



संख्या / No: AAI/BD/SM(E-E)/MW-04/2021-22 /123

दिनांक / Date: 11/01/2022

सेवा मे / To,

M/s. Abhishek Integrations Ltd.,
8, Parulnagar Shopping Center,
Nr. Bhuyangdev Cross Road,
Sola Road, Ghatlodia,
Ahmedabad – 380 061

E-mail: abhishekintegrationslimited@gmail.com

विषय/Subject: Operation and Maintenance of all type of E&M Installations at Cooch Behar Airport for two years (2021-2023)

संदर्भ / Ref : (i) E-Tender ID No.: 2021_AAI_94921_1

(ii) आपका सम्मति मेल का संदर्भ दिनांक: 28.12.2021/ Your agreed mail Dated: 28.12.2021

प्रिय महोदय / Dear Sir(s),

1. उपर्युक्त कार्य हेतु आपका ऑफर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गए मद मूल्यों पर आपकी ऑफर राशि कुल रु. 55,63,187.30 (रुपये पचपन लाख तिरिषठ हजार एक सौ सत्तासी एवं तीस पयसा मात्र) जी.एस.टी. के सिवा, जो कि टेंडर की न्यायोचित निविदा राशि रु. 67,49,801.00 से 17.58% (सत्रह दशमलव पाँच आठ प्रतिशत) नीचे है।

Your tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, for the sum of **Rs. 55,63,187.30** (Rupees Fifty Five Lakhs Sixty Three Thousand One Hundred Eighty Seven and Thirty paise only) excluding GST, which is 17.58% (Seventeen Point Five Eight percent) below the Justified Cost of Rs. 67,49,801.00 (excluding GST).

2. **वरिष्ठ प्रबंधक (अभि.-विद्युत), भा.वि.प्रा., बागडोगरा हवाईअड्डा, बागडोगरा-734421**, इस कार्य के लिए प्रभारी इंजीनियर होंगे। आपसे निवेदन है कि आपकी ओर से आप अथवा आपके द्वारा अधिकृत प्रतिनिधि नियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 25.01.2022 तक **वरिष्ठ प्रबंधक (अभि.-विद्युत)** के कार्यालय में करार पर हस्ताक्षर करने एवं उसको पूरा करने हेतु उपस्थित हो। ठेके का करारनामा रु. 100/- (रुपया एक सौ मात्र) के **नॉन ज्युडिशियल स्टाम्प पेपर** पर निष्पादित किया जाएगा तथा स्टाम्प पेपर का खर्च आपके द्वारा वहन किया जाएगा।

Senior Manager (Engg.-Elect.), AAI, Bagdogra Airport, Bagdogra-734421 shall be the Engineer-in – Charge of the work. You are requested to attend the office of Senior Manager (Engg. -Elect.), AAI, Bagdogra Airport, Bagdogra – 734421 by **25.01.2022** to sign and complete the contract 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.

3. आपसे निवेदन है कि आप केन्द्रीय और राज्य सरकारों 1970 के अधिनियम श्रम अनुबंध नियम तथा 1971 के केन्द्रीय नियम (नियमन तथा उन्मूलन) एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन अवश्य करें।

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

4. आपको निर्देश दिया जाता है कि आप तुरंत **वरिष्ठ प्रबंधक (अभि.-विद्युत), भा.वि.प्रा., बागडोगरा हवाईअड्डा, बागडोगरा-734421** से मिले वह आपको **साईट सौंपने की व्यवस्था** करेंगे। और इस कार्य को करने के लिए स्वीकृत समय 24 (चौबीस) महीने होगा और इस पत्त के जारी होने की तारीख से 10 वें दिन से पुनः विचार किया जाएगा।

You are directed to contact with the Sr. Manager (Engg. -Elect.), AAI, Bagdogra Airport, Bagdogra-734421 who will arrange to hand over the site to you. The time allowed for carrying out the work shall be 24 (Twenty Four) months and shall be reckoned from the 10th day after the date of the issue of this letter.

5. इस ठेके के संबंध में आगे का कोई भी पत्राचार इंजीनियर-इन-चार्ज को किया जाएगा ।

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

6. कृपया पावती भेजे और स्वीकृति प्रतिलिपि के तौर पर संलग्नित पत्र की हस्ताक्षरित प्रति इस कार्यालय को अवश्य भेजे ।

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.

7. यदि अंग्रेजी और हिन्दी पाठ में कोई असंगति पाया जाता है तो अंग्रेजी पाठ को सही माना जाएगा ।

If there is any discrepancy between English and Hindi then meaning derived in English will be given precedence.

संलग्न/Encl : i) Schedule of work.

(शुभ्र शान्त घोष /Subhra Santa Ghosh) 11.01.22

वरिष्ठ प्रबंधक (अभि.-विद्युत),
Senior Manager (Engg. -Elect.),
ए.ए.आई./बागडोगरा विमानतल
AAI, Bagdogra Airport.
सिलिगुड़ी-734421/Siliguri-734421

AIRPORTS AUTHORITY OF INDIA
ENGINEERING ELECTRICAL WING
BAGDOGRA AIRPORT
SCHEDULE OF QUANTITY

Name of work: Operation and Maintenance of all type of E&M Installations at Cooch Behar Airport for two years (2021-2023)

Sl.No.	Description of Items	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
SH-I:	OPERATION & MAINTENANCE				
1	Operation of DG sets along with AMF panels and maintenance of E & M installations at NTB, Technical block, power house, pump room, STP, GLF installations, Perimeter Lights & Apron Flood Lights, Fire alarm system, Fire Hydrant system, residential quarters and street light on all working days including sunday & holidays by engaging manpower in shifts involving operation, preventive / routine / breakdown maintenance, attending complaints, repairs with proper tools & plants, documentation etc. as per the contract terms and conditions and directions of Engineer-in-charge at Cooch Behar Airport.	24	Month	1,35,000.00	32,40,000.00
SH-II:	MAINTENANCE OF ACS & WATER COOLERS ALONG WITH SPARES/Fire alarm & Fire fighting system/Conveyor Belt system				
2	Annual Comprehensive maintenance of following capacity single/three phase split type air conditioners of all makes and models/types with voltage stabilizers installed at different locations including providing & fixing all necessary consumables and spares including replacing of faulty compressor for the period of two years etc complete, as required for two years.				
a)	First Year				
i)	1.5/2.0 Tr High wall	14	Each/Year	6,000.00	84,000.00
ii)	3/4 Tr Floor mounted	10	Each/Year	8,000.00	80,000.00
iii)	3/4 Tr Cassette type	7	Each/Year	10,000.00	70,000.00
b)	Second Year				
i)	1.5/2.0 Tr High wall	14	Each/Year	6,000.00	84,000.00
ii)	3/4 Tr Floor mounted	10	Each/Year	8,000.00	80,000.00
iii)	3/4 Tr Cassette type	7	Each/Year	10,000.00	70,000.00
3	Annual Comprehensive maintenance of 15 TR package type air cooled air conditioning unit (Blue Star Make) complete with air conditioning units ,heater , electric control panel and allied accessories including providing & fixing all necessary consumables alongwith replacement of faulty compressor and necessary spares etc. as complete as required for two years.				
a)	First Year : 15 TR Package	2	Each/Year	30,000.00	60,000.00
b)	Second Year : 15 TR Package	2	Each/Year	30,000.00	60,000.00

Sl.No.	Description of Items	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
4	Annual Comprehensive Maintenance Contract (CMC) of water cooler cum purifier/waterpurifier of Eureka forbes make installed at different locations including providing & fixing all necessary consumables and spares etc. as complete as required for two years. (Maintenance should be done through OEM's Authorized dealer)				
a)	<i>For First Year</i>				
i)	AGCCP model	5	Each/Year	6,308.00	31,540.00
ii)	Classic Model	1	Each/Year	3,100.00	3,100.00
b)	<i>For Second Year</i>				
i)	AGCCP model	5	Each/Year	6,308.00	31,540.00
ii)	Classic Model	1	Each/Year	3,100.00	3,100.00
5	Service visit through OEM/Specialised Agency for carrying out servicing/maintenance of Complete Fire Alarm Detection System with all detectors/Fire alarm panel(installed in terminal building / technical block) and complete checking of fire fighting system of terminal building in case of breakdown/ emergency/ as and when required and submission of service / maintenance report of OEM or Specialized Agency complete in all respect. (Maintenance should be done through OEM's / Specialized Agency)	4	Job	35,000.00	1,40,000.00
6	Maintenance of all types of conveyors (3 section flat slider bed conveyor-1 Set, Slat type conveyor belt Arrival Lounge - 1 No.) and all accessories associated to them (Rolling shutters, gravity rollers, control panels, motors of various ratings, SMSR/Gear boxes etc) by quarterly visit and performing routine maintenance, taking rectification action to ensure serviceability / satisfactory working condition of the system and attending to faults / breakdown calls as and when required. (Spares will be supplied by AAI). (Maintenance should be done through OEM only)				
i)	First Year	4	Job	28,000.00	1,12,000.00
ii)	Second Year	4	Job	31,000.00	1,24,000.00

Sl.No.	Description of Items	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
7	One time overhauling of slat / flat slider bed type of conveyors with all other accessories associated to them like rolling shutters, Gravity, rollers, control panels, motors of various rating, SMSR/ Gear boxes etc.) by providing necessary spare parts for following items. (Spare will be supplied by AAI). (Maintenance should be done through OEM only)				
a)	First Year				
i)	Slat type conveyor systems with other accessories	1	Each	67,000.00	67,000.00
ii)	3 Section flat slider bed conveyor system with other accessories	1	Each	37,000.00	37,000.00
b)	Second Year				
i)	Slat type conveyor systems with other accessories	1	Each	74,000.00	74,000.00
ii)	3 Section flat slider bed conveyor system with other accessories	1	Each	41,000.00	41,000.00
8	Supply of following spares for arrival and departure Conveyor Belts				
a)	Main Chain Tyred wheel with 6204ZZ Bearing	300	Each	400.00	1,20,000.00
b)	Caterpillar chain Tyred Wheel	50	Each	380.00	19,000.00
c)	Dog Pusher	6	Each	2,500.00	15,000.00
d)	RS 62 Alligator joint	3	Each	8,000.00	24,000.00
e)	Rubber slat	20	Each	1,500.00	30,000.00
SH-III:	MISCELLANEOUS WORKS				
9	Filtration of transformer oil in 800 KVA, 11KV / 415 V transformer including testing of transformer oil (BDV, acidity, etc.) before and after filtration, confirming to latest Indian standard at site till the reach of satisfactory dielectric strength of 50KV or above and submitting the report, also testing of Winding Temperature Indicator(WTI), Oil Temperature Indicator(OTI), Buchholz relay, Pressure Release valve(PRV) and replacement of silica gel of transformer etc as complete as required.	4	Job	15,000.00	60,000.00
10	Top up of ISI marked Transformer oil during filtration as per site requirement in 800 KVA, 11KV / 415V transformers etc complete as required.	100	Ltr	100.00	10,000.00
11	Calibration and testing of relays & meters of 11 KV HT panel (1 incomer & 2 outgoing system) includes IDMT relay(03 Nos.), Auxiliary/Trip relays(10 Nos.), Annunciator(02Nos.) and meters(06 Nos.) through calibration machine having valid calibrated certificate of Govt./NABL lab and submission of test reports complete as reqd.	2	Job	10,000.00	20,000.00
12	Rewinding of single/three phase following capacity Motors/Pump/Submersible Pump by changing winding including applying the varnish, tightening the bolts, changing end terminals etc as required by AAI including transporting from the AAI store (as may be required) and returning back after through service etc. complete as required. (including considering for credit of dismantle materials)				
i)	1 HP capacity	2	Each	2,000.00	4,000.00
ii)	2 HP capacity	2	Each	3,000.00	6,000.00
iii)	5 HP capacity	2	Each	4,000.00	8,000.00

Sl.No.	Description of Items	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
13	Lifting and lowering of submersible pumps upto 200 ft of capacities(up to 5HP) alongwith GI pipes due to defect in existing pump on urgent basis within a short notice including connection of cable, jointing of cable etc with successful testing & commissioning etc. complete as required.	2	Job	4,000.00	8,000.00
14	Painting of electrical poles of height 7.0 to 14 mtr with one coat of red oxide primer and one coat of silver enamelled paints complete as required.	100	Each	350.00	35,000.00
15	Painting of electrical panel with one or more coats of spray painting with synthetic enamel paint of approved colour to give an even shade, including cleaning of surface etc as required.	100	Sq. Mtr.	150.00	15,000.00
16	Supply of following spares for maintenance of fire alarm system/GLF installations/CCR's/Electrical installations as and when required.				
a)	For installed Fire Alarm System				
i)	Analouge addressable type optical smoke detector	10	Each	2,850.00	28,500.00
ii)	Analouge addressable type Heat detector	10	Each	2,650.00	26,500.00
iii)	Mannual Call point	2	Each	2,950.00	5,900.00
iv)	Hooter	2	Each	2,350.00	4,700.00
v)	Response Indicator	5	Each	90.00	450.00
vi)	12 V, 7.2 AH sealed maintenance free(SMF) Battery	4	Each	890.00	3,560.00
b)	For installed GLF Installtions				
i)	200W 6.6A Bi-Pin Halogen Lamp suitable for AMA Make Runway/PAPI/Approach Fittings	50	Each	320.00	16,000.00
ii)	105W 6.6A Bi-Pin Halogen Lamp suitable for OCEM Make Inset Fittings	50	Each	842.00	42,100.00
iii)	Bi-pin Lamp Holder suitable for 200W & 45W 6.6A halogen lamp of AMA make Runway/PAPI/Approach/Taxi Fittings	50	Each	355.00	17,750.00
iv)	Checking stick Base for AMA make PAPI	4	Each	2,250.00	9,000.00
v)	Red Filter for AMA make PAPI	3	Each	3,060.00	9,180.00
vi)	Clear Lens for AMA make PAPI	3	Each	2,880.00	8,640.00
vii)	PAPI leg upper breakable coupling for AMA make PAPI	10	Each	1,692.00	16,920.00
c)	For CCR's of NASU make				
i)	Main Control Card of CCR(4kw to 30 kw)	1	Each	40,000.00	40,000.00
ii)	Poewr Supply Card of CCR(4kw to 30 kw)	1	Each	12,500.00	12,500.00
iii)	Over Current Trip Card of CCR(4kw to 30 kw)	1	Each	8,500.00	8,500.00
iv)	Relay Card of CCR(4kw to 30 kw)	1	Each	7,000.00	7,000.00
v)	TTM Card of CCR(4kw to 30 kw)	2	Each	3,000.00	6,000.00
vi)	24 V DC Plug in type relay of CCR(4kw to 30 kw)	2	Each	870.00	1,740.00
vii)	48 V DC Plug in type relay of CCR(4kw to 30 kw)	2	Each	1,000.00	2,000.00
viii)	240 V AC Plug in type relay of CCR(4kw to 30 kw)	2	Each	1,100.00	2,200.00
ix)	TI 300 Trip indication Fuse of CCR (4kw to 30 kw)	2	Each	1,250.00	2,500.00
x)	High Speed Semi - Conductor Protection fuse(GS 1000/200) of CCR(30 kw)	2	Each	2,000.00	4,000.00
xi)	High Speed Semi - Conductor Protection fuse(GS 1000/100) of CCR(7.5 kw)	2	Each	1,600.00	3,200.00

Sl.No.	Description of Items	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
xii)	High Speed Semi - Conductor Protection fuse(GBS 50) of CCR(4 kw)	2	Each	1,350.00	2,700.00
xiii)	Thyristors (250 RK) of CCR(30 kw)	2	Each	15,000.00	30,000.00
xiv)	Thyristors(85 RK) of CCR(7.5 kw)	2	Each	11,000.00	22,000.00
xv)	Thyristors(65 RK) of CCR(4 kw)	2	Each	8,000.00	16,000.00
xvi)	160 Amps HRC Fuse Link of CCR (30 kw)	2	Each	1,600.00	3,200.00
xvii)	63 Amps HRC Fuse Link of CCR (7.5 kw)	2	Each	1,200.00	2,400.00
xviii)	20 Amps HRC Fuse Link of CCR (4 kw)	2	Each	1,000.00	2,000.00
xix)	30 Apm/1 Amp RMS Meters suitable for NASU make CCR (30 kw)	2	Each	4,000.00	8,000.00
xx)	10 Apm/1 Amp RMS Meters suitable for NASU make CCR (7.5 kw)	3	Each	4,000.00	12,000.00
xxi)	2 Pole 8 way Brilliancy switch (Rotary wafer, MBB type suitable for NASU make CCR	2	Each	1,800.00	3,600.00
d)	General Spares for Electrical installations				
i)	250 Watt SON Lamp(threaded elliptical)	20	Each	310.00	6,200.00
ii)	250 Watt Ballast	5	Each	1,700.00	8,500.00
iii)	Ignitor (for 250 watt ballast)	10	Each	270.00	2,700.00
iv)	Electronic Ballast for 1xTL5 28 watt tube light fittings of Philips make (EBFS 128 or equivalent)	10	Each	355.00	3,550.00
v)	Electronic Ballast for 2xTL5 28 watt tube light fittings of Philips make (EB 228 or equivalent)	10	Each	576.00	5,760.00
vi)	TL5 28 watt Tube light	50	Each	95.00	4,750.00
vii)	36 watt Tube light	20	Each	38.00	760.00
viii)	18 watt 4 Pin CFL light(PLL type)	30	Each	93.00	2,790.00
ix)	36 watt 4 Pin CFL light(PLL type)	10	Each	95.00	950.00
x)	11 watt 2 Pin CFL light(PLL type)	30	Each	90.00	2,700.00
xi)	Ballast for 2x36 watt 4 Pin CFL light fitting philips make (PLL type), EBT 236 TLD or equivalent	5	Each	726.00	3,630.00
xii)	Ballast for 1x11 watt 2 Pin CFL light fitting philips make (PLL type), C8 913x/11 or equivalent	10	Each	190.00	1,900.00
xiii)	LED indication lamp(R,Y,B) suitable for panels.	10	Set	58.00	580.00
xiv)	Single phase digital Voltmeter, accuracy class 0.5 suitable for panels.	2	Each	800.00	1,600.00
xv)	Single phase digital Ammeter, accuracy class 0.5 suitable for panels.	2	Each	800.00	1,600.00
xvi)	Single/Three phase Multi function Meter, accuracy class 1 suitable for panels.	1	Each	1,500.00	1,500.00
xvii)	3 pole power contactor, 25 Amp having 2NO+2NC auxiliary contacts with coil voltage 110/240/440 V, 50 Hz.	2	Each	2,000.00	4,000.00
xviii)	Analogue Time switch(24Hrs) with daily programmable(min. 15 minutes) & base mounting type suitable for single phase power supply.	2	Each	1,500.00	3,000.00
xix)	2.5 μ F capacitor suitable for ceiling fan.	30	Each	150.00	4,500.00
xx)	3.15 μ F capacitor suitable for exhaust fan.	10	Each	150.00	1,500.00

Sl.No.	Description of Items	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
xxi)	1.1 KV grade Single core 1.5 Sq mm copper conductor(unsheathed)FRLS, PVC insulated flexible cable confirming to IS 694 with up to date amendments.	180	Mtr	14.45	2,601.00
xxii)	1.1 KV grade Single core 2.5 Sq mm copper conductor(unsheathed)FRLS, PVC insulated flexible cable confirming to IS 694 with up to date amendments.	90	Mtr	23.87	2,148.30
xxiii)	1.1 KV grade Single core 4 Sq mm copper conductor(unsheathed)FRLS, PVC insulated flexible cable confirming to IS 694 with up to date amendments.	90	Mtr	37.20	3,348.00
xxiv)	1.1 KV grade 5 core 4 Sq mm copper conductor(flexible) FR, PVC insulated round sheathed industrial cable confirming to IS 694 with up to date amendments.	200	Mtr	228.00	45,600.00
SH- IV:	EXECUTION OF WORKS AS PER CPWD SCHEDULE OF WORK(E&M) AND SPECIFICATIONS AS AND WHEN REQUIRED.				
17	EXECUTION OF WORKS AS PER CPWD SCHEDULE OF WORK(E&M) AND SPECIFICATIONS AS AND WHEN REQUIRED. Complete items of CPWD schedule of rates (electrical) internal & External- 2018 of an Amount Rs 2,00,000/-. Note:- For quoting of rate of this item, follow the guidelines as mentioned in tender page no.-SCC 13 of 23, para-14.	1	Job	2,00,000.00	2,00,000.00
		Total Rs. (Excluding GST):			55,63,187.30

(Rupees Fifty Five Lakhs Sixty Three Thousand One Hundred Eighty Seven and Thirty paisa only)

*Nore: GST will be paid on production of actual tax invoice as per prevailing rates Govt. of India



Sr. Manager (Engg.-Elect.)
AAI, Bagdogra Airport,
Siliguri-734421