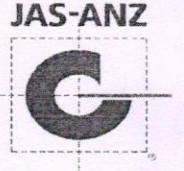




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AIRPORTS AUTHORITY OF INDIA



IMS ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Ref: AAI/CBE/CNS/NEW DVOR UPS/2020 /115

Dated: 04/03/2021

To

M/S. Powerone Microsystems (P) Ltd,
GF-3 & F-12, KSSIDC Building,
5th Cross, 1st stage, Peenya Industrial Estate
Bangalore – 560058, Karnataka
Ph -080-22027400, 28397832, email- poweroneups@poweroneups.com

OUR GST No: 33AAACA6412D1ZF

Sub: Award order for SITC for Online UPS for New DVOR and HPDME at Coimbatore International Airport and its CAMC for Five years-reg

Ref: AAI Coimbatore Tender No:2020_AAI_64711_1
Your financial bid decrypted from CPP portal on 03.02.2021

Sir,

Reference may please be made to your bid no. 228008 in the above mentioned Tender on the subject 'SITC of Online UPS for New DVOR and HPDME at Coimbatore International Airport and its CAMC for Five years'.

The Airport Director, AAI, Coimbatore International Airport on behalf of Chairman, Airports Authority of India is pleased to place **work order for SITC of Online UPS for New DVOR and HPDME at Coimbatore International Airport and its CAMC for 5 years for an amount of Rs 335000/- (Excl.GST). There is a Breakup of work orders for the E-tender ID: 2020_AAI_64711_1 with details mentioned below**

SN	Description of Breakup of Work order	Amount in Rs (Excl.GST)	Remarks
1	SITC OF ONLINE UPS FOR NEW DVOR AND HPDME	242000/-	Supply, Installation, Testing and Commissioning.
2	CAMC FOR FIVE YEARS (4 th , 5 th , 6 th , 7 th and 8 th year)	93000/-	Separate Work Order for CAMC will be awarded after completion of warranty period of the UPS.

The Terms & Conditions and Price schedule-Bill of Quantity are mentioned as follows:-

o/c

(P.T.O)

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कोयम्बतूर /COIMBATORE-641014

Tel: 0422- 2571941/ 2571956/2573603/2573602/2573561/ Fax 0422 – 2592384/2573223
Email: apdcoimbatore@aai.aero



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Terms & Conditions

1. The items should be supplied as per the model specified in the order. No Deviation /alternation is allowed either in denomination or in quantity or in cost or specification.
2. The materials should be supplied at the following Address :-
O/o Airport Director, AAI, Coimbatore International Airport Coimbatore -641014 at the supplier's cost.
3. The Supply, Installation, Testing and commissioning to be completed within Thirty (30 calendar days) from the date of issue of work order by AAI.
4. All materials and each part or details of work shall be inspected by the CNS-In-Charge. Rejected item if any should be collected by the supplier at their own risk and the same to be replaced immediately.
5. Bill may be raised in duplicate addressed to the Airport Director, AAI, Coimbatore International Airport Coimbatore. Also **the invoice should be uploaded in GST portal and the same to be submitted along with.**
6. The Airport Director has the right to accept or reject the supply order either in full or part thereof without assigning any reason.
7. Payment :
No mobilization advance shall be paid. All bank charges (for DD/RTGS/NEFT etc.) shall be in the account of the supplier/contractor. All Payments shall be released after adjusting any compensation for delay which firm might have rendered themselves liable as per provisions of contract and applicable income tax and any applicable deductions.
Payment will be made as per the following mentioned chart.

i	100% payment for the amount of Rs 242000/- (Excl.GST) will be only after completion of SITC on submission of a) GST invoice in triplicate b) Satisfactory completion certificate from section in-charge c) Itemized Packing list with cost of each item + 2 copies d) Certificate of Factory Acceptance Test issued by authorized representative of AAI or certificate from Quality Control Department of OEM complete with all test reports along with AAI letter for FAT waiver e) Security Deposit/Performance Bank Guarantee f) Proof of dispatch of equipment / items g) Certificate of goods received at AAI site in physically good condition. h) Certificate of completion of successful SAT and Training, issued by authorized representative of AAI.
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(P.T.O)

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Tel: 0422- 2571941/ 2571956/2573603/2573602/2573561/ Fax 0422 - 2592384/2573223
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8. Items should be accompanied with delivery challan referring our supply order No. Rate & Quantity without fail. No items will be accepted without delivery challan.
9. Liquidated damages :

In case of delay in completion of the contract or each milestone of contract for supplies, SAT and training attributed to contractor, liquidated damages (L.D.) shall be levied @ 0.5% of the total value of the uncompleted portion of work per week (part of week to be treated as one week) subject to a maximum of 10% of total contract value.
10. As a part of work is to be carried in Airport's Operational area, it will be the responsibility of the Agency/Contractor to follow all the prevailing procedures and processes for obtaining Airport Entry Permit (AEP) for their employees/technicians deputed to Airport for the awarded work at Agency's own cost as per regulations mandated by BCAS (Bureau of Civil Aviation security)
11. Acknowledgement of this work order may send to this office within 7 working days of the date of issue of work order.
12. Agreement duly filled and signed up has to be submitted within 7 days from the date of issue of work order.
13. Performance Bank Guarantee (Annexure III) for the value of Rs 7260 [3% of Basic value (Rs 242000) for PBG as per recent memorandum dated 12.11.2020 by the Central govt] has to be submitted within 30 days from date of issue of work order. The validity of PBG is as per serial no 15 of section A of Tender Document i.e 3 years and 6 months (six months beyond warranty period) or shall remain valid as per provisional extension granted by AAI.
14. Warranty: The warranty period shall be 36 (Thirty six) calendar months from the date of Successful SAT at site.
15. There should not be any deviations in the technical specifications of UPS and their compliance.
16. In addition to the above, all terms and conditions as per Tender document will be applicable and to be adhered.
17. The compliance statement regarding technical specifications submitted by M/S Powerone Microsystems Pvt Ltd in its bid is attached along with work order for reference.

Thanking You,

(Signature) 01/03/2021

(RAMACHANDRAN P.B)
JGM (CNS)
For Airport Director.

Copy to :

1) DGM(Finance), SAU, AAI, Coimbatore Airport, Coimbatore-641014

रामचंद्रन. पी.बी / RAMACHANDRAN. P.B
संयुक्त महाप्रबंधक (सं दि जि) / JGM - CNS
कुते विमानपत्तन निदेशक / For Airport Director

भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
कोयंबटूर अंतरराष्ट्रीय हवाई अड्डा / Coimbatore Intl. Airport
कोयंबटूर - 641 014.

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कोयंबटूर / COIMBATORE-641014

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(TO BE uploaded in Technical Folder)

2. Compliance Statement for Technical Specifications

The specifications given are minimum and Items with higher specification are acceptable at no extra cost.

Specifications for 5 KVA online UPS for New DVOR

Offered Make & Model of UPS: POWER ONE MAKE UHF MODEL

Offered Make, Model, Rating & number of SMF battery for UPS: EXIDE EP MODEL 42AH

Sr.No	Parameters	Specifications	COMPLIED	NOT COMPLIED
1	Technology	High Frequency PWM, True On-line Double Conversion, IGBT block type and with isolation transformers on both input and output side	Yes	—
2	Capacity	2 x 5 KVA online, True sine wave UPS	Yes	—
3	Input Voltage range	1 phase, 160-260V	Yes	—
4	Input Frequency	50Hz +/- 3Hz	Yes	—
5	Input Power Factor	0.9 to unity	Yes	—
6	Output Voltage	1 phase, 230V +/-1% (Neutral to ground voltage shall be less than 1 volt)	Yes	—
7	Output Waveform	Pure Sine Wave	Yes	—
8	Output Frequency	Mains Synchronized +/- 1Hz	Yes	—
9	Inverter power factor	0.8 to unity	Yes	—
10	Protections	Spike, Short Circuit, Overload, Over voltage	Yes	—
11	Battery Deep Discharge Protection	Offered system shall have battery level sensing facilities and shall prevent deep discharge of batteries by shutting itself in such an event	Yes	—
12	Back Up Time	30 minutes for each UPS,	Yes	—
13	Battery Type	12 Volt/42AH, Advanced glass mat valve regulated sealed lead acid battery construction (AGM or VRSLAB) in ABS flame	Yes	—

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NIT: SITC OF ONLINE UPS FOR NEW DVOR & HPDME AT COIMBATORE INTL AIRPORT AND ITS CAMC FOR FIVE YEARS.

Page 49 of 79





भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA



		retardant (UL94V-O) grade (UL 2436) spill containment casing to meet UL 62368-1 / IEC 62133 or equivalent standards type.		
14	Alarm	Audible Alarm on Mains Failure & Low Battery (Continuous)	Yes	—
15	User Control Interface Features	UPS shall have provision of control mechanism with appropriate indications to control UPS operation in input on/off, output on/off and Bypass on/off. Monitoring display Panel shall indicate i/p, o/p voltage, frequency, power factor, on load, on battery and battery backup time left with LED's and audible alarm UPS ON, Mains ON, Battery operation, Overload.	Yes	—
16	Redundancy	Both UPS Should be able/compatible to use in combination with hot/ standby configuration using <u>external active static switch</u>	Yes	—
17	UPS Monitoring	Shall monitor and support Self-Test, Overload	Yes	—
18	Warranty	Minimum of 3 year on site comprehensive warranty for UPS and 2 years for batteries	Yes	—
19	UPS Service life / AMC	Minimum 8 Years / 5 years after completion of 3 years warranty period for UPS	Yes	—
20	Battery rack	Suitable MS rack with Isolator switch	Yes	—
21	Communication	RS485, RS232, SNMP	Yes.	—

Note: Necessary documents substantiating the specifications shall be attached with the Technical Bid.





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Specifications for 3 KVA online UPS for HPDME

Offered Make & Model of UPS: POWER ONE UHF MODEL

Offered Make, Model, Rating & number of SMF battery for UPS: EXIDE FP MODEL 26AH

Sr.No	Parameters	Specifications	COMPLIED	NOT COMPLIED
1	Technology	High Frequency PWM, True On-line Double Conversion, IGBT block type and with isolation transformers on both input and output side	Yes	—
2	Capacity	2 x 3 KVA online, True sine wave UPS	Yes	—
3	Input Voltage range	1 phase, 160-260V	Yes	—
4	Input Frequency	50Hz +/- 3Hz	Yes	—
5	Input Power Factor	0.9 to unity	Yes	—
6	Output Voltage	1 phase, 230V +/-1% (Neutral to ground voltage shall be less than 1 volt)	Yes	—
7	Output Waveform	Pure Sine Wave	Yes	—
8	Output Frequency	Mains Synchronized +/- 1Hz	Yes	—
9	Inverter power factor	0.8 to unity	Yes	—
10	Protections	Spike, Short Circuit, Overload, Over voltage	Yes	—
11	Battery Deep Discharge Protection	Offered system shall have battery level sensing facilities and shall prevent deep discharge of batteries by shutting itself in such an event	Yes	—
12	Back Up Time	30 minutes for each UPS,	Yes	—
13	Battery Type	12 Volt/26AH, Advanced glass mat valve regulated sealed lead acid battery construction (AGM or VRSLAB) in ABS flame retardant (UL94V-0) grade (UL 2436) spill containment casing to meet UL 62368-1 / IEC 62133 or equivalent standards type.	Yes	—

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NIT: SITC OF ONLINE UPS FOR NEW DVOR & HPDME AT COIMBATORE INTL AIRPORT AND ITS CAMC FOR FIVE YEARS.

Page 51 of 79





भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA



14	Alarm	Audible Alarm on Mains Failure & Low Battery (Continuous)	Yes	-
15	User Control Interface Features	UPS shall have provision of control mechanism with appropriate indications to control UPS operation in input on/off, output on/off and Bypass on/off. Monitoring display Panel shall indicate i/p, o/p voltage, frequency, power factor, on load, on battery and battery backup time left with LED's and audible alarm UPS ON, Mains ON, Battery operation, Overload.	Yes	-
16	Redundancy	Stand alone	Yes	-
17	UPS Monitoring	Shall monitor and support Self-Test, Overload	Yes	-
18	Warranty	Minimum of 3 year on site comprehensive warranty for UPS and 2 years for batteries	Yes	-
19	UPS Service life / AMC	Minimum 8 Years / 5 years after completion of 3 years warranty period for UPS	Yes	-
20	Battery rack	Suitable MS rack with Isolator switch	Yes	-
21	Communication	RS485, RS232, SNMP	Yes	-

Note: Necessary documents substantiating the specifications shall be attached with the Technical Bid.

3. PROCEDURE TO BE FOLLOWED BY THE TENDERER AFTER AWARD OF WORK

a. Contractor, on award of work, shall contact the AAI CNS-In-Charge & sign agreement on non-judicial stamp paper of appropriate amount.

b. A work-schedule chart/bar-chart indicating the time schedule for commencement of various activities of work like inspection & delivery of materials, commencement of work, completion of work, etc. required for the execution & timely completion of work shall be submitted by the tenderer to the CNS -in charge for approval within fifteen days of the date of acceptance of the tender.

c. It shall be the responsibility of the contractor to adhere to this work-schedule and complete the work in the specified time. Any deviation from this schedule, for any reason, shall be brought to the notice of the CNS -in charge immediately to enable the CNS -in-charge take corrective action for achieving the timely completion of work. Failure to submit the work schedule chart within the specified time or meeting the



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Price Schedule-Bill of Quantity

Sl. No	Item Description	Qty	Unit	Unit rate in Rs (Excl.GST)	GST %.	Total Amount in Rs (Excl.GST)
1	Supply of 05KVA (Minimum Wattage Required) 1Φ input and 1Φ output, High Frequency PWM, True On-line Double Conversion UPS, using IGBT block type with isolation transformers on both input and output side and suitable SMF battery for 30 minutes back up for each ups. Battery Rack/Cabinet for housing SMF Batteries with suitable two pole isolator. External active static transfer switch for selecting/switching either one of UPS output. Warranty 3 Years for UPS, 2 years for battery	2.00	Nos	76000.00	18.00	152000.00
2	Supply of 03KVA (Minimum Wattage Required) 1Φ input and 1Φ output, High Frequency PWM, True On-line Double Conversion UPS, using IGBT block type with isolation transformers on both input and output side and suitable SMF battery for 30 minutes back up for each ups. Battery Rack/Cabinet for housing SMF Batteries with suitable two pole isolator. Warranty 3 Years for UPS, 2 Years for battery)	2.00	Nos	45000.00	18.00	90000.00
Total in Rupees in Figures (Excl.GST)						242000

Note: Technical specifications mentioned in Tender document and their compliance to be ensured by the agency M/s Powerone Microsystems Pvt Ltd.

[Signature]
04/03/2021
Ramachandran P.B
JGM(CNS)
For Airport Director

रामचंद्रन पी.बी / RAMACHANDRAN P.B
संयुक्त महाप्रबंधक (सं दि जि) / JGM - CNS

Signature Not Verified

Digitally signed by M NAVANEETH

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कोयंबतूर /COIMBATORE-641014

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Email: apdcoimbatore@aai.aero

Date: 2021.09.15 17:35:21 IST
Location: eProcurement System for Central PSUs