

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Autonomous Institution of the Department of Atomic Energy, Government of India
HOMI BHABHA ROAD, NAVY NAGAR, COLABA, MUMBAI - 400 005.

Telephone : 022-2278 2890,2897, 2588, 2232

E-mail: sgk@tifr.res.in, madhuran@tifr.res.in, dalvidd@tifr.res.in, sanju@tifr.res.in Website www.tifr.res.in

Ref.: TIFR/PD/CA17-233/PUB

January 05.2018

NIT cum Tender Document (TWO PART PUBLIC TENDER) for the following item:

CNC Vision Measuring System

As Per Attached Tender Document Qty.1 No.

Tender No.	TIFR/PD/CA17-233/PUB
Estimate Cost	Rs. 34.50 Lakh
Tender Fee	Rs.500/-
EMD	Rs.69,000/-
Type of Tender	Two Part Public Tender
Date of Publishing	06.01.2018
Last Date for Submission of Tender	07.02.2018 on or before 17.30 Hours
Date of Opening Bids	08.02.2018 at 15.00 Hours (Only Technical Bid)

Both Technical Bid (Part A) and Financial Bid (Part B) to be submitted within the due date and time in separate envelopes and marked on top as Part A and Part B. These two sealed envelopes should be further put in one Master Envelope superscribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for conditions of tender.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

For Procurement of a CNC Vision Measuring System

A. TECHNICAL SPECIFICATIONS

A1. Specifications:

1. CNC (fully automatic) Vision Measuring system should be suitable for high precision measurements of the work pieces in a 'non-contact' manner by capturing image enlarged by optical lens using precision camera. It must be equipped with data processing program that uses image processing technology and performs measurements by automatically detecting edge points. It should be upgradable, if needed in future, with a touch trigger probe system.
2. Measuring range (non-contact probe): X = 250mm, Y = 200mm, Z = 150mm
3. Encoder resolution: 0.1 μ m or better
4. Camera: Color CMOS Camera (1Megapixel or more)
5. Minimum field of view: Area of 13mm \times 10mm at the lowest magnification
6. Illuminations: Co-axial: White LED, Stage: White LED, Equipment should have programmable ring light with 4 quadrant white LED's. All the 4 quadrants must be controlled individually depending on the requirement of the application.
7. Accuracies:

X, Y axis	: 2.5 μ m or better @100mm length
Z axis	: 3.5 μ m or better @100mm height
X, Y axis combined:	3.0 μ m or better @100mm length
8. Drive speed of axis: 200mm/s (for each axis) for a faster inspection cycle time
9. Optical system: Equipment should have 8 positions in built optical zoom lens. Additionally, equipment should also have externally mounted selectable objective lenses. Provision to change the overall magnification by replacing the objective lens as well as by varying the zoom ratio of the lens should be there. The working distance (at lowest magnification) should be in the range 70 to 80mm.

A2. Construction of the equipment:

1. Equipment should be fixed bridge type and the movement of work-stage should be only in the one direction for a better control in the measurement.
2. The main unit of the equipment should be more than 100Kg to avoid any vibrations during the measurements.
3. Work-stage has to be made up of hardened glass to bear work piece maximum weight of 10Kg.

A3. Accessories to be supplied with the equipment:

1. Heavy duty stand for the equipment
2. Branded computer system with 22" branded LED monitor
3. Branded online UPS
4. Data processing software: Software has to be compatible with the latest windows operating system with automatic edge detection tools, various focusing tools, and full control of the illumination. This software measures various dimensions automatically detecting the edges of work piece by image processing.
5. Standard objective lens

A4. Warranty & Service Support

1. 1-year standard warranty after the installation of the equipment
2. Supplier must provide 'NABL' (National Accreditation Board for Laboratories) accredited onsite calibration support for this equipment and should also be able to undertake Annual Maintenance contract for the equipment after the expiry of the warranty period.

B. SCOPE OF WORK

The scope of work in brief includes supply, installation, testing and commissioning of the CNC vision measuring system. The equipment should be supplied and commissioned in the TIFR Colaba campus at Homi Bhabha Road, Mumbai - 400005.

C. CONTACT PERSONS

Following are the contact persons for this tender from different departments.

1. Prof. Gagan Mohanty, DHEP, 022-22782147, gmohanty@tifr.res.in
2. Deepak Baghele, Purchase Officer, 022-22782890, deepak.baghele@tifr.res.in
3. Kameswara Rao, Scientific Officer, DHEP, 022-22782773, kamesh@tifr.res.in

D. TECHNICAL SUPPORT, TERMS AND CONDITIONS OF THE TENDER

1. Supplier should have a team of qualified and experienced engineers to handle the installation of the equipment. Details of local technical manpower should be submitted with the technical bid. Supplier should have a full-fledged office and support personnel stationed in Mumbai.
2. Supplier representing the Original Equipment Manufacturer (OEM) should submit hard copy on the OEM letter head for
 - a. Manufacturers Authorization Form (MAF) quoting the tender reference number for which authorization is provided.
 - b. Confirmation of support service for the proposed products for a period of at least five years and confirming that the proposed products are not declared as end of sale / support. Obsolete or near end of sale products will not be accepted.
3. Attach the necessary documents wherever required. Incomplete and unsigned tender documents will not be considered for evaluation.
4. To qualify to bid for this tender, supplier should give details of at least one customers in India to whom the equipment has been already supplied and installed. Purchase order copies and contact details of the technical person(s) (customer end) associated with the order should be part of the technical bid. TIFR will have full authority to check on quality of technical services and support with their customers who have given orders for supply of this equipment. Copies of purchase order and commissioning report (customer acceptance report) have to be submitted. A summary sheet listing out all the submitted orders mentioning details like date of order, customer name, contact person, value of order, order completion date, nature of work should be part of the technical bid.

5. If required, supplier shall organize site visits to their completed sites during the process of technical evaluation.
6. **TIFR reserves the right to accept or reject any or all bids.**
7. Each supplier can bid for single OEM only.
8. The OEM shall also be responsible for proposed solution, successful installation and post-installation support.
9. The supplier should not be currently blacklisted by any central/state government department/public sector unit.
10. The price quoted should be firm and final. **Under no condition, price escalation is allowed.**
11. The equipment, hardware and software, shall have a comprehensive onsite warranty for 1 year. Release of new version of operating system, application, firmware, bug fix patches etc. for the supplied equipment should be patched/upgraded for stability and security of the system by the supplier/OEM support team. The team should advise and support this activity during the warranty period. The ordered application software shall be upgraded to new versions and new releases during the warranty period.
12. All supplies, along with the equipment, hardware and software, shall provide onsite support and service. The supplier's technical team should attend the service call as soon as possible and take immediate action. Any configuration changes or enabling of built-in feature on the devices should be serviced by supplier's team/OEM during warranty period.
13. Necessary mounting brackets, railings, power chord etc. should be part of the proposal.
14. The decision to accept the proposed complete solution lies with TIFR and is **final and binding**. Only technically qualified bidder's financial bid will be opened if all other criteria are met.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Autonomous Institution of the Department of Atomic Energy, Government of India (A Deemed University)

HOMI BHABHA ROAD, COLABA, MUMBAI – 400 005

(PURCHASE SECTION)

Instructions to Bidder

- PART “A” (Technical Bid) consisting of Technical Bid & Commercial Terms** and **PART “B” (Financial Bid) consisting of only Price** shall be submitted in **separate** sealed envelopes duly super scribed with the tender enquiry number, and the due date in bold letters, addressed to the Admn. Officer (Purchase), Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai – 400 005. The envelopes should be clearly marked on top as either PART “I” or PART “II”. The two sealed covers should be further put in a master cover super scribed with the Tender Enquiry No., Due Date in bold letters, addressed to the Admn. Officer (Purchase), Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai – 400 005. The sealed master envelop has to be delivered by hand/courier at the security Gate Officer of TIFR on or before 17.30 hrs on the last date of submission specified. The technical bid will be opened in the presence of attending tenderers at 15.00 hrs on the due date at Purchase Section, TIFR Mumbai. Tenders submitted after 17.30 hrs. on last date of submission will not be considered.
- In case the PART ‘A’ and Part ‘B’ bids are not sealed in separate envelopes the tender will be rejected.**
- The technical bid should not contain any indication of the price.**
- After scrutiny of Technical Bids, Financial bids of only those bidders who are shortlisted on technical basis will be opened at on later date. The opening date, time and venue will be intimated to the technically successful bidder.
- Bidders who have not accepted the job/order awarded to them or withdrawn from the tender process OR whose EMD/Security deposit has been forfeited in the past their bids will not be considered and treated as ineligible / disqualified.**
- After downloading the documents please inform your company details such as name, address, telephone nos., contact person and email address etc. by email to us. (deepak.baghele@tifr.res.in, madhuram@tifr.res.in, sanju@tifr.res.in, dalvidd@tifr.res.in) to enable us to inform prospective bidder for any corrigendum/changes if any; in the Tender document before due date.

7. Quotation must be valid for a period of 90 days from the due date.
8. Tenders containing correction, overwriting will not be considered. Late or delayed/Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.
9. Tenderer should sign on all the pages of the technical bid and the price bid.
10. In case of any interpretational issues in this tender, the interpretational decision of the TIFR shall be Final & binding on the bidder.
11. TIFR reserve the right to ask for or to provide any clarification, changes after the release of this tender.
12. If equipment offered is to be imported, arrangements for import will be made by us.
13. Tenders who do not comply with any of the conditions are liable to be rejected.
14. TIFR reserve the right to cancel the tender even after the receipt of tender, and in such case the EMD would be refunded without any interest to the bidding parties.
15. The Institute shall be under no obligation to accept the lowest or any other tender received in response to this tender notice and shall be entitled to reject any tender without assigning any reason whatsoever.
16. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.
17. An earnest money for **Rs.69,000/-** (i.e.2% of the total estimated cost) has to be deposited in the form of Demand Draft, Fixed Deposit Receipt, Bankers cheque or Bank Guarantee from any commercial Banks or through online transfer through bank (Bank details to be provided on demand) in favour of **Registrar, Tata Institute of Fundamental Research, Mumbai** along with the quotation.

Also, in lieu of above, the bidder can submit the EMD in the form of "Bid Securing Declaration" as per the attached format. The declaration also should be submitted on the company letter head duly signed by officer authorized to submit the bid.

The earnest money will be refunded to the unsuccessful bidders on finalization of the contract.

18. Successful bidders will have to deposit **Performance Bank Guarantee @ ie.10 % of the Purchase Order value** in the form of Bank Guarantee valid for a period of 60 days beyond the date of contractual obligations. PBG amount will be forfeited if the Firm /Supplier fail to perform any of the terms & conditions of our Tender enquiry/ document.
19. The Supplier shall arrange to deliver the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with / without penalty.
- a) In case of delay in supply on the part of the supplier, a penalty @ 0.5% per week of order value will be charged for delayed period subject to maximum of 10% of order value.
- b) The same rate of penalty shall be applicable for late installation of the equipment / instrument also.
20. **Our standard Payment terms are as follows:**
The payment will be made only after delivery of the supply, satisfactory installation, commissioning and performance of the item/equipment at TIFR Mumbai and after certification by our technical expert/ Authorized officer.
21. No Advance payment will be made to any local supplier except in case of furnishing valid Bank Guarantee from any nationalized / scheduled bank and the B.G. shall be valid till the complete delivery is made at the site.
22. For Import cases: **No Agency commission will be paid as per Govt. of India rules.**
23. The delivery period should be specifically stated and earlier delivery may be preferred.
24. **COMMENCEMENT OF WARRANTY PERIOD:** The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation/commissioning/demonstration at the project site. The warranty period and validity of Performance Guarantee shall be extended for the period of delay in satisfactory installation and delay in warranty services

25. Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer.

26. **Price must be quoted in the "Price Bid" format attached herewith.**

27. Bidder who have not accepted the order / job awarded to them or withdrawn from the tender process OR whose EMD / Security Deposite has been forfeited in the past, their bid will not be considered and treated as ineligible/disqualified.

ADMINISTRATIVE OFFICER
(PURCHASE SECTION)
TIFR, MUMBAI

TIFR Enquiry No & Date: _____

Due date: _____

Bidder's Quotation Ref No. & Date: _____

Bidder's GST Registration No.: _____

Price / Financial Bid (Bidders must quote their rates using this Format)

Sr. No.	Item Description	Make/Brand/Type	HSN Code	Qty.	Rate per unit	Item wise GST %	Cost (In INR)
	Freight/Transportation charges, if any						
	Service/Labour charges, if any						
	Any Other charges						
	Less : Buyback, if any						
	Total landed cost in Figures & words						
	Delivery Period						
	Warranty Period						
	Validity of Quote						
	Payment Terms						

Note:

1. All the column should be appropriately filled and not left blank, any duty/tax/ charges not applicable, then please specify as " Not Applicable"
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item,
3. Any accessories, optional items should be shown separately.
4. Other Technical & Commercial details shall be furnished in a separate sheet.
5. Use separate sheet for detail description, specification of the item, but prices should be quoted in same format.

Signature of the Bidder

Name, Address, Contact No. _____
& Email id of the Bidder/Company _____
with company's stamp or seal _____

Date: _____

Place: _____

Bid Securing Declaration

(to be submitted on company's letter head)

I/We the undersigned hereby declare that if we withdraw or modify the bids during the period of its validity, or if we are awarded the contract and fail to sign the contract, or to submit a performance security before the deadline defined in the request for bids document or fail to execute the contract, we will be suspended for the period of time specified in the request for bids document from being eligible to submit bids for contracts with the entity that invited the bids.

Name and Signature
of Authorized Signatory
and Company Seal