



NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI - 620 015
DEPARTMENT OF COMPUTER SUPPORT GROUP

File No.	NITT/F. No:014/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 100KVA MODULAR UPS

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 100KVA MODULAR UPS 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 Security / 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 100KVA MODULAR UPS	Quantity	1 Nos.

Sl. #	Category	Required Parameters	Bidder Values
1	Manufacturer		
a.	Make & Model Reference		
b.	Topology	Ture ON Line, Double Conversion, Hot Swappable Modular UPS with redundant based on 4 x 25 kVA Power Modules	
2	Modular System		
a.	Frame Size	125 kVA or 120 kVA	
b.	Populated	100 kVA	
c.	Each Module Rating	4 x 25 kVA (or) 5 x 20 kVA (or) 10 x 10 kVA	
d.	Hot Swappable Facility	Module should be ON Line Hot Swappable without transferring the loads to By Pass arrangement	
e.	Maintenance Bypass	Should be Inbuilt arrangement	
f.	Controller	Each Module shall have individual controller	
3	Input		
a.	RECTIFIER	3-phase, IGBT Based system	
b.	INPUT VOLTAGE	400 V AC, Three Phase, 50 Hz, Settable to 415V AC	
c.	Input Voltage Range (Ph-Ph)	400 V AC, $\pm 15\%$	
d.	Input Frequency Range	50 Hz, $\pm 10\%$	
e.	Input Current Harmonics (THDi)	< 3 % at rated load (without using additional Filters)	
f.	Input Power Factor	> 0.99 from 50% to 100% of nominal load	
g.	Dual input	Required	

SI. #	Category	Required Parameters	Bidder Values
4	Output		
a.	Inverter	3 Level IGBT Technology	
b.	Nominal Voltage	415 3Ph+N+PE	
c.	Output Voltage Variation (Static)	+ 1%	
d.	Frequency	Synchronized with input frequency or + 1% free run	
e.	Output Power kVA	100 kVA	
f.	Output Power kW Capacity	100 kW	
g.	Output Power Factor of UPS	Unity	
h.	Over load capacity	125% of rated load for 10 min 150% for 60 Sec with no bypass intervention	
i.	Total Harmonic Distortion (Voltage)	Less than 0.5% for linear load Less than 1% for non-linear load	
j.	Current Crest Factor	3:1 accordingly with IEC EN62040-3	
k.	Short Circuit Current	3 in	
l.	Wave form	Pure sine Wave	
5	Bypass		
a.	Inbuilt Automatic Static Bypass	Required as built-in	
b.	Maintenance/Manual Bypass facility	Required as built-in	
6	Switches		
a.	Switches Required	UPS should have Switches for Input, Output and Bypass	
7	Efficiency		
a.	Overall Efficiency	96% or More	

(Contd.)

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TECHNICAL BID

File No.	NITT/F. No:015/HEFA/2019-20/IT/CSG	Date:	16-Feb-2021
Subject	SUPPLY & INSTALLATION OF 100KVA MODULAR UPS	Quantity	1 Nos.

Sl. #	Category	Required Parameters	Bidder Values
8	Features		
a.	Display	User friendly 10 inch Touch Screen Display required	
b.	Measurements	The following Parameters shall be measured from the Display	
	Input		
c.	Current:	RMS value, Peak value, Peak Factor	
d.	Voltage:	Ph-N RMS value, Ph-Ph RMS value, Bypass Line Voltage	
e.	Power:	Nominal (VA), Active (W), Power factor, Frequency	
	Output		
f.	Current:	RMS value, Peak value, Peak Factor	
g.	Voltage:	Ph-N RMS value, Ph-Ph RMS value, Bypass Line Voltage	
h.	Power:	Nominal (VA), Active (W), Power factor, Frequency	
i.	Batteries	Battery Voltage, Charging Current, Discharging Current, Residual Capacity, Battery Operation time	
j.	DATA LOG.	Number of bypass intervention, Thermal protection interventions with date and time, Overloads, Number of Battery commutations, Number of total discharges, Overall time of Battery operation and mains operation	
9	BATTERY		
a.	Backup required	45 min Backup for 100 kVA load @ 0.8 PF	
b.	Battery Bank Capacity in VAH	Min 1,20,000 VAH or more (50 x 12V x 200AH)	
c.	No of Batteries	To be specified by the Vendor for (Option 1 & 2)	
d.	Batteries Make & Model	Exide / Amaron Quanta / Amararaja preferred (Option 1 & 2)	
e.	Battery Housing	Suitable Rack for batteries as per site condition	
f.	Cold Start Push Button	UPS must be able to be start up without the input mains, just using batteries	

Sl. #	Category	Required Parameters	Bidder Values
10	Communication interface		
	Simple Network Management Protocol (SNMP)	Required for Remote management / monitoring of the UPS	
11	Environmental		
	Operating Temperature	0 - 40 Deg C	
	Humidity	20 - 95% (non-condensing)	
	Ingress Protection Code / rating	IP-20	
12	Approved UPS Makes	Numeric/ APC / Emerson	
	Certifications & Standards		
13	Safety	EN 62040-1	
14	EMC/EMI	EN 62040-2	
15	Performance	IEC 62040-3	
16	UPS Dimension (l x b x h) in mm		
	Battery Dimension (l x b x h) in mm		
	Weight of UPS in Kg		
17	UPS Manufacturer's own Service centre	Should be available locally	
18	Warranty for UPS & Batteries	2 years warranty for the UPS and 2 years warranty for the battery from the date of installation	
19	AMC	1 year AMC cost after the expiry of warranty	
20	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 100KVA MODULAR UPS	Quantity	1 Nos.

S. No.	Description of item	Quantity (Nos.)	Unit / Base Price (Excl. GST)	Total Base Price (Excl. GST)
1.	100kVA Modular UPS & expandable to 120 kVA or 125 kVA (3 phase input 3 phase output) with minimum 45 min. Backup Time (4 x 25 kVA / 5 x 20 kVA / 10 x 10 kVA modules) <u>MAKE & MODEL:</u>	1 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 (In Words)		SGST	_____%	
		CGST	_____%	
		IGST	_____%	
		Any Other Charges (If Any)		
		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

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Authorized Signature with Seal

NAME OF THE BIDDER:

POSTAL ADDRESS:

MOBILE:

EMAIL ID: