

Government eProcurement System Created By: PALLIPPATTU RAVI HARI Created Date/Time: 27-Apr-2022 04:47 PM Tender Title: Provision of Apron Flood Lighting at VSI Airport , Port Blair Tender ID: 2022_AAI_110891_1
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Tender Inviting Authority: Asst.Gen.manager (E-E), VSI Airport, Port Blair

Name of Work: Construction of New Apron with Link Taxiways at Port Blair Airport – Provision of Apron Flood Lighting

Contract No: 2022_AAI_110891_1

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	jaydeep agency corporation(GSTN-24ACIPP6157B1ZQ)		BR Power Control and Automation Services(GSTN-07AADCK6091P1ZX)		K B CONTRACT (P) LTD(GSTN-07AADCK6091P1ZX)	
					Rate	Amount	Rate	Amount	Rate	Amount
1.00	SITC of 30 Mtr High mast systems in three sections suitable for 250 KMPH complete with all accessories as per specifications. Mast shaft shall be in three sections, hot dip galvanized and suitable for 250 KMPH wind speed. It shall also include accessories comprising latching type head frame, galvanized luminaries carriage suitable to install maximum 15 nos. of LED luminaries asymmetrically with suitable counter weights, double drum winch, 8mm dia stainless steel wire rope, 5C X 2.5 sq.mm. ERP trailing copper cable with connectors, integral electrically operated power tool install inside the base compartment with raising and lowering mechanism for lantern carriage, manual handle, junction box, lightning finial, necessary MCB enclosures with suitable capacity TPN MCB etc. providing M 20 grade RCC foundation with suitable design as per site conditions, testing the soil bearing capacity of soil, foundation bolts of suitable size as per approved design and manufactured from special steel along with nuts, washers, suitable size anchor plates etc.	4.00	Each		1084000.00	4336000.00	667459.00	2669836.00	756000.00	3024000.00
2.00	Supply, installation, testing & commissioning of 350 W ±5% energy efficient Flood Light LED luminaire with minimum system lumen output of 35000 lm, PF>0.95, CRI>70, CCT - 5700K ± 500K, IP 66 protected, die-cast aluminium housing with heat resistant diffuser and MS powder coated bracket suitable to operate on 240 V, 50 Hz AC complete as required suitable for Apron High Mast.	26.00	Each		12000.00	312000.00	21088.00	548288.00	12600.00	327600.00
3.00	Supply, installation, testing & commissioning of 18 watt low intensity twin type aviation obstruction lamp conforming to ICAO standards suitable to for 230 VAC +/- 15% with super bright red LED approximate 300 nos per lamp , as required suitable for Apron High Mast. Ip rating shall be IP 65 as per IS 12947 of model GLN 704 in Crompton or similar in other approved makes.	5.00	Each		5000.00	25000.00	6663.00	33315.00	9000.00	45000.00

4.00	Supplying, installation, testing and commissioning of floor mounting, totally enclosed, compartmentalized, cubical, dust, vermin proof outdoor type feeder pillar suitable for 415V, 3-Phase, 4-Wire, 50 Hz., AC supply system fabricated in cubical type compartmentalized CRCA sheet steel of 2 mm thick for frame work and 3 mm thick for gland plate i/c. cleaning and finishing complete with powder coating in approved shade, bottom base channel of MS section not less than 50 mmx50mmx5 mm thick, fabrication shall be done in transportable sections, entire panel shall have a common GI earth bar of size 25 mmx5mm at the rear with 2 nos. earth stud, solid connections from main bus bar to switch gears with required size of Alu. busbars and control wiring with 2.5 sq.mm. FRLS PVC insulated copper conductor, cable alleys, cable gland plates in two half with the following i/c & out goings a) 2 no. 150A FP 16KA MCCB having thermal magnetic release with rotary handle as incoming with metering, CTs & R, Y & B indication lamps along with mechanical interlock in between incomers. b) 6nos. 63 A FP MCCB, 16KA having thermal magnetic release with rotary handle as outgoing with On/Off indication using LED lamps etc. as required. c) 6nos. 10A DP MCB, as outgoing with On/Off indication using LED lamps etc. as required.	1.00	Each
5.00	Design, Fabrication, Supply, Installation, Testing and Commissioning of double door floor mounted LT power supply top sloped outdoor panel of size(1200mm x 1000mm x 200mm(deep)) made out of 14 SWG CRCA sheet steel totally enclosed, weather, dust, vermin proof, IP-54 protection, complete with accessories, Selector switch for Auto/Manual Operations, Push Button for Raise & Lower, terminal blocks for termination of cables with top/bottom entry as per site conditions, locking arrangement, painting. etc. including the following minimum accessories as per technical specifications and drawing as approved by engineer-in- charge . Incomer: 63 Amps, 4 Pole MCCB, 35 kA breaking capacity, Thermal Magnetic Release Type, Ics = 100%Icu with LED indication for each phase - 1 No (RED, YELLOW, BLUE) - 1 No Outgoing: 20 Amps, 2 Pole MCB with 6 kA breaking capacity (C-Curve)- 2 Nos 25 Amps 3 Pole power Contactor - 1 No 24 HR Setting Timer to operate above contactor on Auto mode. Illuminated Push Button (Raise & Lower)- 2 Nos 6 Amps, single Pole MCB with 6 kA breaking capacity (C-Curve)- 1 No 9 Amps 3 Pole power Contactor - 2 Nos 10 Amps 3 Pole Rocker type Motor protection Circuit breaker - 1 No	4.00	Each
6.00	Supply of 4 X 16 sq.mm PVC insulated and XLPE Sheathed armoured Aluminium conductor cable of 1.1KV grade conforming to IS:7098 with up to date amendments etc. as required.	459.00	Mtr.

200000.00	200000.00	180405.00	180405.00	270000.00	270000.00
40000.00	160000.00	36681.00	146724.00	144000.00	576000.00
250.00	114750.00	176.00	80784.00	180.00	82620.00

7.00	Supply of 3.5 X 120 sq.mm PVC insulated and XLPE Sheathed armoured Aluminium conductor cable of 1.1KV grade conforming to IS:7098 with up to date amendments etc. as required.	440.00	Mtr.
8.00	Earthing with G.I. earth plate 600 mm x600 mm x 6mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7metre long with charcoal or coke and salt as required.	10.00	Set
9.00	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)	110.00	Mtr
10.00	Supply & Laying of following dia high density polyethylene pip as per relevant IS of PE-63 , 8 kg/cm2 of following size in ground complete with necessary fittings such as couplers, bends and end caps including excavation up to 80 cm depth and refilling etc as required. 50 mm Dia (outer size)	300.00	Mtr
11.00	Supply & Laying of following dia high density polyethylene pip as per relevant IS of PE-63 , 8 kg/cm2 of following size in ground complete with necessary fittings such as couplers, bends and end caps including excavation up to 80 cm depth and refilling etc as required. 110 mm Dia (outer size)	50.00	Mtr
12.00	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 pipe as required. Upto 120 sq. mm	459.00	Mtr.
13.00	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. Upto 120 sq. mm	55.00	Mtr.
14.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on existing cable tray as required. a) Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	220.00	Mtr.
15.00	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. Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	55.00	Mtr.
16.00	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 4 X 16 sq. mm (28mm)	18.00	Set

1000.00	440000.00	742.00	326480.00	720.00	316800.00
12000.00	120000.00	15663.00	156630.00	6300.00	63000.00
200.00	22000.00	1576.00	173360.00	135.00	14850.00
150.00	45000.00	349.00	104700.00	306.00	91800.00
250.00	12500.00	556.00	27800.00	810.00	40500.00
50.00	22950.00	101.00	46359.00	45.00	20655.00
50.00	2750.00	95.00	5225.00	45.00	2475.00
50.00	11000.00	120.00	26400.00	72.00	15840.00
50.00	2750.00	139.00	7645.00	126.00	6930.00
200.00	3600.00	472.00	8496.00	720.00	12960.00

17.00	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 3½ X 120 sq. mm (45mm)	4.00	Set
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500.00	2000.00	1351.00	5404.00	900.00	3600.00
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Total in Figures

5832300.00

4547851.00

4914630.00

Lowest Amount Quoted BY: BR Power Control and Automation Services(4547851.00)