

NATIONAL INSTITUTE OF TECHNOLOGY
GOA -403401

Single Tender Enquiry

Enquiry No: NITGOA/STE/ECE/2017-18/OW/ 717.

Date: 25/09/2017.

Important Dates

To

Event	Date	Time
Pre-bid Conference	-	-
Last Date of submission of quotation	03-10-2017	12:30PM
Technical Bid Opening date	03-10-2017	03:00PM
Financial Bid Opening date	03-10-2017	03:30PM

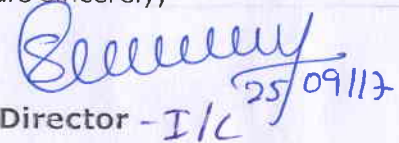
Dear Sir,

We intend to purchase the commodities specified below and invite quotations in accordance with the terms and conditions detailed in the bid document. If you are interested, kindly send your offer with prices and complete terms within the time mentioned above.

Please send your quotation to:

Director NATIONAL INSTITUTE OF TECHNOLOGY GOA-403401
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Yours sincerely,


25/09/17

Director - I/c

National Institute of Technology
Goa

Encl:

- (1) Schedule of requirement, specifications, dates etc.
- (2) Bid document containing detail terms and conditions.

1. **Schedule of requirements**

Sl. No.	Name of Equipment	No's Required
1.	Visual TCAD SOFTWARE	05 Users + 10 GUI License

2. **Specifications and allied Technical Details**

Enclosed at Annexure – I

3. **Format of Quotation (tick appropriate box)**

It is a Single bid; please give all technical specifications and price bid in one envelope.

OR

It is a two-part bid with separate techno-commercial and price bids. Please see item 1.12 of instructions for method of bidding.

4. The bid envelope should be super-scribed with

Single Tender Enquiry for Visual TCAD SOFTWARE Enquiry No. NITGOA/STE/ECE/2017-18/OW/ _____

5. Quotations should be valid for a period of 90 days from the closing date of the bid.

6. **Some important dates:**

i.	Pre-bid Conference:	Date: _____ - _____	Time: _____ - _____
ii.	Last date for receipt of quotation:	Date: 03-10-2017	Time: 12.30 P.M.
iii.	Opening of techno-commercial bid:	Date: 03-10-2017	Time: 03.00 P.M.
iv.	Opening of Financial bid:	Date: 03-10-2017	Time: 03.00 P.M.

7. **Warranty** as applicable must be provided.

8(a) **GST:** The Institute is not authorized to give C or D form. GST should be charge according to applicable rates.

8(b) **Entry Tax:** The State of Goa charges entry tax on all goods entering the State. Please include it in your quotation.

- 8 (c) **Custom and Excise Duty:** The Institute is authorized to give Custom and Excise Duty Exemption Certificate. **Custom and Excise Duty** should be charge accordingly.
9. **Bid Security** (See Item 2.8 of instructions): Nil/-
10. **Performance Security** (See Item 2.10 of instructions): **05%** of Total order value.
11. Please go through the enclosed "bid document" carefully for other bidding instructions.
- 12(a) Please send your quotations by Registered/Speed Post to:

Director
National Institute of Technology Goa -403401

OR

(b) drop the quotation in the office of the normal working hours of the Institute.

13. For clarifications if any, please mail to lig@nitgoa.ac.in

(Contd.)

**NATIONAL INSTITUTE OF TECHNOLOGY
GOA-403401**

BID DOCUMENT

1. Instructions to the bidders

- 1.1 Sealed bids are invited on behalf of the Director, National Institute of Technology (NIT), Goa – 403401, from the intending bidders for supply of the goods/stores/ equipments/ services for the Institute as detailed in the enquiry letter.
- 1.2 The bidders should quote the technical and financial bid separately in one envelope duly superscripted on the envelope as **Single Tender Enquiry Visual T CAD Software** and their offer/rates in clear terms without ambiguity.
- 1.3 The rates should be quoted both in figures and words and legibly written without any over-writings. In case of any correction, the same must be attested by the bidder with full signature. However, no over-writing is permissible. Manufacturer's price-list, where applicable, should be submitted along with the bid.
- 1.4 In case of any discrepancy between the rates in figures and that in words, the rate in words will be accepted as correct.
- 1.5 The last date for receipt of the bid is marked in the enquiry. In case the above date is declared a holiday for NIT Goa, and the bids will be received up to the appointed time on the next working day.
- 1.6 There may be a pre-bid conference in the office of the Department as per schedule given under at the top of the document. NIT Goa for clarifying issues and clearing doubts, if any, about the specification and other allied technical details of the plant, equipment and machinery projected in the bidding document. The prospecting bidders may attend this pre-bid conference at the appointed date, time and place. In case the said date is declared a holiday for the NIT Goa, the pre-bid conference shall be held at the appointed time and place on the next working day.
- 1.7 The bids may be sent by registered or speed post, so as to reach the office NIT Goa before the last date of receipt, or alternatively, be dropped in the office of the normal working hours of the Institute.
- 1.8 If a prospective bidder requires any clarification in regard to the bidding documents, he may mail to lig@nitgoa.ac.in.
- 1.9 Bids received after the deadline of receipt indicated in para 1.5 above, shall not be taken in to consideration.

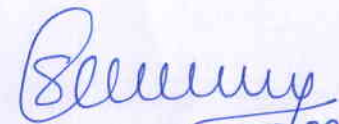
- 1.10 The cover containing the bid must be sealed and super-scribed "Single Tender Enquiry Visual T CAD Software vide Enquiry No. NITGOA/STE/ECE/2017-18/OW/_____ dated _____ as given under item of the enquiry.
- 1.11 The bids shall be opened in the office at the date and time given on the top of the document. The bidders may send their authorized representatives to attend the bid opening, if they so desire. In the event of the above bid opening date being declared holiday for the NIT Goa, and then the bids will be opened at the appointed time and place on the next working day.
- 1.12 The bidder has to put seal and sign in full at all pages of the bidding document including all annexures and price bid failing which the bidder will be disqualified.
- 1.14 The Director NIT GOA and its successors reserves the right to reject any or all tenders, wholly or partly or close the tender at any stage prior to award of contract without assigning any reason whatsoever.

2. Conditions of the bid

- 2.1 The rates quoted should preferably be net, inclusive of all taxes and duties, packing, forwarding, freight, Insurance and all other incidental charges mentioned separately.
- 2.2 The goods are required to be delivered at the indenting Department of NIT Goa, and must be dispatched within 21 days from the date of placement of the supply of order under the risk and arrangement of the bidder and offers with delivery beyond the above period shall be treated as unresponsive. In case the delivery time is higher, the same must be mentioned clearly in the quotation.
- 2.3 If insisted, samples shall be provided by the supplier at the entire cost and risk of the supplier. The installation of the equipments and training cum demo should be provided.
- 2.4 The bid should remain valid for a period of 90 days from the date of opening. In case your offer has a different validity period that should be clearly mentioned in the quotation.
- 2.5 Conditional discount, if any, offered by the bidder shall not be considered at the time of evaluation.
- 2.6 The goods offered should strictly conform to the specification and technical details mentioned in Para below.
- 2.7 The Institute may like to conduct pre-dispatch inspection of goods, where applicable.
- 2.8 Any Liability regarding GST will be of supplier of products.
- 2.9 Period of guarantee/warranty, where applicable, should be specified in the bid.
- 2.10 The successful bidder must furnish "Performance Security" for an amount specified in the enquiry, in the form of Account Payee Demand Draft, and/or unconditional Bank guarantee en-cashable on demand from the Director, NIT Goa, from a Commercial Bank with validity period of sixty days beyond the date of completion of all contractual obligations of supplier including guarantee/ warranty obligations. The Performance Security is to be furnished in favour of the Director, National Institute of Technology ,Goa, within ten days of intimation, failing which his bid security will be forfeited. Alternatively, fixed percentage of the cost of the stores as stated in the enquiry may be retained by the Institute in its Maintenance Fund towards performance security, which will be released One month after the completion of warranty period.
- 2.11 If the successful bidder, on receipt of the supply order, fails to execute the order within the stipulated period, in full or part, it will be open to the Director, NIT Goa to recover liquidated damage from the firm at the rate of 1 percent of the value of undelivered goods

per month or part thereof, subject to a maximum of 5 percent of the value of undelivered goods. Alternatively, it will also be opened to the Director, to arrange procurement of the required goods from any other source at the risk and expenses of the bidder.

- 2.12 The successful bidder may be required to execute a contract, where applicable.
- 2.13 Payment (*100 percent*) will be made by Account Payee Cheque/Bank Draft, within 30 days from the installation or receipt of the goods in good condition or receipt of the bill, commissioning of the equipment, where applicable, whichever is later/latest.
- 2.14 In the event of any dispute arising out of the bid or from the resultant contract, the decision of the Director, NIT Goa shall be final.
- 2.15 The Director NIT GOA and its successors reserves the right to reject any or all tenders, wholly or partly or close the tender at any stage prior to award of contract without assigning any reason whatsoever.
- 2.16 The bid document/resultant contract will be interpreted under Indian Laws.
- 2.17 Any disputes arising out of this enquiry shall be dealt in the Goa jurisdiction.
- 2.18 Criteria for Evaluation of Bid
 - a) Proof of establishment of Firms/shop/business/ manufacturing unit etc.
 - b) PAN No: (With photo copy) of firms/proprietor.
 - c) Photocopy of GST Registration Certificate duly renewed by corresponding commercial tax office.
 - d) Technical Specification
 - e) Quotation


25/09/17
Director - IIC
NIT-Goa

Annexure-I

Name of the Software: visual TCAD Software

Sl.No	Parameters	Vendor	
		Technical specification (YES / NO)	Remark
A.	<u>Professional Version Visual TCAD & Genius (2D/3D) Device Simulator Systems.</u> <u>Models: Visual TCAD GUI</u>		
1.	Device structure drawing tool		
2.	Circuit schematic capturing tool		
3.	GUI simulation controller		
4.	Visualization tool of simulation results		
5.	Spreadsheet		
6.	X-Y plotting tool		
7.	SPICE (Simulation Program with Integrated Circuit Emphasis) circuit simulation		
B. GENIUS 2D & 3D parallel device simulator			
1.	Drift-diffusion model:		
2.	Lattice heating model:		
3.	Energy balance model:		
4.	Density Gradient Quantum model:		
5.	DC,AC and transient simulation modes;		
6.	Circuit/ Device mixed simulation		
7.	Ray-tracing optical simulation;		
8.	Material library with 30 material types;		
9.	A wide range of mobility models;		
10.	Impact ionization model;		
11.	Band-to-Band tunneling model;		
12.	Carrier trapping at defects;		
13.	Hall effect;		
14.	3 D Ray-tracing optics;		
15.	2D FEM Optics;		
C.	Gds2Mesh 3D TCAD model construction tool		
	Device model generation from GDSII mask layout and process.		

1.	Constructive 3 D geometry engine;		
2.	Create 3 D Structure by extruding mask polygons		
3.	Extract 2 D polygon graph from GDSII file:		
4.	Build and modify poygon graph with scripting		
5.	Boolean operation of 2 D graphs and 3D objects:		
6.	Customizable process rules with scripting:		
7.	Python programming interface		
8.	Masked doping profile placement		
9.	High-quality tetrahedral mesh		
10.	Export Mesh in popular data formats		

Note: The above format should be on letter head of the firm with the signature of Authorized Signatory.

Price Bid

S.No	Name of item with Description	Rate/Unit	Quantity in terms of License	Total in Rs.
<u>1</u>	Visual T CAD Software (Technical specification as per annexure I)		05 users + 10 GUI ,	
Total				
Taxes				
Installation charges, Training charges/Demo charges (if any)				
Others charges if any, please specify				
Grand Total Amount in Rs.				

Note: The above format should be on letter head of the firm with the signature of Authorized Signatory