

OFFICE OF THE REGISTRAR
NORTH BENGAL UNIVERSITY



ENLIGHTENMENT TO PERFECTION

TENDER FOR 10 KVA UPS SYSTEMS FOR COMPUTER CENTRE, UNB.

The University of North Bengal requires 1 nos. 10 KVA online UPS systems with minimum **1 hour back up** for its Computer Centre. Accordingly, reputed vendors having post sale service/maintenance support at Siliguri are requested to submit their quotations in sealed covers (Technical and Commercial bits **separately**) addressed to "The Registrar, Raja Rammohunpur, P.O. North Bengal University, Dist-Darjeeling, PIN-734013", BY 05.11.2016. For further details please visit the university website: www.nbu.ac.in .

Advt. No. 99/ R-2016 Dated: 22.10.2016

Registrar (Offg.)

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Synopsis of the Tender:

1	REQUIREMENT OF 10 KVA UPS SYSTEMS FOR COMPUTER CENTRE, UNB.					
	a. Specification :	As per Annexure-I				
	b. Quantity :	01 unit				
2	General Terms and Conditions	As per Annexure II				
3	Cost of the Tender Document					
4	EMD	Tender documents can be downloaded by tenderers from the University website (www.nbu.ac.in) In that case, the cost of tender documents shall have to be deposited in the form of Bank Draft in a separate envelope along with the tender. Bidders shall submit EMD along with their tender, either by DD drawn in favor of University of North Bengal , for a sum of Rs. 10,000/- (Rupees tenthousand only) payable at SBI, NBU Campus Branch.				
5	Last date and time for issue of tender documents					
6	Last date and time for submission of sealed quotation					
7	Date and time for opening of the technical bid					
8	Date and time for opening of the financial bid					
9	Price Quoting Format					
	Sl. No.	Item description	Rate (INR)	Qty	Total (without tax)	Taxes applicable (plz. be specific)
	1	UPS make, series, model etc				
	2	Battery				
	GRAND TOTAL FOR UPS SYSTEM (1+2)					

<u>TECHNICAL SPECIFICATION FOR 10 KVA ONLINE UPS Systems</u>		
Sl No	Technical Parameters	
1	UPS Capacity	10 kVA UPS System
2	Topology	True On-line Double Conversion UPS
3	Output power capacity	9000 W
4	Input	
4.1	Voltage Range	190 - 478 VAC based on the load percentage
4.2	Frequency	50 Hz
	Frequency Range	46 to 54 Hz
4.3	Power Factor	≥ 0.99 at full load and nominal input Voltage And >.95 above 25% load
4.4	Current THD	< 5% (with full Load)
4.5	Isolation Transformer	only Inbuilt. To be connected at the input side of the UPS
5	Output	
5.1	Voltage	230 VAC
5.2	Voltage Regulation	+ / - 1%
5.3	Frequency (Free Running Mode)	50 Hz ± 0.1 Hz
5.4	Frequency (Synchronisation Mode)	45 to 55 Hz
5.5	Harmonic Distortion (THD)	≤ 2% (linear load) ≤ 5% (non-linear load)
5.6	Output Waveform	Sine wave
5.7	Crest Factor	3:1
5.8	Inverter Efficiency	≥ 90%
5.9	Power Factor	0.9 Lagging
5.10	Overload	101% - 109% for 5 minutes; 110% - 129% for 1 minute; 130%-150% for 10 Sec
5.11	System DC Voltage	≥288 VDC
6	Battery	
6.1	Battery Type	12 V Sealed Lead Acid Maintenance Free
6.2	Battery make	Exide
6.3	Back up time	30 Mins Backup
6.4	Charger	Built-in solid state three stage recharge (Constant Current, Constant Voltage with float charge) and with temperature compensation.
6.5		
6.6	VAH Required	≥12,096
7	Efficiency	
	AC/AC (overall efficiency)	≥ 94 % (at full Load)
8	Features	
8.1	Eco mode	Should be available
8.2	Overload capacity	Should be available
8.3	Converter mode	Should be available
8.4	Bypass parameters configurable	Should be available

8.5	Display	LCD Display
8.6	Bypass	Static Bypass should be provided
8.7	Cold Start	UPS shall start up On DC Supply without mains input
8.8	Automatic Restart	UPS should start up automatically on mains resumption after battery low shutdown
8.9	Self-Diagnosis	UPS should be capable to carry out self-test of Rectifier / Charger / Battery & Inverter sections during start-up
9	Mechanical	
	Ingress protection	IP 20
10	General	
10.1	Operating Temperature	0 to 45 Deg. C only for UPS
10.2	Noise level	< 55 dB @ 1 meter
10.3	LCD Display & Indication	Input Voltage; Output Voltage; Input Frequency; Output Frequency; Battery Charging / Discharging Level; Load Level; Input High / Normal / Low / Fail; Output Overload;
		Output Short Circuit; Output Fault
10.4	LED Display & Indication	Normal Mode
		Load on Battery
		Load on Bypass
		system fault
10.5	Audible Alarm	Mains Failure alarm; Low Battery Alarm; Overload; Fault;
		Bypass Mode; UPS Warning;
10.6	Bypass	Static Bypass
10.7	Maintenance Bypass	Available
10.8	DSP Based technology	Required
11	Communication Interface	
11.1	Serial Communication RS232 and USB Port (selectable)	RS232 Port and optional USB port
11.2	Interface to NMS (Network Management System)	SNMP Card for connecting the UPS to LAN
12	Certification	
12.1	ISO 9001 : 2008	Required
12.2	OHSAS 18001 : 2007	Required
12.3	ISO 14001 : 2004	Required
12.3	Performance	IEC 62040-3
13	Special provision need to be present/made in the UPS system	In any case, no raw (without system rectification) power from mains to be permitted to its connected equipment(s)

General Terms and Conditions (for 10 KVA UPS system for Computer Centre, UNB)

- 1) The University of North Bengal invites sealed quotations in two-parts from the reputed firms for the “SUPPLY OF `10KVA ONLINE UPS” as per the specifications given in Annexure-I.
- 2) The technical and financial bids should be submitted in two separate sealed covers, super scribing “Part –I Technical Bid for “SUPPLY OF 10KVA ONLINE UPS”, Tender No., due date and “Part-II Financial bid for “SUPPLY OF 10KVA ONLINE UPS”, Tender No., due date. Both the bids should be kept in a single cover by super scribing tender for “SUPPLY OF 10KVA ONLINE UPS”,sealed and addressed to the Registrar, University of North Bengal, P.O.-North Bengal University, PIN-734013,Offer sent through fax or any other means will not be accepted.
- 3) Incomplete and unsigned bids will not be considered.
- 4) All relevant technical literature pertain to items quoted with full specifications(Drawing, if any), information about the products quoted, including brochures if any should accompany the quotation.
- 5) A list of reputed clients to whom the vendor/company has supplied similar items to be furnished along-with the quotation.
- 6) Quotation should be valid for a period of 180 days from the date of tender opening and the period of delivery required should also be clearly indicated.
- 7) There will be at least three years warranty on both the UPS and UPS battery. Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the Purchase Order / Contract.
- 8) The kind of post-warranty support should be indicated.
- 9) Technical bid should contain EMD.
Bidders shall submit EMD along with their tender, either By DD drawn in favor of University of North Bengal, payable at SBI, NBU Campus Branch, for a sum of Rs. 10,000/- (Rupees Ten Thousand only). Tender without EMD in the envelope containing technical bid shall be summarily rejected. The EMD of unsuccessful bidders shall be returned within 30 days of the award of contract. The earnest money will be liable to be forfeited, if the tenderer withdraws or amends, impairs or derogates from the tender if any respect within the period of validity of his tender.
- 10) Please specify the Make/Brand and Name of the Manufacturer with address, country of origin.
- 11) Price quotation should be inclusive of all taxes, levy, etc. (net price).The price is to be quoted in INR only.
- 12) Bidders that doesn't manufacture the goods it offers to supply shall submit Manufacturer's Authorization .
- 13) Compliance for all the general terms and conditions as well technical specifications as per tender document to be furnished by signing on each page both at top and bottom of the pages.

14) No Sales Tax or any other Tax shall be payable by the university unless payment of the same is specifically mentioned by the suppliers in their bids and same is legally viable.

15) Technical Bid should contain compliance on all details and specifications of the equipment offered, delivery schedule, warranty, payment term, installation, training, post-warranty, user-list, service support WITHOUT PRICE and Financial bid should contain details of the price(s) of the item(s) quoted in the technical bid.

16) The installation and commissioning of the UPS system at the Computer Centre have to be carried out by the vendor/ company without any extra cost and within two weeks after receiving of the supply order.

17) No advance payment will be made. Payment, excluding caution money, shall be made within 30 days from the date of receipt, acceptance and satisfactory installation of equipment.

18) Suppliers should clearly define the mechanisms of post-warranty maintenance or support. Supplier should undertake to support the product for a minimum period of 5 years after expiry of the warranty period. Post Warranty AMC charges for a period of 5 years (annual bases) should also be quoted separately in the financial bid. However, it is not a binding on the part of the university to accept such offer for the post warranty AMC.

19) One set of operational, service/troubleshooting manuals and diagrams to be supplied with “SUPPLY OF 10KVA ONLINE UPS “

20) The duration of backup time should be minimum one hour.

21) Bidders shall note that University will not entertain any correspondence or queries on the status of the offers received against this Tender Invitation.

22) The University does not bind to accept the lowest quotation and reserves the right to reject or partly accept any or all the quotations received. The University also reserves the right to modify (to add or to subtract) the quantity of any or all of the items/components those are present in the tender document, without assigning any reason.

23) The vendors should have post sale service/maintenance support for UPS systems at Siliguri.