

भारतीय विमानपत्तन प्राधिकरण  
(मिनी रत्न - श्रेणी-1सार्वजनिक क्षेत्र का उद्यम)  
**Airports Authority of India**  
(A Miniratna- Category-I Public Sector Enterprise)

Ref: AAI/BZ/ENGG (E)/JGM/GLIDE PATH/WO-02/2020-21/

Dated: 02/06/2020

To

**M/s. Manish Electricals,  
Kalpana Nagar,  
Near 7 No. Chouraha,  
Morar, Gwalior - 474 006**

**Name of Work : Extension and Strengthening of Existing Runway 08-26, Construction of Isolation Bay, RESA & Associated Works at Vijayawada Airport.  
SH: Electrical works for new Glide path room**

**Ref** : Your Price Bid (Tender ID No.2020\_AAI\_44842\_1) opened through cpp portal On 15/05/2020.

Dear Sir,

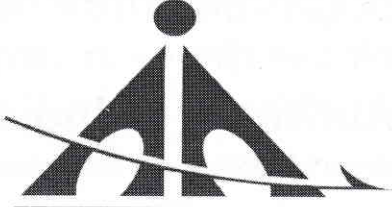
1. Your tender for the above mentioned work is hereby accepted on behalf of the Chairman, AAI at the item rates quoted by you, for an amount of **Rs.7,61,260/-** (Rupees Seven Lakhs Sixty One Thousand Two Hundred and Sixty Only) **Excluding GST** which is **2.30%** (Two decimal Three zero percent) **above** the Estimated/Justified Cost of **Rs.7,36,939/-**.

2. The Joint General Manager [Engg.-E], Airports Authority of India, Vijayawada Airport, Vijayawada-521 102 is 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 the office of the Joint General Manager [Engg.-E] AAI, Vijayawada Airport by **12/06/2020** to sign and complete the agreement. The contract agreement shall be executed on a Non-Judicial stamp paper of value Rs. 100/- and the cost of the stamp paper shall be borne by you.

3. The Earnest Money Deposit amount of Rs. **14,750/-** (Rupees Fourteen Thousand Seven hundred and Fifty only) received along with your e-tender has been converted as part of Security Deposit as per the General Condition of Contract. Please deposit Rs. **61,376/-** (Rupees Sixty One Thousand Three Hundred and Seventy Six Only) towards Security Deposit, within 15 days from the date of issue of this letter, failing which the same will be deducted from your bill as per Clause No.1A of GCC.

4. You are requested to comply with the provisions of Contract Labour (Regulation & Abolition) Act of 1970 and Contract Labour (Regulation & Abolition) Central Rules, 1971, Minimum Wages Act 1948, Employees Provident Fund & Misc. Provisions Act 1952, ESI Act 1948 and Rules thereof Central/ State Governments.

(Contd....2/-



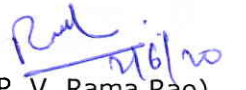
भारतीय विमानपत्तन प्राधिकरण  
(मिनी रत्न - श्रेणी-1सार्वजनिक क्षेत्र का उद्यम)  
**Airports Authority of India**  
(A Miniratna- Category-I Public Sector Enterprise)

# 2 #

5. You are also directed to contact the Asst. General Manager [Engg-E], AAI, Vijayawada Airport immediately who will arrange to handover the site to you.
6. Please note that the time allowed for completion of the work is **45 (Forty Five) Days** i.e. with effect from **17/06/2020** to **31/07/2020**.
7. Any further correspondence in connection with the contract should normally be addressed to The Jt. G.M.Engg (E), AAI, Vijayawada Airport, Vijayawada - 521 102.
8. Airports Authority of India, Vijayawada Airport (A.P) **GST No: 37AAACA6412D1Z7** shall be quoted in all invoices.
9. Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of your acceptance.

Thanking you,

Yours faithfully,

  
(P. V. Rama Rao)  
Jt. General Manager [Engg.-E]  
For and on behalf of Chairman, AAI,  
Vijayawada Airport

**Encl:** (Schedule of Quantities (BoQ)) Pages 4



**AIRPORTS AUTHORITY OF INDIA**  
**VIJAYAWADA AIRPORT, VIJAYAWADA - 521 102**  
**SCHEDULE OF WORK**

**Name of Work: Extension and Strengthening of Existing Runway 08-26, Construction of Isolation Bay, RESA & Associated Works at Vijayawada Airport.**

**SH: Electrical works for new Glide path room**

| S.No | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit  | Qty.  | Rate      | Amount             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-----------|--------------------|
| 1    | Primary Surge Protection: Supply, Installation, testing and commissioning of 100 kA, 3 phase Surge Divertor with neutral protection, 4 Mode Protection using single block metal oxide varistor in pre-wired IP55 grade metal enclosure with voltage protection level < 1.5 KV shall be provided on the mains power entry point in compliance with IEC 61643 Standards complete with sensing circuit, potential free contacts, necessary indications and alarm for Essential / non essential Panel. To be connected in parallel at the essential and non essential panel as per site requirement. (Model:TERCEL/IS100SD or its equivalent) | Nos.  | 1.00  | 90,000.00 | <b>90,000.00</b>   |
| 2    | SECONDARY PROTECTION: Supply and fixing of Multi Stage Series Power Filter (MSSPF) 32 Amps 1 Phase, 2 wire with neutral protection and built in MOV based surge diverter of 40kA at Input and 25kA rating at load side prewired in IP55 grade Powder coated metal enclosure with 32Amps MCB, service change over switch, complete with sensing circuit, potential free contacts and necessary indicators and alarms connected in series with 2x 5 KVA UPS input complete as per site requirement. (Model:TERCEL ISO PULSE IP32H1 or its equivalent)                                                                                       | Nos.  | 2.00  | 60,000.00 | <b>1,20,000.00</b> |
| 3    | EQUIPMENT LEVEL PROTECTION:- Supply and fixing of 120KA Surge protection device against the protection from 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 1.0V to be connected in parallel to the circuit, Confirming to CE, tested and certified as per latest certification IEC-61643-1 in Pre-wired metal enclosure with pulverulent body painting including all accessories as per site requirement.( Model No: Ground make LM-13-20 or its equivalent)                                           | Nos.  | 1.00  | 90,000.00 | <b>90,000.00</b>   |
| 4    | Supply and fixing of Earth Bonding water proof junction Box as per site requirement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Nos.  | 2.00  | 25,000.00 | <b>50,000.00</b>   |
| 5    | Supply of 1.1KV grade Copper cable of size 1 Core X 35 Sq.mm., XLPE Insulated, Unarmoured, PVC sheathed confirming to IS 7098( Part-I) 1988 with upto date amendments etc., complete as per site requirement.                                                                                                                                                                                                                                                                                                                                                                                                                             | Mtrs. | 50.00 | 700.00    | <b>35,000.00</b>   |
| 6    | Supply of 1.1KV grade Copper cable of size 1 Core X 16 Sq.mm., XLPE Insulated, Unarmoured, PVC sheathed confirming to IS 7098( Part-I) 1988 with upto date amendments etc., complete as per site requirement.                                                                                                                                                                                                                                                                                                                                                                                                                             | Mtrs. | 50.00 | 400.00    | <b>20,000.00</b>   |
| 7    | Supply of 1.1KV grade Copper control cable of size 2C x 10 Sq.mm XLPE Insulated, Armoured confirming to IS 7098( Part-I) 1988 with upto date amendments etc., complete as required                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mtrs. | 70.00 | 180.00    | <b>12,600.00</b>   |
| 8    | Supply of 1.1KV grade Copper control cable of size 4C x 16 Sq.mm XLPE Insulated, Armoured confirming to IS 7098( Part-I) 1988 with upto date amendments etc., complete as required                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mtrs. | 30.00 | 300.00    | <b>9,000.00</b>    |
| 9    | Supplying and fixing of 25 mm size of medium class PVC conduit along with accessories such as bends ,clamps in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.                                                                                                                                                                                                                                                                                                                                                                                                                | Mtrs. | 50.00 | 125.00    | <b>6,250.00</b>    |

| S.No | Description of item                                                                                                                                                                                                                                                                                                                                             | Unit  | Qty.  | Rate      | Amount           |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-----------|------------------|
| 10   | Supplying and fixing of 32 mm size of medium class PVC conduit along with accessories such as bends ,clamps in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.                                                                                                                                      | Mtrs. | 30.00 | 148.00    | <b>4,440.00</b>  |
| 11   | Supplying and making end termination with Single Compression brass gland for 2C X 10 Sq.mm. Size PVC/XLPE insulated and PVC sheathed armoured Copper conductor cable of 1.1kv grade as required.                                                                                                                                                                | Nos.  | 12.00 | 500.00    | <b>6,000.00</b>  |
| 12   | Providing and fixing 63A, 4P MCB Changeover Switch Conforming to IS/IEC 60947-3 in existing panel board including drilling holes in panel, making connections, etc. as required                                                                                                                                                                                 | Each  | 2.00  | 2,800.00  | <b>5,600.00</b>  |
| 13   | Supplying and fixing of Junction Box of Size 260 x 210 x 116 (Model No.HENSEL:K8350 or Equivalent) i/c. providing and fixing 1 No. 3 Phase Selector Switch [Model L&T: 71000 SGB03TDYR or equivalent) and 1 No. 40 Amps DP, 240/ 415 volts, 10 kA, "C" curve, MCB i/c. interconnections/wiring, testing and commissioning etc. as per Site requirement.         | Each  | 2.00  | 32,000.00 | <b>64,000.00</b> |
| 14   | Supplying and fixing SPN, 20 Amps rating, 240/ 415 volts, 10 kA, "C" curve,miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.                                                                                                               | Each  | 6.00  | 520.00    | <b>3,120.00</b>  |
| 15   | Supplying and fixing Single Pole, (6-32) Amps rating, 240/ 415 volts, 10 kA, "B" curve,miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.                                                                                                   | Each  | 12.00 | 200.00    | <b>2,400.00</b>  |
| 16   | Supply and fixing 63 Amps, Four Pole, 240/415 volts, "C" curve, Miniature Circuit Breaker suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.                                                                                                                                             | Each  | 2.00  | 1,200.00  | 2,400.00         |
| 17   | Supplying and fixing 16 way, Polycarbonate Cover/Glazed Cover, 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 per Site requirement.(C&S Model: CSDBSPNSDCA16 or equivalent) | Each  | 1.00  | 2,500.00  | 2,500.00         |
| 18   | Supplying and fixing 6 way,Three pole and neutral, sheet steel IP 43 Vertical double door 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 etc. as per site requirement. (C&S Model: CSDBTPNPVEDD06 or equivalent)          | Each  | 1.00  | 4,500.00  | 4,500.00         |
| 19   | Supply, Installation, Testing and Commissioning of 1 loop 4 Zone conventional for 30 devices Fire Alarm Control Panel with battery charger, 2 Nos. of Sealed maintenance free batteries(each 12V, 7AH) along with Auto-dialer unit complete as required.                                                                                                        | Each  | 1.00  | 90,000.00 | 90,000.00        |
| 20   | Supplying, installation, testing & commissioning of Optical smoke detector with builtin LED and mounting base complete with all connections etc. as required.                                                                                                                                                                                                   | Each  | 4.00  | 4,000.00  | 16,000.00        |

| S.No | Description of item                                                                                                                                                                                                                                                                                                                                                                                                       | Unit  | Qty.  | Rate      | Amount    |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-----------|-----------|
| 21   | Supply and Laying of following size solid copper conductor, XLPE insulated, PVC sheathed/XLPE armoured control copper cable of 650/1100V grade as per IS 7098(Part-1) 1988 and laying in surface/ recessed steel conduit complete as required.<br>(a) 2C x 1.5 Sq.mm                                                                                                                                                      | Mtrs. | 40.00 | 180.00    | 7,200.00  |
| 22   | SITC of heavy duty Exhaust fan of 300mm sweep , 900 RPM, with minimum power consumption , minimum noise including all accessories and suitable to operate on single phase, 230V , 50 Hz A.C Supply, etc complete as required.                                                                                                                                                                                             | Each  | 1.00  | 3,000.00  | 3,000.00  |
| 23   | Supply of Industrial Pedestal fan of 450mm sweep with minimum power consumption , minimum noise and Confirming to IS 1169 including all accessories and suitable to operate on single phase, 230V , 50 Hz A.C Supply, etc complete as required.                                                                                                                                                                           | Each  | 2.00  | 9,000.00  | 18,000.00 |
| 24   | Seupply of Hot and Cold Water Dispenser with minimum storage capacity 2 Litre, Floor mounted with function hot, cold and normal taps etc.,as required (Model No:VOLTAS WD MINIMAGIC PURE R-6210204 or its Equivalent)                                                                                                                                                                                                     | Each  | 1.00  | 12,000.00 | 12,000.00 |
| 25   | Supply of 20 W LED batten type T5 tubelight for surface,Al. housing with frosted PMMA/PC diffuser, High transmissivity Elegant and sleek designed LED Batten etc complate as required. (Similar to BAJAJ make LEDBCLAB20W or equivalent).                                                                                                                                                                                 | Each  | 6.00  | 2,400.00  | 14,400.00 |
| 26   | Supply of 30W LED Street Light Fitting suitable for operate on 240V, 50Hz, AC Supply housed in pressure Die Cast/Extruded Aluminium Alloy, Toughened glass with IP65/66 protection suitable for fixing on pole etc. complete as required. The Fitting shall have separate compartment for LEDs & electronic driver, operating voltage 140-270 V with Surge Protection of 4KV. (similiar to BAJAJ model No. BCLST 30W LED) | Each  | 5.00  | 4,000.00  | 20,000.00 |
| 27   | Installation, testing and commissioning of pre-wired,LED street fitting with 1.5 mtr length , 25mm GI pipe Class B with suitable bend of all types,complete with all accessories etc. directly on wall, including clamps,connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc.as required.                                                                                | Each  | 5.00  | 350.00    | 1,750.00  |
| 28   | Supply 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.                                                                              | Each  | 3.00  | 1,200.00  | 3,600.00  |
| 29   | Providing and fixing 4P, 100A, 25 KA rating and breaking capacity MCCB with thermo magnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.                                                                                                                                                                               | Each  | 2.00  | 6,000.00  | 12,000.00 |
| 30   | Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.                                                                                                                                                                                                                                                                                                                    | Mtrs. | 15.00 | 400.00    | 6,000.00  |
| 31   | Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)                                                                                                                          | Mtrs. | 20.00 | 450.00    | 9,000.00  |

| S.No | Description of item                                                                                                                                                                                                     | Unit  | Qty.  | Rate              | Amount             |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------------------|--------------------|
| 32   | 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.                            | Mtrs. | 10.00 | 650.00            | 6,500.00           |
| 33   | Earthing with GI earth pipe 4.5 meter long ,40 mm dia including accessories and providing masonary enclosure with cover plate having locking arrangemnt and watering pipe etc. with charcoal/coke and salt as required. | Nos.  | 2.00  | 7,000.00          | 14,000.00          |
|      |                                                                                                                                                                                                                         |       |       | <b>Tortal Rs.</b> | <b>7,61,260.00</b> |

(P.V.Rama Rao)

Joint General Manager [Engg-E]  
AAI, Vijayawada Airport