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| Government eProcurement System<br>Created By: ORATHY PERUMAL ELUMALAI<br>Created Date/Time: 15-Oct-2020 04:15 PM<br>Tender Title: Provision of Apron Flood Lighting and Allied Works for Extended Apron at Tirupati Airport<br>Tender ID: 2020_AAI_57247_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.<br>Sub Head: Provision of Apron Flood Lighting and Allied Works for Extended Apron at Tirupati Airport. |                               |           |       |
| Contract No: AAI/TPT/ENGG(E)/CP-04/2020-21                                                                                                                                                                                                                                                                                                                                                                                             |                               |           |       |
| SCHEDULE OF WORK / ITEM(S)                                                                                                                                                                                                                                                                                                                                                                                                             |                               |           |       |
| Sl.No                                                                                                                                                                                                                                                                                                                                                                                                                                  | Description of Work / Item(s) | No.of Qty | Units |

|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |     | jaydeep agency corporation(GSTN-24ACIPP6157B1ZQ) |           | Shantha ELectricals and Engineers Pvt Ltd(GSTN-29AARCS2866G1ZP) |           | elektron(GSTN-09A AFFE6230P1Z2) |            | Techno Electricals(GSTN-24AAGFT9086M1ZG) |           | POWER ELECTRICAL WORKS(GSTN-33AADPT3125C1Z8) |            | vk sam engineering(GSTN-33AMZPS4037L1ZA) |           | C R ELECTRICALS(GSTN-NA) |            |
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| 1.00 | Design, Fabrication, Supply, Erection, Testing and Commissioning of 30 meters height High Mast shaft in Three sections, hot dip galvanised and made of S 355 grade as per BS-EN 10025, suitable for wind speed of 180KM/Hour as per IS 875 part 3, including raising lowering system comprising head frame, Galvanised lantern carriage suitable to install 10Nos. 500W LED luminaries & its controlgear boxes (or equivalent such as counter weightd as per design) in Assymmetrical arrangement, Double drum winch, SS Wire rope 6mm dia (7/19 construction), Trailing Copper Cable of 5Cx4 Sq.mm from junction box of lantern carriage to control panel in HDPE pipe, 3C X 4 Sq.mm FRLS Copper flexible cable in HDPE pipe for Power tool from control panel, connectors, 415 V, 32 A, 3P+N+E Plug & Sockets, integral power tool motor, manual handle, terminations, junction box, lightening finial further including the following jobs and confirming to Technical specifications of Tender document.<br>(a) Integral motor powered winch for lowering and raising operation of lantern carriage installed inside the base compartment along with mechanical tripping facility and manual handle.<br>(b) Supply of foundation bolts manufactured from special steel along with nuts, washers, anchor plate and common template.<br>(c) Construction of suitable shallow foundation with 1:2:4 concrete for the high mast (for safe soil bearing capacity at site as 10 T/sq.mtr at 2 metre depth) with all materials and labour as required.<br>(d) Erection of the high mast including all accessories with the help of suitable tools and plants.<br>(e) Barricading of High mast with MS Channel (size 100X6mm) of 3 Mtr(l) X 3 Mtr(b) X 1 Mtr (h). The Channel shall be painted with one coat of primer and two coats of polyurethane paint (alternating red and white strips) after erection at site.<br>(f) Installation, testing and commissioning of LED Flood light luminaries as per design /site requirements and 01 No. Twin Type aviation obstruction light on the existing lantern carriage including wiring of all luminaires with all wiring materials like PVC insulated PVC sheathed flexible cable of suitable copper conductor cores of 2.5 sq. mm in GI flexible conduit from Junction box of Lantern Carriage to individual light fittings, lugs, mounting accessories, counter weights if required and all labour etc. complete as required. | 2.00 | Job | 485000.00                                        | 970000.00 | 395000.00                                                       | 790000.00 | 584250.00                       | 1168500.00 | 393560.00                                | 787120.00 | 525000.00                                    | 1050000.00 | 475000.00                                | 950000.00 | 507129.00                | 1014258.00 |

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| 2.00 | Supply of LED Flood Light Luminaire of system wattage of 500W with high power LEDs having minimum luminous flux of 60000 lm ± 8% (Narrow/Medium beam for meeting LUX levels as per ICAO requirement) with secondary optics and designed with Powder coated Pressure Die Cast aluminium housing, frame, integral driver with Surge protection, heat resistant toughened glass, Conforming to IP 65 protection suitable to operate on 140 to 270V, 50Hz, AC supply including control gear and all accessories, meeting technical specification of Tender Document suitable for Apron Flood lighting purpose, complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 22.00 | Each | 21000.00  | 462000.00 | 23000.00  | 506000.00 | 20910.00 | 460020.00 | 30250.00  | 665500.00 | 29000.00  | 638000.00 | 23600.00  | 519200.00 | 25609.00  | 563398.00 |
| 3.00 | Supply of Twin type aviation dome obstruction LED light comprising of aluminium housing with polycarbonate enclosure as per ICAO standards duitable for operation on 240V, 50Hz AC Single phase Power Supply etc. complete as required (Model no. BGAV 302 LED of Bajaj make or Equivalent).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.00  | Each | 3000.00   | 6000.00   | 4200.00   | 8400.00   | 8610.00  | 17220.00  | 4250.00   | 8500.00   | 3300.00   | 6600.00   | 4450.00   | 8900.00   | 3915.00   | 7830.00   |
| 4.00 | Design, fabrication, Supply, Installation, Testing and Commissioning of Outdoor feeder Pillar panel with double door arrangement, cubicle type made out of 2.0mm thick CRCA sheet steel for outer sheet covering and 1.6mm CRCA sheet steel for inner sheet indoor and portition, totally enclosed IP-54 (or) higher, Free standing ,floor mounted, weather proof/dust proof and vermin proof, out door type, double door compartmentalized sloped roof canopy. complete with busbar, cable alleys and cable entry from bottom of panel, DMC/SMC busbar supports,neoprene gaskets, terminal blocks connections, interconnection, earthing and with powder coated painting suitable for operation on 3 Phase and neutral, 415 volts, 50 Hz A.C system including providing & fixing of the following switchgears and provision of suitable brick foundation with concrete etc as required and as per specifications .<br>(i) INCOMER :-<br>(a) 160 Amps, Four Pole MCCB, Breaking Capacity 36KA at 415 Volts, Thermal Magnetic Release with O/C & S/C protection, lcs= lcw =100% ICU with rotary handle alongwith Digital Meter of Model EM-6459 or equivalent and suitable rating CTs- 02 Sets.<br>(b) Mechanical Interlock-2 nos with one key ( Between main & stand by incomer)-1set<br>(c ) LED Phase Indication lamps and ON, OFF & TRIP indication lamps with control MCBs & 1.5 Sq.mm FRLS Copper control wiring for both the incomers.<br>(ii) OUTGOING:-<br>(a) 63Amps,Four pole, MCCB Breaking capacity 25KA at 415 Volts,Thermal Magnetic Release with O/C & S/C protection, lcs= lcw =100% ICU - with rotary handle -04 Nos.<br>(b) 200 Amps TPN Aluminium bus bars -- 01 set.<br>(c ) LED ON, OFF & TRIP indication lamps with control MCBs & 1.5 Sq.mm FRLS Copper control wiring for all the outgoing MCCBs.<br>(d) Four Pole Power terminal studs/Busbar arrangements with bolts & nuts to receive One Incoming Power cable and One No. Outgoing Power cable upto 95 sq.mm - 04 Sets.<br>(e) Control Panel Components for automatic switching of High mast lighting<br>i) 32A, FP,10KA, MCB - 01 No.<br>ii) Single dial time switch with 45A TP contactor with auxiliary contacts for the automatic switching of Highmast flood lighting - 01 Set<br>iii) Power tool control with 12 A, 2Nos. TP contactors with auxiliary contacts and Raise lower push buttons mechanism for raising lowering system of Highmast.<br>iv) 6 A, 10 KA, C series SP MCBs - 03 Nos.<br>v) 16 A, 10 KA, C series TP MCB - 02 No.<br>vi) Including internal Power wiring with not less than 6Sq.mm FRLS Copper wire.<br>vii) Switch 01 No. for Remote /Manual operation. | 1.00  | Job  | 200000.00 | 200000.00 | 245000.00 | 245000.00 | 86100.00 | 86100.00  | 150240.00 | 150240.00 | 325000.00 | 325000.00 | 152300.00 | 152300.00 | 161000.00 | 161000.00 |

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| 5.00 | Design, fabrication, Supply, Installation, Testing and Commissioning of Outdoor Sub feeder Pillar panel with double door arrangement, cubicle type made out of 2.0mm thick CRCA sheet steel for outer sheet covering and 1.6mm CRCA sheet steel for inner sheet indoor and portition, totally enclosed IP-54 (or) higher, Free standing ,floor mounted, weather proof/dust proof and vermin proof, out door type, double door compartmentalized sloped roof canpoy. complete with busbar, cable alleys and cable entry from bottom of panel, DMC/SMC busbar supports,neoprene gaskets, terminal blocks connections, interconnection, earthing and with powder coated painting suitable for operation on 3 Phase and neutral, 415 volts, 50 Hz A.C system including providing & fixing of the following switchgears and provision of suitable brick foundation with concrete etc as required and as per specifications .<br>(i) INCOMER: -<br>(a) 63Amps,Four pole, MCCB Breaking capacity 25KA at 415 Volts,Thermal Magnetic Release with O/C & S/C protection, lcs= lcw =100% ICU - with rotary handle -01 No.<br>(b) LED Phase indications and ON, OFF & TRIP indication lamps with control MCBs & 1.5 Sq.mm FRLS Copper control wiring the incomer.<br>(ii) OUTGOING:-<br>(a) Control Panel Components for automatic switching of High mast lighting<br>i) 32A, FP,10KA, MCB - 01 No.<br>ii) Single dial time switch with 45A TP contactor with auxiliary contacts for the automatic switching of Highmast flood lighting - 01 Set<br>iii) Power tool control with 12 A, 2Nos. TP contactors with auxiliary contacts and Raise lower push buttons mechanism for raising lowering system of Highmast.<br>iv) 6 A, 10 KA, C series SP MCBs - 03 Nos.<br>v) 16 A, 10 KA, C series TP MCB - 02 No.<br>vi) Including internal Power wiring with not less than 6Sq.mm FRLS Copper wire.<br>vii) Switch 01 No. for Remote /Manual operation.<br>(b) Necessary Internal wiring, termination of RC cable meant for switching on the Highmast from Tower & earthing strip as per specifications I/C providing & fixing of suitable Rail Mounted Terminal Connectors.<br>(c) Heavy duty Power Terminal 4 way 32 A rating for connection of Power Cables- 03Nos.<br>(d) Suitable Connector for multi core Copper control cable. | 1.00    | job | 100000.00 | 100000.00 | 52000.00 | 52000.00  | 43050.00 | 43050.00  | 37250.00 | 37250.00  | 102000.00 | 102000.00 | 30500.00 | 30500.00  | 69000.00 | 69000.00  |
| 6.10 | Supply of heavy duty XLPE insulated PVC sheathed aluminium conductor armoured power cable of 1.1KV grade confirming to IS 7098, Part-I 1988 with up to date amendments of following size and confirm to technical specifications enclosed.<br>(a) 3.5 core X 70 Sq.mm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1250.00 | Mtr | 372.00    | 465000.00 | 295.00   | 368750.00 | 320.00   | 400000.00 | 243.00   | 303750.00 | 270.00    | 337500.00 | 305.00   | 381250.00 | 240.00   | 300000.00 |
| 6.20 | Supply of heavy duty XLPE insulated PVC sheathed aluminium conductor armoured power cable of 1.1KV grade confirming to IS 7098, Part-I 1988 with up to date amendments of following size and confirm to technical specifications enclosed.<br>(b) 3.5 core X 35 Sq.mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 250.00  | Mtr | 216.00    | 54000.00  | 210.00   | 52500.00  | 184.00   | 46000.00  | 249.00   | 62250.00  | 153.00    | 38250.00  | 175.00   | 43750.00  | 133.00   | 33250.00  |
| 7.00 | Supply of following copper conductor control cable of 1.1 KV grade, XLPE insulated PVC sheathed armoured cable confirming to IS7098, Part-I, 1988 with up to date amendments complete as required.<br>(a) 12 Core X 1.5 Sq.mm (Control Cable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 160.00  | Mtr | 220.00    | 35200.00  | 325.00   | 52000.00  | 234.00   | 37440.00  | 285.00   | 45600.00  | 210.00    | 33600.00  | 210.00   | 33600.00  | 176.00   | 28160.00  |

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| 8.10  | 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/HDPE pipe as required.<br>(a ) upto 35 sq.mm                                     | 390.00 | Mtr | 15.00  | 5850.00  | 55.00  | 21450.00 | 15.00  | 5850.00  | 40.00  | 15600.00 | 30.00  | 11700.00 | 30.00  | 11700.00 | 46.00  | 17940.00 |
| 8.20  | 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/HDPE pipe as required.<br>(b) Above 35sq. mm and upto 95 sq. mm.                 | 200.00 | Mtr | 20.00  | 4000.00  | 70.00  | 14000.00 | 25.00  | 5000.00  | 40.00  | 8000.00  | 35.00  | 7000.00  | 40.00  | 8000.00  | 70.00  | 14000.00 |
| 9.10  | 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/cable trench as required.<br>(a ) upto 35 sq.mm                                 | 50.00  | Mtr | 15.00  | 750.00   | 50.00  | 2500.00  | 15.00  | 750.00   | 40.00  | 2000.00  | 35.00  | 1750.00  | 25.00  | 1250.00  | 35.00  | 1750.00  |
| 9.20  | 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/cable trench as required.<br>(b) Above 35sq. mm and upto 95 sq. mm              | 50.00  | Mtr | 20.00  | 1000.00  | 70.00  | 3500.00  | 25.00  | 1250.00  | 40.00  | 2000.00  | 40.00  | 2000.00  | 35.00  | 1750.00  | 56.00  | 2800.00  |
| 10.00 | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.<br>a) Above 35sq. mm and upto 95 sq. mm (Clamped with 25x3mm MS Flat clamp) | 850.00 | Mtr | 15.00  | 12750.00 | 90.00  | 76500.00 | 60.00  | 51000.00 | 40.00  | 34000.00 | 40.00  | 34000.00 | 45.00  | 38250.00 | 110.00 | 93500.00 |
| 11.10 | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.<br>(a ) Upto 35 sq. mm (clamped with 1mm thick saddle)                    | 10.00  | Mtr | 20.00  | 200.00   | 70.00  | 700.00   | 37.00  | 370.00   | 50.00  | 500.00   | 40.00  | 400.00   | 35.00  | 350.00   | 59.00  | 590.00   |
| 11.20 | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.<br>(b) 3.5 core X 35 Sq.mm (32mm)                                         | 20.00  | Mtr | 15.00  | 300.00   | 90.00  | 1800.00  | 74.00  | 1480.00  | 50.00  | 1000.00  | 50.00  | 1000.00  | 45.00  | 900.00   | 155.00 | 3100.00  |
| 12.10 | Supplying and Making End Termination with brass compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required.<br>(a) 3.5 Core X 70 sq.mm (38mm)       | 4.00   | Set | 225.00 | 900.00   | 650.00 | 2600.00  | 492.00 | 1968.00  | 250.00 | 1000.00  | 450.00 | 1800.00  | 320.00 | 1280.00  | 575.00 | 2300.00  |
| 12.20 | Supplying and Making end termination with brass compression gland and copper lugs for following PVC insulated and PVC sheathed 1.1KV grade control cables as required.<br>(a) 12 Core X 1.5 Sq.mm (Control Cable)          | 4.00   | Set | 150.00 | 600.00   | 550.00 | 2200.00  | 369.00 | 1476.00  | 200.00 | 800.00   | 350.00 | 1400.00  | 230.00 | 920.00   | 460.00 | 1840.00  |
| 13.00 | Supplying and Making End Termination with brass compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required.<br>(a) 3.5 Core X 35 sq.mm (32mm)       | 4.00   | Set | 150.00 | 600.00   | 400.00 | 1600.00  | 369.00 | 1476.00  | 200.00 | 800.00   | 450.00 | 1800.00  | 165.00 | 660.00   | 460.00 | 1840.00  |

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| 14.00 | Supply & Laying of 50mm dia HDPE pipe (PE 63, 4KGF) including Groove cutting on PCC/bitumin asphalt of suitable width and depth up to 100mm including refilling the groove with C.C/Redrox or suitable material, making good finish etc. complete as required.    | 50.00  | Mtr | 110.00 | 5500.00  | 170.00  | 8500.00  | 197.00  | 9850.00  | 285.00  | 14250.00 | 250.00  | 12500.00 | 515.00  | 25750.00 | 316.00  | 15800.00 |
| 15.00 | Providing, laying and fixing following dia G.I. pipe (medium class) for Nallah crossing / Road Crossing i/c cutting Cement concrete/Bitumen Road and refilling with 1:2:4 cement concrete complete with G.I. fittings etc. complete as required.<br>a) 100 mm dia | 36.00  | Mtr | 800.00 | 28800.00 | 450.00  | 16200.00 | 984.00  | 35424.00 | 1100.00 | 39600.00 | 1500.00 | 54000.00 | 1575.00 | 56700.00 | 1035.00 | 37260.00 |
| 16.00 | Excavation of the Plain cement concrete of suitable dimensions including getting out the excavated concrete and soil disposal of the same as directed by E.I.C within a lead of 50 metres.                                                                        | 16.00  | Cum | 250.00 | 4000.00  | 1800.00 | 28800.00 | 1230.00 | 19680.00 | 850.00  | 13600.00 | 1000.00 | 16000.00 | 950.00  | 15200.00 | 1932.00 | 30912.00 |
| 17.00 | Providing, laying and fixing following dia HDPE pipe, in ground complete with necessary pipe couplings including trenching (75 cm deep and 35mm width for each pipe) and re-filling etc. as required.<br>a) 63mm dia,PE-63,4Kgf                                   | 100.00 | Mtr | 110.00 | 11000.00 | 220.00  | 22000.00 | 246.00  | 24600.00 | 193.00  | 19300.00 | 250.00  | 25000.00 | 320.00  | 32000.00 | 316.00  | 31600.00 |

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| 18.00 | Dismantling, Shifting, erection, testing and commissioning of Apron flood light mast system consisting of multiple sections , total height of 12.69 Mtrs fabricated from MS plates conformingn to IS 226-1975/BS-EN 10-0258 in telescopic sections with base plate welded to the bottom sections and holdings galvanised totally , on externally and internally etc., and stress fitted as size suitable for installation of departmentally supplied flood lighting luminaries with the following accessories etc as per the additional specification as required.<br>a) Erection of Lantern Carriage fabricated and galvanised to hold the flood light luminaires of different on one side and to accommodate the control gear boxes and to have self balance.<br>b) In built power tool systems for raising and lowering operation of lantern carriage with suitable three phase motor mounted in the base compartment.<br>c) Supply of Flexible round sheath multicore control cables of appropriate rating from the feeder pillar at the bottom to the junction box to lantern carrier including wiring of individual fittings.<br>d) Supply of foundation bolts manufacutered from special steel along with nuts, washers, suitable size anchor plate and template.<br>e) Design, Construction of suitable shallow foundation with 1:2:4 concrete for the high mast (for safe soil bearing capacity at site as 17 T/sq.mtr at 2 metre depth) with all materials and labour as required.<br>f) Heavy guage hot dip galvanised lightning finial and necessary connections.<br>g)Erection of the12.69 meter high mast with the help of suitable equipments and installation of required luminaires with all wiring materials including Dismantling, re-installation, testing and commissioning of AAI supplied Control panel and labour as required.<br>h) Repair & Replacement : Repairing the unit as per complain, replacing damaged parts. Testing etc and bringing to normal working condition. | 1.00  | Job | 35000.00 | 35000.00 | 52000.00 | 52000.00 | 61500.00 | 61500.00 | 105250.00 | 105250.00 | 80000.00 | 80000.00 | 215000.00 | 215000.00 | 95910.00 | 95910.00 |
| 19.00 | Earthing with G.I. earth pipe 4.5 metre 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6.00  | Set | 4500.00  | 27000.00 | 5200.00  | 31200.00 | 4920.00  | 29520.00 | 5000.00   | 30000.00  | 6000.00  | 36000.00 | 6500.00   | 39000.00  | 6708.00  | 40248.00 |
| 20.00 | Providing and fixing of 25mm x 5mm GI strip on surface/recess for connections etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20.00 | Mtr | 135.00   | 2700.00  | 270.00   | 5400.00  | 104.00   | 2080.00  | 200.00    | 4000.00   | 190.00   | 3800.00  | 185.00    | 3700.00   | 192.00   | 3840.00  |
| 21.00 | Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe earth electrode including connection with G.I. nut, bolt,spring, washer excavation and re-filling etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 36.00 | Mtr | 435.00   | 15660.00 | 310.00   | 11160.00 | 123.00   | 4428.00  | 500.00    | 18000.00  | 572.00   | 20592.00 | 485.00    | 17460.00  | 192.00   | 6912.00  |

Total in Figures

2448810.00

2376760.00

2516032.00

2369910.00

2841692.00

2589370.00

2579038.00

Lowest Amount Quoted BY: Techno Electricals(2369910.00)