

**Government eProcurement System**  
**Created By: ORATHY PERUMAL ELUMALAI**  
**Created Date/Time: 08-Apr-2021 10:01 AM**  
**Tender Title: Trans-Installation of ILS Internal Electrical Works**  
**Tender ID: 2021\_AAI\_71803\_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 ALONG WITH STRENGTHENING OF EXISTING APRON, EXPANSION AND STRENGTHENING OF EXISTING ISOLATION BAY FOR CODE-E TYPE OF AIRCRAFT, PAVEMENT AGAINST BLAST EROSION & PROVISION OF RESA AT TIRUPATI AIRPORT.**  
**SUB HEAD:- TRANS-INSTALLATION OF ILS INTERNAL ELECTRICAL WORKS.**

**Contract No: AAI/TPT/ENGG(E)/CP-01/2020-21**

**SCHEDULE OF WORK / ITEM(S)**

| Sl.No | Description of Work / Item(s)                                                                                                                                                                                                                                                                             | No.of Qty | Units | Estimated Rate | LAKSHMI ELECTRICAL ENTERPRISES(GSTN-33AACFL6352N1Z4) |          | KALKI ELECTRICALS(GSTN-29AGGPD2370J1ZE) |          |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|----------------|------------------------------------------------------|----------|-----------------------------------------|----------|
|       |                                                                                                                                                                                                                                                                                                           |           |       |                | Rate                                                 | Amount   | Rate                                    | Amount   |
| 1.00  | Supply, Installation, testing and commissioning of minimum 2-Zone Conventional Fire Alarm Control Panel with all indications such as open, short, fire etc., built-in battery charger, including 2nos. of Sealed maintenance free batteries(each 12V, 7AH) as per specification and complete as required. | 2.00      | Each  |                | 11000.00                                             | 22000.00 | 18600.00                                | 37200.00 |
| 2.00  | Supply, Installation, testing and commissioning of Conventional Photo Electric / Optical Smoke detector with mounting relay base as per specification and complete as required.                                                                                                                           | 6.00      | Each  |                | 1800.00                                              | 10800.00 | 2200.00                                 | 13200.00 |
| 3.00  | Supply, Installation, testing and commissioning of Auto dialer unit with keypad having storage capacity of minimum 10 emergency numbers and one voice message and interconnection with Fire alarm control panel as per specification and complete as required.                                            | 2.00      | Each  |                | 11500.00                                             | 23000.00 | 9200.00                                 | 18400.00 |
| 4.00  | Supply, Installation, testing and commissioning of Manual Call point as per specification and complete as required.                                                                                                                                                                                       | 2.00      | Each  |                | 3600.00                                              | 7200.00  | 960.00                                  | 1920.00  |
| 5.00  | Supply, Installation, testing and commissioning of Outdoor Horn-Strobe as per specification and complete as required.                                                                                                                                                                                     | 2.00      | Each  |                | 5800.00                                              | 11600.00 | 900.00                                  | 1800.00  |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|
| 6.00 | Supply and laying of following size solid copper condutor, XLPE insulated, PVC sheathed, armoured FRLS control copper cable of 650/1100V grade as per IS 7098(Part-1) 1988 and laying in surface/ recessed pvc conduit complete as required.<br>A)2Cx1.5Sq.mm                                                                                                                                                                                                                                                                                                                                                                                                                                      | 200.00 | Meter |
| 7.00 | Supply of 2.0TR Inverter type Split Air-Conditioner of BEE 3 Star rating Hi-wall split 2.0 Ton non ductible fan coil unit (Indoor Unit), Copper Condensing unit (Outdoor Unit) with fan and High Energy Efficiency Ratio Rotary compressor, with cord less remote controller and works with R410A/R32/R 134A gas, suitable for operation on 1 Phase, 230 +/- 10%V, 50Hz AC Supply etc. complete as required. The supply of unit shall include the copper pipings, Interconnecting Power cables between the Indoor and Outdoor Unit as per the standard manufacturer design (i.e. Copper pipings of not less than 3 Mtrs) including drain pipe and initial charge of gas etc. complete as required. | 4.00   | Each  |
| 8.00 | Supply of 1.5TR Inverter type Split Air-Conditioner of BEE 5 Star rating Hi-wall split 1.5 Ton non ductible fan coil unit (Indoor Unit), Copper Condensing unit (Outdoor Unit) with fan and High Energy Efficiency Ratio Rotary compressor, with cord less remote controller and works with R410A/R32/R 134A gas, suitable for operation on 1 Phase, 230 +/- 10%V, 50Hz AC supply etc. complete as required. The supply of unit shall include the copper pipings, Interconnecting Power cables between the Indoor and Outdoor Unit as per the standard manufacturer design (i.e. Copper pipings of not less than 3 Mtrs) including drain pipe and initial charge of gas etc. complete as required. | 4.00   | Each  |

|                 |                  |                 |                  |
|-----------------|------------------|-----------------|------------------|
| <b>110.00</b>   | <b>22000.00</b>  | <b>166.00</b>   | <b>33200.00</b>  |
| <b>40000.00</b> | <b>160000.00</b> | <b>48000.00</b> | <b>192000.00</b> |
| <b>36000.00</b> | <b>144000.00</b> | <b>40600.00</b> | <b>162400.00</b> |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |      |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|
| 9.00  | Installation, Testing and commissioning of 2/1.5 TR wall mounted/Hi-wall type Split Air-Conditioner by making required structures of suitable size MS stand/PCC work as per site requirement i/c balancing of Liquid & Gas, Gas charging the system with R410A/R32/R 134A refrigerent if any extra gas required due to increase in length of Copper piping, including covering the Copper piping (i/c Copper pipe came along with the units) with suitable size casing capping/PVC pipe Lifting / Shifting of Outdoor & Indoor units upto site location etc., complete as required. | 8.00  | Job  |
| 10.00 | Supply, Laying and connecting of OEM recommended copper refrigerent Piping (Liquid and Gas) with Nitrile Rubber insulation of thickness not less than 13mm and with all other accessories suitable for 1 phase, 2/1.5TR split AC including covering the Copper piping with suitable size casing capping/PVC pipe etc. complete as required (Length of Liquid and gas line will be measured as single measurement).                                                                                                                                                                  | 12.00 | Mtr  |
| 11.00 | Supply, installation, testing and commissioning of wall mounting type, 5 KVA Capacity, single phase, automatic line voltage stabilizer, suitable operation on 170 volts to 270 volts AC input, 200 volts to 240 volts AC output, single phase, 50Hz AC power supply with built in time delay, high voltage cut off, and low voltage cut off at 145 volts and input/output/trip indications and suitable for application of 1.5 TR/2.0 TR Air conditioning unit etc. as required (As per list of approved makes).                                                                    | 8.00  | Each |

|         |          |         |          |
|---------|----------|---------|----------|
| 1600.00 | 12800.00 | 2800.00 | 22400.00 |
| 650.00  | 7800.00  | 712.00  | 8544.00  |
| 1600.00 | 12800.00 | 1200.00 | 9600.00  |

Total in Figures

434000.00

500664.00

Lowest Amount Quoted BY: LAKSHMI ELECTRICAL ENTERPRISES(434000.00)