



भारतीय विमानपत्तन प्राधिकरण Airports Authority of India

सं.सं.:भा.वि.प्रा/तिप/अभि-वि/सिपि-02/2022-23/926-930

दिनांक:25.07.2022

Ref No: AAI/TPT/ENGG(E)/CP-02/2022-23/926-930

Date:25.07.2022

सेवा में / TO

मेसेर्स लक्ष्मी एलेक्ट्रिकल एंटरप्राइसेस/
M/s Lakshmi Electrical Enterprises,

सं: 1सी/ No: 1C,

सीएलसी वर्क्स रोड/ CLC Works Road,

न्यू कॉलोनी, क्रोमपेट/ New Colony, Chromepet,

चेन्नई/ Chennai – 600 044.

ई-मेल/E-mail: lakshmielec.chennai@gmail.com

कार्य का नाम: तिरुपति हवाईअड्डे पर कोड ई-प्रकार के विमानयान के लिए रनवे का विस्तार एवं मौजूदा रनवे-08/26 का सुदृढ़ीकरण / रिसर्फेसिंग का कार्य के लिए कार्य आदेश।

उप शीर्ष: तिरुपति हवाईअड्डे पर ग्लाइडपथ एवं लोकलाइज़र हट्स के लिए आन्तरिक विद्युतीकरण कार्यों का प्रावधान

Name of Work: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport.

Sub Head: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.

संदर्भ:आपके मूल्य बिड(ई-टेंडरआई.डी.2022_भाविप्रा_120476_1) सीपीपी पोर्टल द्वारा 20.07.2022 को खुला गया

Ref: Your Price Bid (e-Tender ID: 2022_AAI_120476_1) opened through CPP portal on 20.07.2022.

प्रिय महोदय / Dear Sir(s),

1. उक्त उल्लेखित कार्य के लिए आपके ई-निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आपके द्वारा उद्धृत किया गया दर कुल **₹.6,47,370/-** (रुपये छे लाख सैंतालीस हजार तीन सौ सत्तर मात्र) (जी एस टी को छोड़कर) जो **6.22% नीचे** उचित लागत **₹.6,90,306/-** (जी एस टी को छोड़कर) के नीचे है, पर स्वीकृत की गई।

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 **₹.6,47,370/-** (Rupees Six Lakhs Forty Seven Thousand Three Hundred and Seventy Only) (Excluding GST), which is **6.22% below** the justified cost of **₹.6,90,306/-** (Excluding GST).

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तिरुपतिहवाईअड्डा, रेनिगुंटा-517520, आ,प्र;फोन:0877-2275131; फ़ैक्स:0877-2275353;

Tirupati Airport, Renigunta-517520, A.P; T: 0877 2275131; Fax:0877 2275353;



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2. संयुक्त महा प्रबंधक(अभि-वि), भा वि प्रा, तिरुपति हवाईअड्डा, रेणिगुंटा इस कार्य का अभियंता-प्रभारी रहेंगे। आप संविदा करार में हस्ताक्षर एवं पूरा करने हेतु करने हेतु 03.08.2022 पर या पहले संयुक्त महा प्रबंधक (अभि-वि), भा वि प्रा, तिरुपति हवाईअड्डा, रेणिगुंटा की कार्यालय हाज़िर होने के लिए अनुरोध किए जाते हैं। ठेका करार रु.100/- मूल्य का न्ययिकेतर स्टॉप कागजात में निष्पादित किया जाना है तथा स्टॉप कागजात का मूल्य आपके द्वारा भुगतान किया जाएगा।

The Joint General Manager (Engg-E), AAI, Tirupati Airport, Renigunta shall be the Engineer-in-Charge of the work. You are requested to attend the Office of the Joint General Manager (Engg-E), AAI, Tirupati Airport, Renigunta latest by 03.08.2022 to sign and complete contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value ₹.100/- (Rupees One Hundred only) and the cost of the stamp paper shall be borne by you.

3. कृपया ₹.64,737/- (रुपये चौंसठ हजार सात सौ सैंतीस मात्र) सुरक्षा प्रतिभूति की ओर दस दिनों में जमा करें, जो निविदा दस्तावेज का धारा 1ए का जी सी सी पृष्ठ सं.जी सी सी -17 के अनुसार आपके चालू बिलों से उसी को कटौती की जाएगी।

Please deposit ₹.64,737/- (Rupees Sixty Four Thousand Seven Hundred and Thirty Seven Only) towards Security Deposit within 10 days, failing which the same will be deducted from your running bills as per Clause 1A of GCC Page No. GCC-17 of Tender Document.

4. निविदा दस्तावेज का जी सी सी धारा 19-20 तथा केन्द्रीय तथा राज्य सरकार के नियम में जैसे निर्दिष्ट किया था ठेका श्रम का प्रावधान (विनिमय तथा उत्सादन) अधिनियम 1970, ठेका श्रम (विनिमय तथा उत्सादन) केन्द्रीय नियम 1971, बाल श्रम (निषेध तथा विनिमय) अधिनियम 1986, न्यूनतम मजदूरी अधिनियम, कर्मचारी भविष्य निधि तथा विविध प्रावधान अधिनियम 1952, ई एस आई अधिनियम 1948 को अनुपालन करने हेतु आपसे अनुरोध किए जाते हैं।

You are requested to comply with the provision of Contract Labour (Regulation and Abolition) Act 1970, Contract Labour (Regulation and Abolition) Central Rules 1971, Child Labour (Prohibition & Regulation) Act 1986, Minimum wages Act, Employees Provident Fund & Misc. Provisions Act 1952, ESI Act 1948 as specified in GCC Clause 19-20 of the Tender Document and rules thereof central and State Government.

5. कृपया नोट कीजिए कि कार्य करने के लिए दिया गया समय 45 (पैंतालीस) दिन होगा तथा 03.08.2022 से वहीं गिना जाएगा।

Please note that the time allowed for carrying out the work shall be 45 (FORTY FIVE) Days and same shall be reckoned from 03.08.2022.

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6. सहायक महा प्रबंधक (अभि-वि), भा वि प्रा, तिरुपति हवाईअड्डा, रेणिगुंटा को संपर्क करें कि , तत्काल प्रभाव से कौन आपको साइट सौंपने का व्यवस्था करेगा।

You are also directed to contact Assistant General Manager (Engg-Elect), AAI, Tirupati Airport, Renigunta, immediately who will arrange to hand over the site to you.

7. इस ठेका के संबंधित आगे कोई पत्राचार सामान्यतः संयुक्त महा प्रबंधक (अभि-वि), भा वि प्रा, तिरुपति हवाईअड्डा, रेणिगुंटा-517520 को संबोधित किया जाना है।

Any further correspondence in connection with the contract should normally be addressed to the Joint General Manager (Engg-E), AAI, Tirupati Airport, Renigunta-517520.

8. कृपया पावती भेजें और अधोहस्ताक्षर को स्वीकृती के रूप में संलग्न किया गया इस कार्य आदेश की प्रति लिपि में हस्ताक्षर करने के बाद वापस भेजा जाए।

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

अनुलग्नक/Encl:- मात्रा की अनुसूची/Schedule of Quantities.

संयुक्त महा प्रबंधक (अभि-वि) /Joint General Manager (Engg-E)

भाविप्रा,तिरुपति हवाई अड्डा /AAI, Tirupati Airport

अध्यक्ष कृते एवं की ओर से/For & On Behalf of The Chairman

भारतीय विमानपत्तन प्राधिकरण /Airports Authority of India

(ठेकेदार का हस्ताक्षर सहित मुहर / Signature of the Contractor with seal)

SCHEDULE OF QUANTITIES

NAME OF WORK: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport.

SUB HEAD: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.

SL. No	Description of Work / Item(s)	Qty.	Unit	Rate	Amount
1	Supply of 4 X 16 Sq mm XLPE insulated and PVC Sheathed, armoured, Aluminium conductor power cable of 1.1 KV grade as per IS 7098-1988 (Part 1) with upto date amendments etc complete as required.	100	Meter	300.00	30,000.00
2	Laying of 110 mm HDPE pipe along with all accessories like socket, bend, couplers etc. complete with fitting and cutting, jointing with adhesive etc. direct in ground (75 cm below ground level and 35 mm width for each pipe) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	80	Meter	150.00	12,000.00
3	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade Upto 35 sq. mm size in the existing RCC/ HUME/ METAL/HDPE pipe/duct as required.	80	Meter	20.00	1,600.00
4	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade Upto 35 sq. mm (clamped with 1mm thick saddle) size on surface as required.	20	Meter	30.00	600.00
5	Supplying and making end termination with brass compression gland and aluminium lugs for 4 X 16 sq. mm (28mm) size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.	4	Each	300.00	1,200.00
6	Supply and fixing of pluggable type surge arrester Class B/Class 1 as per IEC 61643(IP 20) with potential free contact and provision for in built common remote indication for defective arresters, 3 nos. of encapsulated spark plug type to connect between Neutral and Earth of following ratings including base element and pluggable arresters. Nominal voltage 230 V, 50 Hz, Impulse current 50 kA (10/350 micro sec.) for line to neutral and 125 kA (10/350 micro sec) for Neutral to protective earth, Response time shall be less than 100 nano sec. in the existing panel including necessary wiring from bus bar and earth bar with copper cable as per manufacturer specification, testing and commissioning as required.	2	Each	65,000.00	1,30,000.00
7	Supply of CPRI certified Electrical insulating mats confirming to IS 15652:2006 with minimum width of 1 meter and thickness of 2.0mm +/- 10% , dielectric strength 30 KV, Class-A, ISI marked, anti skid and fire retardant properties duly fixed with suitable adhesive/ resin materials etc., complete as required.	10	Sq.mtr.	950.00	9,500.00

SCHEDULE OF QUANTITIES

NAME OF WORK: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport.

SUB HEAD: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.

SL. No	Description of Work / Item(s)	Qty.	Unit	Rate	Amount
8	Earthing with G.I Earth plate 600mm x 600mm x 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	4	Set	5,950.00	23,800.00
9	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 re-filling etc. as required.	24	Meter	735.00	17,640.00
10	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level by providing 15 mm dia. G.I Pipe for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	100	Meter	275.00	27,500.00
11	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	40	Meter	39.00	1,560.00
12	Supplying and fixing 6 way (8 + 18) Modules, Double door, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing and fixing of required cable entry /end box for accomodating extra cable/wires etc. as required. (But without MCB/RCCB/Isolator)	2	Each	6,500.00	13,000.00
13	Supplying and fixing 8 way (2 + 6), Double door, single pole and neutral, sheet steel, MCB distribution board, 240 volts, 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)	4	Each	2,100.00	8,400.00
14	Supplying and fixing 63 amps rating, 415 volts, "D" curve, Triple Pole and Neutral miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	2	Each	3,000.00	6,000.00
15	Supplying and fixing 63 A rating, four pole, (three phase and neutral), 415 volts, 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.	2	Each	3,950.00	7,900.00

SCHEDULE OF QUANTITIES

NAME OF WORK: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport.

SUB HEAD: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.

SL. No	Description of Work / Item(s)	Qty.	Unit	Rate	Amount
16	Supplying and fixing 32 Amps rating, 240 Volts, "D" curve, Single Pole and neutral miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	4	Each	875.00	3,500.00
17	Supplying and fixing 20 Amps rating, 240/415 volts, "B" curve, Single pole miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	24	Each	240.00	5,760.00
18	Supplying and fixing 20 Amps rating, 240 Volts, "C" curve, Single pole miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	24	Each	295.00	7,080.00
19	Supplying and fixing 25 Amps rating, 240 Volts, "D" curve, Single pole miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	12	Each	450.00	5,400.00
20	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches on surface as required. 6 Module	20	Each	330.00	6,600.00
21	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches on surface as required. 3 Module	10	Each	260.00	2,600.00
22	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches on surface as required. 2 Module	10	Each	210.00	2,100.00
23	Supplying and fixing 5/6 amps modular switch, ISI marked, on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	20	Each	60.00	1,200.00
24	Supplying and fixing 3 pin 5/6 amp modular socket (with shutter), ISI marked, on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	10	Each	105.00	1,050.00

SCHEDULE OF QUANTITIES

NAME OF WORK: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport.

SUB HEAD: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.

SL. No	Description of Work / Item(s)	Qty.	Unit	Rate	Amount
25	Supplying and fixing 15/16 amps modular switch, ISI marked, on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	20	Each	115.00	2,300.00
26	Supplying and fixing 6 pin 15/16 amps modular socket (with shutter), ISI marked, on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	20	Each	170.00	3,400.00
27	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required	6	Each	2,500.00	15,000.00
28	Supplying and fixing one number 24 hour analogue type time switch, 20A SP C series MCB & 25 A single pole contactor (1NO) in suitable size weather proof thermoplastic enclosure including supply and fixing the weather proof thermoplastic enclosure with IP 65 protection on surface, providing electrical connections etc. as required.	6	Each	7,350.00	44,100.00
29	Providing & fixing of 25 mm X 16 mm size PVC casing and capping of ISI marked on surface with all accessories etc., complete as required .	140	Meter	54.00	7,560.00
30	Providing & fixing of 50 X 50 mm size UPVC cable trunking of ISI marked on surface including necessary couplers, joint cover, angles, tees, etc., complete as required.	80	Meter	240.00	19,200.00
31	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 2 X 1.5 sq. mm	60	Meter	55.00	3,300.00
32	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 3 X 1.5 sq. mm	60	Meter	85.00	5,100.00

SCHEDULE OF QUANTITIES

NAME OF WORK: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport.

SUB HEAD: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.

SL. No	Description of Work / Item(s)	Qty.	Unit	Rate	Amount
33	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 4 X 1.5 sq. mm	60	Meter	100.00	6,000.00
34	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 5 X 1.5 sq. mm	60	Meter	135.00	8,100.00
35	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 6 X 1.5 sq. mm	60	Meter	170.00	10,200.00
36	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 7 X 1.5 sq. mm	60	Meter	200.00	12,000.00
37	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 8 X 1.5 sq. mm	60	Meter	220.00	13,200.00
38	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 9 X 1.5 sq. mm	90	Meter	270.00	24,300.00

SCHEDULE OF QUANTITIES

NAME OF WORK: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport.

SUB HEAD: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.

SL. No	Description of Work / Item(s)	Qty.	Unit	Rate	Amount
39	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 10 X 1.5 sq. mm	40	Meter	300.00	12,000.00
40	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 3 X 4.0 sq. mm	80	Meter	190.00	15,200.00
41	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 6 X 4.0 sq. mm	80	Meter	350.00	28,000.00
42	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit/PVC casing capping/PVC trunking as required. 9 X 4.0 sq. mm	80	Meter	520.00	41,600.00
43	Supply of Surface mounted 10-12 Watt LED Batten fitting with polycarbonate housing suitable to operate on 230V, 50 Hz, AC supply etc, complete as required.	16	Each	380.00	6,080.00
44	Supply of LED Street Light Luminaire with secondary lens optics/ polycarbonate diffuser lens made out of high pressure die cast aluminium/ standard alloy housing (IP 65 or higher) having minimum 2750 lumen output and suitable to operate on 230V, 50Hz, single phase AC supply with electronic driver and having surge protection etc, complete as required.	8	Each	2,050.00	16,400.00
45	Installation, testing and commissioning of surface mounted LED fittings of all types, complete with all accessories directly on ceiling / surface, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. complete as required as per actual site requirements.	16	Each	140.00	2,240.00

SCHEDULE OF QUANTITIES

NAME OF WORK: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport.

SUB HEAD: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.

SL. No	Description of Work / Item(s)	Qty.	Unit	Rate	Amount
46	Installation, testing and commissioning of LED street light luminaires on 32 mm dia. X 1.2 meters long G.I pipe(medium class) brackets including bending the pipe to required shape along with accessories and wiring with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	8	each	1,100.00	8,800.00
47	Installation of modular type exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.	2	each	250.00	500.00
48	Supply of 4Watt Rechargeable LED Linear Emergency Light having 2 feet length, minimum 300 lumen output with Auto ON feature during power failure, Over charge and Deep discharge protection, Charging indicator, minimum backup time of 5 hours on high brightness mode etc suitable to operate on 230V, 50 Hz single phase AC supply, complete as required.	4	each	1,400.00	5,600.00
49	Supply of Rechargeable LED Latern light handheld having minimum output of 3 Watt, with rechargeable Li-ion type battery having capacity of minimum 3.7 V, 2000 mAH, complete as required.	2	each	1,300.00	2,600.00
50	Supply of Twin type Aviation dome obstruction LED Luminaire comprising of aluminium housing with polycarbonate enclosure (Dual dome) with non-flashing type meeting as per ICAO standards suitable for operation on 230 V, 50 Hz, AC supply etc. complete as required.	2	each	4,300.00	8,600.00
Total in Rs.					6,47,370.00

(Rupees Six Lakhs Forty Seven Thousand Three Hundred and Seventy Only)

Note: Applicable GST shall be paid on submission of taxable invoice.



Joint General Manager (Engg-E)
AAI, Tirupati Airport, Renigunta.