller which shall control both the capacitors as well as Active Filter. Heavy duty Capacitor shall be as per MPP low loss as per standards. - Each stage of the capacitor bank should have suitable rating fuse protection. - The Solution should have surge arrestors and over temperature protection.				
	The system should be with compatible with both Grid Power and D.G. Power Supply.				
	The capacitor banks should be of type tested design and temperature rise test report.				
	The Hybrid Solution described as above complete in all respect as per specification enclosed, up to the entire satisfaction of engineer In Charge. Switchgears shall be as per followings and as per specifications.				
	LED indication lamps for RYB, breaker 'ON/ OFF/ TRIP with 2Amp control MCBs				

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
	Set of Digital flush type calibrated Intelligent multifunction meters (with communication port) class - 0.5 accuracy, showing V, A, PF, Hz, KW, KWH, KVAR, Total harmonic distortion with 3 Nos. cast resin current transformers of dual core CT's of 600/ 5 Amp ratio, 15 VA Class 0.5 metering.				
	Bus Bar 1600 Amps with heat shrinkable coloured sleeves having 100% neutral bus as that of phase i/c DMC /SMC bus bars supports at required intervals complete as required.				
	Suitable capacity, Direct Low Pressure (DLP) Assembly with automatic valve, push in connector for tube, Clean agent, mounting bracket, End of Line adopter and low pressure switch for monitoring system activation. i) Linear Pneumatic Heat detection tube with all necessary & supports ii) Master Control Unit for controlling each system, complete with pressure switches, buzzers and electronic hooters, including all necessary accessories + electrical wiring to make each entire system functional.				
	Hybrid Panel as described above				
24	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Sets	2.00	8000.00	16000.00
25	Providing and fixing 50 mm X 5 mm G.I. strip in 80 mm dia G.I. pipe from earth electrode at 0.5 meter below the ground including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Mtrs.	30.00	1500.00	45000.00
26	Providing and fixing 50mm x 5mm GI strip on surface or in recess from earth electrode to electrical panel/Highmast as required.	Mtrs.	30.00	180.00	5400.00
27	Supply, Installation, Testing and Commissioning of following rating pre-fabricated sandwiched bustrunking as per IEC 61439, suitable for 3 Phase 4 Wire, 415 V, 50 Hz AC supply system with aluminium busbars having class F insulation complete with bends, expansion joints, fire barriers, end terminations boxes with copper flexible end connections at both end terminations, earthing with 2 runs of continuous GI / Aluminium earth strips of size 50mm x 6mm, with enclosure 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 steel rope hangers, suspenders / brackets etc as per technical specifications and site condition etc as required. (Note: The bustrunking shall be measured along with centreline length of enclosure i/c bus duct end termination box. The aluminium strips which will go inside LT panels and termination boxes of transformers / equipments including copper flexibles for termination with panels / equipments along with all accessories shall not be taken into measurement of bustrunking quantity) 1250 A, Four pole busduct with 100% neutral bus as that of phase, (minimum) 50 KA.	Mtrs	35.00	13500.00	472500.00
11 KV HT Power cable for DGCA Power House					


 सहायक महाप्रबंधक अभियांत्रिकी (विद्युत)
 Asst. General Manager Engrg. (Elect.)
 भा.वि.प्र./बीजु पटनायक अंतरराष्ट्रीय हवाई अड्डा
 AAI, Biju Patnaik International Airport
 भुवनेश्वर/Bhubaneswar-751020

SI No	Description	Unit	Qty	Rate in Rs.	Amount in Rs.
28	Supply of 3Cx 300 Sq.mm size of XLPE insulated PVC sheathed aluminium conductor armoured power cable of 11 KV grade (11 KV (UE)) conforming to IS: 7098 (Part-II) amended upto date and as per specification enclosed.	Mtr	400.00	2500.00	1000000.00
29	Supply and Laying of HDPE pipe of 160 mm dia , PE 100, PN 6 by HDD method including preparing & setting up plant & machinery including jointing reaming and pulling of HDPE pipe 1.2 mtr below the ground as per technical specification and site condition etc as required as per direction of E-I-C.	Mtr	400.00	1250.00	500000.00
30	Supply and laying of HDPE pipe of 160 MM dia PE-100, PN-6 at a depth of 1.2 mtr below the ground as per site condition	Mtr	300.00	550.00	165000.00
31	Laying of one number XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL/ HDPE pipe as required Size: Above 120 sq. mm and upto 400 sq. mm	Mtr	600.00	100.00	60000.00
32	Laying of one number XLPE power cable of 33 KV grade of following size in the existing masonry open duct as required Size: Above 120 sq. mm and upto 400 sq. mm	Mtr	100.00	100.00	10000.00
33	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required. 3 Core, 300 Sq.mm. (11KV (UE))	Sets	2.00	10500.00	21000.00
34	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required. 3 core, 300 Sq.mm (11KV)	Sets	1.00	40000.00	40000.00
35	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	35.00	850.00	29750.00
36	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil:	Cum	15.00	150.00	2250.00
37	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size).	Cum	5.00	4500.00	22500.00
38	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:				
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	Cum	2.00	6500.00	13000.00
39	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above/below plinth level in all shapes and sizes in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5.00	6000.00	30000.00
40	Providing and laying of 12 mm thick 1:4 (1 cement: 4 fine sand) cement plaster of mix.	Sqm	90.00	400.00	36000.00

Total Amount 16942300.00

1 **GST Extra Applicable .**

Say 16942300.00

2 **AAI GSTIN:-21AAACA6412D1ZK.**

(Rupees One Crore Sixty Nine Lakhs Forty Two Thousand and Three Hundred Only)

Signature Not Verified

Digitally signed by RUDRA PRASAD ACHARYA

Asst General Manager Engg(E)
AAI, B.P.I. Airport Bhubaneswar

R. Saha

Digitally signed by RUDRA PRASAD ACHARYA
Date: 2026.03.14 13:55:57 IST
Location: e-procurement system for Central
AAI, Bhubaneswar