

JUSTIFIED COST - SCHEDULE OF QUANTITIES

NAME OF WORK:- Construction of DVOR Building Including Electrical Works at Kadapa Airport. SH: Electrical works.

S.No.	Description of Item	Qty	Unit	Rate(Rs.)	Amount (Rs.)	Remarks
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group B.	20	Point	734.00	14680.00	Rate Analysis Enclosed
2	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. a). 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	80	Meter	139.00	11120.00	Rate Analysis Enclosed
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. a) 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	180	Meter	169.00	30420.00	Rate Analysis Enclosed
4	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. a) 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	260	Meter	205.00	53300.00	Rate Analysis Enclosed
5	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	12	Each	397.00	4764.00	Rate Analysis Enclosed
6	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	15	Each	499.00	7485.00	Rate Analysis Enclosed
7	Supply of Wall fan of 400mm swing, 1350 RPM with control ON-OFF, variable speed modes, oscillation control, hight adjustable, balanced 3 leaf suitable for operation on 230volts, 50hz, AC power supply etc as required.(Make: Havells, Model: Swing or similar from list of approved makes)	3	Each	2455.00	7365.00	Rate Analysis Enclosed
8	Supply of 300mm , 1400RPM Heavy Duty Exhaust fan with 4 blades, bird protective guard and all other required accessories suitable for working at 230Volts, 50HZ, single phase, AC supply etc. as required. (Make: Havells, Model: Turbojet SP or equivalent)	3	Each	2833.00	8499.00	Rate Analysis Enclosed

S.No.	Description of Item	Qty	Unit	Rate(Rs.)	Amount (Rs.)	Remarks
9	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. a) Upto 450 mm sweep	3	Each	250.00	750.00	Rate Analysis Enclosed
10	Supply of 48" (1200mm), 5 star rated ceiling fan with double ball bearing suitable for operation on 230V, 50HZ, AC supply complete with motor, canopy, blades, standard length of down rod and other required accessories etc. as required. (Without fan regulator).(Make: Havells, Model: ES-50 (ISI & 5 star, Brown colour) or equivalent)	3	Each	2006.00	6018.00	Rate Analysis Enclosed
11	Supply of 20W LED ENDURA LINEAR NEO fixture (Size not less than 1200x108x62mm) surface and wall mounted LED batten, extruded aluminium housing provided for efficient heat dissipation with polycarbonate diffuser & integrated electronic driver. LED luminaire shall be suitable for 230V, 50Hz. 1-Phase AC supply as required.	6	Each	995.00	5970.00	Rate Analysis Enclosed
12	Supply of 36W LED VENUS NEO HE fixture (Size not less than 595x595x65mm) Ultra modern designed architectural LED luminaire which provides soft-light and glare free symmetrical illumination suitable for Armstrong/Grid ceiling. LED luminaire shall be suitable for 230V, 50Hz. 1-Phase AC supply as required.	10	Each	2759.00	27590.00	Rate Analysis Enclosed
13	Supply & fixing of 40W LED Energy saving and environmental friendly long life street light made up pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having TOP opening separate driver compartment with IP66 protection and impact resistance of IK07, suitable for single phase, 230 volts, 50 Hz, AC supply, and supplying and fixing of 40 mm dia X 2.00 meter long G.I. pipe (medium class) bracket for mounting of above fitting on wall including bending the pipe to the required shape, 2 Nos. of suitable size flat iron clamps with nuts, bolts and washer, painting and including wiring (upto 2.0mtrs) with 3x1.5 Sq.mm copper conductor and complete as required.	6	Each	4157.00	24942.00	Rate Analysis Enclosed
14	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting/LED fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	16	Each	124.00	1984.00	Rate Analysis Enclosed

S.No.	Description of Item	Qty	Unit	Rate(Rs.)	Amount (Rs.)	Remarks
15	Supplying 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.	6	Each	1245.00	7470.00	Rate Analysis Enclosed
16	Supplying and fixing 8 way (8+24), Double Door, three pole and neutral, Vertical Loadline, prewired, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FRLS PVC insulated copper busbar, neutral link, earth bar, din bar, detachable gland plate, interconnections and powder painted including earthing etc. as required.(But without MCB/RCCB/Isolator)	1	Each	9124.00	9124.00	Rate Analysis Enclosed
17	Supplying and fixing of 63A rating, four pole, 415 volts, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required.	1	Each	1696.00	1696.00	Rate Analysis Enclosed
18	Supplying and fixing of following amps rating 415 Volts , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc., as required. e) 32 amps TP MCB 'C' Curve	2	Each	1175.00	2350.00	Rate Analysis Enclosed
19	Supplying and fixing of following amps rating 240/ 415 Volts , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc., as required. b). 6 amps to 32 amps DP MCB 'C' curve.	6	Each	569.00	3414.00	Rate Analysis Enclosed
20	Supplying and fixing of following amps rating 240/ 415 Volts , miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc., as required. c). 6 amps to 32 amps SP MCB 'C' curve	12	Each	235.00	2820.00	Rate Analysis Enclosed

S.No.	Description of Item	Qty	Unit	Rate(Rs.)	Amount (Rs.)	Remarks
21	Design, Manufacturing, Supply, Installation, Testing & Commissioning of LT Panel, cubicle type, made out of 2mm thick CRCA sheet,totally enclosed, IP 42, free standing, floor mounting, dust and vermin proof, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system with busbars extensible on both sides, making interlocking arrangement between incomers, including internal wiring with suitable size wires/cable, interconnection, duly powder coated painting etc. including supply & installation of following switchgears,metering instruments and accessories in the LT Panel and as per specifications.	1	Job	91110.00	91110	Rate Analysis Enclosed
	<u>INCOMER 1 :</u>					
	1 No-200A 4P 25KA MCCB (With Microprocessor based Release)					
	1 Set-R,Y & B Indication Lamps (LED Type) with control fuse					
	1No- (0-200A MIN) Digital Multifunction meter 50HZ,3-PHASE AC 240V , class-1 ,flush mounting with RS485					
	1 Set-200/5A cast resin type CT with necessary terminal block					
	<u>INCOMER 2 :</u>					
	2 No-250A 4P 25KA MCCB (With Microprocessor based Release)					
	2 Set-R,Y & B Indication Lamps (LED Type) with control fuse					
	2No- (0-250A MIN) Digital Multifunction meter 50HZ,3-PHASE AC 240V , class-1 ,flush mounting with RS485					
	2 Set-250/5A cast resin type CT with necessary terminal block					
	<u>BUSCOUPLER :</u>					
	1 No-250A 4P 25KA MCCB					
	<u>BUS BAR</u>					
	R,Y,B, N & earth busbars suitable for 250 Amps					
	<u>OUT GOING</u>					
	2 nos. 125A TPN MCCB Microprocessor based with Rotary handle necessary arrangement					
	1 no. 63 A plug & socket					
	6 nos- 63 A, TP N 10KA MCB					
	6 nos- 32 A, TP N 10KA MCB					
	NOTE: All MCCB shall have rotary operating handle and mechanical key interlock between incomer - I and incomer - 2, bus coupler					

S.No.	Description of Item	Qty	Unit	Rate(Rs.)	Amount (Rs.)	Remarks
22	Supply of 3½ core x 300 Sq.mm XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1KV grade confirming to relevant IS 1554 / IS 7098 with upto date amendments etc, as required.	5500	Meter	1043.00	5736500.00	Rate Analysis Enclosed
23	Supply of 3½ core x 120 Sq.mm XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1KV grade confirming to relevant IS 1554 / IS 7098 with upto date amendments etc, as required.	1350	Meter	458.00	618300.00	Rate Analysis Enclosed
24	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required. a) 120 mm dia (OD-120 mm & ID-103 mm nominal)	6350	Meter	272.00	1727200.00	Rate Analysis Enclosed
25	Laying of one number PVC insulated and PVC sheathed I XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required. A) Above 185 sq. mm and upto 400 sq. mm	60	Meter	475.00	28500.00	Rate Analysis Enclosed
26	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. a) Above 185 sq. mm and upto 400 sq. mm	6450	Meter	76.00	490200.00	Rate Analysis Enclosed
27	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. a) Above 95 sq. mm and upto 185 sq. mm	1320	Meter	44.00	58080.00	Rate Analysis Enclosed
28	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. a) Above 185 sq. mm and upto 400 sq. mm	70	Meter	65.00	4550.00	Rate Analysis Enclosed
29	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. a) Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	20	Meter	136.00	2720.00	Rate Analysis Enclosed
30	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. a) 3.5 Core x 300 Sq. mm	4	set	889.00	3556.00	Rate Analysis Enclosed
31	Providing, laying and fixing following dia G.I pipe (medium class) in ground complete with G.I fittings including trenching (75 cm deep) and re-filling etc. as required. a) 100 mm dia	40	Meter	975.89	39035.51	DSR-18
32	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required. a) 3.5 X 300 sq. mm	6	Set	4828.58	28971.50	DSR-18

S.No.	Description of Item	Qty	Unit	Rate(Rs.)	Amount (Rs.)	Remarks
33	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	2	Set	5450.24	10900.48	DSR-18
34	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.	30	Meter	423.50	12704.95	DSR-18
35	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	30	Meter	180.62	5418.68	DSR-18
36	Supply, Installation, Testing and Commissioning of Three phase Surge protection (MOV, plug in type) capable with Neutral Earth of carrying nominal discharge of 100KA (block MOV), 8/20 micro second surge, protection level of 1.5KV in IP55 grade enclosure, complete with suitable safety circuit breaker, base interconnection with copper cable, end terminations etc., as per specifications enclosed (First stage protection to be provided at power entry point) Make : Tercel	1	Job	126513.00	126513.00	Rate Analysis Enclosed
37	Providing of earth pits material using ISOGEL earth enhanced compound of 20kgs. ISOROD advanced chemical earth rod made with k type copper tube of 2.5" dia., 8fts. Long, 1.6mm thick installed vertically or horizontally as per the site conditions complete with flanges bends top cover heavy duty plastic inspection chamber including excavation and refilling etc as required. Make: Tercel.	1	Job	40452.00	40452.00	Rate Analysis Enclosed
38	Providing and fixing of copper tape/strip of size 25x3mm on surface/existing pipe for loop earthing for site earthing and bonding etc., as required in 40mm dia GI pipe i/c supply and laying as per site requirement.	15	Meter	942.00	14130.00	Rate Analysis Enclosed
39	Supply, Installation, testing and commissioning of 1 loop addressable for 30 devices Fire Alarm Control Panel with battery charger, 2nos. of Sealed maintenance free batteries(each 12V, 7AH) along with Auto-dialer unit complete as required. Make:ASES/Apollo/System sensor/Honeywell	1	Each	117000.00	117000.00	Rate Analysis Enclosed
40	Supply, Installation, testing and commissioning of multi criteria Smoke detector with mounting base and base box complete as required. Make:ASES/Apollo/System sensor	6	Each	2761.00	16566.00	Rate Analysis Enclosed
41	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. a) 2C x 1.5 Sq.mm	60	Meter	51.00	3060.00	Rate Analysis Enclosed
42	Supply, Installation, testing and commissioning of Hooter with Hi-intensive sound as required. Make:ASES/Group4/Minimax	1	Each	4212.00	4212.00	Rate Analysis Enclosed
Total (Excl GST & Contingency)					94,11,441.13	

(Rupees Ninety Four Lakhs Eleven Thousand Four Hundred and Forty One Only)

Asst. Gen. Manager (Engg.-Elect)
AAI, Kadapa

TENDER APPLICATIONS SCRUTINY NOTE COVER - I & II

										80% of Estimated cost: Rs. 76,89,153.00	
Name of Work: Construction of DVOR Building Including Electrical Works at Kadapa Airport. SH: Electrical works										50% of Estimated cost: Rs. 48,05,721.00	
										40% of Estimated cost: Rs. 38,44,576.00	
JUSTIFIED COST. RS.94,11,441.00		Last date of Receipt of Tender: 09.06.2020				Period of Sale from: 16.05.2020 to 29.05.2020					
Sl. No.	Agency	GST Number	PAN Number	Agv. Annual Turnover	Should have valid Registration on the Date of issue of Tender in appropriate class of CPWD/ MES/ P&T/ Railways/ State PWD/ PSU/ Municipal Corporations & Development Authorities of Delhi, Mumbai, Chennai and Kolkata or Completion certificate for single work of 80%, two works of 50% or three works of 40% of .		Tender Cost details & DD.No.Etc.	EMD Details	Acceptance Letter	Recommendations	
					Issue by Dept.	Tender Limit / Completion cost & Dt					
1	M/s.Lakshmi Electrical Enterprises, Chennai.	33AACFL6352N1Z4	AACFL6352N	9596431.333	Cheif Engineer (R&D) Military Engineering services, Secunderabad Inadian Noval Academy, Kannur		Rs.8639132/- Dt:17.10.2017 Rs.8826355/- Dt.28.02.2018	Rs.1180/- DD.No.559996, City Union Bank LTD, Dt.20.05.2020	Rs.1,92,229/- DD.No.559995, City Union Bank LTD, Dt.20.05.2020	Yes	Recommended
2	M/s. Manish Electricals, Gwalior	23ABLP9012E1ZW	ABLP9012E	180762333.3	AAI, Nagapur AAI,Bhopal		Rs. 5027902/- Dt.05.03.2016 Rs.4924132/- Dt.08.12.2013	Rs.1180/- DD.No.027369, IDBI Bank, Dt.16.05.2020	Rs.1,92,229/- DD.No.027361, IDBI Bank, Dt.16.05.2020	Yes	Each year 7% escalation for Work Experienc Amount. Eligible. Hence recommended
3	M/s.M.P.C Electricals, & Engineers, Udaipur	08ABUPP6558K1ZM	ABUPP6558K	19223060.06	AAI, Trivandrum		Rs.7476873/- Dt.20.07.2018	Rs.1180/- DD.No.393043, Vijaya Bank, Dt.19.05.2020	Rs.1,92,229/- DD.No.393042, Vijaya Bank, Dt.20.05.2020	Yes	Recommended
4	M/s.Techno Electricals, Gorwa, Baroda	24AAGFT9086M1ZG	AAGFT9086M	15624878.35	AAI,Pakyong Airport AAI,Visakhapatnam Airport AAI, Rajamundry Airport		Rs.4819518/- Dt.27.01.2018 Rs. 3864940/- Dt.30.09.2018 Rs.401148/- Dt.15.06.2017	Rs.1180/- DD.No.387424, Bank of Baroda, Dt.20.05.2020	Rs.1,92,229/- DD.No.387425, Bank of Baroda, Dt.20.05.2020	Yes	Recommended
5		M/s.Manoprabha Electricals, Thanjavur	33AGNPM4749D3Z9	AGNPM4749D	8709399.143	AAI, Trichy Airport,		Rs.8797129/- Dt.24.03.2020	Rs.1180/- DD.No.519424, Corporation Bank, Dt.26.05.2020	Rs.1,92,229/- DD.No.519425, Corporation Bank, Dt.26.05.2020	Yes
6	M/s.Chennai Engineering Services, Chennai	33AADFC4373K1ZH	AADFC4373K	186659994.8	AAI, Vijayawada Airport AAI, Neyveli Airport		Rs.70.55.183/- Dt.04.01.2020 Rs.4643348.00 Dt.30.06.2018	Rs.1180/- DD.No.500217, ICICI Bank, Dt.26.05.2020	Rs.1,92,229/- DD.No.500216, ICICI Bank, Dt.26.05.2020	Yes	Recommended
7	M/s.Ruchira Associates, Visakhapatnam	37AAQFR2340N1ZO	AAQFR2340N	91265759.33	AAI, Rajamundry Airport		Rs.17457173/- Dt.03.04.2019	Rs.1180/- DD.No.959466, Oriental Bank of Commerce, Dt.26.05.2020	Rs.1,92,229/- DD.No.559995, Oriental Bank of Commerce, Dt.26.05.2020	Yes	BOQ Not Submitted. Asked in shortfall. Submitted. Hence recommended
8	M/s.SWAS & IT Private Limited, Bangalore	37AAXCS6582P1ZY	AAXCS6582P	7510065.00	M/s Jayram Industries, Hyderabad		Rs.89.02,230.00 Dt. 16.02.2019	Rs.1180/- DD.No.010137, AXIS Bank, Dt.28.05.2020	Rs.1,92,229/- DD.No.010135, AXIS Bank, Dt.28.05.2020	Yes	Experience Not Submitted. Asked in shortfall. Submitted. TDS copy also submitted. Hence recommended
9	M/s.Power Electrical Works, Tiruchirappalli	33AADPT3125C1Z8	AADPT3125C	22150149.33	ONGC, Mayiloduthurai,Cavery asset ONGC, Puducherry		Rs.5313276/- Dt.19.04.2017 Rs.4280958/- Dt.08.02.2016	Rs.1180/- DD.No.668705, Indian Bank, Dt.28.05.2020	Rs.1,92,229/- DD.No.668704, Indian Bank, Dt.28.05.2020	Yes	Recommended
10	M/s. Doshi Electric Engineering Co., Rajkot	-	-	-	-		-	Rs.1180/- DD.No.057458, Axis Bank LTD, Dt.16.05.2020	Rs.1,92,229/- DD.No.057459, Axis Bank LTD, Dt.16.05.2020	Yes	Online bid not submitted. Hene not recommended

AIRPORTS AUTHORITY OF INDIA KADAPA AIRPORT
DEPARTMENT OF ELECTRICAL ENGINEERING
12.06.2020

AAI/KDP/ENGG[E]/2020-21/

Sub: - E-Bid Technical Evaluation Committee – Reg

Name of Work: Construction of DVOR Building Including Electrical Works at Kadapa Airport. SH: Electrical works

With reference to the above subject work, an e-tender has been floated in CPP portal vide Tender ID 2020_AAI_48309_1.

The following officials are the Committee Members of Technical evaluation of above e-bid:

- a) Shri Joshua Kindo, Asst. Gen Manager [Engg-E]
- b) Shri. R Tagore, Dy. Gen Manager (Engg.-C)

Upon opening of Envelope –II, the bid status is mentioned as below

10 agencies submitted hard copies. But one agency not submitted online bid. Hence 09 agencies admitted to open cover II

Out of 09 agencies, all 09 agencies submitted fee & documents as per ENIT.
Hence all 09 agencies recommended opening financial bid.

The Date of opening of e- Bid Envelope III is scheduled on **15.06.2020 @ 1100 Hrs.**

Signature Not Verified

Digitally signed by JOSHUA KINDO
Date: 2020.06.13 12:24:49 IST
Location: eProcurement System for Central PSUs

