



National Institute of Technology, Nagaland, Chumukedima,  
Dimapur, Nagaland-797103

## INVITATION LETTER

Package Code: TEQIP-III/nitn/66  
Package Name: UPS

Current Date: 19-July-2019  
Method: Shopping Goods

### Sub: INVITATION LETTER FOR UPS

Sir/Madam,


1. You are invited to submit your most competitive Sealed Quotations for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Online 3 Phase UPS (Detailed specifications given at Annexure I)	1	NIT Nagaland	YES
2.	Online UPS (Detailed specifications given at Annexure I)	1	NIT Nagaland	YES

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

### 3. Quotation

- 3.1 The contract shall be for the full quantity as described above.
- 3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price
- 3.4 Applicable taxes shall be quoted separately for all items.
- 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.6 The Prices should be quoted in Indian Rupees only. Goods/Equipments should be brand new.

  
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4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **60** days after the last date of quotation submission.
6. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
  - 6.1 are properly signed; and
  - 6.2 Confirm to the terms and conditions, and specifications.
7. The Quotations would be evaluated for all items together
8. Award of contract: The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
  - 8.1 Notwithstanding the above, the Purchaser 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 contract.
  - 8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
9. Payment shall be made in Indian Rupees as follows:

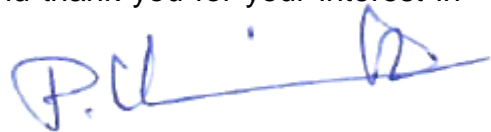
**Delivery and Installation - 90% of total cost**  
**Satisfactory Acceptance - 10% of total cost**
10. Liquidated Damages will be applied:
  - Liquidated Damages Per Day Min % : 0
  - Liquidated Damages Max % : 0
11. All supplied items are under onsite warranty of **Sixty (60)** months from the date of successful acceptance of items.
12. You are requested to provide your offer latest by **12:00** hours on **02-Aug-2019**.
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **Yes**
15. Testing/Installation Clause (if any) **Yes**
16. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly Indicating the model quoted for
17. The tender document shall be submitted/delivered in a sealed envelope bearing the following reference on the top left corner: **Package Code: TEQIP-III/nitn/66**  
**Dated: 19-07-2019** latest by **12:00** hours on **02-Aug-2019** and addressed to:  
**The Registrar, National Institute of Technology, Nagaland, Chumukedima, Dimapur, Nagaland-797103.**



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18. The bidder should furnish the certificate of GST registration, PAN, and IT Returns of last three years.
19. The Bidder should have experience of executing at least 1 (One) Purchase Order of Equipment/Machines from any IITs /NITs/ Central Govt. Institutions or Educational & Research Institutions of National Repute.
20. Vendors should clearly state the available nearest after sales service facilities in the region, without which their offers will be rejected.
21. The bidder should be the manufacturer or authorised dealer and, in such case, the certificate of dealership from the manufacturer should be produced.
22. **Performance Bank Guarantee (PBG):** The supplier shall furnish an unconditional PBG for 5% of the Purchase Order value for a period of one year from a scheduled Bank of India, within 21 days from the date of delivery and installation of the work. Where the PBG is obtained by a foreign bank, it shall be got confirmed by a Schedule Indian bank and shall be governed by Indian Laws and be subject to the jurisdiction of courts at Dimapur. The PBG shall guarantee that,
  - a) The Vendor guarantees satisfactory operation of the Equipment & components against poor workmanship, bad quality of materials used, faulty designs and poor performance.
  - b) The Vendor shall, at his own cost, rectify the defects/replace the items supplied, for defects identified during the period of guarantee.
23. The bidder should produce Audited statement of accounts for the last 3 years.
24. **Disputes and Jurisdiction:** Any legal dispute arising out of any breach of contract pertaining to this order shall be settled in the court of competent jurisdiction located within Dimapur in Nagaland.
25. **All the supporting documents should be attached with the quotation, without which the tender will be completed rejected.**
26. The Institute reserves the right to accept in part or in full any quotation(s) or reject any or more quotation(s) without assigning any reason or to cancel the tendering process and reject all quotation(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

We look forward to receiving your quotation and thank you for your interest in this project.



TEQIP-III COORDINATOR  
19-07-2019

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## Annexure I


Sr. No	Item Name	Qty	Specifications
1.	Online 3Phase UPS	1	20 KVA 3phase in/3 phase out UPS with Isolation transformer Using 20 nos130AH battery + MS Rack for batteries for 90 mins backup
<b>Technical Details of 20 KVA 3P UPS</b>			
<b>General Characteristics</b>			
Nominal Power( KVA)			20
Active Power(KW)			18
Technology			True online double conversion
<b>INPUT</b>			
Nominal Voltage			380/400/415 Vac3Ph +N+PE
Operating Voltage Range			323 – 478
Operating Frequency Range			45-55 Hz
Power Factor			≥ 0.99
Bypass Frequency Range			± 10%
Harmonic distortion (THDi)			≤ 5% at rated load
<b>OUTPUT</b>			
Output Voltage			380/400/415 Vac 3Ph +N+PE
Power Factor			0.9
Voltage Regulation			± 1% (balanced load)
Frequency (Online Mode)			50Hz ± 10% (with sync mode & adjustable)
Frequency (Battery Mode)			50Hz ± 0.1 Hz
Harmonic distortion (THDv)			≤ 2% with Linear Load ≤ 5% with Non-linear load
Crest Factor			03:01
Cold Start			available
Overload			≤ 110% for 60 min ≤ 125% for 10min ≤150% for 60 Sec
Efficiency			93%
<b>BATTERY</b>			
Battery Voltage			12 V , 130AH * 20 Number ( 31200 VAH)
Battery type			Sealed Lead Acid Maintenance Free
<b>COMMUNICATION</b>			
Standard			LCD Display, LED Indication, RS232 port, RS485 port, Dry Contact
Optional			SNMP Card, Relay Card BMS Card
<b>ENVIRONMENT</b>			
Operating Temperature for UPS	0 degree C – 40 degree C		
Relative Humidity Range	0-95 % (non-condensing)		
Noise Level	< 70dB		
			Onsite Warranty: 5 Years



2.	Online Modular UPS	1	<b>DESCRIPTION</b>	<b>SPECIFICATION</b>
			kVA	30 kVA Modular
			KW	30
			UPS Topology	On line double conversion VFI SS111
			In/Out phase Configuration	Three/ Three; Three/single ;single /three; single /single
			Neutral	Neutral Passing through
			Output twave form on mains run	Sinusoidal
			Output wave form on battery run	Sinusoidal
			Bypass type	Static and electro - mechanical
			Transfer time	Zero
			Modularity	6 nos 5 kVA Module
			Control Panel	Minimum 2 nos control panel required. So UPS can be taken in service partially with out changing the load in bypass.
			<b>INPUT</b>	
			Input Voltage	380,400,415 3 PH +N
			Voltage range	305- 477 V
			Operating Frequency	50 Hz/ 60 Hz (autosensing)
			Frequency Range	43-70 Hz
			THDi	< 3 % at 100 % of nominal load
			Isolation Transformer	At the Input side. External
			Input Power Factor	>.99
			<b>OUTPUT WITH MAINS (AC-AC)</b>	
			Nominal Voltage	380,400,415 3PH + N
			Nominal Power	30 kVA
			UPS Efficiency	Upto 96%
			Active Power	30 kW
			Voltage variation (static)	± 1%
			Voltage variation ( dynamic 0-100%;100-0%)	± 1%
			THDv on nominal power( linear load)	< 0.5 %
			THDv on nominal power(not linear load P.F= 0.7)	< 1%
			Nominal Output Frequency	50 Hz/ 60 Hz (autosensing)
Frequency Range	40- 70 Hz			
Frequency tolerance	Synchronized with input frequency or ± 1% free run			



			Current Crest Factor	3: 1 according with IEC C62040 -3
			Overload Capability:@ unity PF	
			10 min	115% load rate with no bypass intervention
			60 sec	135% load tare with no bypass intervention
			<b>OUTPUT IN BATTERY RUN (DC-AC)</b>	
			Voltage variation static	± 1%
			Voltage variation n (dynamic 0-100%;100-0%)	± 1%
			THDv on nominal power (linear load)	< 0.5 %
			THDv on nominal power (not linear load P.F= 0.7)	< 1%
			Frequency	50 Hz to 60 Hz (autosensing or selectable)
			Current Crest Factor	3: 1 according with IEC C62040 -3
			Overload capability: @0.9 LOAD PF	
			10 min	115% load rate with no bypass intervention
			60 sec	135% load tare with no bypass intervention
			<b>BATTERY</b>	
			Backup Time	120 mins on 15 KW load
			Type	SMF
			<b>Minimum VAH required</b>	<b>48,000</b>
			Charging Cycle	Intelligent with boost charge and advanced management
			Battery Make	Quanta / Exide
			<b>ENVIORNMENTAL SPECIFICATION</b>	
			Noise level @1m	46 dBA
			Working temperature range	from 0°C to + 40 °C
			Stock temperature range	from - 20°C to + 50 °C ( Excluded batteries)
			Humidity range	20-95% not condensing
			Protection Degree	IP 21
			<b>MECHANICAL and Miscellaneous</b>	
			Colour	RAL 7016
			Technology	
			Rectifier/Booster/Inverter	IGBT
			Communication Interface	2 serial Port RS 232, SNMP Enable
			Input /Output connection	3P + N + PE Connectors on omega bar

  
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		Standards	EN 62040 -1, EN 62040-2, EN 62040-3
		Certificates	CE
		Remote Monitoring Feature	Available
		<b>DISPLAY</b>	
		<b>INPUT</b>	
		<b>Current:</b>	RMS value, Peak value, Crest Factor
		<b>Voltage:</b>	Ph-N RMS value, Ph-Ph RMS value, Bypass Line Voltage
		<b>Power:</b>	Nominal (VA), Active (W), Power Factor, Frequency
		<b>Others</b>	Enable freq. Synchronizing, (PLL), Extended synchronizingrange, (Extended PLL)
		<b>OUTPUT</b>	415 V
		<b>Current:</b>	RMS value, Peak value, Crest Factor
		<b>Voltage:</b>	Ph-N RMS value, Ph-Ph RMS value
		<b>Power:</b>	Nominal (VA), Active (W), Power Factor, Frequency
		<b>Others</b>	Voltage, Frequency, Phases conguration
		<b>BATERIES</b>	Voltage, Capacity, Current, History data, Residual Capacity, Charging status
			Start up on Battery, Threshold value, Auto restart, Max Time on battery
		<b>BYPASS</b>	Enabling, Forced, DIP Speed, ECO Mode
		<b>MISLENIIOUS</b>	Internal Temperature, Fan Speed, HV DC BUS Voltage
		<b>DATALOGUE</b>	By-pass intervention, Overheats, Overloads, Battery interventions, Total discharge,
			Events (info, warning, critical), Alarms
		<b>Certification</b>	EN/IEC62040-1, EN/IEC 62040-2, EN/IEC 62040-3, UE Certificate. (Certificates to be provided with Offer)
		Onsite warranty: 5 Years	

  
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### FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: \_\_\_\_\_

To: \_\_\_\_\_

Sl. No.	Description of goods \ (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
<b>Total Cost</b>							

Gross Total Cost (A+B): Rs. \_\_\_\_\_

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. \_\_\_\_\_ (Amount in figures) (Rupees \_\_\_\_\_ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of \_\_\_\_\_ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.


We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact No: \_\_\_\_\_

  
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