

**Name of work:** "Provision of Apron Flood Lighting System in the Existing Apron at Vijayawada Airport. (Phase-II)."

**Tender ID:** 2023\_AAI\_148228\_1

**Bid Openers:**

1. B Devaraju, Senior Manger(E-E)
2. K Sirish Kumar, AGM [IT]

**Bid Scrutiny Committee Members:**

1. B Charan Singh, Manager (E-E)
2. B Devaraju, Senior Manger(E-E)
3. P V Rama Rao, JGM (E-E)

**AIRPORTS AUTHORITY OF INDIA**  
**VIJAYAWADA INTERNATIONAL AIRPORT**  
**JUSTIFIED COST STATEMENT**

Name of work: Provision of Apron Flood Lighting System in the Existing Apron at Vijayawada Airport. (Phase-II)

| Item No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Qty | Unit | Rate (Rs.) | Amount (Rs.) | Remark |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------------|--------------|--------|
| 1        | <p>Supply, Installation, Testing and Commissioning of 20 Meter. Height, Hot Dip Galvanised High Mast Tower in two equal section of 4mm bottom and 3mm top thick with minimum bottom dia. of 460mm suitable for wind speed of minimum 180KM/Hr, with raising lowering system comprising of head frame, luminaries' carriage suitable to install 24 Nos. of LED Luminaries in symmetrical arrangement, double drum winch, 6mm diameter SS wire rope, trailing cable of 5C X 2.5Sq.mm, connector, integral power tool motor of rating not less than 1.5HP, manual handle, junction box, lightening finial of GI Single Spike of suitable length mounting clamps and bolts, foundation bolts manufactured from special steel along with nuts, washers, anchor plate and template including providing and laying power cables (up to a distance of 15 Mtr) between panel and mast of capacity 2 times of total current rating of fittings providing and fixing with suitable rated MCB in base compartment, providing foundation with M30 grade concrete as per size of OEM Design with all materials and labour, providing necessary tools and plants for erection and testing of high mast pole and painted with two coat of aluminium paint etc., as required.</p> <p>(Note: The testing of soil bearing capacity has to be done at least two high mast locations from recognized university / institute before start of foundation work.)</p> | 6   | Job  | 432450.00  | 2594700.00   | MR     |
| 2        | <p>Fabrication, S.I.T.C of Outdoor MV Feeder Pillar Panel with double door arrangement made out of 3mm thick outer sheet and 2mm thick inner sheet and partition CRCA sheet steel, dust tight, vermin proof, totally enclosed, cubicle type WITH TOP CANOPY FOR RAIN PROTECTION, floor mounting, free standing, suitable for operation at 433 V, 3 phase, 4 wire, 50 Hz, A.C. Power Supply System complete with all accessories, interconnection, connection, earthing, painting, grouting, providing pedestal UPTO THE HEIGHT OF 450 MM, Cable Entry provision etc. as required and comprising of following:</p> <p>40A FP MCCB as Incomer, 3 Nos. 16 A TPN MCB as Outgoing, One Timer, 25 A TP Contactors for the automatic switching of Luminaries with Auto/Manual Switching Option, power tool control with 2 Nos. 16A Contactors for raise and lower with push button arrangements, Phase Indication LED Lamps for Incomer, One VAF meter with bus section of 60A in all three phase and neutral etc., as required.</p>                                                                                                                                                                                                                                                                                                                                                                                                                | 7   | Job  | 35477.00   | 248339.00    | MR     |



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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|----------|------------|----|
| 3 | Supply of LED Flood light fitting with Wattage of maximum 400W with high power LEDs, system efficacy not less than 110 lumen/watt, suitable optics for uniform light distribution, integral control driver with minimum 4kV surge suppressor, fitting made up of high pressure die-cast aluminum housing with suitable thermal management arrangement, toughened glass with IP 65 protection, 50000 burning hours, suitable to operate on single phase AC supply, in line with technical specifications etc., complete as required.                                                                                                                                                                                                                                                                                            | 100  | Each | 25351.00 | 2535100.00 | MR |
| 4 | Supply of LED Flood light fitting with Wattage of maximum 350W with high power LEDs, system efficacy not less than 110 lumen/watt, suitable optics for uniform light distribution, integral control driver with minimum 4kV surge suppressor, fitting made up of high pressure die-cast aluminum housing with suitable thermal management arrangement, toughened glass with IP 65 protection, 50000 burning hours, suitable to operate on single phase AC supply, in line with technical specifications etc., complete as required.                                                                                                                                                                                                                                                                                            | 80   | Each | 22369.00 | 1789520.00 | MR |
| 5 | Supply of LED Flood light fitting with Wattage of 45W to 60W with high power LEDs, system efficacy not less than 110 lumen/watt, suitable optics for uniform light distribution, integral control driver with minimum 4kV surge suppressor, fitting made up of high pressure die-cast aluminium housing with suitable thermal management arrangement, toughened glass with IP 65 protection, 50000 burning hours, suitable to operate on single phase AC supply, in line with technical specifications etc., complete as required.<br>Make: Philips, Model: BVP120 LED 47 NB FG A1 PSU GR                                                                                                                                                                                                                                      | 100  | Each | 4921.00  | 492100.00  | MR |
| 6 | Supply of LED Type twin dome red aviation obstruction light fitting suitable for operation on single phase AC power supply etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20   | Each | 4175.00  | 83500.00   | MR |
| 7 | Installation, testing and commissioning of LED flood lights / twin dome aviation luminaire up to maximum 450W, suitable for apron flood lighting system and having wide distribution with provision of suitable length 3core x 2.5Sq.mm copper conductor cable and supporting clamps / strips for light connection with all accessories suitable for site requirement etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                        | 168  | Each | 517.00   | 86856.00   | MR |
| 8 | Supply of 3.5C x 35 Sq.mm, XLPE insulated and PVC sheathed armored aluminum conductor power cable of 1.1 KV grade conforming to IS 7098 (Part-1) with up to date amendments etc., complete as required.<br>(Note: If the manufacturer does not have NABL accredited Laboratory samples from site shall be collected jointly by AAI and the agency and it will be sent to NABL accredited Laboratories / Govt Laboratories / IIT / IISc / IISER / College /University for acceptance Testing as per IS. The contractor will do all Liaoning, Transportation etc. and pay the testing charges. Nothing extra will be paid by AAI. if it is found that the cable supplied is not as per the requirement of IS, the supply will be rejected or recovery shall be made from the bill or any due pending with AAI from any airports) | 5000 | Mtr  | 249.00   | 1245000.00 | MR |

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| 9  | Supply of 4C x 10 Sq.mm, XLPE insulated and PVC sheathed, armoured, copper conductor, multi strand power cable of 1.1 KV grade conforming to IS 7098 (Part-1) with up to date amendments etc., complete as required.<br>(Note: If the manufacturer does not have NABL accredited Laboratory samples from site shall be collected jointly by AAI and the agency and it will be sent to NABL accredited Laboratories / Govt Laboratories / IIT / IISc / IISER / College /University for acceptance Testing as per IS. The contractor will do all Liaoning, Transportation etc. and pay the testing charges. Nothing extra will be paid by AAI. if it is found that the cable supplied is not as per the requirement of IS, the supply will be rejected or recovery shall be made from the bill or any due pending with AAI from any airports) | 100  | Mtr | 605.00  | 60500.00   | MR |
| 10 | Supplying and making end termination with brass double compression gland and aluminum lugs for 3.5C X 35 Sq.mm (32mm) of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16   | Set | 1008.00 | 16128.00   | MR |
| 11 | Supplying and making end termination with brass double compression gland and heavy duty copper lugs for 4C X 10 Sq.mm (25mm) of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 16   | Set | 689.00  | 11024.00   | MR |
| 12 | Making horizontal boring of dia. not less than 90mm by using suitable mechanical arrangement, Sensor operated, Minimum 2.5Mtr Depth, horizontal bore well suitable for inserting of 90mm dia., HDPE Pipes. Job including supplying and laying of 90mm dia. PE-100 Grade, PN-8, HDPE Pipe in borewell hole including jointing, molding cutting, bending, etc. of pipes in boring hole as per site condition complete is required                                                                                                                                                                                                                                                                                                                                                                                                             | 840  | Mtr | 1522.00 | 1278480.00 | MR |
| 13 | Making horizontal boring of dia. not less than 250mm by using suitable mechanical arrangement, Sensor operated, Minimum 2.5Mtr Depth, horizontal bore well suitable for inserting of 250mm dia., HDPE Pipes. Job including supplying and laying of 250mm dia. PE-100 Grade, PN-8, HDPE Pipe in borewell hole including jointing, molding cutting, bending, etc. of pipes in boring hole as per site condition complete is required..                                                                                                                                                                                                                                                                                                                                                                                                        | 130  | Mtr | 5915.00 | 768950.00  | MR |
| 14 | Supplying and laying of 90 mm dia. HDPE, PE63 PN-6 pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 4984, Part II complete with fitting and cutting, jointing etc. in the existing trench, complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 260  | Mtr | 348.00  | 90480.00   | MR |
| 15 | 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 / DWC / HDPE pipe as required.<br>Up to 35 sq.mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4000 | Mtr | 31.00   | 124000.00  | MR |
| 16 | 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.<br>Up to 35 sq.mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 35   | Mtr | 24.00   | 840.00     | MR |



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| 17 | Earthing with G.I. earth pipe 4.5 Meter 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14   | Each | 6622.00  | 92708.00   | MR |
| 18 | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 168  | Mtr  | 735.00   | 123480.00  | MR |
| 19 | Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 84   | Mtr  | 216.00   | 18144.00   | MR |
| 20 | Providing, laying and fixing of 50mm dia. G.I. pipe (medium class) on PCC surface complete with suitable winkle free bending of pipe for cable entry, coupler etc., complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 42   | Mtr  | 865.00   | 36330.00   | MR |
| 21 | Provision of MS barricading around the high mast and control panel, steel work welded in built up sections / framed work, including cutting, hoisting, fixing in position with grouting in PQC Concrete and applying a priming coat of approved steel primer using structural steel and painted with aviation abstraction colour of white and red strip etc. as required. Type and size of frame decided by Engineering-In-Charge as per site condition.                                                                                                                                                                                                                                                                                                                                                                                   | 4200 | Kg   | 132.00   | 554400.00  | MR |
| 22 | Excavation for cable trenches in soft soil, depth up to 1.2 m and (Size 1.5m x 1.5m) including dressing of sides getting out the excavated soil, refilling with sand and or good soil after laying of cable / pipe etc., in layers of 20 cm, ramming, watering and disposal of surplus excavated soil as per direction of E-I-C as required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 375  | Cum  | 545.00   | 204375.00  | MR |
| 23 | Supplying and laying of 280 MM Dia. HDPE, PE100 PN-10, Pipe ISI marked along with all accessories like socket, couplers, heat shrink jointing etc. conforming to IS 4984, Part II complete with fitting, cutting, jointing etc. in the existing trench, complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 250  | Mtr  | 4578.00  | 1144500.00 | MR |
| 24 | Constructing brick masonry manhole in cement mortar 1:4 (1cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :<br>Inside size 120x120 cm and 120 cm deep including RCC cover plate with MS Angle frame etc., with common burnt clay F.P.S. (non-modular) bricks of class designation 7.5 | 8    | Each | 24915.00 | 199320.00  | MR |
| 25 | Dismantling of existing LED Luminaires from existing high mast of height not more than 20 Meter handing over to AAI stores etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 64   | Each | 119.00   | 7616.00    | MR |

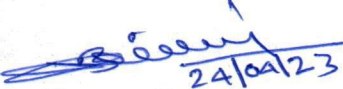
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| 26 | Dismantling of existing High Mast up to 30 Meter including control panels and dismantling of cable terminals from control panel at apron area, loading, unloading, shifting and handing over to AAI warehouse and demolishing of projected RCC existing foundation and leveling the same with PCC and disposal of material as per direction of Engineer - in - charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4  | Job | 6128.00   | 24512.00  | MR |
| 27 | Demolishing cement concrete of existing apron (i.e. PQC/PCC/RCC) by manually / mechanically for constructing the high mast foundation at various locations including stacking of useful material and disposal of unserviceable material as per direction of Engineer-in-charge from the site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30 | Cum | 1429.00   | 42870.00  | MR |
| 28 | <p>Re-Erection, Installation, Testing, commissioning of 12 Meter CONSOUL Make high masts systems with all accessories except LED Fittings including two coat of aluminum paint etc., with following activity complete as required.</p> <p>A. Construction of RCC foundation with M-30 Grade concrete for the high mast based on OEM Design at site with all materials and labour as required.</p> <p>B. Supply of foundation bolts manufactured from special steel along with nuts, washers, anchor plates and templates etc. purchased from OEM.</p> <p>C. Supply and laying of 5CX2.5 Sq.mm Trailing cable of ERP insulated, copper conductor, Elastomeric sheathed including providing necessary connectors at both end etc.</p> <p>D. Servicing of existing Integral motor-powered winch for lowering and raising operation of lantern carriage at inside the base compartment along with mechanical tripping facility and manual handle etc.</p> <p>E. Erection of the 12Meter high mast with the help of suitable equipment and with all materials and labour etc. as required.</p> <p>F. Shifting and erection of existing high mast control panel with pedestal, base channel complete with all respects.</p> <p>ALL AS ABOVE 28 (A) To 28 (F)</p> | 1  | Job | 103490.00 | 103490.00 | MR |
| 29 | <p>Dismantling, Re-Erection, Installation, Testing, commissioning of 30 Meter Bajaj Make high masts systems with all accessories except LED Fittings including two coat of aluminum paint etc., with following activity complete as required.</p> <p>A. Dismantling, shifting and installation on existing foundation at site with all material, accessories, and labour as required.</p> <p>B. Supply and laying of 5CX2.5 Sq.mm Trailing cable of ERP insulated, copper conductor, Elastomeric sheathed including providing necessary connectors at both end etc.</p> <p>C. Servicing of existing Integral motor-powered winch for lowering and raising operation of lantern carriage at inside the base compartment along with mechanical tripping facility and manual handle etc.</p> <p>D. Erection of the 30Meter High Mast with the help of suitable equipment and with all materials and labour etc. as required.</p> <p>E. Shifting and erection of existing high mast control panel with pedestal, base channel complete with all respects.</p> <p>ALL AS ABOVE 29 (A) To 29 (E)</p> <p>Note: Foundation constructed at site by AAI</p>                                                                                                          | 1  | Job | 38081.00  | 38081.00  | MR |

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| 30 | Hiring of temporary sheet steel barricading system with 2.5Meter height around the high mast construction area / any other area specified, the area covered 5-meter x 6-meter (Approx.). The MS angle / squares pipe to be welded in built up sections / framed work, including cutting, hoisting, fixing in position in PQC Concrete and fixing the steel sheets on structural steel frame and painted with suitable aviation abstraction color etc. complete as required. At the time of commissioning of high masts system, the same barricading system buy back / return back by agency. The actual requirement of barricading system is decided by Engineering-In-Charge as per site condition.                                    | 7   | Job | 15329.00 | 107303.00 | MR |
| 31 | Excavation for earthwork in all kinds of soils, with hydraulic excavator and other suitable machinery of required capacity including transporting of material, loading and unloading with all lifts and leads with in airport plot area which includes existing operational area, trimming bottom and side slopes in accordance with requirement of lines, grades and cross section and construction of embankment to the required alignments grades and cross sections, in layers not exceeding 20cm in depth, breaking clods, watering , rolling each layer with power roller of 8-10 ton capacity, compacted to meet the requirement as per technical specifications and drawings complete as per the direction of Engineer-incharge | 147 | Cum | 161.00   | 23667.00  | MR |
| 32 | Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.<br>I)With material conforming to Grade-III (size range 26.5 mm to 0.075 mm ) having CBR Value-20                                                                                                                                                                        | 26  | Cum | 2334.00  | 60684.00  | MR |
| 33 | Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing                                                                                           | 25  | Cum | 3730.00  | 93250.00  | MR |



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| 34            | <p>Providing and laying Pavement Quality Concrete (PQC) produced in a batching plant having a Characteristic flexural strength i.e. minimum flexural strength of 4.1 MPa at 28 days using 365 Kg of ordinary Portland cement of 43 grade, fine aggregate, graded stone aggregates of 40 mm nominal size in appropriate proportion as per specification and job mix formula, laid in panels as per drawings/design as approved by the Engineer-In-Charge using Slip form paver/Manual method(Note: Areas inaccessible to paving equipment shall be constructed by manual method. Areas in which manual methods of construction become indispensable shall be got approved by the Engineer-in-Charge in writing in advance) including making necessary provision for expansion joint, curing, etc. complete as per direction of Engineer-in-Charge and particular specifications. The item for execution shall also include the following operations:</p> <p>i) Mechanically cutting dummy joints 3mm wide x 1/3rd thickness of slab which is subsequently widened to 10mm for the top 25mm depth and construction joints 10mm wide x 25mm deep as per specification.</p> <p>ii) Filling Polysulphide sealant in dummy, construction and expansion joints including providing closed-cell Polyethylene foam back-up rod, and painting side of joints with Polysulphide primer, etc. complete as required.</p> | 84 | Cum | 5212.00 | 437808.00      | MR |
| Total (A) Rs. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |     |         | 1,47,38,055.00 |    |

(Rupees One Crores Forty-Seven Lacs Thirty-Eight Thousand and Fifty-Five Only)

  
**Manager (Engg-E)**  
AAI, Vijayawada Airport

  
**Senior Manager (E-E)**  
AAI, Vijayawada Airport

  
**Joint General Manager (Engg-E)**  
AAI, Vijayawada Airport