

## **NOTICE INVITING QUOTATIONS**

File No.	NITT/R&C/SEED GRANT/2023-24/PROJ.NO.8/1(A)	Date:	05-01-2024

То

Suppliers

Sealed quotations are invited from reputed Authorized Dealers / manufacturers for the supply of the Items.

Name of the Item	: SiC Power Converter		
Specification	: (As per enclosed: Annexure – I)		
1. Quotation Reference No.	: NITT/R&C/SEED GRANT/2023-24/PROJ.NO.8/1(A)		

- 2. Last date and Time for receipt of quotation : 26-01-2024 at 5.00 PM
- 3. Date &Time of opening of Quotation : 29-01-2024 at 2.30 PM (working date)
- 4. EMD Amount : 2%
- 5. Validity (Days) :120 days
- Address to which quotations are to be sent The Director,

National Institute of Technology,

Tiruchirappalli – 620 015, Tamil Nadu, India

Kind attention to : Dr.K. Sateesh Kumar/Assistant Professor/ EEE

Phone : <b>9441274524</b> .	
-----------------------------	--

- E-mail : sateesh@nitt.edu
- Quotations should be submitted for the equipment mentioned in Annexure I as per the format given in Annexure-II.
- 8. The envelope should contain the following details:

#### "QUOTATION AGAINST ENQUIRY: SiC Power Converter, NITT/R&C/SEED GRANT/2023-24/PROJ.NO.8/1(A) Kind attention to: Dr.K. Sateesh Kumar/ Assistant Professor/ Principal

Investigator/EEE/NIT-Trichy.

Last date and Time for receipt of quotation : 26-01-2024 at 5.00 PM

Terms and Condition

1.	The quotation must be in the format furnished by NIT Tiruchirappalli and should be free from corrections/erasures. In case there is any unavoidable correction, it should be properly attested. If not the quotation will not be considered. Quotation written in pencil and incomplete will be rejected.
2.	Earnest Money Deposit (EMD) is to be submitted by way of Demand Draft drawn on any Nationalized bank in India in favor of "The Director, NIT, Tiruchirappalli" payable at Trichy. The bids submitted without EMD will be treated as non-responsive and will be rejected. EMD shall bear no interest. Bidder must fill the EMD returning Form (Annexure-III) and submit along with the quotation. EMD amount of <b>2%</b> of estimate value is applicable, however <b>UDYAM &amp; NSIC</b> registered Micro & small enterprises are exempted as per Govt.norms proof to be attached.
3.	You are invited to submit your most competitive quotation for the supply of goods according to the specifications and delivery terms as given. Bank guarantee submitted for EMD shall be valid for 45 days beyond bid validity period.
4.	Bidders may send the quotations in sealed covers with the quotation reference number and last date for receipt of quotations duly super scribed on the cover. Kind Attention to: Dr.K. Sateesh Kumar/ Assistant Professor/ Principal Investigator/EEE/NIT-Trichy. NB: Mention the company Contact Number / E-mail id on the cover.
5.	Quotation will be opened on due date 29/01/2024 at 2.30 PM at the Research and Consultancy Section/EEE, 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)
6.	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.
7.	Manufacturer's name and country of origin of materials offered must be clearly specified. Printed brochures, Purchase preference is only for Micro & Small enterprises ( <b>MSE's</b> ) register in <b>UDYAM</b> Portal or <b>NSIC</b> as per Ministries policy for <b>MSE's</b> . Proof to be attached.
8.	Samples must be submitted where specified along with the quotations. Samples must be carefully packed, sealed and labelled clearly with enquiry number, subject and sender's name for easy identification. Rejected samples will be returned at your cost if insisted
9.	All supplies are subject to inspection and approval before acceptance.

	Manufacturer / supplier warranty certificates and manufacturer / Government						
	approved lab test certificate shall be furnished along with the supply, wherever						
	applicable						
10.	National Institute of Technology, Tiruchirappalli reserves the right to modify the						
	quantity specified in this enquiry.						
11.							
	certificate registered with DIPP should be enclosed)						
12.							
	Further Bidder should not send clubbing many tenders in one envelope, in such						
	case all the bids will be rejected.						
13.							
15.							
	a. The contract shall be for the full quantity Bidders must quote for entire						
	quantity. Each bidder shall submit only one quotation in Indian Rupee only.						
	b. Post work orders & completion certificate should be submitted, wherever						
	applicable.						
	c. The rates quoted by the bidder shall be fixed for the duration of the contract						
	and shall not be subject to adjustment on any account.						
	d. GST, packing, forwarding and delivering other allied items at the destination						
	shall be included in the price. All such price components may be shown in						
	the quotation. If there is no indication regarding above charges. It will be						
	considered as inclusive of all charges.						
	e. If any arithmetic mistake in total / GST calculation is observed, the						
	same shall be corrected by the purchaser with an intimation to bidder						
	f. In case the items in the enquiry are covered by any rate contract or any other						
	state or central Government, it should be specified in your quotation and						
	accepted contract rates should also be mentioned. It should be confirmed						
	whether you could supply at the RC rates outside rate contract						
	g. Quotations containing conditions like "subject to prior sale" may not be						
	considered.						
	h. Delivery period required for supplying the material should be invariably						
	specified in the quotation						
	i. Bids without quoting GST (unless exempted) will be treated as invalid						
	& disqualified.						
	j. If there is a discrepancy between unit price and total price, the unit						
	price will be considered. If there is any mismatch between figure and						
	word, the amount in word shall prevail.						
14.	<b>Evaluation of quotations:</b> Quotations will be evaluated item-wise or lump sum						
	basis. The purchase committee will evaluate and compare the quotations						
	determined to be substantially responsive i.e. (i) are properly signed; (ii)						
	conform to the terms & conditions and specifications; and (iii) price offered are						
	competitive.						
15.	Award of contract						
15.							
	a. The National Institute of Technology, Tiruchirappalli will award the Order for supply						
	of Goods / Services to the bidder whose quotation has been determined to be						
	substantially responsive, and who has offered the lowest evaluated quotation price.						
	b. The Bidder should furnish the contract agreement and performance security within						
	<b>15 days</b> from the date of receipt of the order for supply of goods / services, failing						
	which the order will be cancelled without further notice and awarded to next eligible						
	bidder.						
	c. Notwithstanding the above, National Institute of Technology, Tiruchirappalli						
L							

	<ul><li>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.</li><li>d. National Institute of Technology, Tiruchirappalli, prior to the expiration of the quotation validity period, will notify the bidder whose bid is accepted for the award of contract. The terms of accepted offer shall be incorporated in the purchase order.</li></ul>
16.	<b>Warranty:</b> <u>(As mentioned in Annexure-I)</u> shall be applicable to the supplied goods and installation work. Bidder should clearly indicate the arrangements for support and maintenance during the period for which the warranty shall be in force.
17.	<b>Performance Security:</b> Security deposit should be <b>3%</b> of purchase order value in case of Performance Bank Guarantee should be valid for 60 days beyond the guarantee & warranty. The successful bidder need to submit performance security (As mentioned in Annexure –I) of purchase order value either in the form of bank guarantee or crossed demand draft drawn on any Nationalized bank in India in favor of "The Director, NIT, Tiruchirappalli" payable at Trichy. The bank guarantee / Demand Draft will be returned to the supplier after 60 days from date of successful completion of supply, installation, and the warranty period.
18.	<b>Payment:</b> 100% will be paid after Installation and satisfactory working/date of completion of service if the documents are in order. The bill should be raised in favor of "The Director, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India." with institute GST No. 33AAATN5491Q1ZZ. No advance will be provided to the supplier and installer.
19.	Liquidity damages
20	If the bidder / supplier, after accepting the Purchase Order or supply of Goods / Services, fails to deliver any or all of the Goods or to perform Services within the period(s) specified in the Order, The National Institute of Technology, Tiruchirappalli shall impose penalty without assigning any reasons to 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 agreed price. Once the maximum is reached The National Institute of Technology, Tiruchirappalli, may proceed on its own to consider the termination / cancellation of the Order and may inform the bidder about the cancellation of the said purchase order. unless extension is obtained in writing from the office / Department on valid ground before expiry of delivery period
20.	If the deliveries are not maintained and due to that account Procuring Entity is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier
21.	Dispute clause: Any dispute relating to the Enquiring /Tender of the indented item shall be under the Hon'ble Court having its jurisdiction over Tiruchirappalli only
22.	Startup company exempted from Prior Turnover & Prior Experience (Startup certificate registered with DIPP should be enclosed)
23.	NIT Trichy has DSIR, so it's eligible for 5% in concession of GST and also exempted from Custom's Duty tax.

24. Performance Bank guarantee should be valid for 60 days beyond the guarantee & warranty and the BG submitted for EMD shall be valid for 45 days beyond bid validity period.
25. Bids submitted without EMD (unless exempted) will be treated as disqualified.
26. The successful bidder should submit Security Deposit/PBG within 15 days from the date of placement of order. The EMD shall be returned only after receipt of SD. If the bidder fails to deliver the material, then the EMD/SD shall be forfeited.
27. In LTE, bidder has to submit in sealed envelope (separate for each tender). Further Bidder should not send clubbing many tenders in one envelope, in such case all the bids will be rejected.

For any details / clarifications regarding could be obtained, Research and Consultancy Section/EEE from the National Institute of Technology, Tiruchirappalli on all working days during 10 AM to 5 PM.

For further detail kindly contact: Dr.K. Sateesh Kumar/Assistant Professor/

Principal Investigator/EEE/NIT-Trichy.

Phone	: 9441274524.
E-mail	: sateesh@nitt.edu

(NB: Mention the Contact Number / E-mail on the cover. Any change in the date, time and venue of the tender opening will be informed to the bidders through telephone / E-mail)

#### Enclosures:

Specifications of the equipment	Annexure - I
Price Format	Annexure - II
EMD Return Format	Annexure – III
Bank Mandate Form	Annexure – IV



# NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI - 620 015 DEPARTMENT OF ELECTRICAL AND ELECTRONICS

### Annexure- I

#### **Specifications of the Equipment**

SI. No.		Specific	ation of NIT-T	Specification of the Supplier	Reasons (if there is difference in specification)
1.	o.     Specific       1.SiC based Half br and Gate drivers for e 2.Isolated SiC Mosfe and Gate drivers for e 3. SiC NPC module drivers       Specifications of ease gate driver in the module S.No       Item       1       SiC Mosfet		t module with 06 switches		
	2	Gate Driver	<ul> <li>High power SiC Mosfet gate driver +15/-2.5 volts.</li> <li>Driver 3.3 and 5 Volts</li> <li>Pulse support upto 80 kHz switching frequency.</li> <li>Half bridge driver</li> <li>Inbuilt dead band</li> </ul>		

#### **Ref:** NITT/R&C/SEED GRANT/2023-24/PROJ.NO.8/1(A) **Date:**

	<ul> <li>Shoot through and short circuit protection.</li> <li>Fault output</li> <li>Buffered inputs for low noise under voltage protection.</li> <li>Power and fault indication LED upto 1000 Volts DC link 3000 V rms isolation</li> </ul>				
2.	Installation Yes				
3.	. Warranty (in Month) 12				
4.	Comprehensive AMC Charge per year No				
5.	Delivery Period (Weeks) 4 to 6				
6.	Shipment terms Up t	o NIT-T			
7.	Performance Security in % 03				

Signature & Seal of Vendor with Date



#### Annexure- II

#### PRICE BID FORMAT FOR BIDDERS

Tender No. & Date

Bidder's Offer No. & Date :

:

S. No.	Description of item	Unit (Set / No)	QTY	Rate / Qty in Rs. (excluding	GST in Rs.			Total Value + GST in
				GST)	SGST	CGST	IGST	Rs.
1.	Supply portion (The price indicated							
	shall be exclusive of all							
	accessories, spares							
	etc. as given in the							
	scope of supply)							
2.	Other accessories /							
	spares etc. as given in							
	scope of supply (Individual item-wise							
	break-up price shall be							
	attached as an							
	Annexure to this price							
	bid format.)							
3.	Installation and							
	Commissioning							
	(extra, if any)							
4.	Packing & Forwarding ch	- · ·		• /				
5.	Freight & Transit insurance charges, extra, if any							
6.	Total price (delivery, installation and commissioning at NIT-T)							
7.	Value of Annual Maintenance Contract							
8.	Net cost to be paid by NIT-T							

Signature & Seal of Vendor

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.

## NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI - 620 015 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### (TO BE PRINTED IN LETTER PAD OF THE FIRM)

<u>Annexure</u> – III

#### **EMD Returning Form**

То

The Director National Institute of Technology, Tiruchirappalli – 620 015

Sub: Returning EMD amount

Sir / Madam,

Our firm has participated in the tender / quotation enquiry No mentioned below and produced the EMD amount through DD, details of the DD are given below.

Tender / Quotation Reference No	
EMD amount	
DD Number	
DD issued Bank	
Date of DD	

It is requested to return the EMD amount to our firm after completion of the purchase to the below mentioned Bank account.

Account Name	
Bank Account Number	
IFSC code	
Bank	

Signature with Seal and Date

#### MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: / /

То

The Director, National Institute of Technology, Tiruchirappalli – 620 015, Tamil Nadu

Sub	:	Authorization	for release of	payment	/ dues from	n Natio	onal Institute of
		Technology,	Tiruchirappalli	through	Electronic	Fund	Transfer/RTGS
		Transfer.					

:

- 1. Name of the Party / Firm / Company / Institute :
- 2. Address of the Party
- 3. City\_\_\_\_\_Pin Code\_\_\_\_\_
- 4. E-Mail\_\_\_\_\_Mobile No:\_\_\_\_\_
- 5. Permanent Account Number\_\_\_\_\_
- 6. Particulars of Bank:

Bank Name:							Branch Name:										
PIN Code:						B	Branch Code:										
IFS Code:(11 digit alpha numeric code)																	
Account Type	Savings						Current					Cash Credit					
Account Number:																	

#### DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Director, National Institute of Technology Tiruchirappalli responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

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

#### Signature & Seal of the Authorized Signatory of the Party