



(Please mention "REF NO" in all documents)
LIMITED TENDER ENQUIRY (SINGLE BID)

REF No.: VNIT/STR/LT/EE/MVA/2018-19/68,

Date: 8 August 2018

To, _____

REF No. OF THIS LETTER MUST BE MENTIONED ON THE ENVELOPE CONTAINING YOUR QUOTATION

Subject: – Limited Tender Enquiry (Single Bid) for Procurement of "Three-Phase to Six-Phase Matrix Converter" for Electrical Engineering Department.

Dear Sir / Madam,

You are invited to submit your most competitive quotation for the supply of following items / goods as per time schedule of submission, terms and conditions mentioned below;

Schedule of Tender/ Bid Submission

Date of Issue : Wednesday, 08th August 2018
Last Date & Timing of Submission the Tender : Wednesday, 29th August 2018, Time 3.00 PM
Date & Timing of opening the Tender : Wednesday, 29th August 2018, Time 3.30 P.M.
EMD – Rs.5000/-

Item particulars

SN	Item particulars	Quantity
1	Three-Phase to Six-Phase Matrix Converter Detail specification as per Annexure-A	1 No.

[The bidder should offer / quote special educational discount for the Institute.]

GENERAL INSTRUCTIONS, TERMS & CONDITIONS

1. The vendor shall submit the tender/quotation enquiry in the Institute's prescribed format.
2. Bidder shall submit Firm's registration certificate, GST registration certificate, PAN, Delivery Period, Warranty/Guarantee, others etc with the bid.
3. The duties, taxes and other levies payable by the vendor shall be shown separately in bidding document. The basic price per unit should be separately mentioned in the given format at **Annexure-I**. Duties & taxes viz. Custom, GST, Freight / Transportation, Packing & Forwarding, Insurance, Price Ex-Works etc. shall be indicated separately in the given format only.
4. Each Vendor shall submit only one quotation. All the information shall be furnished by the vendors as per Institute prescribed format. Any other format will lead to disqualification. Each and every document should be submitted duly signed & stamped. Incomplete or Conditional Quotation(s) will not be accepted.
5. **Evaluation of Quotations:** The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
(a) Are properly signed; and (b) Confirm to the terms and conditions, and specifications.
6. The firm quoting for above mentioned items should be the authorized dealer of the manufacturer. Copy of authorization certificate should be enclosed with the quotation. Offer submitted without proper authorization shall be rejected summarily. The quantity mentioned in enquiry is and shall be deemed to be only approximate and will not in any manner be binding to the Institute.

Signature of Bidder with Seal & Date

7. The Prices should be quoted F.O.R. VNIT, Nagpur on delivery basis.
8. The rates quoted by the bidder shall be FIRM & FIXED and shall not be variable/subject to adjustment on any account.
9. **Educational Discount:** VNIT, Nagpur is a Govt. of India's Institute of National Importance engaged in education & research of National & International repute, the Vendors shall give / offer the special educational discount on quoted rates.
10. **Earnest Money Deposit (EMD):** Bidder shall submit EMD in form of Demand Draft / Fixed Deposit Receipt / Bank Guarantee in favor of "Director, VNIT Nagpur" payable at Nagpur. The EMD to be submitted strictly in a separate envelope super scribed with Vendor / Firm's name & address & also on back side of DD with stamp. **Bid received without EMD will be summarily rejected.** Firms / Vendors registered with the NSIC or MSME or SSI are having exemption from submission of EMD. Firms / Vendors registration certificate in above respect will be essential to claim exemption.
11. The Firm/Company Bank/RTGS/NEFT/ECS details must be submitted along with the Quotations/Tenders on the letter head.
12. Information brochures/Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
13. **Client List:** Bidder shall furnish information of Client list along with the order copy of similar good/s / equipment supplied to any IIT/NITs/ any Govt. Organization including details of price & all other charges / duties with the bid.
14. **Taxes:** GST or any other taxes as per Govt. norms shall be applicable from time to time. The % of Tax must be indicated separately in the quotation.
15. **Items for Research Purpose: Concessional GST @ 5% will be applicable for purchase of goods viz Scientific & Technical instruments and other required for the Research purposes only.** This is in accordance of Govt. of India, Ministry of Finance Notification 45/2017-Central Tax (Rate) dated 14th November, 2017 and 47/2017-(Integrated Tax (Rate) dated 14th November, 2017, and VNIT Circular Ref.- VNIT/Acct/2017-18-GST/5390 dated 27th November, 2017. The description of goods is given in Govt of India notification dated 14th November, 2017 mentioned above. A certificate in this respect will be issued to the vender by the Institute.
16. **Delivery of Goods** -Vendor shall deliver/supply the goods **within 4 (Four) weeks** period from the date of receipt of purchase order. Goods shall be supplied / delivered by the vendor / bidder at the installation site in concerned laboratory/ department of VNIT, Nagpur at free of cost on working days. Vendor shall deliver the material strictly as per the delivery schedule given in P.O., failing which **Liquidated Damages Clause** will be applicable.
17. **Liquidated Damages Clause:**
 - a) The Director, V.N.I.T. Nagpur reserves the right to recover from the vendor, liquidated damages a sum equivalent to 1/2 percent of the price of the undelivered stores at the stipulated rate for each week or part thereof, during which the delivery of such stores, may be delayed subject to, a maximum limit in the case of an order exceeding Rs. One Lakh in value, up to 10 percent and in the case of an order not exceeding Rs. One Lakh in value up to 5 percent of the stipulated price, of the stores so undelivered.
 - b) To purchase elsewhere, on vendor's accounts, at his risk, the stores etc. undelivered, or other of a similar description, where others exactly employing with the particulars, are in the opinion of the Director, Visvesvaraya National Institute of Technology, Nagpur are not readily procurable, without cancelling the contract, in respect of consignment not yet due for delivery.
 - c) If the Supplier fails to deliver the material/goods within the stipulated delivery period, then Amount of EMD given by the Vendor shall be forfeited. In case of Supplier [registered with MSME/NSIC/SSI etc.] not required to submit the EMD, the Institute reserves the right to initiate action including reporting to principal Govt. authorities.
 - d) To cancel the contract -
In the event of action being taken under (b) or (c) above, the vendor shall be liable to make good for any loss, which the Institute may sustain, by reason of higher price of items/goods, so purchased or the otherwise, howsoever:
The decision of the Director, Visvesvaraya National Institute of Technology, Nagpur shall be final as regards to the acceptability of stores supplied by the seller and the Director, Visvesvaraya National Institute of Technology, Nagpur, shall not be required to give any reason in writing or otherwise at any time for the rejection of stores.
18. **Valid Period of Quotation/offer:** The quotation/offer shall be normally valid for a period of 180 days from the date of opening the tender.

Signature of Bidder with Seal & Date

19. **Rate Contract:** If any of the items/ materials mentioned are already under the DGS&D rate contract, you are requested to give us the advantage of the contract rates as VNIT Nagpur is an Educational and Research Institute sponsored by the Government of India.
20. **Installation/Testing:** Goods / Equipments shall be delivered / installed at concerned laboratory / department of VNIT by the Bidder at free of cost. Installation & testing of good/s supplied should be completed preferably within 10 days of supply of good/s.
21. **Payment (Indigenous Item):** Institute will release the full & final (100%) payment after delivery of items and its successful installation/ demonstration at concerned department / laboratories of VNIT Nagpur. The vendor will be required to submit the bills in triplicate along with delivery memo. Payment will be made through Crossed Cheque / ECS / NEFT.
22. **Guarantee/Warranty:** Normal comprehensive **Warranty/Guarantee of 2 years** shall be applicable to the supplied goods. In case any part or whole of the equipment is found to be defective during the guarantee period, then the same will have to be replaced/repaired free of cost at VNIT by the vendor.
23. The vendor shall take full responsibility in case of any damage, loss or injury to any person / building or to any part thereof, and shall repair / and make good the loss, at his own cost.
24. It will be the sole discretion of VNIT to accept or reject the tenders/quotations in case of deviations, if any, from the technical specification.
25. Any certificate / document submitted by the vendor are found to be incorrect /false/ forged/ fake, intentionally / unintentionally at any stage, will lead to disqualification of vendor. Institute shall be free to take any action by blacklisting the vendors firm.
26. Bidder should enclose required documents/copies failing which quotation / tender will be disqualified.
27. **Any corrigendum/ amendment regarding this limited tender enquiry will be issued on the Institute website only [http://stores.vnit.ac.in]**
28. For any dispute, the place of jurisdiction shall be Nagpur, India only.
29. Director, VNIT, Nagpur reserves the right to accept or reject or cancel any or all enquires or quotations/PO at any stage without assigning any reason thereof.
30. **It will be presumed that the vendor has read carefully all the above mentioned instructions, terms & conditions and abide by same.**
31. Quotations received after the last date of submission will not be considered.
32. The Quotation in sealed envelope super-scribed with **“Limited Tender Enquiry for procurement of “Item Name” for “Department Name”** and to be sent to Dy. Registrar (Stores), Vlsvesvaraya National Institute of Technology, South Ambazari Road, Nagpur - 440 010, Maharashtra (India). The quotation can also be submitted in person in the **“Quotation/Tender Box”** at the Stores Section, VNIT, Nagpur - 440010 on any working day. **The last date of submission is Wednesday, 29th August 2018, by 3.00 P.M.** The vendors / firms name with complete address must be mentioned on the envelope.
33. **The date of opening the quotation/tender is Wednesday, 29th August 2018 by 3.30 P.M.**
34. All Communication are to be addressed to: –**DIRECTOR**, Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur - 440 010, Maharashtra (India)

Yours faithfully,

Sd/-

CHAIRMAN [SPC]

Signature of Bidder with Seal & Date

ANNEXURE-I
“PRICE/COMMERCIAL BID”

REF No.: VNIT/STR/LT/EE/MVA/2018-19/68,

Date: 8 August 2018

ITEM: “Three-Phase to Six –Phase Matrix Converter”

Sr. No	Item with Specifications	Qty	Basic Rate P.U. (Rs.)	GST % & Amount P.U. (Rs.)	Total Amount P.U. (Rs.)
1	“Three-Phase to Six-Phase Matrix Converter” (Specification as mentioned in enquiry)	1 No.			
	Educational Discount				
	Total Cost F.O.R. V.N.I.T. Nagpur				

[Note - The bidder should offer / quote special educational discount for the Institute.]

[A] DUTIES & TAXES (if applicable):

1. Custom Duty if any : _____
2. GST @ _____% : _____
3. Freight/ Transportation : _____
4. Insurance @ _____% : _____
5. Packing & Forwarding : _____
6. Others, (if any) : _____
7. **Final Offer (Including Installation Charges & Taxes) FOR VNIT Nagpur** : _____

[B] Others Details (Enclosed)

1. **EMD No. & Amount** : No.: _____ Dt. ____/____/2018 Rs. 5,000/-
2. Specification as per Requirements : Yes / No
3. Warranty/Guarantee : _____ Years
4. Delivery period : _____
5. Firms Registration Certificate : _____
6. Authorization Certificate : _____
7. Details of client lists : _____
8. GST Registration Certificate : _____
9. PAN / GST No. : _____
10. Others, (if any) : _____

Note: Price/Commercial Bid & other details should be furnished as per Institute’s prescribed format if failed, the Price / Commercial Bid is treated as unresponsive and will be disqualified.

The Firm/Company agrees to supply the above items for **final offer price (Rs. _____/- [In Words Rs.....) inclusive of duties & taxes at [A] above** within the period specified in the Invitation for Quotations. We also confirm that the normal commercial warrantee /guarantee of 24 months shall apply to the offered goods.

Signature of Bidder with Seal & Date

ANNEXURE-A

Tender Inquiry for Three-Phase to Six-Phase Matrix Converter

Specification of Three-Phase to Six-Phase Matrix Converter

1. Voltage rating: Input: 3-phase, 415V, 50 Hz
Output: 6-Phase, 0-330V, 0-50 Hz
Voltage Transfer Ratio: 0.776
2. Current rating: Rated current: 15A
3. Power Rating: 5kW at rated voltage and current
4. Converter Details:
 - a). Switches (IGBTs connected in common emitter mode):
 $V_{CE} = 900V$, $I_C = 75A$, $V_{GE} = 15V$, $f = 20$ kHz.
 - b). Gate Driver: $V_s = 16V$, $I_{out\ peak} = 15A$, Switching frequency: 50 kHz (with appropriate snubbers).
 - c). Ambient temperature: 40 Degree
 - d). Type of cooling: Forced Air
 - e). Protection: protection circuit for over current with LED indication at rated voltage.
 - f). FRC connectors should be provided to interface with the embedded/ DSP controller.
 - g). All the input/output lines should be terminated at the banana sockets.
 - h). Independent power supplies for all isolated circuits.
 - i). Three-phase synchronizing transformer (230/9V) – 1 no.
 - j). 3 nos. of Hall-effect current sensors with signal conditioning circuit provided for input three-phase current measurement and protection.
 - k). 6 nos. of Hall-effect current sensors to sense the output current.
 - l). Test points should be provided on the front panel to measure/monitor the voltage, current and PWM signals.
5. Mounting: All components should be housed in a 5mm transparent acrylic cutting embossing plate platform.