



भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India



ए.ए.आई/ए.टी.इंजी(इ)/अवार्ड-08/2019-20

Date: 17/03/2020

AAI/AT/ENGG(E)/AWARD-08/2019-20 / 5036-42

सेवा में / To,

मेसर्स / M/S R.B. Multitech,
5, Amarnath Industrial Park,
Opp. Maize Products, Near Vijay Timber Mart,
Odhav-Singarva Road, Singarva,
Ahmedabad-381430.

कार्य का नाम/Name of Work: एम.बी.बि. हवाई अड्डा, अगरतला में विविध विद्युत कार्य। /
Miscellaneous Electrical Works at M.B.B. Airport,
Agartala.

टेंडर आई डी संख्या/Tender ID No.: 2020_AAI_41289_1

संदर्भ/Ref.: i) Financial bid opened on 24-02-2020.

महोदय /Dear Sir,

ऊपर उल्लिखित कार्य हेतु आपका टेंडर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गए मद मूल्यों पर आपकी टेंडर राशि कुल **रु. 22,69,732/-** (रु. बाईस लाख उनहत्तर हजार सात सौ बत्तीस मात्र), (जीएसटी को छोड़कर) जो कि टेंडर की अनुमान राशि रु. 26,82,091 /- से 15.37% प्रतिशत निचे है।

Your tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India at the item rates quoted by you totaling to **Rs.22,69,732/-** (Rupees Twenty Two Lakh Sixty Nine Thousand Seven Hundred and Thirty Two only), (Excluding GST) which is 15.37% below the Estimated cost put to tender of Rs. 26,82,091/-.

उप महाप्रबंधक (अभि-विद्युत), भा.वि.प्रा, अगरतला हवाई अड्डा इस कार्य के प्रभारी-अभियंता होंगे। आपसे निवेदन है कि करारनामे पर हस्ताक्षर करने के लिए दिनांक 01-04-2020 तक उप महाप्रबंधक (अभि-विद्युत), अगरतला के कार्यालय में उपस्थित हों। ठेके का करारनामा रु. 100/- (रु. एक सौ) मात्र के नॉनज्यूडीशियल स्टैम्प पेपर पर निष्पादित किया जाएगा तथा पेपर का खर्च आपके द्वारा वहन किया जाएगा।

Dy. General Manager (Engg-E), AAI, Agartala Airport shall be the Engineer-In-Charge of the work. You are requested to attend the office of the Dy. General Manager (Engg-E), AAI, Agartala Airport by **01/04/2020** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.100/-** (Rupees One hundred only) and the cost of the stamp paper shall be borne by you.

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आपके टेंडर के साथ प्राप्त धरोदर राशी **रु. 53,642/-** (रुपये तिरपन हजार छह सौ बयालीस मात्र) ठेके के दस्तावेज से पृष्ठ 17 पर दी गई शर्त 1(A) के अनुसार जमानत राशी परिवर्तित कर दी गई है। कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर जमानत राशी की बकाया **रु. 1,73,331/-** (रुपये एक लाख तिहतर हजार तिन सौ इकतीस मात्र) अदा की जाए अन्यथा निविदा दस्तावेज के कंडीशन 1(A) पेज संख्या 17 के अनुसार उक्त राशी उनके रनिंग बिल से कटौती की जाएगी।

The earnest money amount of **Rs. 53,642/-** (Rupees Fifty Three Thousand Six Hundred and Forty Two only) received along with your tender will be treated and converted as part of security deposit as per clause 1(A) on page 17 of tender contract document. Please deposit **Rs. 1,73,331/-** (Rupees One Lakh Seventy Three Thousand Three Hundred and Thirty One only) towards security deposit within 10 days from the date of issue of this letter, failing which the same will be deducted from your running bill as per condition 1(A) on page 17 of the contract document.

आपसे निवेदन है कि अनुबंध श्रमिक (विनियमन तथा उन्मूलन) अधिनियम 1970, अनुबंध श्रमिक (विनियमन तथा उन्मूलन) केंद्रीय नियम 1971, केंद्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन अवश्य करें।

You are requested to comply with the provisions of contract labour (Regulation and abolition) Act of 1970 and contract labour (Regulation & abolition) Central rules 1971 and minimum wages Act & rules thereof central and state Governments.

आपको निर्देश दिया जाता है कि आप तुरंत ब. प्रबंधक (अभि-विद्युत), भा.वि.प्रा, अगरतला हवाई अड्डा से सम्पर्क करें वह आपको साईट सौंपने की व्यवस्था करेंगे।

You are also directed to contact Sr. Manager (Engg-E), AAI, Agartala Airport, immediately who will arrange to hand over the site to you.

कृपया नोट कर लें कि काम करने का अनुमत समय **06 (छह) महीना** है जो कि कार्य आदेश के जारी करने के बाद दस (10) दिन से गिना जाएगा।

Please note that the time allowed for carrying out the work is **06 (Six) months**, which shall be reckoned after 10th day of issue of this order.

इस ठेके के संबंध में आगे का कोई भी पत्राचार प्रभारी-अभियंता को किया जाएगा।

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

कृपया पावती भेजें और स्वीकृति प्रतीक के तौर पर संलग्नित पत्र की हस्ताक्षरित प्रति इस कार्यालय को अवश्य भेजें।

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

भवदीय/ Yours faithfully,

संलग्न/Encl: Bill of Quantities

Pages-06

(के.सी. मीना / K.C. MEENA)

उप महाप्रबंधक (अभि-विद्युत)/Dy.G.M.(Engg-E)
कृते तथा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से

For and on behalf of Chairman,
Airports Authority of India.

प्रतिलिपी / Copy to : (Via e-mail)

1. महा प्रबंधक (अभि-वि), भा.वि.प्रा., लो.गो.ब.अं. हवाई अड्डा, गुवाहाटी-15।
General Manager (Engg-E), AAI, LGBI Airport, Guwahati-15.
2. विमानपत्तन निदेशक, भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Airport Director, AAI, M.B.B. Airport, Agartala.
3. स. महा प्रबंधक (अभि-वि), भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Asstt. General Manager (Engg.-E), AAI, M.B.B. Airport, Agartala.
4. सहायक महा प्रबंधक (वित्त), भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Asstt. General Manager (F&A.), AAI, M.B.B. Airport, Agartala.
5. ब. प्रबंधक (अभि-वि), भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Sr. Manager (Engg.-E), AAI, M.B.B. Airport, Agartala.
6. प्रबंधक (अभि-वि), भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Manager (Engg-E), AAI, M.B.B. Airport, Agartala.

(के.सी. मीना / K.C. MEENA)

उप महाप्रबंधक (अभि-विद्युत)/Dy.G.M.(Engg-E)

0/L

BILL OF QUANTITIES

Name of work: Miscellaneous Electrical Works at M.B.B. Airport, Agartala.

Item No.	Items of Work	Quantity	Unit	Rate	Amount
1	Supply of following size XLPE insulated and PVC sheathed aluminium conductor armoured Power Cable of 1.1KV grade conforming to IS 7098, Part-I 1988 with up to date amendments and confirming to technical specifications. (a) 3.5c x 35 Sq.mm	500	Mtr.	160.00	80,000.00
2	Supply of 1x18W LED batten tube light fitting for surface mounting indoor application, IP 20 protection, suitable to operate on 230V $\pm$, 10% single phase, AC supply.	100	Each	250.00	25,000.00
3	Supply of 1x14W LED type mirror light fitting for surface mounting indoor application, IP 20 protection, suitable to operate on 230V $\pm$, 10% single phase, AC supply.	30	Each	380.00	11,400.00
4	Supply of 1x18W LED type Emergency light fitting for surface mounting indoor application, IP 20 protection, suitable to operate on 230V $\pm$, 10% single phase, AC supply.	25	Each	280.00	7,000.00
5	Supply of 80W LED type floodlight luminaire with minimum IP-65 protection for outdoor application, made out of high pressure die-cast aluminum housing design & powder coated finishing, with heat resistant diffuser & toughened glass in front, with mounting bracket for aiming adjustment suitable to operate on 240 V, 50 Hz, AC supply with control gear and other accessories complete as required conforming to technical specification attached.	20	Each	4,560.00	91,200.00
6	Supply of 120W LED type floodlight luminaire with minimum IP-65 protection for outdoor application, made out of high pressure die-cast aluminum housing design & powder coated finishing, with heat resistant diffuser & toughened glass in front, with mounting bracket for aiming adjustment suitable to operate on 240 V, 50 Hz, AC supply with control gear and other accessories complete as required conforming to technical specification attached.	6	Each	5,520.00	33,120.00



Item No.	Items of Work	Quantity	Unit	Rate	Amount
7	Supply of 350W LED type floodlight luminaire with minimum IP-65 protection for outdoor application, made out of high pressure die-cast aluminum housing design & powder coated finishing, with heat resistant diffuser & toughened glass in front, with mounting bracket for aiming adjustment suitable to operate on 240 V, 50 Hz, AC supply with control gear and other accessories complete as required conforming to technical specification attached.	6	Each	17,040.00	1,02,240.00
8	Supply of Dichroic Reflector Airfield Halogen Lamp for series operation at 6.6 Ampere suitable for inset type Runway Edge Light fitting of following types: (a) 105W with Flat pin (female type) (Make Osram; Cat No: 64339A / Make Narva; Cat No: 6105) (b) 105W with Flat pin (male type) (Make Osram; Cat No: 64339C / Make Narva; Cat No: 6108)	100 30	Each Each	1,550.00 180.00	1,55,000.00 5,400.00
9	Supply and fixing of following types of high voltage Synthetic Insulating Mat made out of synthetic Elastomer conforming to IS 15652:2006 with minimum width of 1 metre. Insulating mat should be flexible, anti skid, fire retardant, water and moisture proof with no adverse effect of acids, alkalies and transformer oil. Insulating mat should be fixed with suitable adhesive/chemibond, resin, water proofing compound and other sealing materials as per specifications. Insulating mats should be ISI marked alongwith CM/L nos at every meter and ERDA/CPRI tested. Test certificates to be provided along with materials as per compliance with relevant IS code) (a) Class - A type, Up-to 3.3 KV (Thickness: 2 mm) (b) Class - B type, 3.3 KV to 11 KV (Thickness: 2.5 mm)	90	Sq. Mtr.	840.00	75,600.00
10	SITC of Battery Charger Unit (Float cum Boost type) suitable for charging of HT panel battery bank (30 Volt, 100 AH ; consisting of 15 Nos. 2V, VRLA battery set) complete as required as per the technical specification attached.	45 1	Sq. Mtr. Each	1,140.00 30,000.00	51,300.00 30,000.00

Item No.	Items of Work	Quantity	Unit	Rate	Amount
11	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required. (a) Upto 35 sq. mm (b) Above 185 sq. mm and upto 400 sq. mm	500 500	Mtr. Mtr.	96.00 130.00	48,000.00 65,000.00
12	Laying of one number PVC insulated and PVC sheathed /XLPE power cable of 11 KV grade of following size in the existing RCC/HUME/METAL pipe as required. (a) Upto 120 Sq.mm	500	Mtr.	140.00	70,000.00
13	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed /XLPE aluminium conductor cable of 1.1 kV grade as required. (a) 3.5c x 240 sq. mm	6	Set	6,500.00	39,000.00
14	Supplying and laying of following 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/concrete/all kinds of soil (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required. (a) 63 mm dia (OD-63 mm & ID-51 mm nominal) (b) 120 mm dia (OD-120 mm & ID-103 mm nominal)	500 500	Mtr. Mtr.	105.00 190.00	52,500.00 95,000.00
15	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 meter long etc. with charcoal/ coke and salt as required.	30	Each	8,400.00	2,52,000.00
16	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and refilling etc. as required.	230	Mtr.	580.00	1,33,400.00
17	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	230	Mtr.	65.00	14,950.00

Item No.	Items of Work	Quantity	Unit	Rate	Amount
18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	150	Mtr.	18.00	2,700.00
19	Supply of CI cover plate with locking arrangement (1' x 1' size) for earthing pit.	20	Set	300.00	6,000.00
20	Supply of 300 mm, 1400 RPM, single phase, heavy duty Exhaust Fan including louver, suitable for operation on 230V $\pm$ 10% single phase, AC Supply. As per AAI approved make list.	15	Each	1,020.00	15,300.00
21	Supply of Exhaust fan Louver upto 450mm fan size.	30	Each	60.00	1,800.00
22	Design, fabrication, supply, installation, testing and commissioning of weather, vermin proof, powder-coated, fully compartmentalized outdoor type cubicle panel {minimum IP 65 protection ; to be installed on concrete pedestal of approximate size : 2 x (1000mm x 500mm x 750mm) with MS angle mounting legs} with lifting hooks, fabricated with 2mm thick CRCA sheet with hinged double door with gasket, detachable gland plates for cable chamber, 2 earthing studs, bottom type cable entry provision having locking arrangement in front, chemically treated through at-least seven-tank process consisting of the following switchgears: (A) Incomer: 250A, 4 pole, 36kA MCCBs (Ics = 100% of Icu) with adjustable O/L, S/C and thermal-magnetic release protection along-with Castle Key lock interlock arrangement: 2 Nos. (B) Bus-coupler: 250A, 4 pole, 36kA MCCBs (Ics = 100% of Icu) with adjustable O/L, S/C and thermal-magnetic release protection along-with Castle Key lock interlock arrangement: -1 Nos. (C) Outgoing: 63A, 4 pole, 25kA MCCBs (Ics = 100% of Icu) with adjustable O/L, S/C and thermal-magnetic release protection along-with front driving extended rotary handle: 3 Nos.; 50A, 4 pole, 25kA MCCBs (Ics = 100% of Icu) with adjustable O/L, S/C and thermal-magnetic release protection along-with front driving extended rotary handle: 2 Nos. (D) Bus-bar: 300A, 3Ø, 4 wire Aluminium. (E) Indication Lamp: LED indication lamps with back-up fuse for 3 phase indications of incoming supply & ON/OFF indication for all outgoing and incomers. (F) Metering: Digital multifunction meter for all incomers with suitable resin-cast CTs. (G) Aluminium earth bar of suitable size - 1 Set.	1	Job	2,82,000.00	2,82,000.00

Item No.	Items of Work	Quantity	Unit	Rate	Amount
23	Design, fabrication, supply, installation, testing and commissioning of weather, vermin proof, powder- coated, fully compartmentalized outdoor type cubicle panel {minimum IP 65 protection ; to be installed on concrete pedestal of approximate size : 2 x (1000mm x 500mm x750mm) with MS angle mounting legs} with lifting hooks, fabricated with 2mm thick CRCA sheet with hinged double door with gasket, detachable gland plates for cable chamber, 2 earthing studs, bottom type cable entry provision having locking arrangement in front, chemically treated through at-least seven-tank process consisting of the following switchgears: (A) Incomer: 320A, 4 pole, 70kA MCCBs (lcs = 100% of lcu) with adjustable O/L, S/C and thermal-magnetic release protection along-with Caslte Key lock interlock arrangement: 2 Nos. (B) Bus-coupler: 320A, 4 pole, 70kA MCCBs (lcs = 100% of lcu) with adjustable O/L, S/C and thermal-magnetic release protection along-with Caslte Key lock interlock arrangement: -1 Nos. (C) Outgoing: 250A, 4 pole, 36kA MCCBs (lcs = 100% of lcu) with adjustable O/L, S/C and thermal-magnetic release protection along-with front driving extended rotary handle: 2 Nos.; 25A, 4 pole, 10kA MCCBs along-with provision of timer: 3 Nos. (D) Bus-bar: 400A, 3Ø, 4 wire Aluminium. (E) Indication Lamp: LED indication lamps with back-up fuse for 3 phase indications of incoming supply & ON/OFF indication for all outgoing and incomers. (F) Metering: Digital multifunction meter for all incomers with suitable resin-cast CTs. (G) Aluminium earth bar of suitable size - 1 Set.	1	Job	3,12,000.00	3,12,000.00
24	Excavation for cable trenches of depth upto 1.2 m in soft soil including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 meter.	15	Cum	660.00	9,900.00
25	Supply of following spare parts for L&T make, U-Power Omega Frame-1, 4 Pole Air Circuit Breaker (a) Frame-1 Arc Chute (b) Flux Shift Assembly (FSD) (c) Top Plate Assembly (d) Aux Contact 4NO+4NC with New SIC	2 1 1 1	Each Each Each Each	 3,720.00 1,200.00 505.00 3,000.00	 7,440.00 1,200.00 505.00 3,000.00

Item No.	Items of Work	Quantity	Unit	Rate	Amount
	(e) Main Mechanism Frame-1: 4P 400A- 1600A (N)	1	Each	17,160.00	17,160.00
	(f) Main Mechanism Frame-1: 4P 2000A (N) & 400A-2500A (S/H)	1	Each	17,274.00	17,274.00
	(g) Rack in mechanism Frame-1: 3P/4P & Frame-2: 3P	1	Each	2,961.00	2,961.00
	(h) Jaw Contact Assembly	1	Each	8,224.00	8,224.00
	(i) CT wire-harness Frame-1: 4P	1	Each	1,207.00	1,207.00
	(j) UVW-MTX1.5G	1	Each	28,471.00	28,471.00
	(k) Electrical Charging motor	2	Each	17,640.00	35,280.00
	(l) Main contact assy. Frame-1 400A- 1600A(N)	1	Each	16,200.00	16,200.00
	(m) Main contact assy. Frame-1 400A- 2500A(H) & 2500A(S)	1	Each	30,000.00	30,000.00
	(n) Closing coil	2	Each	2,500.00	5,000.00
	(o) Shunt release	2	Each	3,000.00	6,000.00
	(p) Under voltage Release	2	Each	5,600.00	11,200.00
	(q) CT Frame-1-1000/1250/1600A	1	Each	5,600.00	5,600.00
	(r) CT Frame-1-2000/2500A	1	Each	6,200.00	6,200.00
Grand Total Rs.				2269732.00	

Say Rs. **2269732.00**

(K.C. MEENA
Dy. G. M. (Engg.-Elect)
AAI, Agartala Airport