



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

(स्पीड पोस्ट एवं ईमेल द्वारा)

संदर्भ सं. एएआई/दिमापुर/स महा प्र (अभि - वि) /ई एल आर -41 / का सं -28 /2022-23

दिनांक: 28.02.2023

Ref. No. AAI/DIM/AGM(E-E)/ELR-41/WO-29/ 2022-23/ 4849-60

Date: 28.02.2023

सेवा में,

To,

मैसर्स जेनेसिस, 43, जयन्तीपुर,
धूमन गंज, प्रयागराज -211011,
ईमेल - genesis_allahabad@yahoo.com

M/s Genesis,
43, Jayantipur,
Dhoomanganj, Prayagraj-211011

विषय:—दीमापुर हवाई अड्डे पर आई एल एस (लोकलाइजर /ग्लाइड पाथ) का निर्माण एवं लोकलाइजर तथा ग्लाइड पाथ के लिए फ्रजाईल हट की स्थापना सह सिविल एवं विद्युत कार्य।

उपकार्य : आई एल एस के लिए आंतरिक एवं बाहरी विद्युत कार्य

(टेंडर आई डी : 2023_AAI_141858_1)

Subject:- Construction of ILS (LLZ/GP) Antenna platform and provision & installation of frangible hut for GP & LLZ including associated works (Civil + Elect)
SH: External Electrical works for ILS".

(Tender ID : 2023_AAI_141858_1)

संदर्भ: ई टेंडर के कवर - II (वित्तीय बीड) जो दिनांक 13.02.2023 को खोला गया।

Ref.: Your E-tender cover-II (Financial bid) opened on dated 13.02.2023.

महोदय/Dear Sir(S)

1. ऊपर उल्लिखित कार्य हेतु आपकी निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण कि ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गए मद मूल्यों पर आपकी निविदा राशि **रु. 84,48,291.00 (रुपये चौरासी लाख अरतालीस हजार दो सौ एकानवे मात्र) (जीएसटी अतिरिक्त)** है जो कि निविदा अनुमानित राशि रुपये **1,15,99,324.00 (जीएसटी अतिरिक्त)** से **27.16%** कम 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. 84,48,291.00 (Excluding GST) (Rupees- Eighty Four Lakhs Forty Eight Thousand Two Hundred and Ninety One Only)** which is **27.16%** below the estimated cost put to tender of Rs. **1,15,99,324.00 (Excluding GST)**

2. सहायक महाप्रबन्धक (अभियांत्रिकी-विद्युत), भाविप्रा, दीमापुर हवाई अड्डा, नागालैंड -797115 कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि, आप आपकी ओर से एक विश्वसनीय प्रतिनिधि नियुक्त करें, जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 10.03.2023 तक संयुक्त महाप्रबन्धक (अभियांत्रिकी-विद्युत), भाविप्रा, क्षेत्रीय कार्यालय, उत्तरी पूर्वी क्षेत्र, गुवाहाटी के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके के करारनामा 100/- रु के नोन-जुडिशियल स्टैम्प पेपर पर निष्पादित किया जायेगा तथा पेपर का खर्चा आपके द्वारा उठाया जाएगा।



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Asstt. Gen. Manager (Engg-Electrical), AAI, Dimapur Airport, Nagaland-797115 shall be the Engineer-in-Charge of the work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf, to attend the office of the Joint General Manager (Engg-Elect), RHQ NER, Guwahati by **10.03.2023** 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. आपके टेन्डर के साथ प्राप्त धरोहर राशि रु. **2,31,986.00** (रुपये दो लाख एकत्तीस हजार नौ सौ छियासी रुपए मात्र) निविदा की शर्तें 1ए, जीसीसी पृष्ठ 16 पर उल्लेखित शर्त के अनुसार जमानत राशि में परिवर्तित कर दी गई है। कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर जमानत राशि की बकाया रु. **6,12,843.00** (रुपये छ लाख बारह हजार आठ सौ तैंतालीस मात्र) जमा कराना है तथा असफल होने पर निविदा की शर्तें 1ए, जीसीसी पृष्ठ 16 पर उल्लेखित शर्त के अनुसार यह राशि आपके चालू बिल से काट ली जाएगी।

The earnest money amount of **Rs. 2,31,986.00 (Rupees Two Lakhs Thirty One Thousand Nine Hundred Eighty Six only)** received along with your tender will be treated and converted as part of security deposit as per clause 1A on GCC page 16 of tender document. Please deposit **Rs. 6,12,843.00 (Rupees Six Lakhs Twelve Thousand Eight Hundred and Forty Three 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 bills as per clause 1A on GCC page 16 of tender document.

4. निवेदन है कि आप केन्द्रीय और राज्य सरकारों के 1970 के अधिनियम अनुबन्ध श्रम नियम 1971 के केन्द्रीय नियम (नियमन तथा उन्मूलन) एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के अनुपालन करें।

You are requested to comply with the Provisions of Contract labour (Regulation and Abolition) Act of 1970 and Contract labour (Regulation and Abolition) Central Rules 1971 & minimum Wages Act & Rules thereof of Central & State Governments.

5. आपको निर्देश दिया जाता है कि आप तुरंत सहायक प्रबन्धक (अभियांत्रिकी-विद्युत), भाविप्रा, दीमापुर हवाई अड्डा, नागालैंड -797115 से मिले वह आपको साइट सौंपने की व्यवस्था करेंगे।

You are also directed to contact Asstt. Manager (Engg-Electrical), AAI, Dimapur Airport, Nagaland-797115 immediately who will arrange to hand over the site to you.

6. कृपया नोट करें कि काम करने का अनुमत समय छह (06) माह है जो कि इस पत्र के जारी होने के 10 दिनों से गिना जाएगा।

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

7. इस ठेके के संबंध में आगे का कोई भी पत्राचार प्रभारी अभियंता के पते पर किया जाए।
Any further correspondence in connection with the contract should normally be addressed to the **Engineer-In-Charge**.

8. ठेके की त्रुटि दायित्व अवधि (12) बारह माह है जो कि कार्य समाप्ति की तिथि से गिना जाएगा।
The defect liability period is **(12) Twelve Months** after the actual date of completion.

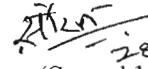


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9. यदि अंग्रेजी एवं हिंदी भाषा में कोई अंतर पाया जाता है तो अंग्रेजी विवरण सही माना जायेगा।
If there is any discrepancy in English and Hindi content, the meaning derived in English will be given precedence.
10. उपरोक्त सम्बंधी संदर्भित सभी पत्र इस ठेके का भाग होंगे।
All the letters referred above shall form part of contract.
11. कृपया पावती भेजे।
Please acknowledge the receipts.

संलग्न : Schedule of Quantities (3 page).

भवदीय / Yours faithfully

 28/01/23

सौरभ कुमार / (Saurabh Kumar)

सहा. महाप्रबन्धक (अभि - विद्युत) / AGM (Engg-Electrical)

भाविप्रा, दीमापुर हवाई अड्डा / AAI, Dimapur Airport, Nagaland.

कृते तथा ओर से, अध्यक्ष, भा.वि.प्रा. / For and on behalf of the Chairman, AAI

Tender Title: Construction of ILS (LLZ/GP) Antenna platform and provision and installation of frangible hut for GP and LLZ including associated works (Civil and Elect) SH- External Electrical works for ILS
Tender ID: 2023_AAI_141858_1

Tender Inviting Authority: AGM(E-E) AAI, Dimapur Airport.

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
1.00	SH-I External Electrical works Supply of 3.5 x 240 sqmm sizes LT power cable of 1.1 KV grade of aluminum conductor XLPE insulated PVC sheathed armoured cable conforming to IS 5554 & 7098/1/1988 with upto date amendment as required.	3800.00	Meter	1140.00	4332000.00
2.00	Supply of 4 x 6 sqmm size PVC / XLPE insulated & PVC sheathed 1.1 KV Grade flexible copper conductor cable conforming to IS 694 specifications with upto date amendment as required.	100.00	Meter	236.00	23600.00
3.00	Supply of XLPE insulated and PVC sheathed, stranded Al. conductor, armoured cable of 1.1 KV grade, conforming to IS : 7098 (part-I) with upto date ammendment etc. as and when required				
3.10	3.5 X 120 Sq.mm	500.00	Meter	650.00	325000.00
3.20	4 X 25 Sq.mm	1500.00	Meter	200.00	300000.00
4.00	Supply of 45 Watts fully weather proof with IP 65/66 protected, Integral type, LED Street Light Luminaire comprising of Pressure Die Cast Aluminum housing with suitable toughned glass and individual LED with secondary optics for operation on variable AC inputs employing highly efficient constant current electronic driver etc complete as required with prior approval of EIC	150.00	Each	2500.00	375000.00
5.00	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 as required.				
5.10	upto 35 sq.mm	950.00	Meter	28.00	26600.00
5.20	Above 95 sq. mm and upto 185 sq. mm	100.00	Meter	90.00	9000.00
6.00	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 pipe as required				
6.10	above 185 sq mm. and upto 240 sq mm	290.00	Mtrs	90.00	26100.00
7.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
7.10	above 185 sq mm. and upto 240 sq mm	2800.00	Mtrs	344.00	963200.00
7.20	Above 95 sq. mm and upto 185 sq. mm	300.00	Mtrs	300.00	90000.00
7.30	upto 35 sq mm	500.00	Mtrs	300.00	150000.00
8.00	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required				
8.10	100mm dia.	100.00	Mtrs	1715.00	171500.00
9.00	Excavation of the cable trenches in hard rock not exceeding 1.5 meter in width, and lift upto 1.5 meter, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 meter.	30.00	CuM	690.00	20700.00
10.00	Supplying and making end termination with brass compression gland and aluminium lugs for following size of XLPE armoured aluminium conductor cable of 1.1 KV grade as required.				
10.10	4 Core, 6 Sq.mm	4.00	Set	5800.00	23200.00
10.20	3.5 Core, 240 Sq. mm	4.00	Set	1800.00	7200.00
11.00	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 required. above 185 sq mm. and upto 240 sq mm	100.00	Meter	90.00	9000.00
12.00	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 240 sq mm (clamped with 25/40x3mm MS flat clamp)	200.00	Meter	111.00	22200.00
13.00	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.	40.00	Each	540.00	21600.00

14.00	Supply , Installation, Testing and Commissioning of 3 Phase digital Power data logger with capability to store at least 3 days data to be provisioned at site in line, energy Monitoring, USB Pen Drive,in Excel Format, and provision to take back up copy of the recorded data for the purpose of accident/incident analysis as per specification.	2.00	Set	22000.00	44000.00
15.00	Supplying and making straight through joint with cast resin compound including ferrules and other jointing materials for 3½ X 240 sq. mm size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	8.00	Set	25000.00	200000.00
16.00	Supplying and making straight through joint with cast resin compound ferrules and other jointing materials for 3.5 X 120 Sq.mm of PVC insulated and PVC sheathed/ XLPE aluminium conductor cable of 1.1 grade as required.	3.00	Set	3801.00	11403.00
17.00	Design, fabrication, supply, installation, testing and commissioning of vermin, dust proof, front operated cubicle type floor mounted, indoor type LT panel board made out of 2 mm thick CRCA sheet duly rust inhibited, stove enameled, powder coated paint, fully compartmentalized complete with double hinged front door with lockable arrangement etc including necessary iron channel stand, control wiring etc. and having following accessories INCOMER 4 Pole, 100 amp, 35KA, 415 volts, 50Hz, AC, Moulded Case Circuit Breaker with extended terminals and adjustable Thermal setting (02 Nos.). 4 pole, 100 A, 415 Volts, 50 Hz AC Automatic transfer Switch with protection and having auto-manual selection switch- 01 No. 100 Amps, TPN aluminium Busbars of suitable for complete panel - 01 Set. OUTGOING 4 Pole, 63 amp, 25KA, 415 volts, 50Hz, AC, Moulded Case Circuit Breaker adjustable Thermal setting (05 Nos.). METERING Digital Voltmeter 0-500V, three phase with selector switch and protection MCB - 02 Set. Digital Ammeter 0-100 A, three phase with suitable CTs, selector switch and protection MCB - 02 No. LED TYPE INDICATION LAMPS (RYB) with protection MCB - 2 set (1 set = 03 Lamp).	2.00	Job	125000.00	250000.00
18.00	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	Sets	5000.00	20000.00
19.00	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.	60.00	Mtr.	256.00	15360.00
20.00	SH-II Surge protection system Supply, Installation, testing and commissioning of 240 kA 3 phase 4 wire Energy Conversion Digital Grounding apparatus with inbuilt 100% Lightning and Surges protection, Noises, ESD, EPR and abnormal electrical characteristics which enter from power and other service lines and ensuring clear bonding potential (earth to Neutral voltage) less than 1.0 V to be connected in parallel to the circuit. The device should be conforming to CE/EN/IS, tested and certified as per IEC-61643-1, IEC-61000-4-5, IEC-61000-6-1, IEC61000-6-3, ISO14001-2004 in Pre wired metal enclosure with pulverulent body painting including all accessories as required.	2.00	Job	128000.00	256000.00
21.00	Providing & creating of CPRI tested earth pits material using ISOGEL earth enhanced compound of 20 kgs, ISO Tube advanced chemical earth tube made with k type copper tube of 2.5" dia, 8fts. long, 1.6 mm thick installed vertically or horizontally as per the site conditions complete with flanges bends top cover heavy duty plastic inspection chamber including excavation and refilling etc as required.	6.00	Job	30730.00	184380.00
22.00	Supply and laying of 25x3 mm copper strip on surface and wall including fixing accessories as required.	30.00	Mtr.	666.00	19980.00
23.00	Providing and fixing 25 mm X 3 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connections as per specification, excavation and re-filling etc. as required.	50.00	Mtr.	425.00	21250.00
24.00	Supply, Installation, Testing and Commissioning of Three Phase Surge Protection Device (SPD) having 100KA 10/350 micro seconds neutral to earth, 25 KA 10/350 micro sec line to neutral, limiting voltage less than 1.5 KV, shall be provided on the mains power entry point at the incomers before UPS & shall be of modular type including 16 sq. mm copper wire of approximate length 12 mtrs for connecting surge protection device in parallel to the busbar of the main electrical panel, 63 Amp 4 pole 3 phase MCB with enclosure with all accessories as required for installing SPD etc complete as required.	2.00	Job	70000.00	140000.00

25.00	Supply, Installation, Testing & Commissioning of 32 Amps Multistage 1 phase Series Power Filter with neutral protection with MOV 40 KA + 25 KA rating in IP55 grade Powder coated metal enclosure with a 63 Amps service bypass changeover switch and copper inter connection cables and end termination etc. as required to be installed at input of the UPS/Voltage stabilizer in series complete as required.	2.00	Job	81509.00	163015.00
26.00	SH-III SITC OF UPS SITC of 2 x 5 KVA UPS in online load sharing configuration, 1phase input , 1 phase output PWM IGBT online double conversion type. The specifications are given below — Input : Auto ranging 1phase 160V to 260V, 50 ± 3Hz. Output : 1 phase 230V + 1%, 50±1 Hz single phase Neutral to ground Voltage Should be less than 3 Volt. Earth resistance : Should be less than 2 Ohm Output Voltage Harmonic Distortion: <2% THD maximum for a 100% linear load. <6% THD maximum for a 100% non-linear load Power conversion Efficiency 95% or better at 50-100% varying load Output Overload Rating : Normal Operation: 125% for 60 sec before transfer to By-pass Bypass operation: 120% continuous 1000% for > 10 milliseconds UPS shall have I/O, O/P, Bypass static switches and shall operate automatically. (a). SITC of UPS Battery : 02 Sets . Minimum VAH : 5000 The UPS battery shall be of Advanced Glass Mat Valve Regulated Sealed Lead Acid Battery Construction (AGM or VRSLAB) in ABS Flame retardant (UL94V-O) grade (UL 2436) spill containment casing to meet UL 62368-1 / IEC 62133 or equivalent standards type with suitable rating battery circuit breakers interconnection between the batteries cabling glanding and termination by copper conductor between battery bank and UPS alongwith battery rack. (b). SITC of Transient voltage surge suppressors of minimum 100kA for high surge suppressions.	2.00	Each	113500.00	227000.00
Total in Figures					848291.00

(Rupees Eighty-Four Lakh Forty-Eight Thousand Two Hundred and Ninety-One Only)

28/10/23
 (Saurabh Kumar)
 Asstt. Gen. Mgr. (Engg-E)
 AAI, Dimapur Airport.