

Government eProcurement System Created By: Anil kumar J Created Date/Time: 20-Jul-2022 12:55 PM Tender Title: 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 Tender ID: 2022_AAI_120476_1							
Tender Inviting Authority: The Asst.General Manager(Engg-E), AAI, Tirupati Airport.							
NAME OF WORK: Extension of Runway and Strengthening / Resurfacing of Existing Runway-08/26 for Code E-type of Aircraft at Tirupati Airport. SH: Provision of Internal Electrification Works for Glidepath and Localizer Huts at Tirupati Airport.							
Contract No: AAI/TPT/ENGG(E)/CP-02/2022-23							
SCHEDULE OF WORK / ITEM(S)							
Sl.No	Description of Work / Item(s)	No.of Qty	Units	LAKSHMI ELECTRICAL ENTERPRISES(GSTN-33AACFL6352N1Z4)		KALKI ELECTRICALS(GSTN-29AGGPD2370J1ZE)	
				Rate	Amount	Rate	Amount
1.00	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.	100.00	Meter	300.00	30000.00	340.00	34000.00
2.00	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.	80.00	Meter	150.00	12000.00	175.00	14000.00
3.00	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.	80.00	Meter	20.00	1600.00	26.00	2080.00
4.00	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.	20.00	Meter	30.00	600.00	35.00	700.00
5.00	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.	4.00	Each	300.00	1200.00	450.00	1800.00

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				Rate	Amount	Rate	Amount
6.00	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.	2.00	Each	65000.00	130000.00	69250.00	138500.00
7.00	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.	10.00	Sq.mtr.	950.00	9500.00	1200.00	12000.00
8.00	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.	4.00	Set	5950.00	23800.00	6500.00	26000.00
9.00	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.	24.00	Meter	735.00	17640.00	900.00	21600.00
10.00	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.	100.00	Meter	275.00	27500.00	350.00	35000.00
11.00	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	40.00	Meter	39.00	1560.00	48.00	1920.00

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				Rate	Amount	Rate	Amount
12.00	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)	2.00	Each	6500.00	13000.00	8500.00	17000.00
13.00	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)	4.00	Each	2100.00	8400.00	2650.00	10600.00
14.00	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.	2.00	Each	3000.00	6000.00	4600.00	9200.00
15.00	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.	2.00	Each	3950.00	7900.00	4600.00	9200.00
16.00	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.	4.00	Each	875.00	3500.00	1150.00	4600.00
17.00	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.	24.00	Each	240.00	5760.00	282.00	6768.00

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				Rate	Amount	Rate	Amount
18.00	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.	24.00	Each	295.00	7080.00	365.00	8760.00
19.00	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.	12.00	Each	450.00	5400.00	490.00	5880.00
20.00	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches on surface as required. 6 Module	20.00	Each	330.00	6600.00	450.00	9000.00
21.00	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches on surface as required. 3 Module	10.00	Each	260.00	2600.00	310.00	3100.00
22.00	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches on surface as required. 2 Module	10.00	Each	210.00	2100.00	258.00	2580.00
23.00	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.	20.00	Each	60.00	1200.00	80.00	1600.00
24.00	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.	10.00	Each	105.00	1050.00	140.00	1400.00
25.00	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.	20.00	Each	115.00	2300.00	140.00	2800.00

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				Rate	Amount	Rate	Amount
26.00	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.	20.00	Each	170.00	3400.00	198.00	3960.00
27.00	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	6.00	Each	2500.00	15000.00	3950.00	23700.00
28.00	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.	6.00	Each	7350.00	44100.00	8900.00	53400.00
29.00	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 .	140.00	Meter	54.00	7560.00	80.00	11200.00
30.00	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.	80.00	Meter	240.00	19200.00	295.00	23600.00
31.00	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	60.00	Meter	55.00	3300.00	75.00	4500.00
32.00	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	60.00	Meter	85.00	5100.00	130.00	7800.00

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33.00	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	60.00	Meter	100.00	6000.00	140.00	8400.00
34.00	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	60.00	Meter	135.00	8100.00	175.00	10500.00
35.00	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	60.00	Meter	170.00	10200.00	205.00	12300.00
36.00	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	60.00	Meter	200.00	12000.00	235.00	14100.00
37.00	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	60.00	Meter	220.00	13200.00	270.00	16200.00
38.00	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	90.00	Meter	270.00	24300.00	300.00	27000.00
39.00	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	40.00	Meter	300.00	12000.00	330.00	13200.00

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40.00	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	80.00	Meter	190.00	15200.00	238.00	19040.00
41.00	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	80.00	Meter	350.00	28000.00	450.00	36000.00
42.00	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	80.00	Meter	520.00	41600.00	690.00	55200.00
43.00	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.	16.00	Each	380.00	6080.00	520.00	8320.00
44.00	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.	8.00	Each	2050.00	16400.00	2650.00	21200.00
45.00	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.	16.00	Each	140.00	2240.00	190.00	3040.00
46.00	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.	8.00	each	1100.00	8800.00	1300.00	10400.00

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47.00	Installation of modular type exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.	2.00	each	250.00	500.00	350.00	700.00
48.00	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.	4.00	each	1400.00	5600.00	1650.00	6600.00
49.00	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.	2.00	each	1300.00	2600.00	1500.00	3000.00
50.00	Supply of Twin type Aviation dome obstriuction 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.	2.00	each	4300.00	8600.00	4500.00	9000.00

Total in Figures	647370.00	782448.00
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Lowest Amount Quoted BY: LAKSHMI ELECTRICAL ENTERPRISES(647370.00)