



**GAUHATI UNIVERSITY**  
**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**GopinathBordoloi Nagar, Guwahati-781014**  
**Telephone No.: 9954028440**  
**www.gauhati.ac.in**

NO.: GUIST/2017- 18/04

Date: September 23, 2017

**Notice Inviting Quotations(NIQ) Notification**

**Ref. No.GUIST/2017-18/04 Date: September 23, 2017**

Sealed quotations are invited from reputed manufacturer/vendors, dealers and suppliers for supply and installation of the attached list of items.

Technical Bid is to be submitted in an envelope (Envelope-I) super scribing clearly as Technical Bid and Financial Bid is to be submitted separately in a separate envelope (Envelope-II) super scribing clearly as Financial Bid. Both the Technical Bid and Financial Bid in two different envelope (Envelope-I & Envelope-II), must be put in to One Single Envelope super scribing Quotation for supply and delivery of “**ONLINE UPS AND UPS BATTERIES**”. The last date of submitting the quotations to the undersigned is 12.10.2017 upto 3 PM. Opening will be on 13.10.2017 at 2 p.m. The sealed quotations are to be submitted along with the earnest money of 2% of total quoted value in the form of DD in favour of The Registrar, Gauhati University, in the GUIST office on all working days till the last date and time, during office hours. Interested agency may download the detail NIQ Document from the website of Gauhati University ([www.gauhati.ac.in](http://www.gauhati.ac.in)). Payment of Rs. 1000/- in the form of DD in favour of The Registrar, Gauhati University as tender fee (non-refundable, separate DD) has to be deposited by the bidder.

**Quoted price should include extended warranty (AMC/CMC) upto five years**

Sd/-  
**Prof. Manab Deka**  
**Director, GUIST**

Copy to:-

1. Finance Officer, GU for information
2. System Administrator, with a request to upload in GU Website
3. GUIST Notice Board.
4. M/s Gulf Adv. Agency, Punbazar, for publishing the notice in the Assam Tribune in Classified Tender Section in its immediate next issue, and submit the bill for payment
5. Office file.

### **Terms and conditions:**

1. The “Terms and conditions” for supply and delivery of items, should be clearly indicated in the tender.
2. Vendors can download the NIQ from the GU website, but must deposit tender fee of Rs.1000/- (non-refundable) in form of a DD in favour of The Registrar, Gauhati University.
3. EMD against the total quoted value (Not on Unit Price) must be deposited through DD in favour of The Registrar, Gauhati University @ 2% of the total value (Not the unit price).
4. If the agency is not OEM, OEM authorization to quote against this NIQ must be submitted.
5. The Bidder should be a manufacturer or an authorised dealer of a reputed Manufacturer of UPS Systems and should have been in the business of sales and service of UPS Systems for last 10 years. Relevant Documentary evidence to be furnished.
6. Bidder should have successfully executed at least 05 (five) works of supply, installation & commissioning of On-Line UPS Systems deployed in any Government/ Public Sector department in Assam/North East, during last 10 years, each valued at minimum Rs. 1(one) crore. Completion Certificate and Purchase order copies for the above Purchase(s)/Work(s) from the client shall be submitted.
7. Bidder should have successfully executed works of maintenance of On-Line UPS Systems deployed in any Government/ Public Sector department in Assam/North East during last 07 years. Relevant supporting document must have to be submitted.
8. **Only vendors who have a local office or service centre in Assam and preferably in Guwahati can participate. Documentary proof of functioning of the office or service centre for last 3(three) years must be produced and the same will be verified.**
9. **Upon getting the purchase order the supplier must comply with the specification. Any deviation from the specification would result in cancellation of the purchase order and the cost involved in carrying back the goods would be borne by the concerned firm. In such a case the EMD deposited will be forfeited.**
10. **The right to accept or reject the tender without assigning any reason is reserved with the Gauhati University.**
11. **The right of not accepting the lowest offer is reserved with the Gauhati University (considering better specifications and quality of items under the NIQ on comparison).**
12. **Price quoted must be inclusive of transportation, cost of delivery the materials at Gauhati University and seven years extended warranty.**
13. **Gauhati University (GU) reserves the right to modify/ cancel the requirements without any further notice.**
14. **Quoted rates MUST be valid for at least 90 days- which is likely to be extended.**
15. All tax clearance certificates and Tax Registration certificates applicable in Assam must be attached.
16. The Bidder’s audited annual financial statements (balance sheet, Income statement) for the last three years shall be provided. Annual turnover must be of atleast 3 times of the Quoted Value.
17. Bidder must have previous experience of successfully executing minimum of two (2) similar nature contracts within the last two years, each of value not less than 70% of the current quoted value.
18. The Quotation must be submitted in two envelope system: A. Technical Bid: Detail specifications along with all relevant documents B. The price bid against the detail specifications. (Softcopies in CD must be put inside the envelopes).
19. Price bid will be considered only after its qualification in the technical bid system.

- 20. The bidder should not have been blacklisted or debarred from business at any point of time by any Govt./ PSU undertaking. Undertaking to this effect must be submitted.**
- 21. All specifications are minimal requirement.**
22. Date of opening of quotation is 13.10.2017 at 2 p.m. Representatives of the agencies may attend the Quotation Opening Meeting
23. Non-Conformity of the any of the terms and conditions will disqualify the Agency and price bid will not be considered.
- 24. All terms and conditions will be as per Gauhati University rules, regulations and decisions.**

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Date: September 23, 2017

**A. Specifications for online UPS:**

**A.1: TECHNICAL SPECIFICATIONS FOR 3 KVA TRUE ONLINE UPS WITH INBUILT ISOLATION TRANSFORMER AND 2-3 HOURS BACK-UP TIME**

Parameter	Required Specifications
<b>Rating</b>	<b>3 KVA/2.4 KW</b> IGBT based On-Line UPS with Inbuilt Isolation Transformer.
<b>Input AC Parameters</b>	
Input Voltage	160 - 280V
Frequency	50 Hz; Tolerance (45-55) Hz
<b>Surge Protection Device (Inbuilt)</b>	UPS should have <b>inbuilt</b> 1 Phase, Type 2 surge arrester ( <b>40kA</b> ) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equi-potential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. (Datasheet of SPD should be provided else bid will be rejected)
<b>Isolation Transformer (Inbuilt)</b>	UPS should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.
<b>Output AC Parameters</b>	
Rated apparent/active power	2000 VA / 1600W
Output Voltage	220/230 V AC
Frequency	50 +/- 0.5 Hz
Waveform	True Sine Wave
Over load	110% for 30 seconds, 125% for 10 seconds
Output Power Factor	0.8
<b>Indication &amp; Controls</b>	
<b>Display &amp; Level Indications</b>	LED mimic diagram + LCD Display with measurements (Input / Output / Bypass V & Hz, Battery V & capacity level indicator, Load % & level Indicator)
<b>Audio Alarm operation</b>	Suitable Alarms for Battery Operation / Overload
<b>Communication Ports</b>	1 x Intelligent-Slot (SNMP), 1 x RS232 Serial Port.
<b>Back-up Time &amp; Battery Bank Details (VAH Rating)</b>	12V, VRLA Sealed lead-acid Maintenance Free batteries for providing necessary back-up of <b>120 minutes</b> <b>4680 VAH for 120 minutes back-up with each UPS</b> <b>Battery Make: EXIDE/QUANTA/UPLUS/ROCKET</b>
<b>Environmental</b>	
Operating Temperature:	0 Degree C to 40 Degree C
Relative humidity	0% to 95%, non-condensing
Audible Noise	<50 dB
<b>Certification</b>	<ul style="list-style-type: none"><li>• CE Certification (confirming to IEC 62040-1 &amp; IEC 62040-2 Standards)</li><li>• ISO 9001, ISO 14001, OHSAS 18001 certified.</li><li>• RoHS Compliance</li></ul>
<b>After Sales Support &amp; Manufacturer's Credibility</b>	UPS OEM should have a dedicated Toll Free No./ 24 hrs active mobile ph.No. for service call logging & resolution (no. to be provided)

**A. 2: TECHNICAL SPECIFICATIONS FOR 5 KVA TRUE ONLINE UPS WITH INBUILT ISOLATION TRANSFORMER AND 2 HOURS & 3 HOURS BACK-UP TIME**

Parameter	Required Specifications
<b>Rating</b>	<b>5 KVA/4.5 KW</b> IGBT based On-Line UPS with Inbuilt Isolation Transformer.
<b>AC Input Voltage Range</b>	160-280 V AC, 1 Phase @100% load
<b>Surge Protection Device</b>	UPS should have <b>inbuilt</b> 1 Phase, Type 2 surge arrester ( <b>40kA</b> ) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equi-potential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. (Datasheet of SPD should be provided else bid will be rejected)
<b>Input Frequency</b>	50Hz $\pm$ 10% (Suitable for Generators)
<b>AC Output Voltage</b>	230 V AC, 1-phase $\pm$ 1% (Sine Wave Output)
<b>Output Frequency</b>	50 Hz $\pm$ 0.05 Hz
<b>Overload Capacity</b>	125% for 10 minutes, 150% for 60 seconds
<b>Harmonic Distortion</b>	< 2% (for linear loads) & < 5% (for non linear loads)
<b>Crest Factor</b>	Better than 4:1
<b>Isolation Transformer</b>	UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.
<b>Indications &amp; Audible Alarms</b>	Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low
<b>Digital Metering</b>	LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.
<b>Environmental</b>	
Operating Temperature:	0 Degree C to 40 Degree C
Relative humidity	0% to 95%, non-condensing
Audible Noise	<55 dB
<b>Battery Back-up &amp; Other Details</b>	The system must be capable of providing requisite battery back-up time of <b>120 minutes/180 minutes</b> using 12V, VRLA Sealed Maintenance Free Batteries. Required VAH : <b>10920 VAH</b> for 120 minutes back-up and <b>16800 VAH</b> for 180 minutes back-up <b>Battery Make: EXIDE/QUANTA/UPLUS/ROCKET</b>
<b>Certification</b>	<ul style="list-style-type: none"> <li>CE Certification (confirming to IEC 62040-1 &amp; IEC 62040-2 Standards)</li> <li>ISO 9001, ISO 14001, OHSAS 18001 certified.</li> <li>RoHS Compliance</li> </ul>
<b>After Sales Support &amp; Manufacturer's Credibility</b>	<ul style="list-style-type: none"> <li>UPS OEM should have a dedicated Toll Free No./ 24 hrs active mobile ph.No. for service call logging &amp; resolution (no. to be provided)</li> </ul>

**A.3: TECHNICAL SPECIFICATIONS FOR 10 KVA TRUE ONLINE UPS WITH INBUILT ISOLATION TRANSFORMER AND 2 HOURS & 3 HOURS BACK-UP TIME**

Sl No	Parameter	Required Specifications
1	<b>Configuration</b>	<b>10 KVA</b> On-Line UPS System with Inbuilt Isolation Transformer.
2	<b>Capacity</b>	<b>10 KVA/9 KW @ 0.9 p.f.</b> On-Line UPS with Inbuilt Isolation Transformer.
3	<b>AC Input Voltage Range</b>	160-280V AC, 1 Phase
4	<b>Surge Protection Device</b>	UPS should have <b>inbuilt</b> 1 Phase, Type 2 surge arrester ( <b>50kA</b> ) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equi-potential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. Max. continuous operating voltage, UC: 275 V AC

		Max. impulse discharge current (8/20) L/N, I <sub>max</sub> : 50 kA Voltage protection level, U <sub>p</sub> : < 1,3 kV (Datasheet of SPD should be provided else bid may be rejected)
5	<b>Input Frequency</b>	50Hz ± 10% (Suitable for Generators)
6	<b>AC Output Voltage</b>	230 V AC, 1-phase ± 1% (Sine Wave Output)
7	<b>Output Frequency</b>	50 Hz ± 0.05 Hz
8	<b>Overload Capacity</b>	125% for 10 minutes, 150% for 60 seconds
9	<b>Crest Factor</b>	Better than 4:1
10	<b>Isolation Transformer</b>	<b>UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.</b>
11	<b>Indications &amp; Audible Alarms</b>	Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low
12	<b>Digital Metering</b>	LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.
13	<b>Battery Back-up &amp; Other Details</b>	The system must be capable of providing requisite battery back-up time of <b>120 minutes &amp; 180 minutes</b> using 12V, VRLA Sealed Maintenance Free Batteries. Required VAH : <b>18000 VAH for 120 minutes &amp; 27000 VAH for 180 minutes</b> Battery make: <b>Battery Make: EXIDE/QUANTA/UPLUS/ROCKET</b>
14	<b>Certification</b>	<ul style="list-style-type: none"> <li>- <b>CE Certification</b>(confirming to IEC 62040-1 &amp; IEC 62040-2 Standards)</li> <li>- <b>ISO 9001, ISO 14001, OHSAS 18001</b> certified.</li> <li>- <b>RoHS Compliance</b></li> </ul> <b>Copies of the above certifications should be submitted with the technical Bid (compulsory).</b>
15	<b>After Sales Support &amp; Manufacturer's Credibility</b>	- UPS OEM should have a dedicated Toll Free No./ 24 hrs active mobile ph.No. for service call logging & resolution (no. to be provided)

**A.4: TECHNICAL SPECIFICATIONS FOR 15 KVA TRUE ONLINE UPS WITH INBUILT ISOLATION TRANSFORMER AND 2 HOURS & 3 HOURS BACK-UP TIME**

SI No	Parameter	Required Specifications
1	<b>Configuration</b>	<b>15 KVA On-Line UPS System with Inbuilt Isolation Transformer..</b>
2	<b>Capacity</b>	<b>15 KVA/13.5 KW @ 0.9 p.f. On-Line UPS with Inbuilt Isolation Transformer.</b>
3	<b>AC Input Voltage Range</b>	300 V - 470 V AC, 3 Phase
4	<b>Surge Protection Device</b>	UPS should have <b>inbuilt</b> 3 Phase, Type 2 surge arrester ( <b>40kA</b> ) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equipotential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. Max. continuous operating voltage, UC: 275 V AC Max. impulse discharge current (8/20) L/N, I <sub>max</sub> : 50 kA Voltage protection level, U <sub>p</sub> : < 1,3 kV (Datasheet of SPD should be provided else bid may be rejected)
5	<b>Input Frequency</b>	50Hz ± 10% (Suitable for Generators)
6	<b>AC Output Voltage</b>	230 V AC, 1-phase ± 1% (Sine Wave Output)
7	<b>Output Frequency</b>	50 Hz ± 0.05 Hz
8	<b>Overload Capacity</b>	125% for 10 minutes, 150% for 10 seconds OR higher
9	<b>Crest Factor</b>	3:1
10	<b>Isolation Transformer</b>	<b>UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.</b>
11	<b>Indications &amp; Audible Alarms</b>	Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low
12	<b>Digital Metering</b>	LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.

13	<b>Battery Back-up &amp; Other Details</b>	The system must be capable of providing requisite battery back-up time of <b>120 minutes &amp; 180 minutes</b> , using <b>12V, VRLA Sealed Maintenance Free Batteries</b> . Required VAH : <b>33,600 VAH for 120 minutes backup &amp; 50400 VAH for 180 minutes backup</b> Battery make: <b>Battery Make: EXIDE/QUANTA/UPLUS/ROCKET</b> Only single string battery bank to be used. (No paralleling of Batteries)
14	<b>Certification</b>	<ul style="list-style-type: none"> <li>- <b>CE Certification</b>(confirming to IEC 62040-1 &amp; IEC 62040-2 Standards)</li> <li>- <b>ISO 9001, ISO 14001, OHSAS 18001</b> certified.</li> <li>- <b>RoHS Compliance</b></li> </ul> <b>Copies of the above certifications should be submitted with the technical Bid (compulsory).</b>
15	<b>After Sales Support &amp; Manufacturer's Credibility</b>	- UPS OEM should have a dedicated Toll Free No./ 24 hrs active mobile ph.No. for service call logging & resolution (no. to be provided)

**A.5: TECHNICAL SPECIFICATIONS FOR 20 KVA TRUE ONLINE UPS WITH INBUILT ISOLATION TRANSFORMER AND 2 HOURS , 3 HOURS and 5 HOURS BACK-UP TIME**

SI No	Parameter	Required Specifications
1	<b>Configuration</b>	<b>20 KVA On-Line UPS System with Inbuilt Isolation Transformer..</b>
2	<b>Capacity</b>	<b>20 KVA/18 KW @ 0.9 p.f. On-Line UPS with Inbuilt Isolation Transformer.</b>
3	<b>AC Input Voltage Range</b>	300 V - 470 V AC, 3 Phase
4	<b>Surge Protection Device</b>	UPS should have <b>inbuilt</b> 3 Phase, Type 2 surge arrester ( <b>40kA</b> ) according to EN 61643-11. It should provide Lightning Protection (according to IEC 1312-1 and EN 62305) through equi-potential bonding and eliminate transient overvoltage, originating during atmospheric discharges or switching processes. Max. continuous operating voltage, UC: 275 V AC Max. impulse discharge current (8/20) L/N, I <sub>max</sub> : 50 kA Voltage protection level, U <sub>p</sub> : < 1,3 kV (Datasheet of SPD should be provided else bid may be rejected)
5	<b>Input Frequency</b>	50Hz ± 10% (Suitable for Generators)
6	<b>AC Output Voltage</b>	230 V AC, 1-phase ± 1% (Sine Wave Output)
7	<b>Output Frequency</b>	50 Hz ± 0.05 Hz
8	<b>Overload Capacity</b>	125% for 10 minutes, 150% for 60 seconds
9	<b>Crest Factor</b>	Better than 4:1
10	<b>Isolation Transformer</b>	<b>UPS output should be fully isolated by double conversion and inbuilt isolation transformer within the UPS cabinet itself. External transformer shall not be considered.</b>
11	<b>Indications &amp; Audible Alarms</b>	Mains On, Inverter On, Overload, Load On Mains, Load On Battery, Battery Low
12	<b>Digital Metering</b>	LCD display for measurement of AC Voltage, Battery voltage, Battery Current, Load Current, Output frequency.
13	<b>Battery Back-up &amp; Other Details</b>	The system must be capable of providing requisite battery back-up time of <b>120 minutes, 180 minutes &amp; 6 hours using 12V, VRLA Sealed Maintenance Free Batteries</b> . Required VAH : <b>50400 VAH for 120 minutes backup &amp; 67200 VAH for 180 minutes backup 144000 VAH for 6 hours battery backup</b>  Battery make : <b>EXIDE/QUANTA/UPLUS/ROCKET</b>
14	<b>Certification</b>	<ul style="list-style-type: none"> <li>- <b>CE Certification</b>(confirming to IEC 62040-1 &amp; IEC 62040-2 Standards)</li> <li>- <b>ISO 9001, ISO 14001, OHSAS 18001</b> certified.</li> <li>- <b>RoHS Compliance</b></li> </ul> <b>Copies of the above certifications should be submitted with the technical Bid (compulsory).</b>
15	<b>After Sales Support &amp; Manufacturer's Credibility</b>	- UPS OEM should have a dedicated Toll Free No./ 24 hrs active mobile ph.No. for service call logging & resolution (no. to be provided)

**B. Specifications for Batteries of Online UPS and Desk top UPS:**

<b>SL. NO</b>	<b>UPS RATING</b>	<b>AH</b>
B. 1:	1 KVA	12V 17 AH
B.2:	2 KVA	12V 26 AH
B.3:	3 KVA	12V 26 AH
B.4:	5 KVA	12V 26 AH
B.5:	6 KVA	12V 26 AH
B.6:	10 KVA	12V 42 AH
B.7:	15 KVA	12V 42 AH
B.8:	20 KVA	12V 65 AH

Sd/-  
(Manab Deka)