



**NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI,
TAMIL NADU – 620015
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**NOTICE INVITING QUOTATION FOR PURCHASE OF MATLAB ADVANCED
LEVEL TOOLBOXES**

Enquiry Ref. No. : NITT/ F.No: NITT/FILE/NO.:021-024/PLAN/2015-2016/ECE- Matlab tool boxes

Date: 09.12.2015

- ✓ **LAST DATE AND TIME FOR SUBMISSION OF QUOTATION 21.12.2015 3.00 P.M**
- ✓ **TIME AND DATE OF OPENING OF QUOTATION 21.12.2015 3.30 P.M**
- ✓ **PLEASE SEND YOUR QUOTATION TO :**
THE DIRECTOR, NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-15

Quotations are invited for the supply of following Matlab advanced level Toolboxes, each 5 user licenses

- 1.Data Acquisition toolbox
- 2.Bioinformatics Toolbox
- 3.Antenna toolbox
- 4.Phased array system toolbox

Sealed Quotations are invited for purchase of Matlab advanced level Tool boxes for Department of Electronics and Communication Engineering, National Institute of Technology. Please send your lowest quotation for supply of the said item.

This Notice Inviting Quotation Consists of the following Sections:

Section I	Terms and Conditions and instructions to the prospective bidder/ Quotee
Section II	Technical specifications of the item to be purchased by NIT, Trichy
Section III	Format for submission of Price quotation

SECTION 1: TERMS AND CONDITIONS FOR PURCHASE AND INSTRUCTIONS TO THE BIDDERS

Name of the item proposed to be purchased	Matlab advanced level Toolboxes
Mode of tender	SINGLE BID SYSTEM (both Technical bid and Price Bid in one single envelope)
Last date and time for submission of Quotation	Quotations should be submitted on or before 21.12.2015 3.00 P.M. Quotations, must be sent sufficiently in advance so that it reaches us on or before the due date and time. Quotations received after closing date and time will not be considered.
Date and time of opening of quotation	Quotations will be opened on 21.12.2015 at 3.30 P.M., However, NITT reserves to right to extend the last date for receipt of tender and opening of quotation, in the event of lack of good number of responses.
Sealing and Marking of the ENVELOPE containing the quotation.	ON THE TOP OF THE SEALED ENVELOPE (CONTAINING YOUR QUOTATION) THE FOLLOWING MAY PLEASE BE MENTIONED: Quotation for the supply of Matlab advanced level Toolboxes item Enquiry reference number: NITT/ F.No: NITT/FILE/NO.: 021-024/ PLAN/2015-2016/ECE – Matlab tool boxes dated 09-12-2015 Name of the Department : Electronics and Communication Engineering Due date of submission of quotation: 21.12.2015
Address for sending the quotation	The Director, National Institute of Technology, Trichy -15 With Kind attention Name of the Purchase Initiator : Dr. M. Bhaskar Name of the Department : Electronics and Communication Engineering Phone Number 0431 2503310 E Mail ID : bhaskar@nitt.edu
Mode of submission of Quotation	Speed Post/ Registered Post / Hand delivery at the Tapal (Postal) section of the NITT, at the Administrative Building.
Price/ Rates	Price/ Rates quoted should be on Door Delivery Basis (i.e., F.O.R Destination Basis) and it should be inclusive of Packing Forwarding, Freight, Loading and Unloading, Insurance, Delivery and Commissioning charges if any
Compliance to Technical Specifications	Specifications are basic essence of the product. It must be ensured that the offers are strictly as per our specifications. At the same time, it must also be kept in mind that merely copying our specifications in their quotation shall not make firms eligible for consideration. The quotations should contain information on make, model, manufacturer, number, country of origin etc., of the goods offered. A quotation has to be supported with the printed technical leaflet / brochure / Templates and the specifications mentioned in the quotation must be reflected / supported by such printed technical leaflet / literature model quoted / tendered specifications should invariably be highlighted in the leaflet/ literature for easy reference. Further the bidder/ quote e may invariably specify the specification of their product in the same order as per the Indent of the NIT, Trichy. In case there is any variation and / or deviation between the goods and services prescribed by the NIT, T and offered by the bidder, the bidder shall list out the same in a chart form without any ambiguity

	and provide the same along with the tender. Bidder can quote for alternate model provided the alternate model meeting with our specifications.
DGS&D rate contract	If any of the items proposed to be procured under this tender is already under DGS&D (Director General of Supplies and Disposal) Rate Contract, the bidder may give us the advantage of rate contract rate, as ours is a premier educational and research institution sponsored by the Government.
Similar Supply	In case, had you supplied similar item or more or less similar item to any other department of NIT, T or to the same department of NIT, T, the same may please be indicated in your offer.
Reference supply	In case, had you supplied similar item or more or less similar item to premier educational institutions like that of IIT, other NITs, Deemed Universities, please enclose copies of their PO.
No over writing	The rates should be quoted both in terms of words as well as in terms of figure. Over writing should be avoided. However, all corrections must be duly authenticated.
Taxes and duties	Should be shown separately / explicitly.
Sales Tax/ VAT/ CST	NITT is not authorized to give C or D form. CST or VAT may be charged according to the applicable rates.
Discount offered, if any	Should be indicated explicitly
Excise duty	NITT is exempted from payment of Excise Duty in respect of procurements for research purposes. Necessary certificate will be furnished to the successful bidder.
Customs Duty	NITT is eligible for concessional rate of Customs Duty (i.e., 5.15%). Wherever necessary, certificate will be furnished.
Validity of the Offer	90 days from the date of submission of Bids.
Documents	Manuals/ Detailed Drawings/ Catalogues/ Leaflets/ Samples may be furnished wherever feasible/ required.
Warranty	The material/ goods/ articles/ equipment are to be warranted for a minimum period of one year from the date of supply or supply, installation and commissioning.
Performance Bank Guarantee	The successful firm has to submit a security deposit equivalent to 5% of the order value, in the form of Performance Bank Guarantee (PBG) and should be kept valid two months beyond the expiry of warranty period. In the absence of PBG, 5% amount will be withheld in respect of procurements upto Rupees one lakh. However, Suppliers registered with NSIC and DGSD rate contract holders are exempted from this security deposit.
Quantum of requirement	NITT reserve the right to increase or decrease the quantity indicated in the Notice Inviting Quotation.
Delivery Schedule	3 to 4 weeks from the date of Purchase order. All aspects of safe door delivery shall be the responsibility of the Supplier. The supplier shall be held responsible for any damage/ shortage in transit or otherwise and such value would be deducted from the bill unless or otherwise replaced by the supplier. Part delivery is not allowed.
Payment terms	No advance payment will be made and No part payment will be made. 100% payment will be made on receipt and acceptance of the goods. In case of the equipment, 100% payment will be made, after installation and commissioning. Every attempt will be made to settle the bills within 4 weeks from the date of safe delivery and acceptance by the NITT.
Mode of payment	Payment will be made through Account Payee Cheque or through NIFT/ RGTS

	transfer. For this purpose the successful bidder shall furnish (a) Name of the Bank and where the account exist (b) IFSC/ NEFT Code (c) Account Number (d) branch code (e) RGTS code (f) 9 digit MICR code appearing on the cheque book
For technical query, if any, please contact	Name of the Purchase Initiator : Dr. M. Bhaskar Designation of the Purchase Initiator: Associate Professor Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli-15 Contact Number : 0431 2503310
Billing instructions	Bill or Invoice should be made in Duplicate in favor of the Director, National Institute of Technology, Tiruchirappalli-15, Tamil Nadu, duly pre receipted on the bill for the bill amount. All the vendors should provide their PAN and TIN Number without with, quotation will not be considered.
NIT- T's right	NITT may reject all or any of the quotations, without assigning any reason
Attention	The suppliers/ vendors are informed not to call on us without prior appointment
Delay in submission of quotation	NITT is not responsible for delays/ loss in postal transit or due to any other reasons.
Dispute	In case of dispute, in connection with this purchase, will be settled amicably through Arbitration. The venue of arbitration shall be Tiruchirappalli. The Courts in Tiruchirappalli, only shall have jurisdiction to deal with and decide any legal matter or dispute what so ever arising out of this Purchase Order.

SECTION 2: TECHNICAL SPECIFICATIONS

S. No.	Description of Good / Material/ Consumable item/ equipment to be procured and technical specifications	Quantity of User Licences
	<p><u>Technical specifications</u></p> <p>1. Data Acquisition tool box</p> <ul style="list-style-type: none"> • Support for a variety of industry standard data acquisition boards and USB modules • Support for analog input, analog output, counters, timers, and digital I/O • Direct access to voltage, current, IEPE accelerometer, and thermocouple measurements • Live acquisition of measured data directly into MATLAB or Simulink • Hardware and software triggers for control of data acquisition • Device-independent software interface <p>2. Bioinformatics tool box</p> <ul style="list-style-type: none"> • Next generation sequencing analysis and browser • Sequence analysis and visualization, including pairwise and multiple sequence alignment and peak detection • Microarray data analysis, including reading, filtering, normalizing, and visualization • Mass spectrometry analysis, including preprocessing, classification, and marker identification • Phylogenetic tree analysis • Graph theory functions, including interaction maps, hierarchy plots, and pathways • Data import from genomic, proteomic, and gene expression files, including SAM, FASTA, CEL, and CDF, and from databases such as NCBI and GenBank <p>3. Antenna tool box</p> <ul style="list-style-type: none"> • Design of antennas in the frequency range of 50MHz to 100GHz • Design of dipole, meandered dipole, monopole, inverted F, rectangular loop, helix, yagi-uda, PIFA, and microstrip patch antennas are required • Design of linear and rectangular antenna arrays using antenna elements • Port analysis of impedance, return loss, and S-parameters of antennas and antenna arrays • Field analysis of the pattern, E-H fields, and beam width of antennas and antenna arrays • Surface analysis of current, charge, and meshing of antennas and antenna arrays • Antenna array analysis for the embedded element pattern and the correlation coefficient of the elements of the array • Infinite ground plane specification for analyzing balanced antennas <p>4. Phased array system tool box</p> <ul style="list-style-type: none"> • Multi function radar system modelling, including actively electronically scanned array (AESA) and passively electronically scanned array (PESA) • Radar theater models with moving targets, propagation channels, and interference such as clutter and jammers • URA, ULA, UCA, and conformal sensor arrays with perturbation and polarization effects • Continuous and pulsed waveforms, including frequency modulated and phased coded pulses • Digital beamforming algorithms for broadband and narrowband waveforms, including Capon and Frost • Direction of arrival (DOA) algorithms, including monopulse, beamscan, MVDR, Root MUSIC, and ESPRIT • Range and Doppler estimation and detection algorithms, including CFAR processing • Space-time adaptive processing (STAP) algorithms, including sample matrix inversion (SMI) and adaptive DPCA pulse canceller 	<p>5</p> <p>5</p> <p>5</p> <p>5</p>

SECTION 3: PRICE BID FORMAT FOR INDIGENOUS PURCHASES

(To be submitted under the letter head of the bidder)

Name and address of the bidder:

Permanent Account Number (PAN): (enclose self-attested copy)

VAT/ TIN Number: **Quotation must invariably carry, sales tax / VAT/ TIN Number**

CST Number (If applicable):

Service tax Registration Number (If applicable):

S. No.	Description of the item to be procured	Unit	Quantity	Basic Price in Rupees (Excluding all taxes and duties)	Excise Duty %	VAT/ CST in %	Service Tax in %	Total Amount in Rupees (Inclusive of all taxes and duties)
1	Main item (<i>Individual Item wise break up price may be indicated</i>)							
2	Additional / Optional items/ Accessories and Spares etc., if any							
3	Installation and Commissioning Charges, if any							
4.	Packing and Forwarding Charges, if any							
5.	Freight and Transit Insurance Charges, if any							
6.	Any other charges, if any							
7.	TOTAL ALL INCLUSIVE PRICE (Supplied or Supplied, installed and commissioned at NITT on door delivery basis. (i.e., F.O.R. Destination Basis)							

Authorized signatory of Bidder with Seal

Name.....

Designation.....

Note 1: The quotation must be neatly typed or computer printed.

Note 2: NITT is eligible for exemption from Excise Duty and Concessional Customs Duty. Please refer the tender document. As regards Service tax, As regards, sales tax NITT is not authorized to issue C or D forms for concessional VAT. However, it can issue end user certificate for claiming concessional TN VAT.

Note 3: Wherever necessary, Price bid Format should be supported with separate sheet duly typed and signed on the letter head of the bidding firm/ company indicating details i.e., different components/ parts/ units/ sub units of the item / material /equipment with number, name and price of each subunit/ part/ component.