



भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

मदुरै हवाई अड्डा, मदुरै - 625 022.

MADURAI AIRPORT, MADURAI - 625 022.

(ISO 9001 - 2015 & 14001 - 2015 प्रमाणित / CERTIFIED)

भा.भा.वि.प्रा./मदुरै/इ(वि)/MDU-348/22-23

Ref: AAI/MDU/E-E/MDU-348/22-23

दि:/Date: 20.02.2023

सेवा में /To,

M/s. Awasthi Electric Works,

109/58, Nehru Nagar,

Kanpur - 12.

Email: aewknp@gmail.com , rukna803@yahoo.co.in

Mobile no. 9415101606, 9044444848.

विषय/Sub : Replacement of UPS for Ground Lighting Facilities & its Allied Works at Madurai Airport Reg.

संदर्भ/Ref: (1)Your e-tender (Financial bid-2023 AAI 140823 1) Opened on 30.01.23

(2) Our Negotiation Ltr. no. AAI/MDU/E-E/MDU-348/22-23 Dt:07.02.2023

(3) Minutes of Meeting email dated: 10.02.2023

महोदय/Dear sir(s),

- 1) Reference to your negotiated offer for the above work
- 2) Your e-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs. 54,98,250.00** (Rupees Fifty Four Lakhs Ninety Eight Thousand Two Hundred and Fifty Only) plus applicable GST which is 4.79% above the estimated cost put to tender of Rs. 52,46,925.00 plus applicable GST.
- 3) Jt. General Manager (Engg-Elect.), Airports Authority of India, Madurai Airport, Madurai- 625 022, shall be the Engineer-in-charge of the work.
- 4) You are requested to attend the office of the Asst. General Manager (Engg-Elect.), AAI, Madurai Airport by **06.03.2023** to sign and complete the contract agreement. The contract Agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- (Rupees One Hundred only). The tender document shall be down loaded and signed in each page which shall form part of the agreement. The entire cost towards stamp paper, down loading and printing tender document shall be borne by the contractor.
- 5) As per relevant clause of GCC-2017, which is a part of the contract agreement, security deposit @ 10% (Ten Percent) of gross amount of each running bill will be deducted from your bill which shall released after successful completion of Defects Liability Period which shall be **Two Years** from the certified date of completion.

Sl. No. 5727-34

Contd....2

विमानपत्तन निदेशक का कार्यालय, मदुरै हवाई अड्डा, मदुरै - 625 022.

O/o The Airport Director, Madurai Airport, Madurai - 625 022.

दूरभाष / Tel : 0452-2690717 / फैक्स / Fax : 0452 - 2690151, 2690305 E-mail : apdmadurai@aaiaero



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- 6) You are requested to comply with the provisions of Contract Labour (Regulation and abolition) Act of 1970 and Contract Labour (Regulation and Abolition) Central Rules 1971, Child Labour (Prohibition and Regulation) and Act 1986, Construction workers (Regulation of employment and conditions of service) Act 1996, Building and other construction workers welfare cess Act 1996 as specified in Clause-19 on Page No.50 of GCC of tender and rules of Central and State Governments.
- 7) You are also directed to contact Manager (Engg-Elect)-I, AAI, Madurai Airport immediately who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work shall be **04 (Four) Months** and the same shall be reckoned from **06.03.2023**.
- 8) Any further correspondence in connection with the contract should normally be addressed to the Jt. General Manager (Engg.-Elect.), AAI, Madurai.
- 9) Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.
- 10) This work order is allotted the number **MDU-348** which shall be quoted by you future correspondence in connection with this work Contract.
- 11) All other terms & Condition shall be as per Tender Document.

Encl: Schedule of Work

Yours faithfully,

Asst. General Manager (E-E)
For and on behalf of the Chairman
Airports Authority of India
बीजू के.जी. / Biju K.G.
सहायक महाप्रबंधक / Assistant General Manager
इंजीनियरिंग (विद्युत) / Engineering [Electrical]
भारतीय विमानपत्तन प्राधिकरण / AIRPORTS AUTHORITY OF INDIA
मदुरै हवाई अड्डा / MADURAI AIRPORT

Copy to:

INTERNAL

1. The General Manager (Engg.-Elect), AAI, SR, Chennai Airport.
2. The Airport Director, AAI, Madurai Airport.
3. The Jt. General Manager (E-E), AAI, Madurai Airport.
4. The Jt. General Manager (Vigilance), AAI, Southern Region, Chennai Airport.
5. The Sr. Manager (F&A), AAI, Madurai Airport -Financially concurred on 17.02.2023 with reference to F.C. through e-file no. SR- 13018(38)/35/2022-APD-SR-MADURAI (Computer No. 164558).
6. The Manager (E-E), AAI, Madurai Airport.
7. Agreement.

Asst. General Manager (E-E)
For and on behalf of the Chairman
Airports Authority of India
बीजू के.जी. / Biju K.G.
सहायक महाप्रबंधक / Assistant General Manager
इंजीनियरिंग (विद्युत) / Engineering [Electrical]
भारतीय विमानपत्तन प्राधिकरण / AIRPORTS AUTHORITY OF INDIA
मदुरै हवाई अड्डा / MADURAI AIRPORT

विमानपत्तन निदेशक का कार्यालय, मदुरै हवाई अड्डा, मदुरै - 625 022

O/o The Airport Director, Madurai Airport, Madurai - 625 022.

दूरभाष / Tel : 0452-2690717 / फैक्स / Fax : 0452 - 2690151, 2690305 E-mail : apdmadurai@aai.aero

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Tender Inviting Authority: AIRPORTS AUTHORITY OF INDIA

Name of Work: Replacement of UPS for Ground Lighting Facilities & its Allied Works at Madurai Airport

Contract No: 2023_AAI_140823_1

Name of the Bidder/ Bidding Firm / Company : AWASTHI ELECTRIC WORKS						
<u>PRICE SCHEDULE</u>						
Sl. No.	Item Description	Quantity	Units	BASIC RATE Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	Supply, Installation, Testing and Commissioning (SITC) of 2 X 100 KVA capacity, 3-phase input / 3 phase output online UPS with double conversion type advance IGBT technology with suitable rated isolation transformer to drive constant current regulators with 100% unbalanced load at full load condition. The UPS shall have built in automatic static by pass, manual by pass facilities, active input power factor correction, phase sequence corrector, pure sine wave output, input/output isolation, compatibility with generator supply, cold start capability, EMI/RFI noise filter, advanced communication-RS232/RS485 ports and user friendly LCD display, suitable to operate at 400V±15%, 50Hz, 3 phase AC supply and capable to load 2 phase & single phase loads on 3phase output with 100% unbalanced and necessary safety protections. The job also includes supply and connecting required/suitable size & number of 12V VRLA SMF batteries suitable to give a backup time of minimum 15 minutes per each 100KVA UPS along with battery racks/enclosure, interconnections between batteries, battery disconnectors, suitable DC Breakers, connectors, wiring between battery bank and UPS with insulated copper conductor of required size up to 10 meters as per site condition with parallel redundant system configuration for equal sharing of load etc., complete as per tender specifications as required.	1	Job	3387000	3387000.00	INR Thirty Three Lakh Eighty Seven Thousand Only

2	Design, Fabrication ,Assembling , Supply, Installation ,Testing and Commissioning of UPS Output panel(TTA Assembly) Indoor Cubical type, Floor mounted , free standing, dust & vermin proof conforming to IEC 61439 suitable for 415V, 3Ph,4 wire ,50Hz supply system fabricated in compartmentalized design of Form 3 B and Ingress protection of IP 42 from CRCA sheet of 2mm thick for frame work and covers and 3mm thick for gland plates i/c cleaning and finishing complete as per OEM process for powder coating in approved shade ,extendable type, 500A TPN aluminium busbars of high conductivity ,DMC/SMC busbar supports , with bottom base channel of MS section not less than 100mmx50mmx5mm thick, entire panel shall have common GI earth Bar having minimum size of 50mm x 6mm at the rear with 2 Nos of earth studs , provision for cable entry from bottom of the panel , front access shall be available to all components in Panel which require adjustment , maintenance or replacement and each compartment should be provided with door and pad locking arrangement including supply and installation of all items as below and as per technical specification with all accessories. INCOMER: i) Microprocessor Based MCCB, 400 A, 4 Pole, 415V, 36KA (ICu=ICs) with inbuilt adjustable overload & short circuit protection with Spreader link & Extended Rotary Handle -2 Nos. ii) Digital Multi Function Meter , 3 Nos CTs of Suitable Amps ratio having Class 1 Accuracy - 2 Sets iii) R,Y ,B Phase Indication LED lamps for each phase with 3 Nos of 2A ,MCBS & Breaker Indication Lamps (ON/OFF/TRIP) with 2A control MCBs -2 Sets. BUS COUPLER: Microprocessor Based MCCB, 400 A , 4 Pole, 415V , 36KA (ICu=ICs) with inbuilt adjustable overload & short circuit protection with Spreader link & Extended Rotary Handle -1 No. Outgoing : i) Microprocessor Based MCCB , 250 A , 4 Pole, 415V , 36 KA (ICu=ICs) with inbuilt adjustable overload & Short Circuit protection with Spreader link & Extended Rotary Handle- 2 Nos One set of 600A Al. bus bars with at par neutral bus bar as required. All accessories such as fuses, auxillary contactors, auxillary switches, etc. including providing Empty Cubicle Space (2 Nos.) suitable for 125A 4P MCCB as required.	1	Job	675000	675000.00	INR Six Lakh Seventy Five Thousand Only
3	Supply, Installation,Testing & Commissioning of UL listed Intelligent addressable optical smoke detector with standard base, accessories like base box etc. to install under false ceiling including configuration of detector addresses in the existing Honeywell make fire alarm control panel. Complete as required as per Specification.	5	Nos.	4200	21000.00	INR Twenty One Thousand Only
4	Extension of busbars, Supply & fixing of following rating MCCB in existing LT panel with suitable modification in the panel/ door including cutting the panel, providing additional stiffners with suitable supports, painting etc. Complete as required. i)Thermo magnetic Based MCCB , 400 A , 4 Pole, 415V , 36 KA (ICu=ICs) with inbuilt adjustable overload & Short Circuit protection with Rotary Handle & spreader links	1	Job	55000	55000.00	INR Fifty Five Thousand Only
5	Supply of following size XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1 KV grade confirming to relevant IS 7098 (Part-1) with upto date amendments. 3.5C x 185 Sq. mm	60	Mtr	1300	78000.00	INR Seventy Eight Thousand Only
6	Supply of 1 Core, 95 Sq.mm, 1.1 KV grade, PVC insulated, unsheathed, Un-armoured, Copper conductor power cable confirms to IS 694:1990 with up to date amendments etc. Complete as required.	200	Mtr	1100	220000.00	INR Two Lakh Twenty Thousand Only
7	SITC of highly energy efficient, five star rating hi-wall mounted split air-conditioner of 2.0 TR nominal capacity with inverter rotary compressor operating on 230V±10%,50Hz supply fully copper heat exchanger with hydrophylic aluminium fins and heavy duty suitable condenser fan along with necessary copper refrigerant piping upto 5 mtrs. with green refrigerant and water drain piping upto 3 mtrs. as required,providing MS stand/ raised platform for outdoor units as per the tender specifications etc complete as required	2	Nos.	55000	110000.00	INR One Lakh Ten Thousand Only

8	Supply and fixing of wall mounting type automatic electronic voltage stabilizer suitable for 2TR Split Air conditioners having capacity 5KVA single phase, an input voltage range of 180-270V with high/low voltage cut off, instant start & intelligent time delay etc complete as required.	2	Nos.	5500	11000.00	INR Eleven Thousand Only
9	Supply and fixing of 20Amps, 240 volts, SPN industrial type socket outlet ,with 2 pole and earth metal enclosed plug top along with 20Amps, C-series, DP MCB in sheet steel enclosure on surface/recess with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc as required	2	Nos.	1300	2600.00	INR Two Thousand Six Hundred Only
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 as required. Above 35 sq. mm and upto 95sq. Mm	200	Mtrs.	35	7000.00	INR Seven Thousand Only
11	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. Above 95 sq. mm and upto 185 sq. mm	60	Mtrs.	45	2700.00	INR Two Thousand Seven Hundred Only
12	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium/copper conductor cable of 1.1 kv grade as required. 3.5C X 185 sq. mm	2	Set	750	1500.00	INR One Thousand Five Hundred Only
13	Supplying and making end termination with PVC gland and Copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 kv grade as required. 1 X 95 sq. mm (1-set consists of 4Nos of 1C X 95 Sqmm Cables).	8	Set	650	5200.00	INR Five Thousand Two Hundred Only
14	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required as per IS 3043.	3	Set	17500	52500.00	INR Fifty Two Thousand Five Hundred Only
15	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	40	Mtrs	1600	64000.00	INR Sixty Four Thousand Only
16	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	100	Mtr	1250	125000.00	INR One Lakh Twenty Five Thousand Only
17	Supply & Installation of Recess mounted LED Luminaire with system wattage 32-40 W and system lumen 3600lm-3800lm, of size not less than 550mmx550mm and not more than 600mm x 600mm. The luminaire efficiency shall be >100lm. The luminaire shall be 4000K-6500K color temperature and having 50000 burning hours life with minimum 70% lumen maintenance. CRI should be greater than 80, housing should be CRCA Sheet of thickness of 0.5-0.6 mm thick. The diffuser shall be opal diffuser, electronic driver should be in built with life of 50000 hrs power factor >0.95 of the input voltage tolerance shall be 140-270 volt AC complete in all respect including LED and other accessories etc as required.	5	Nos	3500	17500.00	INR Seventeen Thousand Five Hundred Only
18	Supply and laying 2Cx1.5 Sqmm fire alarm armoured cable, 600V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath to meet relevant IS standard complete as required	50	Mtr	165	8250.00	INR Eight Thousand Two Hundred & Fifty Only

19	All Inclusive Comprehensive Maintenance Contract (AICMC) of 2 X 100 KVA UPS after completion of defects Liability period for UPS System consisting of all accessories i/c periodical, preventive, break down maintenance as per the OEM recommendations & AAI requirements & attending emergency breakdowns as and when required on 24 hrs basis (on all days including holidays) and including all necessary spares and consumables to keep the whole UPS system in perfect working condition etc. Complete as required and as required and as specified (Battery replacements is excluded from the maintenance contract). 1 st Year (After Defects liability Period) (AMC rates shall not be less than 6% of BOQ item no:1)	1	Job	105000	105000.00	INR One Lakh Five Thousand Only
20	All Inclusive Comprehensive Maintenance Contract (AICMC) of 2 X 100 KVA UPS after completion of defects Liability period for UPS System consisting of all accessories i/c periodical, preventive, break down maintenance as per the OEM recommendations & AAI requirements & attending emergency breakdowns as and when required on 24 hrs basis (on all days including holidays) and including all necessary spares and consumables to keep the whole UPS system in perfect working condition etc. Complete as required and as required and as specified (Battery replacements is excluded from the maintenance contract). 2 nd Year (After Defects liability Period) (AMC rates shall not be less than 6% of BOQ item no:1)	1	Job	115000	115000.00	INR One Lakh Fifteen Thousand Only
21	All Inclusive Comprehensive Maintenance Contract (AICMC) of 2 X 100 KVA UPS after completion of defects Liability period for UPS System consisting of all accessories i/c periodical, preventive, break down maintenance as per the OEM recommendations & AAI requirements & attending emergency breakdowns as and when required on 24 hrs basis (on all days including holidays) and including all necessary spares and consumables to keep the whole UPS system in perfect working condition etc. Complete as required and as required and as specified (Battery replacements is excluded from the maintenance contract). 3 rd Year (After Defects liability Period) (AMC rates shall not be less than 6% of BOQ item no:1)	1	Job	125000	125000.00	INR One Lakh Twenty Five Thousand Only
22	All Inclusive Comprehensive Maintenance Contract (AICMC) of 2 X 100 KVA UPS after completion of defects Liability period for UPS System consisting of all accessories i/c periodical, preventive, break down maintenance as per the OEM recommendations & AAI requirements & attending emergency breakdowns as and when required on 24 hrs basis (on all days including holidays) and including all necessary spares and consumables to keep the whole UPS system in perfect working condition etc. Complete as required and as required and as specified (Battery replacements is excluded from the maintenance contract). 4th Year (After Defects liability Period) (AMC rates shall not be less than 6% of BOQ item no:1)	1	Job	135000	135000.00	INR One Lakh Thirty Five Thousand Only
23	All Inclusive Comprehensive Maintenance Contract (AICMC) of 2 X 100 KVA UPS after completion of defects Liability period for UPS System consisting of all accessories i/c periodical, preventive, break down maintenance as per the OEM recommendations & AAI requirements & attending emergency breakdowns as and when required on 24 hrs basis (on all days including holidays) and including all necessary spares and consumables to keep the whole UPS system in perfect working condition etc. Complete as required and as required and as specified (Battery replacements is excluded from the maintenance contract). 5 th Year (After Defects liability Period) (AMC rates shall not be less than 6% of BOQ item no:1)	1	Job	145000	145000.00	INR One Lakh Forty Five Thousand Only

24	Dismantling of existing 120KVA UPS along with Battery banks including disconnection of associated cables, shifting and handing over the same to AAI stores as per direction of EIC.	1	Job	30000	30000.00	INR Thirty Thousand Only
	Total in Figures				5498250.00	INR Fifty Four Lakh Ninety Eight Thousand Two Hundred & Fifty Only
Say Rs. 5498250.00 (Rupees Fifty Four Lakh Ninety Eight Thousand Two Hundred and Fifty Only) plus applicable GST as per Government norms.						

[Handwritten signature]

[Handwritten signature]
 20/02/2023
 Asst. General Manager (E-E)
 AAI, Madurai Airport
बीजू के.जी. / BIJU K.G.
 सहायक महाप्रबंधक / Assistant General Manger
 इंजीनियरिंग (विद्युत) / Engineering [Electrical]
 भारतीय विमानपत्तन प्राधिकरण / AIRPORTS AUTHORITY OF INDIA
 मदुरै हवाई अड्डा / MADURAI AIRPORT

Signature Not Verified

Digitally signed by BIJU K G
 Date: 2023.02.28 15:29:54 IST
 Location: eProcurement System for Central PSUs

