

रजिस्टर्ड ए.डी. द्वारा/By Regd. A.D.

सं.सं. भाविप्रा/भोपाल/उप.म.प्र.(अभि.-वि.)/का.आ.-24/2023-24

Ref. No: AAI/BPL/DGM(E-E)/WO-24/2023-24

/1961(1-9) / 113(1-9)

दिनांक: 09.01.2024

Date: 09.01.2024

सेवा में,

मेसर्स एज टेलिकॉम प्राइवेट लिमिटेड,
1st फ्लोर, मेन सोहन रोड, नियर राधा कृष्णा
मंदिर, बादशाहपुर, गुडगाँव -122101, हरियाणा
ई-मेल: tenders@edgetelecom.org

M/s Edge Telecom Pvt. Ltd.
1st Floor, Main Sohan Road, Near
Radha Krishna Mandir, Badshahpur,
Gurgaon - 122101, Haryana
E-mail: tenders@edgetelecom.org

विषय : “रि-कॉन्फिगरेशन ऑफ एन.आई.टी.बी. भोपाल एयरपोर्ट. उपशीर्ष : विद्युत कार्य।”

Subject: “Re-Configuration of NITB Bhopal Airport: SH: Electrical Works.”

संदर्भ : 1) दिनांक **01.01.2024** को खोली गई आपकी निविदा ✓

Ref.: 1) Your tender opened on dated **01.01.2024**

महोदय/Dear Sir,

- 1- उल्लेखित कार्य हेतु आपकी ई-निविदा आपके द्वारा उद्धृत कुल ₹. 89,21,630/- (₹. नवासी लाख इक्कीस हजार छह सौ तीस मात्र) की नियत मद दर पर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से एतद् द्वारा स्वीकृत की जाती है, जो कि ई-निविदा की अनुमानित लागत ₹. 1,59,33,509/- (₹. एक करोड़ उनसठ लाख तैंतीस हजार पांच सौ नौ मात्र) से **44.01 %** कम है। ✓

Your E-Tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India at the item rates quoted by you totaling to **Rs. 89,21,630.00 (Rupees Eighty Nine Lakh Twenty One Thousand Six Hundred Thirty only)** which is **44.01% Below** the estimated cost put to E-Tender of **Rs. 1,59,33,509.00 (Rupees One Crore Fifty Nine Lakh Thirty Three Thousand Five Hundred Nine Only)**. ✓

- 2- उप. महाप्रबंधक (अभि.-विद्युत), भारतीय विमानपत्तन प्राधिकरण, राजा भोज विमानतल, भोपाल इस कार्य के इंजीनियरिंग प्रभारी होंगे। आपसे निवेदन है कि आप संविदा करार पर हस्ताक्षर करने एवं उसे पूरा करने हेतु **02.02.2024** तक उप. महाप्रबंधक (अभि.-विद्युत), भारतीय विमानपत्तन प्राधिकरण, भोपाल विमानपत्तन के कार्यालय में उपस्थित हो। संविदा करार ₹ 500/- (पाँच सौ रुपये) के न्यायिकेतर (नॉन - ज्युडिशियल) स्टाम्प पेपर पर बनाया जायगा तथा स्टाम्प पेपर की लागत आपके द्वारा वहन की जाएगी।

Dy. Gen. Manager (Engg.-Elect.), Airports Authority of India, Raja Bhoj Airport, Bhopal shall be the Engineer-In-Charge of the work. You are requested to attend the office of the Dy. Gen. Manager (Engg.-Elect.), Airports Authority of India, Raja Bhoj Airport, Bhopal by **02.02.2024** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs. 500/- (Rupees Five Hundred only)** and the cost of the stamp paper shall be borne by you. ✓

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31/1/2024



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

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- 3- कृपया इस पत्र के जारी होने के 10 दिनों के अंदर प्रतिभूति जमा के रूप में **रु. 5,73,493/-** (रु. पाँच लाख तिहत्तर हजार चार सौ तिरानवे मात्र) की राशि इस कार्यालय में जमा करा दें अन्यथा करारनामों की संविदा की सामान्य शर्त के पृष्ठ संख्या - 15 पर दी गई शर्त 1ए के अनुसार उक्त राशि आपके बिल से काट ली जाएगी ।

Please deposit **Rs. 5,73,493/- (Rupees Five Lakh Seventy Three Thousand Four Hundred Ninety Three Only)** towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per condition of Clause 1A on page 15 of the contract document.

- 4- आपसे अनुरोध है कि आप टेका श्रमिक (विनियम एवं उन्मूलन) अधिनियम 1970 के उपबंधों का अनुपालन करें । साथ ही टेका श्रमिक (विनियम एवं उन्मूलन) केन्द्रीय नियमावली 1971 एवं केन्द्रीय एवं राज्य सरकारों के न्युनतम वेतन तथा उससे संबंधित अन्य नियमों का पालन करें ।

You are requested to comply with the provisions of contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Central rules 1971 and minimum wages Act and rules thereof Central and State Governments.

- 5- आपको सहायक महाप्रबंधक (अभि.-वि.), भारतीय विमानपत्तन प्राधिकरण, राजा भोज विमानतल, भोपाल से तत्काल संपर्क करने का भी निर्देश दिया जाता है। आपको कार्यस्थल (साइट) सौंपने का कार्य उनके द्वारा किया जाएगा ।

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

- 6- कृपया नोट करे की कार्य पूरा करने के लिए आपको **03 (तीन) माह** का समय प्रदान किया जाता है । यह समय इस पत्र के जारी करने की तिथि के 10वे दिन से माना जाएगा ।

Please note that the time allowed for carrying out the work shall be **03 (Three) Months** to complete the work. The same shall be reckoned from 10th day from date of issue of this letter.

- 7- इस टेके से संबंधित किसी भी प्रकार के पत्र व्यवहार के लिए **उप. महाप्रबंधक (अभि.-विद्युत), भा.वि.प्रा., राजा भोज विमानतल भोपाल - 462036** को संबोधित करें ।

Any further correspondence in connection with the contract should normally be addressed to the Dy. Gen. Manager (Engg.-Elect.), Airports Authority of India, R. B. Airport, Bhopal - 462036.

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9/12/2024

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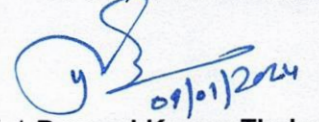
- 8- कृपया इस पत्र की प्राप्ति की सूचना दें तथा इसके साथ अनुलग्न अनुप्रति पर हस्ताक्षर करके टोकन के प्रतियोग्यहण के रूप में अधोहस्ताक्षरी को वापस भेज दें।

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

- 9- यदि कोई विसंगति पाई जाती है तो अंग्रेजी भाषा ही मान्य होगी।

In case any discrepancy is found, then English version will be taken as correct.

भवदीय / Yours Faithfully



(प्रमोद कुमार ठाकरे / Pramod Kumar Thakre)

उप. महाप्रबंधक (अभि.-विद्युत)

Dy. Gen. Manager (Engg.-Elect.)

भा.वि.प्रा., राजा भोज विमानतल, भोपाल - 462036

AAI, Raja Bhoj Airport, Bhopal - 462036.

कृते तथा ओर से, अध्यक्ष,

For and on behalf of Chairman,

भारतीय विमानपत्तन प्राधिकरण.

Airports Authority of India.

Office No.: 0755-264073

Mob No.: 9748327209



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

N.O.O. / मूल प्रतिलिपि पर नहीं

Copy to/ प्रतिलिपि प्रेषित :-

1. संयुक्त महाप्रबंधक (सतर्कता), भा.वि.प्रा
पश्चिमी क्षेत्र, सी.एस.आई. एयरपोर्ट, मुंबई-99. (निविदा प्रपत्र के शेड्यूल 'A' कि कॉपी सहित)
Jt. General Manager (Vigilance) AAI.
Western Region, C.S.I. Airport, Mumbai-99 (Along with copy of Schedule 'A' of tender document)
2. आयकर आयुक्त
आयकर कार्यालय, होशंगाबाद रोड,
मैदा मिल के सामने, भोपाल।
Commissioner of Income Tax,
Income Tax office, Hoshangabad Road, Opposite Maida Mill, Bhopal.

आंतरिक/ INTERNAL

1. विमानपत्तन निदेशक, भा.वि.प्रा, राजा भोज विमानतल, भोपाल-462036 जानकारी हेतु।
Airport Director, AAI, R. B. Airport, Bhopal – 462036 for information please
2. सहायक महाप्रबंधक (वित्त), भा.वि.प्रा, राजा भोज विमानतल, भोपाल-462036 जानकारी हेतु।
Asstt. Gen. Manager (Finance), AAI, R.B. Airport, Bhopal – 462036 for information please
3. सहायक महाप्रबंधक (अभि- विद्युत), भा.वि.प्रा, राजा भोज विमानतल, भोपाल-462036 कार्यस्थल सौंपने
करारानुसार हेतु।
Asstt. Gen. Manager (Engg.-Elect.), AAI, R.B. Airport, Bhopal – 462036 To handover the site and
As per contract agreement
4. प्रबंधक (अभि- विद्युत), भा.वि.प्रा, राजा भोज विमानतल, भोपाल-462036 कार्यस्थल सौंपने एवं ठेका
करारानुसार कार्य निष्पादन हेतु।
Manager (Engg.-Elect.), AAI, R.B. Airport, Bhopal – 462036 To Supervise the work as
per contract agreement
5. करार प्रति/Agreement Copy.
6. कार्य फाईल/Works File.

(प्रमोद कुमार ठाकरे / Pramod Kumar Thakre)

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

Validate Print Help

Item Rate BoQ

Tender Inviting Authority: AGM(E-E), AAI, R.B. Airport, Bhopal

Name of Work: Re-Configuration of NITB Bhopal Airport: SH: Electrical works.

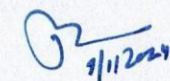
Contract No: AAI/BPL/ENGG(E)/NIT-09/2023-24

Name of the Bidder/ Bidding Firm / Company :	EDGE TELECOM PRIVATE LIMITED
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PRICE SCHEDULE

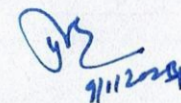
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
1.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLSH PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLSH PVC insulated copper conductor single core cable etc. as required. Group C	75.00	Point	450.00	33750.00	INR Thirty Three Thousand Seven Hundred & Fifty Only
2.00	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLSH PVC insulated copper conductor single core cable in surface/ recessed steel conduit, and earthing the point with 1.5 sq. mm FRLSH PVC insulated copper conductor single core cable etc. as required. Group C	482.00	Point	350.00	168700.00	INR One Lakh Sixty Eight Thousand Seven Hundred Only
3.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLSH PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. 2 X 2.5 sq. mm +1 X 2.5 sq. mm earth wire	1875.00	Meter	350.00	656250.00	INR Six Lakh Fifty Six Thousand Two Hundred & Fifty Only
4.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLSH PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. 2 X 4 sq. mm +1 X 4 sq. mm earth wire	650.00	Meter	400.00	260000.00	INR Two Lakh Sixty Thousand Only
5.00	Supplying and drawing 4 x 10 sq. mm sizes of FRLSH PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.	340.00	Meter	550.00	187000.00	INR One Lakh Eighty Seven Thousand Only

 9/11/2024

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
6.00	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 20 mm	100.00	Meter	80.00	8000.00	INR Eight Thousand Only
7.00	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25 mm	100.00	Meter	80.00	8000.00	INR Eight Thousand Only
8.00	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. 32 mm	340.00	Meter	200.00	68000.00	INR Sixty Eight Thousand Only
9.00	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. 40 mm	50.00	Meter	280.00	14000.00	INR Fourteen Thousand Only
10.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlet and 2 Nos. 5/6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	20.00	Each	650.00	13000.00	INR Thirteen Thousand Only
11.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	40.00	Each	750.00	30000.00	INR Thirty Thousand Only
12.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Telephone socket outlet	10.00	Each	120.00	1200.00	INR One Thousand Two Hundred Only
13.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Data/ LAN outlet	10.00	Each	120.00	1200.00	INR One Thousand Two Hundred Only
14.00	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required. 1 or 2 Module (75mm X 75mm)	20.00	Each	150.00	3000.00	INR Three Thousand Only
15.00	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required. 1 run of cable	200.00	Meter	70.00	14000.00	INR Fourteen Thousand Only

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
16.00	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator) 12 way (8 + 36), Double door	6.00	Each	12000.00	72000.00	INR Seventy Two Thousand Only
17.00	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole	180.00	Each	160.00	28800.00	INR Twenty Eight Thousand Eight Hundred Only
18.00	Supplying and fixing 63A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Four pole	6.00	Each	1200.00	7200.00	INR Seven Thousand Two Hundred Only
19.00	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps 2 Module	18.00	Each	2500.00	45000.00	INR Forty Five Thousand Only
20.00	Supplying and fixing Cable End Box (Loose wire box) (IP 43) suitable for following triple pole and neutral, 1.6mm thick sheet steel, and depth not less than 82mm, MCB distribution board, 415 V, on surface/ recess, complete with testing and commissioning etc. as required. For 12 way, Double door TPN MCB DB	6.00	Each	11500.00	69000.00	INR Sixty Nine Thousand Only
21.00	Supply & Installation of Recessed mounted Dayspace LED sidelit 2X2 panel with hollow space, made of CRCA housing with high efficiency single piece PC Diffuser. Lumious flux should come inner lateral surface of the luminarie which gives indirect lightin. LED Used shall be SMD type and fixture should have minimum efficacy at System level >=85 lumens/watt with Minimum system Lumens 3600, Life of fixture : 50000 burning Hrs. @ L70B50 Lumen maintenance, CCT of 6500K (SDCM<=5), CRI Ra >=80, THD<10%, PF >0.95. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. The product should be able to integrate into the ceiling to deliver soft and etheareal yet brilliant environment with good vertical illuminance. The product should have provision of customizable back plate for creative freedom if required. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Both the fixture and Driver should have separate BIS approval. (Signify Cat No. RC740B LED36S/865 W60L60 PSU WH or equivalent)	410.00	Each	5800.00	2378000.00	INR Twenty Three Lakh Seventy Eight Thousand Only


9/11/2024

NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
22.00	Supply & Installation of Recessed LED Downlighter, made up of pressure die cast aluminum housing with high efficiency PS diffuser, LED Used shall be SMD type and fixture should have minimum efficacy at System level ≥ 100 lumens/watt with Minimum system Lumens 1200 & max wattage 11W, Life of fixture : 50000 burning Hrs. @ L70B50 Lumen maintenance, CCT of 6500K (SDCM ≤ 5), CRI Ra ≥ 80 , PF > 0.9 , an Operating working temp range - $0^{\circ}\text{C} < T_a < 45^{\circ}\text{C}$ & operating Voltage Range of 130-320 V AC. Minimum Internal Surge Protection 2.5KV. The fixture design should be with flicker free operations ripple $< 5\%$, comply to IEC61000-3-2 ed.3.2, 2009 for Harmonics, IEC61347 -2 -13, 2006 in Conjunction with IEC61347-1 ed.2.0, 2007 for Electrical Safety, IEC62384 ed.1.1, 2011 for performance and IEC61547 ed.2.0, 2009, CISPR-15 for EMI/EMC. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Both the fixture and Driver should have separate BIS approval.	92.00	Each	750.00	69000.00	INR Sixty Nine Thousand Only
23.00	Supply & Installation of Deep Recessed tunable white & dimmable LED Downlighter UGR < 19 with cut off angle 38° and beam angle 65° made up of pressure die cast aluminum housing with high efficiency, faceted clear surface, LED minimum efficacy at System level approx 120 lumens/watt with system Lumens 1200 & wattage 10W, Life of fixture : 50000 burning Hrs. @ L70B50 Lumen maintenance, CCT should have a range of 3000~6500K, CRI Ra ≥ 80 , PF > 0.9 , an Operating working temp range $0^{\circ}\text{C} < T_a < 45^{\circ}\text{C}$ & operating Voltage Range of 140-270 V AC. Minimum Internal Surge Protection 2.5KV. Dimensions: $\varnothing=137\text{mm}$, Cut out= 125mm, Height= 85mm. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Both the fixture and Driver should have separate BIS approval.	35.00	Each	12000.00	420000.00	INR Four Lakh Twenty Thousand Only

gbl
21/12/2024

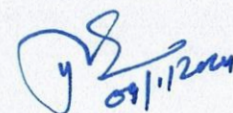
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24.00	Supply & Installation of Slim 53mm width x 70mm height x 1126mm length Suspended 4ft continuous Linear pureline LED H-section with LED compartment to be independent from the Driver compartment. Access to the driver should be from the top of the luminaire and not through the diffuser and LED tray to avoid any damage to the diffuser, Fixture to be made of extrusion Aluminum housing in white finish with high efficiency polycarbonate/PS diffuser. LED Used shall be SMD type with approx system Lumens 2500& efficacy 120lm/W, Life of fixture : 50000 burning Hrs. @ L70B50 Lumen maintenance, CCT of 6500K (SDCM<=5), CRI Ra >=80, PF >0.95, an Operating working temp range - 0°C < Ta < 45°C & operating Voltage Range of 140-270 V AC. Minimum Internal Surge Protection 4.0KV. . Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Both the fixture and Driver should have separate BIS approval.	20.00	Each	4500.00	90000.00	INR Ninety Thousand Only
25.00	Supply & Installation of Recess mountable 360 degree motion sensor that combines motion detection (PIR), infrared remote control reception (IR) and ambient light level detection (PE) into the one device. Integrated DIP switches allow physical adjustment of the sensor's area addressing, no-motion time-out period, and corridor hold functionality, for commissioning-free installation and replacement. Detects the presence or absence of motion and adjusts lights accordingly. Surrounds the motion sensor element and enables a portion of the sensing field to be masked. This prevents nuisance detection from adjacent doorways or corridors. All functionality can be achieved with the built-in DIP switches for area addressing, no-motion time-out and other advanced features. Up to 31 individual addressing areas. No-motion time-out selectable to 30 seconds, 5 minutes, 15 minutes or 30 minutes. of control. Links corridor areas with adjacent rooms so corridor remains lit while occupancy is detected in adjacent rooms. UL2043 certified for installation in air-handling plenum spaces. Certification CE, RCM, UL/cUL, FCC, ICES, UKCA, RoHS. Detection Area 7 m X 5.5 m.	7.00	Each	7500.00	52500.00	INR Fifty Two Thousand Five Hundred Only


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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
26.00	Supply & Installation of single-universe controller, ideal for large-scale projects looking for a powerful all-in-one DALI control solution. Compatible with a range of DALI fittings and devices including DALI fluorescent drivers, DALI electronic low voltage transformers, DALI LED fixtures, DALI emergency lighting fixtures. Provides control of luminaires. Commission each universe individually without affecting other universes or controller functionality. Provides automatic enumeration of DALI drivers when powered on and enables self repair of the network system if a DALI driver fails. Constantly checks the DALI bus for changes automatically enumerating individual driver replacements with no disruption to lighting performance and capable of controlling and addressing 64 nos of luminaires individually. Integrates seamlessly with compatible emergency systems. Direct mapping from DALI to the DyNet network protocol eliminates DALI imposed limits, such as maximum group sizes.	1.00	Each	40000.00	40000.00	INR Forty Thousand Only
27.00	Supply & Installation of Antumbra / equivalent, 6 buttons, Panel, EU, White facia & White rim - Custom Labelling	2.00	Each	22000.00	44000.00	INR Forty Four Thousand Only
28.00	Supply & Installation of communication module that connects user interfaces to bus communication network Does not require an external power supply Can store and recall up to 21 configurations Contains Can be installed, wired and tested without application module, avoiding fascia damage during ongoing construction Certifications: CE, RCM, UL/cUL, FCC, ICES, UKCA, RoHS Standard(s) for Safety: UL 916, Energy Management Equipment.	2.00	Each	125000.00	250000.00	INR Two Lakh Fifty Thousand Only
29.00	Supply & Installation of LED Bulkhead luminaire, Vandal resistant Polycarbonate diffuser with IP 65, IK08 dust tight and water Jet proof for clean operation, lumen maintain of 70% at the end of 50000 burning hours, operating range 140 – 270V, 50Hz AC supply voltages and system lumen output not less than 950 lm, luminaire efficiency of luminaire not less than 100 lm/W, THD ≤10% LED shall have reverse polarity, open and short circuit protection. LM 79 report to be submitted for luminaire from NABL accredited photometry lab and LM 80 for LED source issued by LED manufacturer and meeting the tender specification.	4.00	Each	550.00	2200.00	INR Two Thousand Two Hundred Only


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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
30.00	Supply & Installation of 90 Watt LED street light with Epoxy polyester powder coated pressure die cast Aluminium housing with toughened glass with integral constant current driver input operating voltage range 140V – 270V 50Hz AC supply, prewired upto the terminal block. System lumen output $\geq$ 9900 lumens with luminaire efficacy $\geq$ 110lm/W, lumen maintain of 70% at the end of 50000 burning hours, PF $\geq$ 0.95, CRI $\geq$ 70, THD $<$ 10%, IP $\geq$ 65, protected with separate optics and control gear compartment, toughened glass protector, mechanical impact protection IK7, permanently sealed and a removable control gear plate, mounting spigot suitable for horizontal mounting ($\varnothing$ 62mm) with tilt flexibility of (+)(-) 10 degrees. LM 79 report to be submitted for luminaire from NABL accredited photometry lab and LM 80 for LED source issued by LED manufacture. LED shall have reverse polarity, open and short circuit protection and meeting tender specification.	20.00	Each	5500.00	110000.00	INR One Lakh Ten Thousand Only
31.00	Supply and installation of Hot dip galvanised 9 Mtr octagonal pole made of 3mm thick HT Sheet with Top dia 70mm A/f (min) & bottom dia 155 mm (min), base plate 250x250x16mm, weatherproof reinforced door opening suitable for inbuilt MCB, Mica sheet and Stud Terminal. It's includes single arm 1.50 Mtr long customised bracket with 45 degree tilting angle made of 50mm dia and 4Nos J-Type M-24X750mm long EN8 grade foundation Bolts with 3mm thick Template and all complete as per approved drawing by EIC. It's also includes Single pole 6A MCB. (Excluding foundation civil work)	20.00	Each	7500.00	150000.00	INR One Lakh Fifty Thousand Only
32.00	Erection of metallic pole of 09 meter length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) RCC foundation of size 0.60 X 0.60 X 1.50 Metre deep with proper size of foundation bolts including excavation, refilling and fixing of bracket etc. as required. (Including foundation civil work) including excavation & refilling, including positioning of template & foundation bolts (supplied with pole to match with pole base plate) complete as required.	20.00	Each	12000.00	240000.00	INR Two Lakh Forty Thousand Only
33.00	Supplying and laying of 63 mm dia (OD-63 mm & ID-51 mm nominal) size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	500.00	Meter	85.00	42500.00	INR Forty Two Thousand Five Hundred Only
34.00	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/DWC pipe as required. i) Upto 35 sqmm	500.00	Meter	20.00	10000.00	INR Ten Thousand Only


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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
35.00	Supply of following sizes of Power Cables multi stranded Aluminium conductor, XLPE Insulated, cores laid up PVC tape / Extruded Inner sheath, Armour, FRLS at outer sheath, 1100V grade as per IS 7098 (Part 1) 1988 with upto date amendments. 4 x 25 sq.mm.	700.00	Meter	220.00	154000.00	INR One Lakh Fifty Four Thousand Only
36.00	Supply of following sizes of Power Cables multi stranded Aluminium conductor, XLPE Insulated, cores laid up PVC tape / Extruded Inner sheath, Armour, FRLS at outer sheath, 1100V grade as per IS 7098 (Part 1) 1988 with upto date amendments. 3.5 x 70 sq.mm.	300.00	Meter	595.00	178500.00	INR One Lakh Seventy Eight Thousand Five Hundred Only
37.00	Supply of following sizes of Power Cables multi stranded Aluminium conductor, XLPE Insulated, cores laid up PVC tape / Extruded Inner sheath, Armour, FRLS at outer sheath, 1100V grade as per IS 7098 (Part 1) 1988 with upto date amendments. 3.5 x 240 sq.mm.	650.00	Meter	1050.00	682500.00	INR Six Lakh Eighty Two Thousand Five Hundred Only
38.00	Supply of following sizes of Power Cables multi stranded Copper conductor, XLPE Insulated, cores laid up PVC tape / Extruded Inner sheath, Armour, FRLS at outer sheath, 1100V grade as per IS 7098 (Part 1) 1988 with upto date amendments. 4x 10 sq.mm.	1000.00	Meter	490.00	490000.00	INR Four Lakh Ninety Thousand Only
39.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	1000.00	Meter	35.00	35000.00	INR Thirty Five Thousand Only
40.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size on cable tray as required. Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	650.00	Meter	42.00	27300.00	INR Twenty Seven Thousand Three Hundred Only
41.00	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required 4 X 25 sq. mm (28 mm)	2.00	Set	140.00	280.00	INR Two Hundred & Eighty Only
42.00	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 3½ X 70 sq. mm (38mm)	6.00	Set	225.00	1350.00	INR One Thousand Three Hundred & Fifty Only
43.00	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 3½ X 240 sq. mm (62mm)	12.00	Set	700.00	8400.00	INR Eight Thousand Four Hundred Only


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NUMBER # Sl. No.	TEXT # Item Description	NUMBER # Quantity	TEXT # Units	NUMBER # BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	NUMBER # TOTAL AMOUNT in Rs. P	TEXT # TOTAL AMOUNT In Words
44.00	Supplying and making end termination with brass compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required. 4C X 10 sq. mm (25mm)	22.00	Set	200.00	4400.00	INR Four Thousand Four Hundred Only
45.00	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (with charcoal/ coke and salt) as required.	4.00	Set	4500.00	18000.00	INR Eighteen Thousand Only
46.00	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	300.00	Meter	40.00	12000.00	INR Twelve Thousand Only
47.00	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	10.00	Meter	230.00	2300.00	INR Two Thousand Three Hundred Only
48.00	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 450 mm width X 50 mm depth X 2.0 mm thickness	650.00	Meter	1230.00	799500.00	INR Seven Lakh Ninety Nine Thousand Five Hundred Only
49.00	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 300 mm width X 50 mm depth X 1.6 mm thickness	300.00	Meter	800.00	240000.00	INR Two Lakh Forty Thousand Only
50.00	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 450 mm width X 50 mm depth X 2.0 mm thickness	6.00	Each	2500.00	15000.00	INR Fifteen Thousand Only
51.00	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 300 mm width X 50 mm depth X 1.6 mm thickness	4.00	Each	1700.00	6800.00	INR Six Thousand Eight Hundred Only
52.00	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 450 mm width X 50 mm depth X 2.0 mm thickness	2.00	Each	3000.00	6000.00	INR Six Thousand Only

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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
53.00	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "Tee" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required. 300 mm width X 50 mm depth X 1.6 mm thickness	2.00	Each	2000.00	4000.00	INR Four Thousand Only
54.00	AHU PANEL Design, Manufacture, Supplying, Transport to the site, Receiving, Unloading, Shifting to various locations, handling, assembling, installation in correct aligned position, grouting with dash fasteners, GI nuts-bolts, testing and commissioning of Totally Type Tested Panels (Form-4B construction) complying to IEC:61439 -1/2 cubical with Internal arc withstand of 50kA for 0.3 second and minimum impact resistance IK10 as per IEC:62262 with each compartment front and back sheet steel metal door. The degree of protection of minimum IP:42 for indoor and IP:65 for outdoor use. Panels shall be tested for an Impulse Withstand Voltage of 12kV. Suitable for 415V, 3Phase, 4 Wire 50 Hz Ac supply system bolted fabricated in compartmentalized (preferably) design from CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plate, bottom base channel of MS section not less than 100mmx 50mmx50mmx 5mm thick for Main L.T. Panel and 40mmx25mmx25mmx 5mm thick plates for MDB/MCC and SDBs etc.					
54.01	incl. cleaning & finishing complete, SMC bus bar supports, with short circuit withstand capacity of minimum 50kA for 1 Sec., fabrication shall be done in transportable sections and all front and back doors shall be hinged type and earth with frame, Entire panel shall have a common copper continuous earth bar of size 40mm x 6mm or as specified below at the rear with 2 Nos. earth stud each side, solid inter connections from main bus bar to switch gears upto cable alley with required size. bus bars and insulated control wiring with suitable size of FRLSH PVC insulated copper conductor cable, cable alleys, cable gland plates in two half, incl. providing following switch gears :-					
54.02	The Bus bars will be electrolytic grade E91 Aluminium. Panels will be powder coating (60-80micron as per IS:13871 for indoor and 90-100 micron for outdoor), include one size higher terminal block in cable alley and interconnecting wires between bus bars and terminals via MCB. All Bus-Bar alley and relay compartments shall be provide fully automatic control thermostat with strip heater.					


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Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder (Without GST) Rs. P	TOTAL AMOUNT in Rs. P	TOTAL AMOUNT In Words
54.03	INCOMING- I & II 2 Nos. 630A, 4P MCCB, Microprocessor based release (Ics = Icu = 50kA) with inbuilt O/L , S/C & E/F protection as per specification . Each incomer shall have one set of following Item :- 1 Set of RYB phase indicating LED lamps controlled by 2 amp MCB. 1 Set of ON/ OFF/TRIP Indicating LED Lamps With 2 Amp MCB For MCCB 1 No. Digital MFM meter and 3 nos. Cast resin CTs of ratio 630/5A , Class 0.5 accuracy and 10 VA burden. digital multifunction meter suitable to measure voltage, Ampere, Frequency, Power Factor, Measurement of both KVA/KW/kVAH/MDI, Individual Odd Harmonics for voltage and current including THD with RS-485 port.					
54.04	BUSCOUPLER 1 Nos. 630A, 4P MCCB, Microprocessor based release (Ics = Icu = 50kA) with inbuilt O/L , S/C & E/F protection as per specification with following accessories. 1 Set of ON/ OFF/TRIP Indicating LED Lamps With 2 Amp MCB For MCCB Electrical & Mechanical Interlocking between both incomers & Buscoupler					
54.05	BUSBARS- I & II 4P Aluminium bus bars of 700A capacity with heat shrinkable coloured sleeves incl. SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 50 KA for 1 sec.					
54.06	For each busbar- 1 No Surge protection device Type 2 (Class C), 4 Mode, MOV type suitable for 8/ 20µs 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} ≥ 40KA Per mode & I _n ≥ 20kA per Mode. SPD with 63A 4P HRC fuses of 100kA breaking capacity. For connecting SPD minimum 10sqmm FRLSH copper wire must be used & length of connecting leads shall not be more than 500mm for per mode connection including all necessary accessories. The SPD shall compliance with IEC 61643-11.					
54.07	OUTGOING SECTION-I & II					
54.08	20 Nos. 125A 4P MCCB with built in thermal magnetic release with adjustable thermal setting with in built O/L & S/C protection. (Ics = Icu =25 KA) and suitable rating VFD for 12000 CFM AHU					
54.09	20 Nos. 63A 4P MCCB with built in thermal magnetic release with adjustable thermal setting with in built O/L & S/C protection (Ics = Icu =25 KA) and suitable rating VFD for 10000 CFM AHU					
54.10	Each outgoing shall have one set of the following items:					


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54.11	1 No ON' (Red), OFF & TRIP indication lamp (LED type) with 2 Amp SP MCB for each outgoing. 1 Set Rotary operating mechanism and terminal extension spreaders for all the ACBs/MCCB's. Thermal magnetic release based MCCBs (Upto 250A) shall be provided with inbuilt O/L & S/C protection & E/F Module with CBCT or Earth Fault Relay (ELR 30-3000mA) with required CTs.					
54.12	Note All MICROPROCESSOR based ACB and MCCBs shall be provided with inbuilt O/L, S/C & E/F protection, Individual LED for fault indication for each fault					
54.13	AHU Panel	1.00	Job	650000.00	650000.00	INR Six Lakh Fifty Thousand Only
Total in Figures					8921630.00	INR Eighty Nine Lakh Twenty One Thousand Six Hundred & Thirty Only
Quoted Rate in Words		INR Eighty Nine Lakh Twenty One Thousand Six Hundred & Thirty Only				


 (Pramod Kumar Thakre)
 Dy. Gen. Manager (Engg.-Elect.)
 AAI, R. B. Airport, Bhopal

Signature Not Verified

Digitally signed by Dadan Singh
 Date: 2024.02.08 16:59:33 IST
 Location: eProcurement System for Central PSUs

