



Central Purchase unit

National Institute of Technology Srinagar (J&K) -190006

Tel:- 0194-2424792/2429423/2424809/2424797 Fax:- 0194-2420475

Document for Tender Notice No. 08 of 2018 Dated 28.06.2018.

"Tender Notice for Invitation of bids for the supply of 5 Megapixel Optical Blue Light 3D Scanner for Mechanical Engg. Department.

-0-0-0-

1. Sealed Bids are invited for the lab equipment having detailed Specifications as given in Annexure -A. in two bid format on the terms & conditions given from para-2.
2. **Envelope- A (Techno-commercial Bid) Containing the following documents:-**
 - (a) Original equipment manufacturer proof.
 - (b) Proof of being Distributor/Marketing agent/ Authorized dealer in the shape of copy of agreement and registration under law in force.
 - (c) PAN card of the firm.
 - (d) Tax registration
 - (e) Proof of annual turnover of the firm for last three years which shall not be less than Rs.3.00 Crore to be proved by way of copy of audited accounts and income tax returns of 3 years.
 - (f) Proof of availability of after sale support/service.
 - (g) Bid security for Rs. 2.00 lac in the form of CDR/TDR in favour of Officer In-charge, Central Purchase Unit NIT Srinagar (J&K) and tender document fee Rs.1,000/- in the form of DD, in favour of Director, NIT Srinagar. Tender without CDR/document fee shall be rejected.
 - (h) Proof of legal status.
 - (i) The bidder shall fill in Bid form in the format given in Annexure-B, Technical specification Schedule as per Annexure-C.
 - (h) List of users of the said equipment.
3. **Envelope-B (Price Bid), Containing the following:-**
 - (a) Bid prices must be quoted both in words & figures. The rates quoted should be covered with transparent tape.
 - (b) The rate quoted should be FOR NIT Srinagar (J&K).
 - (c) Bid price should be without over writing. However minor over writing should be clearly signed by the bidder. In case of any discrepancy between price quoted in figures and words, the price quoted in words will prevail. Bid price should be firm for the bid validity period.
 - (d) **All duties, taxes and levies (GST or other charges) payable, must be quoted separately.**
 - (e) **As per SRO 129 of Government of Jammu & Kashmir, the institute is Exempted from state entry tax. The Institute will provide Entry tax exemption certificate to successful bidder with supply order. The Institute is also exempted from Custom/Excise duty.**
 - (f) Price bid schedule in the format enclosed in Annexure-D
4. **Validity of Bids**

Bids shall remain valid at least for 120 days from the date of opening of the bids.
5. **Evaluation of Bids.**
 - (a) The purchaser shall evaluate and compare the bids which are found Responsive. i.e
 - (i) Properly signed.
 - (ii) Conform to terms and conditions and technical specifications.
 - (iii) Accompanied with Bid security and all other documents.
 - (b) Bids shall be evaluated separately for each item.
6. **Award of contract**
 - (a) Contract shall be awarded to the bidder whose bid is commercially, technically responsive and offered at lowest evaluated price.

(b) Successful bidder shall be notified about the award of the contract through a supply order where in terms and conditions of supply shall be incorporated.

7. Payment.

Payment to foreign manufacturer can be made through LC as per approved terms and conditions of GFR-2017. For Indian bidders 80% payment shall be made against delivery of equipment at NIT Srinagar in good condition and found as per prescribed specifications and 20% after successful installation/ commissioning and training of the staff if required..

8. Warranty and after sale service:

(a) All items shall carry comprehensive standard warranty of two years from the date of commissioning and service support after expiry of warranty.

9. Performance security.

(a) Performance security shall be retained for the amount as mentioned in the award of contract letter/supply order. However it shall not exceed 10% of the contract value.

10. Settlement of disputes.

Settlement of disputes if any shall be subject to the jurisdiction of Srinagar Courts only.

11. Liquidated Damages.

If the bidder after accepting the purchase order of goods/equipments or services, fails to deliver any or all of the goods/equipments or to perform the services within the specified period, a penalty of 0.50% (half percent) of the price value of the item per week or part thereof shall be imposed. The maximum penalty shall be limited to 10% of the cost. Once maximum is reached NIT Srinagar shall proceed on its own to consider the termination of the supply order, on the risk & responsibility of the defaulting bidder.

12. Submission of Bids.

(a) ***The last date for submission of bids is 25.07.2018 upto 16.00 hours.***

(b) Bids should be properly sealed.

(c) The two envelopes A & B should be separately sealed and superscripted as Techno-Commercial Bid & Price Bid, due date of submission, Name of equipment. These two sealed envelopes should be sealed in a bigger Envelope with the address of the Tender receiving Officer & Tender No.

(d) Bids should be addressed to Officer In-charge, Central Purchase Unit NIT Srinagar (J&K)

(e) Bids not from Srinagar shall be dispatched sufficiently well in advance so as to reach the destination as per scheduled time & date. NIT Srinagar shall not be responsible for any delay by posts Deptt. or Courier agency.

13. Bid opening.

(a) The Technical Bid (Envelope- A) will be opened first and Price Bid (Envelope-B) of the qualified bidders will be opened subsequently. Interested bidders can attend the Bid opening.

14. Custom clearance will be responsibility of the supplier, however, Institute. will pay custom on Line through on line portal (Indian Customs EDI Gateway)

15. Notwithstanding above, the purchaser reserves the right to reject any or all the bids received in response to this N.I.T. or withdraw it without assigning any reasons thereof.

Officer In-charge
Central Purchase unit, NIT Srinagar

N.B.

1. Before preparing your valuable bid kindly go through the document fully and take care of all the requirements.
2. Bidders from outside Srinagar may please send their Bids well in advance so that these are received in time.

No. NIT/CPU/Mech/18/4132-40

Dated 28.06.2018

Annexure-A
Details of Equipment:-

	Item: 5 Megapixel Optical Blue Light 3D Scanner	Qty	Delivery Period
Technology	Blue Light Optical 3D Scanner.	01 No	60 days After date of issue of supply order.
Camera Resolution	5 Megapixels or better with single Camera & Projector		
Acquisition time per view	2 Sec.		
Light source	Blue light/LED with minimum 20000 hours of life span		
Stand-off Distance	Common or fixed for all measuring volumes for easy operations		
Field of Vision	The system should be modular and upgradeable with possibility of additional lens sets/ optics etc. for obtaining different FOV and to upgrade system to a higher resolution.		
Measurement Volume	Measurement Volume- 74 x 62 x40 mm ³ , 260mm x 215 x 140 mm ³ , 480 x 400 x 250mm ³		
Automated Rotary positioning System for 3D directional scanning	Diameter of base plate: 380mm or higher Minimum Load: 100 Kg or better Resolution: 0.05° Rotation Speed: 10°/ Sec Scanner should have <ul style="list-style-type: none"> - The system should be easy and simple to setup with the possibility to change only the lenses for adopting different FOV. - There should be no manual setting of focus at both projector and camera lenses. - The system should be equipped with guided pointers for visualizing the optimum measuring distance. - 10 meter sensor cables & Power supply - The system should have ability to calibrate for the entire measurement volume and applicable calibration plates to be supplied. - The calibration process should be simple & should not take more than ten steps. - Set of objective lenses depending on the number of measuring fields mentioned above. - High Quality Tripod with gear head 		

<p>Scanning & Inspection software</p>	<p>The Scanning & Inspection software should include following features:</p> <ul style="list-style-type: none"> - System software GUI based and user friendly. The software must include mesh generation algorithm, etc. It should be capable of generating application based STL and can perform several routine functions such as, point cloud to CAD alignment. Import of common CAD data formats: Catia V5, Creo, Unigraphics, Solid Works, IGS, STEP, JT-Open, Parasolid etc. - Inspection information should be continuously derived & displayed from the complete pre-imported or manually created measuring plan & CAD during measurement. - System should have dynamic referencing feature due to which the object or the sensor should be easily & freely moved or positioned, which allows flexible measuring plan & online display of sensor w.r.t. part should also be possible. - Automatic combination of single scans using a process-safe work flow based on a combination of reference points or surface matching. - Software should provide support for setting up new measuring tasks using guided project creation. - Import of CAD data in standard formats: IGES, STEP, STL. - Multiple alignments within one project: automatic pre-alignment, 3-2-1, plane line point & Best fit & updating of alignments should be possible - Complete CAD comparison: Surface, sections, points etc. - - 2D section based analysis - Inspection functions: Dimensions, virtual calipers, angles, diameters etc. - GD&T analysis according to ISO 1101 and ASME Y14.5 Standards. - Inspection should be performed by comparing scanned data to nominal CAD. - Color plot, 2D sections or multiple inspection points should be possible on CAD as well as on scan data. - Software should handle imported and manually created measuring plans for CAD or drawing-based geometrical analysis. 		
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	<ul style="list-style-type: none"> - Export of reports as CSV tables, PNG or PDF. - Quick determination of critical areas using wall thickness based sections. - Classic comparison to drawing & dimensional control should be possible within software. - Software should offer comprehensive traceability from result back to element creation and evaluate parameters like curvature & character lines. - Inspection software license should be floating license for multiple users at a time. 		
<p>Reverse Engineering Software</p>	<p>Reverse Engineering Software should be able to combine the history based CAD with 3D Scan data processing so as to create feature based, editable solid models compatible with the other CAD software</p> <p>The Software should have the following functionality</p> <ul style="list-style-type: none"> - Scan Directly into product Import\ Points - Import Mesh - Point Editing (Delete, Sample, Reduce Noise) - Basic Mesh Editing (Fill Holes, Trim, Mesh Doc) - Advanced Mesh Editing (Sandpaper, Sculpt, etc) - Intelligent Extraction of surfaces/solids/sketches - Complete Sketching and solid modelling - Mesh to solid deviation Analysis - Native output to NX, Solid works, Inventor &Creo - Organic Shape Surfacing , - 2D Drawing Creation - Creation and Management of Assembly Relationships - Should Support Third Party Add ons - History Based Modelling - Direct Modelling 		
<p>Miscellaneous</p>	<p>The Scanner software should have the capability of automatic update through internet. - All other Optional accessories, as required, must be quoted separately.</p> <ul style="list-style-type: none"> - Warranty: 1 Years Onsite - Training: Onsite 01 Week onsite Training - Manual & Calibration Certificate: Hard copy and Soft copy to be provided 		

(Tender opening format)
(To be filled-in by the Bidder)

Name of the firm:- _____

Tender for supply of _____

NIT No. &Date:- _____

Technical specification/ literature attached:- Yes/No

Valid tax clearance certificate attached:- Yes/ No

Registration/ Authorization Dealership/
manufacturer certificate attached:- Yes/ No

Revenue stamp affixed. Yes/ No

Rates covered with transparent tape:- Yes/ No

Bid document fee deposited:- Yes/ No

Call Deposit Receipt enclosed:- Yes/ No.

Bid price in Indian Rupees:- Yes/ No

FOR Srinagar:- Yes/No

Bid without correction/overwriting:- Yes/ No

Seal & Signature of the Supplier.

Annexure-B
BID FORM

From M/S.....

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To,

Officer In-charge,
Central Purchase unit, NIT Srinagar.

Ref: NIT No.: NITS/CPU/ 2018-19/..... Dated goods/Equipment for
.....Department

Sir,

With reference to above invitation for bids we would like to say that we have gone through your bid document thoroughly and hence offer our competitive Technical/Price Bid in sealed envelope for the supply of various goods/equipment listed in your document.

The following documents constitute our Bid.

- (a) Bid form
- (b) Price Bid schedule in the requisite format
- (c) Authorization dealer ship certificate from the manufacturer
- (d) Valid sales tax certificate
- (e) Technical literature for the goods/equipment
- (f) Names of organization where this equipment has been supplied. (Applicable for equipment whose unit price exceeds Rs.2.00 lacks
- (g) Bid security as mentioned in the schedule of requirements in the form of CDR drawn in favour of the Officer In-charge Central Purchase Unit NIT Srinagar.
- (h) Telephone No.....

Kindly feel free for any enquiries and clarifications.

Yours Sincerely

(.....)

From M/S.....

Place.....

Date.....

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Annexure-C

Technical specification.

Name of Equipment /Goods : e.g.,

Make /Model/ Country of origin: e.g.....

S. No.	Technical Specifications (as per. NIT/CPU/Advertised)	Technical Specifications of the Make /Model	Complies	Higher/Better (with detail quantification)	
				Higher/Better	Quantification
1			Yes	----	
2					
3					
4					
5					

