

Schedules:

Particulars of the work	Purchase of Online UPS & Batteries
Due Date	20/06/2020 up to 05:00 PM.
Submission of Offer	Two Bid System: Two bid system will be followed for this tender. In this system the bidder must submit his offer in two separate sealed envelopes. Both the technical bid and commercial bid envelopes should be securely sealed and stamped separately and clearly marked as “Envelope No: 1 – Technical Bid” and “Envelope No: 2 – Commercial Bid” respectively.
Place of Submission	THE MEHSANA DISTRICT CENTRAL CO-OPERATIVE BANK LTD RAJMAHEL ROAD, NR.FUVARA, MEHSANA-384001(GUJARAT-INDIA)

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Eligibility Criteria:

1. Bidder should have a Turnover of Rs. 05 Crore (each year) in the last three financial year. The copies of Audited Annual Accounts for last three years shall be attached along with the bid.
2. The bidder must have one office in Gujarat. Please attach the copy of any two of the following: Property tax bill/Electricity Bill/Telephone Bill/VAT/CST Registration/Lease agreement.
3. The bidder should be authorized by its OEM to quote the bid. The offers received without the Manufacturer authorization certificate will be rejected for the products quoted.
4. The Manufacturer of the product (OEM) should be ISO 9001:2008 Process Certified for manufacturing. ISO certificates are required for UPS.
5. The Contractors / Tenderer should have relevant experience in supply of similar items.

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Terms and Conditions:

1. The Bidders are requested to give detailed tender in their **own forms** in two bids.
 - i. **Part-1 : Technical Bid**
 - ii. **Part-2 : Commercial Bid**
2. Tenders, which are submitted without following the two bid offer system will summarily be rejected.
3. The Bidder may quote only one option (i.e. Only one product can be quoted) against each item. Bidders are required to mention make and Model of the product.
4. The bidder will have to supply, install, maintain and provide training of supplied hardware, Operating Software and peripherals and carry out necessary integration at offices located all across Gujarat State.
5. In case the quoted Item is not available in the market, the bidder will have to supply Higher Version/replacement of that Item in the quoted cost in the same time duration with prior approval of bank
6. The Bidder has to examine all instructions, forms, terms, conditions and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.
7. Bid Currency – Prices shall be quoted in Indian Rupees only.
8. Price shall be inclusive of all freight, forwarding, transit insurance and installation charges.
9. Late Bids – The bidder will not be able to submit the bid after final submission date and time.
10. Delivery and Installation: Within 45 working days from the date of confirmed purchase order.
11. Incomplete bids will be treated as non-responsive and will be rejected.
12. All Technical Compliance should be on OEM's Letter head.

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Warranty:

- 2 year Comprehensive onsite warranty

Payment:

- 50% payment Against Purchase order
- 50% payment after successful delivery of the ordered goods.

13. Purchaser reserves the right to change any bid condition of any item even after inviting the bids, with/without prior notification.

14. Purchaser' Right to accept any Bid and to reject any or all Bids Bank reserve the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to awarding the Contracts, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for such decision.

15. Jurisdiction

- The disputes, legal matters, court matters, if any, shall be subject to Mehsana Court Jurisdiction only.

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Technical Specification:

Item No: 01 – Online UPS – 2 KVA

Sr.No.	Description	Compliance Y/N
1	UPS kVA	2 KVA
2	Power Factor	0.8 or better
3	Topology	Online
4	Output Waveform	Sinewave
5	Double Conversion Efficiency	>91% (2kVA) / 92% (3kVA)
6	Eco Mode Efficiency	>= 97%
7	Battery type	Flooded or VRLA
8	Charger Size	13A
9	Input Voltage Range (100% load)	160-285V
10	Input Voltage Range (50% de rated)	100-285V
11	Input Frequency Range	40-70Hz
12	Input Power Factor	0.98
13	Input Protection	Circuit breaker
14	Output Voltages	220, 230, 240V (Selectable)
15	Overload capacity	110% - Infinite, 125% - 1 minute, 150% - ½ minute, >150% to 175% - 25 line cycles, >175% - 5 line cycles
16	Output voltage THD	<3% with linear load
17	Crest Factor	03:01
18	Output frequency	50/60 Hz +/-3Hz
19	Form factor	2U Rack mounting
20	Operating Temperature range	0 to 40 ⁰ C with full load support (no de rating) 0 to 50 ⁰ C with 80% de rating
21	UPS Network monitoring	SNMP
22	UPS Paralleling	1+1
23	Bypass Type	Internal (automatic and manual)
24	Certification	BIS
25	EMI	CISPER22 Class A
26	EPO	Yes
27	Battery Reverse Polarity protection	Yes

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Item No : 02 – Online UPS – 3 KVA

Sr.No.	Description	Compliance Y/N
1	UPS kVA	3 KVA
2	Power Factor	0.8 or better
3	Topology	Online
4	Output Waveform	Sinewave
5	Double Conversion Efficiency	>91% (2kVA) / 92% (3kVA)
6	Eco Mode Efficiency	>= 97%
7	Battery type	Flooded or VRLA
8	Charger Size	13A
9	Input Voltage Range (100% load)	160-285V
10	Input Voltage Range (50% de rated)	100-285V
11	Input Frequency Range	40-70Hz
12	Input Power Factor	0.98
13	Input Protection	Circuit breaker
14	Output Voltages	220, 230, 240V (Selectable)
15	Overload capacity	110% - Infinite, 125% - 1 minute, 150% - ½ minute, >150% to 175% - 25 line cycles, >175% - 5 line cycles
16	Output voltage THD	<3% with linear load
17	Crest Factor	03:01
18	Output frequency	50/60 Hz +/-3Hz
19	Form factor	2U Rack mounting
20	Operating Temperature range	0 to 40°C with full load support (no de rating) 0 to 50°C with 80% de rating
21	UPS Network monitoring	SNMP
22	UPS Paralleling	1+1
23	Bypass Type	Internal (automatic and manual)
24	Certification	BIS
25	EMI	CISPER22 Class A
26	EPO	Yes
27	Battery Reverse Polarity protection	Yes

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Item No: 03 – 05 KVA UPS

Sr. No.	Features	Description	Compliance Y/N
1	Make		
2	Model		
3	Capacity (in kVA / kW)	5 kVA/ 4.5 kW 1-Phase Input / 1-Phase Output.	
4	Technology and Capability	<ul style="list-style-type: none"> • True Online configuration with double conversion UPS • Microprocessor /DSP based control, using IGBT devices and high switching frequency PWM (>15kHz) • Active Power Factor Correction (APFC) in converter to improve Input Power Factor > 0.98 • UPS should be designed at Rated output PF of 0.9 	
5	Input facility -Phases / Wires	1-Phase / 2-Wire & Gnd (Phase & Neutral + Ground)	
6	Input Voltage Range	160 - 280V AC (On Full Load)	
7	Nominal Input Frequency	50 / 60 Hz (Auto selectable)	
8	Input Frequency Range	40 to 70 Hz	
9	Input Power Factor	> 0.98 on Full Load	
10	Input Current Harmonic Distortion (THDi)	< 5% on full resistive Load	
11	Generator Compatibility	Compatibility to genset supply required	
12	Input Protection (Thru In-built 1P MCB)	Should be provided at the input of the UPS suitable for the full rated capacity of the UPS	
13	Nominal Output voltage	220/ 230/ 240VAC (Selectable)	
14	Output Voltage Regulation	±2%	
15	Nominal Output Frequency	50 / 60 Hz	
16	Output Frequency Regulation	+/- 0.05 Hz (Free Running / Self Clocked Mode)	
17	Output Wave Form	Pure sine wave	
18	Output Voltage Distortion (THDu)	<= 2% for Linear load	
19	Crest Factor	3 : 1 On Full Load (Minimum)	
20	Output Short circuit Protection	Electronic / Fused	
21	Transfer Time (Mode of operation)	Nil from Mains mode to Battery Mode	
		Nil from Battery Mode to Mains mode	
22	Transfer Time (Inverter to Bypass / Bypass to Inverter)	< 2 ms (Synchronized Mode)	

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23	Automatic & Bi-directional static by-pass (In-built)	Should be provided to take care of uninterrupted transfer of load from Inverter to bypass (under overload / fault conditions) & automatic retransfer from bypass to inverter (on removal of overload / fault conditions)	
24	Overall Efficiency (AC to AC) - Online (Double Conversion)	>= 94% (On Full R Load) & >= 98% in ECO mode	
25	Measurements (On LCD)	Input: Voltage / Frequency	
		Output: Voltage / frequency	
		Battery: Remaining time / Voltage	
		Load: Percentage / kW	
26	Fault Indication (On LCD)	Charger Failure	
		Battery Failed	
		Battery Low	
27	Indications (LED/LED)	AC indicator/Battery Mode of Operation / Bypass feeding the load / UPS Fault	
28	Audible Alarms	Battery Low beep / DC Fault beep/ UPS Overload beep/ o/p short ckt fault beep/ Shutdown beep	
29	Backup Required	Yes (mentioned in Commercial)	
30	Battery Bank Voltage	192 V DC	
31	Battery Bank VAh (Vendor to include battery sizing calculations with tender)	To be furnished by the vendor (Battery Charger shall be min. 10% capacity of the Battery Ah being offered)	
32	Batteries Type	Sealed Maintenance Free (SMF) - 12V Cells	
33	Battery Makes	To be furnished by the vendor	
34	Number of Battery Banks	Maximum Two Banks in parallel	
35	Battery recharge time (After complete discharge) to 90% capacity	8-10 hours	
36	Serial Communication RS232 Port (Option of USB Port should be available)	RS232 3 Port should be provided as standard in the UPS. However there should be provision for USB port also in the UPS	
37	Interface to NMS (Network Management System) - To be quoted as option	SNMP Card for connecting the UPS to LAN thru Ethernet port & monitoring thru NMS should be available (The cost of SNMP Card / NMS software to be quoted separately)	
38	Cold Start	UPS should start up	
		On AC Supply (Mains) without DC Supply (Batteries)	
		On DC Supply (Batteries) without AC Supply (Mains)	
39	Automatic Restart	UPS should start up automatically on mains resumption after battery low shutdown	
40	Operating Temperature	0 to 40 deg C	

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40	Operating Temperature	0 to 40 deg C	
41	Storage Temperature	-15 to 50 deg C	
42	Operating Humidity	0% ~ 95%RH (No Condensing)	
43	Operating Altitude	1000 m.a.s.l (meters above sea level)	
44	Type of Cooling	Natural Convection Cooling through air vents	
45	Noise Level	< 58 dbA at 1 meter distance	
46	Form Factor	Rack & Tower mountable	
47	Air Filters (mandatory)	UPS should have internal anticorrosion air filters for dust filtration	
48	Dimension (w x d x h) in mm	To be furnished by the vendor	
49	Weight - in kg	To be furnished by the vendor	
50	Product Certificates	IEC62040-1,	
		IEC62040-2,	
		IEC62040-3,	
		IEC 61000-4-3	
		IEC 61000-4-4,	
		IEC-61000-4-5,	
51	Manufacturer (Emerson/APC/Delta/GE)	QMS: As per ISO 9001: 2008	
		EMS: As per ISO 14001: 2004	
		OSHAS: As per ISO 18001: 2007	
52	Warranty	2 Years Comprehensive OEM Warranty	

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COMMERCIAL

Sr.No.	Description	Unit rate	Qty	Total	GST	Total with GST
1	2 KVA Online UPS with 2 years comprehensive onsite warranty		73			
2	Additional 01 year warranty for UPS					
3	Batteries for 5 hours back up with 2 year warranty					
4	3 KVA Online UPS with 2 years comprehensive onsite warranty		15			
5	Additional 01 year warranty for UPS					
6	Batteries for 5 hours back up with 2 year warranty					
7	Batteries for 1 hours back up with 2 year warranty					
8	5 KVA Online UPS with 2 years comprehensive onsite warranty		15			
9	Additional 01 year warranty for UPS					
10	Batteries for 1 hours back up with 2 year warranty					
11	Installation & Commissioning Charges					
12	Packaging & Forwarding charges. (if any)					
	Total					
13	Buyback of UPS					
	1 KVA (Emerson GXT MT+)					
	3 KVA (Emerson GXT MT+)					
14	Buyback of Batteries					
	100 Ah (Make: Amaron Quanta SMF Installation June-2017)					
	42 Ah (Make: Amaron Quanta SMF Installation June-2017)					
	Grand Total					

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Note:

- The price bid should be submitted only as per the above format. No row shall be left blank.
- Please indicate NA, in case the item is "Not Applicable".
- The firm should quote all the items as a whole package.