



File No.	NITT/F. No:015/HEFA/2019-20/IT/CSG	Date:	16-Feb-2021
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Firms Ref:

Date:

To

The Director,
National Institute of Technology,
Tiruchirappalli-620015.
Attention: HoD /CSG

SUB: SUPPLY & INSTALLATION OF 20KVA ONLINE UPS (Qty: 5 Nos.)

Terms and Condition:

1. The offers through post or hand delivery should be addressed to “**The Head, Computer Support Group, National Institute of Technology, Tiruchirappalli 620015, Tamil Nadu, India**” and should be sent in a sealed envelope superscribed “**QUOTATION FOR SUPPLY & INSTALLATION OF 20KVA ONLINE UPS (Qty: 5 Nos.) Ref. No.: NITT/F. No:015/HEFA/2019-20/IT/CSG**” so as to reach us **on or before 2:30 PM on March 09, 2021. Quotations / bids received after deadline will be rejected summarily.**
2. **EMD: Not Applicable**
3. **Permanence Guarantee / Guarantee / ePBG: 3% of Order Value for 24 Months (At the time of Placing PO)**
4. **Bid Validity: 60 Days.**
5. **Softcopy** of the filled in Tender document (provided by NIT-T) in MS-Word format should be provided in a CD/DVD media or USB drive and should be enclosed along with the tender cover (this will be used for preparing comparative statements. Note that scanned copy / handwritten documents / PDF files will not be accepted). If there is any dispute between Hard copy and Soft copy, Hard copy will be taken.
6. The quote should also accompany along with a covering letter in your company letterhead with contact information such as contact person name, postal address, email id, and mobile number with signature.
7. Delay / loss in postal transit or due to other reasons will not be NIT-T's responsibility.
8. Quote should come from OEM or authorized and Certified dealer or distributor or reseller for each of the product quoted. An authorization letter from OEM should accompany your quote, otherwise it may lead to rejection.
9. The O.E.M should be ISO Certified, be BIS Certified for design & Manufacture (ISO 14001 : 2015 & ISO 14001 : 2015 & OHSAS 18001:2007) and All the Products / Part Codes / Data Sheets should be listed in OEM's Global Web Site.
10. NIT-T is eligible for concessional **5% GST using Essentiality Certificate**.
Government of India has issued the following two notifications to this effect:
1. Notification No. 45/2017-Central Tax (Rate) dt. 14th November, 2017
2. Notification No. 47/2017-Integrated Tax (Rate) dt. 14th November, 2017
11. No revision of the price bid will be allowed once the price bids are opened.
12. Authorized signatory should sign on all the pages. Bids without authorized signatures will be rejected.
13. The Product should be deliver up to National Institute of Technology, Tiruchirappalli.
14. This is a single bid system. Both the technical specification and price bids would be opened at the same time.
15. Bidders are free to quote for more than one make / model / brand if required.

16. The National Institute of Technology, Tiruchirappalli reserves the right to accept or reject any quotations, and to cancel the bidding process, and reject all quotations at any time prior to the award of order without assigning any specific reason thereof.
17. **Liquidated damages:** If the bidder/supplier, after accepting the Purchase Order, fails to deliver any or all of the Goods within the period specified in the Order, NIT-T shall, without prejudice to other remedies under the Rules of Purchase, proceed to cancel the order or agree to accept a delayed delivery on the condition of payment of liquidated damages by the bidder / supplier a sum equivalent to 0.50% of the total cost as indicated in the Purchase Order (which will be deemed as agreed price) for each week or part thereof of delay until actual delivery or performance is completed and such penal charges shall be limited to a maximum of 5% of the total cost. Once the maximum is reached NIT-T may proceed on its own to consider the termination / cancellation of the order.
18. The supply should be in original OEM's packing. The packing should not be tampered. If tampered or if found duplicate, action will be taken against your firm and your firm's name will be deleted from our suppliers list.
19. **Service & Support:** Bidder / OEM must have Dedicated / Toll Free Number for Service Support.
20. **Escalation Matrix:** Bidder / OEM must provide Escalation Matrix of contact for Service Support.
21. The bidder has one Repair & Rectification Centre (RRC) in Tamil Nadu / Puducherry at least is preferable.
22. The Bidder has a service person at Trichy / around 250 KM radius distance from NIT-T is preferable.
23. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 3 days' time limit.
24. **Dispute clause:** Any dispute relating to the enquiry shall be subject to the jurisdiction of the court at Tiruchirappalli only.
25. **Total Amount** is inclusive of all (Installation, Commissioning, Packing, Forwarding charges, Freight & Transit Insurance charges) up to NIT-Tiruchirappalli-15.
26. The invoice / bill should have all the required details like NIT-T Purchase Order (PO) number, Make, Model, Price, Serial number, Warranty, Department name and Contact Person Name.
27. Quotation will be **opened on March 09, 2021 at 3:30 PM** at the Store and Purchase Section, NIT, Tiruchirappalli in presence of the tenderers or their representatives who may wish to be present. (Any change in the date, time and venue of the quotation opening will be informed to the bidders through telephone / E-mail)

ACCEPTANCE & CERTIFICATION

We accept the above terms and conditions and shall comply with them strictly.

Authorized Signature with Seal

NAME OF THE BIDDER:

POSTAL ADDRESS:

MOBILE:

EMAIL ID:

**TECHNICAL BID**

File No.	NITT/F. No:015/HEFA/2019-20/IT/CSG	Date:	16-Feb-2021
Subject	SUPPLY & INSTALLATION OF 20KVA ONLINE UPS	Quantity	5 Nos.

Sl. #	Category	Required Parameters	Bidder Values
1	Make & Model		
1.	Technology	True online double conversion technology UPS system with IGBT based rectifier / inverter	
2.	Capacity (Standalone)	20 kVA / 18 kW	
3.	Parallel Operation	Should support up to 4 UPS in Parallel Operation	
3.	Input Parameters:		
a.	Voltage	415 V AC, 3 Phase 4 Wire	
b.	Voltage Range	320 to 476 V AC at full load, 190 to 476 at 50 % load	
c.	Frequency	50 Hz	
	Frequency range	46 to 54 Hz	
d.	Power Factor at rated load	Unity at full load	
e.	Current Harmonic Distortion	Less than 5%	
f.	Isolation Transformer	Required (built-in) at input side	
4.	Output Parameters:		
a.	Voltage	230 V AC +/- 1%, 1-Phase (for IT load - Computers, Laptops, Printers, etc)	
b.	Frequency	50 Hz +/- 0.25 Hz (in Battery Mode) +/- 6% (in Sync)	
c.	THD Voltage	< 2 % for Linear Load ; < 5 % for Non Linear Load	
d.	Overload rating	105 to 109 % - 10 min ; 110 to 129 % - 60 sec ; 130 to 150 % - 10 seconds	
e.	Output waveform	Pure sinewave	
f.	Crest Factor	3 : 1	
g.	Power Factor	0.8 to unity within kVA / kW rating	
h.	Overall Efficiency	≥ 93% full load	
i..	Frequency Slew Rate	1 Hz / Sec (selectable)	

Sl. #	Category	Required Parameters	Bidder Values
5.	Battery Parameters:		
a.	Type	Sealed Maintenance Free Batteries (Exide / Amaron Quanta / Amarraraja preferred)	
		Specify the make of the battery	
		Specify the model of the battery	
		Specify the number of batteries quoted	
		Specify the AH rating of each battery	
b.	Voltage	12 V	
c.	End cell voltage	10.5 V per Battery	
d.	Float Voltage	13.5 V per Battery	
e.	Backup Time	1 Hour (60 minutes)	
f.	DC Voltage	288 VDC	
g.	VAH	min 34560 Vah (120 AH x 24 nos x 12V)	
h.	Battery Rack & Connectors	Powder coated battery rack / stand to be provide	
i.	Transfer time	UPS to Battery Mode : 0 ms (instantaneous switching)	
j.	Charger	Constant Voltage / Constant Current / Float Charging with Temperature Compensated Charger	
k.	Charging Capacity	10 % of the Battery AH Capacity	
6.	Bypass:		
	Static Bypass	inbuilt	
	Transfer time	< 4 ms in Sync Mode	
	Bypass parameter configurable via front panel	Required	
	Manual Bypass	Required (inbuilt)	

(Contd.)

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NAME OF THE BIDDER:

POSTAL ADDRESS:

MOBILE:

EMAIL ID:

**TECHNICAL BID**

File No.	NITT/F. No:015/HEFA/2019-20/IT/CSG	Date:	16-Feb-2021
Subject	SUPPLY & INSTALLATION OF 20KVA ONLINE UPS	Quantity	5 Nos.

Sl. #	Category	Required Parameters	Bidder Values
7.	LCD Display / Alarm / Protection		
a.	Metering	Input Voltage, Frequency	
		Output Voltage, Frequency, Current, Load level in %, Power	
		Battery Voltage, Level in %	
		Bypass Voltage, Frequency	
		Temperature	
		Event Log	
		Battery Test	
b.	Status Information	Normal, Bypass, Battery, Fault	
		Converter Mode, Eco Mode, Bypass Mode, Battery Mode	
c.	Fault / Warning Indication	Over Load, Charger Fail, Over Temperature, Inverter Fault, Short Circuit, DC low / High, Output Low / High, Fan Fail, Battery Disconnected	
d.	Protection	Input High / Low, Over Load, Short Circuit, Over Temperature, Battery Over Charge, Battery Deep Discharge, Back feed protection	
e.	Audible Alarm	Battery Mode, Low Battery, Over Load, Fault, Over Temp, Bypass Mode	
8.	Other Features:		
a.	Communication Port	RS 232 & USB - Should support Windows, Linux, Unix and MAC	
b.	SNMP Card	Optional	
c.	Cold Start	Required	
d.	Auto Restart	Required	
e.	EPO	Required	
f.	ECO Mode, CVCF	Features should be available in the UPS	
g.	Generator Compatibility	Required	
h.	Operating Temperature	0 to 45 °C	
i.	Storage Temperature	0 to 60 °C	
j.	Humidity	upto 95 %	

Sl. #	Category	Required Parameters	Bidder Values
L	UPS Dimension (l x b x h) in mm		
m	Battery Dimension (l x b x h) in mm		
n	Weight in kg		
o	Noise level	< 55 dB at 1 meter	
9.	Credential / Reports		
	IEC 62040-3 (performance)	Copies Required	
	JIS 8702C for battery	Copies Required	
10	Warranty	2 years warranty for the UPS and 2 years warranty for the battery from the date of installation	
11	AMC	AMC cost after the expiry of warranty	
12	Payment Terms	Payment will be made within 30 days from the date of installation if the files are in order.	

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Authorized Signature with Seal

NAME OF THE BIDDER:

POSTAL ADDRESS:

MOBILE:

EMAIL ID:

**PRICE BID**

File No.	NITT/F. No:015/HEFA/2019-20/IT/CSG	Date:	16-Feb-2021
Subject	SUPPLY & INSTALLATION OF 20KVA ONLINE UPS	Quantity	5 Nos.

S. No.	Description of item	Quantity (Nos.)	Unit / Base Price (Excl. GST)	Total Base Price (Excl. GST)
1.	20kVA online UPS (3 phase input 1 phase output) with minimum 60 min. Backup time <u>MAKE & MODEL:</u>	5 Nos.		
NIT-T is eligible for concessional 5% GST using Essentiality Certificate. Government of India has issued the following two notifications to this effect: 1. Notification No. 45/2017-Central Tax (Rate) dt. 14th November, 2017 2. Notification No. 47/2017-Integrated Tax (Rate) dt. 14th November, 2017		SGST	_____%	
		CGST	_____%	
		IGST	_____%	
		Any Other Charges (If Any)		
(In Words)		Total Amount (Rs.) ** (Inclusive of GST)		

** The Total Amount is inclusive of all (Installation, Commissioning, Packing, Forwarding charges, Freight & Transit Insurance charges) up to NIT-Tiruchirappalli-15.

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". If this format is not used or any column is left blank, then the bid will be rejected

ACCEPTANCE & CERTIFICATION

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Authorized Signature with Seal

NAME OF THE BIDDER:

POSTAL ADDRESS:

MOBILE:

EMAIL ID: