Office of the Research & Development Section

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• To, • Refⁿ: IITG/RND/T109/2023-24

All Interested Vendors • Date: 11.10.2023

SUBJECT: Notice inviting quotation for supply and installation of Motion tracking camera system.

Dear Sir/ Madam,

The Indian Institute of Technology Guwahati, invites quotations for **supply and installation of Motion tracking camera system** as per details mentioned in the **Annexure-I**, attached herewith. The quotation is to be submitted **online** as per 'Instruction to Bidders', 'Terms & Conditions' and Annexure-I, II, III, IV, and V on or before **01.11.2023 at 12:00 HRS.**

Kindly read the NIQ document carefully before participating. It shall be deemed that submission of bid by the bidder has been done after their careful study and examination of the NIQ terms with full understanding to its implications. Any lack of information shall not in any way relieve the bidder of its responsibility to fulfill its obligations under the Bid.

The Director IITG will reject a proposal for award if it is determined that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for, or in executing, the Purchase Order. Fraudulent Practice means a misrepresentation of facts in order to influence a procurement process and includes collusive practice among bidders (prior to or after Bid submission) designed to establish Bid prices at artificial non-competitive levels and to deprive IITG of the benefits of free and fair competition. Corrupt Practice means offering, giving, receiving or soliciting of anything of value, pressurizing to influence the action of a public official in the process of this purchase execution.

INSTRUCTION TO BIDDERS

01. Mode of bid: Tender will have to be submitted in **Double bid**.

02. Important Date, Time and Venue:

SI. No.	Particulars	Date & Time
01	Date of uploading of NIQ & other documents	11.10.2023 at 14.00 hrs
02	Documents download/sell start date	11.10.2023 at 16:00 hrs
03	Documents download/sell end date	01.11.2023 at 12:00 hrs
04	Pre-Bid Meeting	N/A
05	Bid submission start date	11.10.2023 at 16:00 hrs
06	Bid submission closing	01.11.2023 at 12:00 hrs
07	Technical Bid Opening date	02.11.2023 at 14:00 hrs
08	Venue of Technical bid opening	Department of Design, IIT Guwahati
09	Financial Bid Opening date	To be informed later on

03. **Submission of bids**: Bids are to be submitted through online to the website https://eprocure.gov.in/eprocure/app in **Two Covers**, one in Fee/Technical Cover & the other is Financial Cover before the prescribed date and time using the Digital Signature Certificate (DSC). The documents duly digitally signed are to be uploaded.

03.1. Fee / Technical Bid: The technical Cover should contain scanned PDF copies (Single pdf file for multiple pages and documents) of the following in two folders. The seal and signature of the authorized official of firms must appear on all the papers uploaded.

03.1.A. Fee/Technical Documents:

- i. Scanned copy of EMD. If any bidder is exempted from payment of EMD, Relevant Document(s) needs to be uploaded as mentioned in sl. no. 08 of the Terms & Condition.
- ii. Compliance certificate [Annexure -II]
- iii. Manufacturer's Certificate in case of manufacturer or Manufacturer Certificate along with Authorized Dealership Certificate on the offered products in case of Agent or Dealer.
- iv. Details of the technical features of the offered item in the format at Annexure-I
- v. Standard Technical leaflet/literature of the item offered
- vi. HSN/SAC Number, ISO/ISI Certificate and Proof of Certification as per specification
- vii. Warranty Details.

03.1.B. Other Important Documents (OID):

- i. Bidder's detail and its Service Centre detail as per format at Annexure-III
- ii. Character certificate (Undertaking that currently the vendor is not blacklisted by any govt. organization/institution)
- iii. GST Registration Certificate and GST Clearance certificate.
- iv. PAN Detail and TIN number
- v. Registration Certificate
- vi. Banker's Detail
- vii. List of reputed organizations/institutions, particularly to IIT/Institutes and other Government Organization where similar orders have been executed, if any (copy (s) of the Purchase Orders and Installation certificates will have to be uploaded).
- **03.2. Financial Cover:** The financial Cover should contain Bill of Quantities (BOQ) **in excel format.** The bidder is to quote the rate in the space marked for quoting rate in the BOQ. Only downloaded copy with same file name of BOQ document must be uploaded by the bidder after filling up.

04. Evaluation of Process:

- 04.1. Opening of Technical Cover: Technical Documents will be opened by the Purchase Committee members using Digital Signature Certificate (DSC).
- 04.2. Cover for Fee/Technical Documents (Ref. Sl. No. 03.1.A) and cover for Other Important Documents (Ref. Sl. No. 03.1.B.) will be opened. If there is any deficiency/discrepancy in the Documents, the bidder will summarily be rejected.
- 04.3. Decrypted (transformed into readable formats) documents of the covers will be downloaded and handed over to the Purchase Committee.
- 04.4. Summary list of technically qualified bidders will be uploaded online.
- 04.5. During evaluation the Committee may summon the bidders and seek clarification/information or additional documents or original hard copy of any of the documents already submitted & if these are not produced within the stipulated time frame, their proposals will be liable for rejection.
- 04.6. The Financial offer of the prospective bidder will be considered only if the Technical Bid of the bidder is found qualified by the Purchase Committee.
- 05. Award: The Final Award will be given to the vendor, selected by the Purchase Committee on the lowest quote basis.
- **06. Communication:** In all communication to and from IIT Guwahati, the following email IDs are to be put in loop mandatorily.
 - (a) ar_rnd@iitg.ac.in
 - (b) pankaj.upadhyay@iitg.ac.in
 - (c) priyadevi@iitg.ac.in

TERMS & CONDITIONS

01. Rates: Rates quoted should be on **F.O.R. IIT Guwahati** basis for indigenous items and on **DOOR DELIVERY PAID** basis for imported items, with break-ups as per BOQ. Failing to provide as per BOQ, quotation may not be accepted.

Currency Conversion against Item in Column K of BOQ Excel file there is two conversion type: 1. If you choose "Full Conversion" then Column BA (AMOUNT) and Column BB (TAXES) BOTH values will be converted based on selected Currency in (Column L). 2. If you choose "Partial Conversion" then Column BA (AMOUNT) only will be converted based on selected currency (Column L) and Column BB (TAXES) value (INR) will be added to the converted values. If any bidder quotes all the Amount in INR, the bidder must select "Full Conversion" type in currency conversion in column K.

- 02. Validity of Quotation: Quoted rates must be valid for 120 days from the last date of submission of quotation.
- **03.Warranty:** Standard as provided by OEM of the items.
- **04.** Literature a must: All the quotations must be supported by technical leaflet/literature and the specifications mentioned in the quotation must be reflected/ supported by such technical leaflet/ literature. The model and specifications quoted should **invariably be highlighted** in the leaflet/literature for easy reference.
- **05. After Sales Service**: The bidders should clearly state the detail address, contact number and email ids of after sales service centre in India in Bidder's Details under Statutory Cover as at **Annexure-III** without which their offers shall be liable for rejection.
- **06. Dealership Certificate**: Dealers or Agents quoting on behalf of Manufacturer must upload valid dealership certificate.
- **07. Quality Certificates**: Valid certificate to prove that the products are genuine and of International standard, as mentioned below, must be uploaded: (a) Manufacturer's certificate; (b) ISO/ISI certificate.
- **08. Earnest Money:** An Earnest Money Deposit (EMD) for ₹1,00,000.00 (Rupees One Lakh only) in the form of Bank Guarantee as Annexure-IV OR an Account Payee Demand Draft OR Fixed Deposit Receipt from a Commercial bank in favor of "Registrar IIT Guwahati", payable at IIT Guwahati, will have to be submitted to The Assistant Registrar, Research & Development Section, IIT Guwahati, Guwahati 781039. For items treated as part of the same unit the total values of all items taken together will be treated as the value for EMD amount. Offers received without Earnest Money or valid Certificate shall be summarily rejected.

EMD of unsuccessful bidder will be returned within one month of placement of Purchase Order. In case of the successful bidder the EMD will be returned on receipt of the PBG.

If exemption is sought from production of EMD, the same should clearly be mentioned indicating the clause under which exemption is sought. EMD is exempted under the following conditions: -

- (i) Firms which are specifically registered for the required items with DGS&D or with NSIC Copy of valid registration must be uploaded in place of EMD document.
- (ii) Vendors have successfully executed two Purchase Orders in the last three Financial Years in IIT Guwahati, copies of the PO must be uploaded in place of EMD document.
- **09. Performance Bank Guarantee:** The successful bidder, to whom the PO is placed, shall furnish an unconditional Performance Bank Guarantee from a scheduled Bank of India, as per the below mentioned slab, within 21 days of placement of order. The format for PBG, unless otherwise approved by the competent authority, shall be as per the format enclosed at **ANNEXURE-V.** In case of foreign purchase, the local Agent shall submit the PBG, where the PBG is to be necessarily given by a foreign bank, it shall be endorsed by its counterpart in India. Validity of the PBG, which shall be effective from the date mentioned therein, shall be **warranty period + 2 months**.

In exceptional case or on the request of the Indenting Officer competent authority may allow starting of PBG Period from the date of installation, in which case submission of PBG valid for *warranty period* + 2 *months* may be made within 21 days from the date of installation.

- (i) By submitting the PBG, the vendor is understood to have guaranteed that,
- (a) The Purchase Order (PO) shall be executed as per terms and conditions mentioned therein.
- (b) The equipment shall function satisfactorily for a period up to 60 days after the warranty period.
- (c) The equipment and components are free from poor workmanship, bad quality, and faulty designs.

- (d) The vendor shall at his/their own cost rectify/replace the defects, if any, during the guarantee period.
- (e) The guarantee is to the extent of the below mentioned slab.
- (ii) Condition for invoking PBG: In case of failure to comply with the guarantees above, IITG may terminate the contract / purchase order in whole or in part and forfeit the PBG. In addition, IITG may, at its discretion, procure upon such terms and in such manner as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier/vendor shall be liable to compensate IITG for any extra expenditure involved.

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Slab 1: PO value (1.01 lakh- 5.00 lakhs) ------- PBG Rate: 3% Slab 2: PO value (5.01 lakh- 7.50 lakhs) ------ PBG Rate: 5% Slab 3: PO value (7.51 lakh- 10.00 lakhs) ------PBG Rate: 7.5% Slab 4: PO value (10.01 lakh-14.99 lakhs) ------PBG Rate: 8.5% Slab 5: PO value (15 lakhs and more) --------PBG Rate: 10%
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10. Delivery:

- a) Time Limit: Maximum within 45 days from the date of issue of purchase order in case of indigenous items and 90 days for imported items.
- b) Safe Delivery: All aspects of safe delivery shall be the exclusive responsibility of the vendor. At the destination site, the package will be opened only in the presence of IIT user/representative and vendor's representative. The intact condition of the package and the seal/indicators for not being tempered with shall form the basis for certifying the receipt in good condition.
- c) Insurance: The supplier is to establish 'All Risk Transit Insurance' coverage till door delivery at IIT Guwahati.
- d) Part Delivery: Part delivery is not allowed.
- e) Penalty Delay Delivery: The date of delivery should be strictly adhered to otherwise the Director, IITG reserves the right not to accept delivery in part or full.
- **11. Genuine Pricing:** Vendor is to ensure that quoted price is not more than the price offered to any other customer in India to whom this particular item has been sold, particularly to IIT/Institutes and other Government Organization. Copy of the latest price list for the quoted item, applicable in India, must be uploaded with the offer.
- **12. Conditional tenders not acceptable:** All the terms and conditions mentioned herein must be strictly adhered to by all the vendors. Conditional tenders shall not be accepted on any ground and shall be rejected straightway. Printed conditions mentioned in the tender bids submitted by vendors will not be binding on IITG.

13. GST Inward Permit & Entry Tax:

- (a) GST Inward Permit: GST Inward Permits (Way bills) shall be issued as applicable for delivery of materials against receipt of Final Invoice/ Bill.
- (b) Entry Tax: Assam Govt. Entry Tax [to be paid by IIT Guwahati, not by the vendor], wherever applicable, will be added while evaluating cost status of the concerned equipment to be supplied by vendors from outside the State of Assam.

14. GST:

- (a) Up-to-date Sales Tax clearance certificate, GST Registration Certificate indicating also the GSTIN number of the firm must be clearly mentioned in the quotation, Certificates must be uploaded.
- (b) GST Deduction at source as per Order/notification of the Govt. of India will be applicable.
- (c) GST No of IIT Guwahati is 18AAAJI0130P1Z8
- (d) HSN/SAC No of the items must be clearly mentioned in the quotation along with GST No.
- **15. Late and delayed tender:** Late and delayed tender will not be considered.

16. Payment to Local supplier:

- (i) 100% Payment within 45 days from the date of successful delivery, installation and commissioning/ acceptance of goods at IIT Guwahati, generally through RTGS / NEFT, **OR**
- (ii) 90% Payment against delivery and 10% payment after successful installation and/ or commissioning of the ordered goods at site.

Please note as per Institute's norm advance payment is not allowed for indigenous purchase.

- 17. Penalty for delayed delivery: The date of delivery should be strictly adhered to. In the event of delayed delivery, installation & commissioning, the vendor shall be liable for a penalty deduction at a percentage of the value of the undelivered equipment subject to a maximum of 10% (ten percent) as detailed below:
 - @ 1% up to one week;
 - @ 2.5% up to two weeks;
 - @ 5% up to three weeks;
 - @ 10% for four weeks and above

For the purpose of this clause, part of the week is considered as a full week. In case of delayed delivery, the Director, IIT Guwahati reserves the right not to accept the subject consignment.

- **18.** Enquiry during the course of evaluation not allowed: No enquiry shall be made by the bidder(s) during the course of evaluation of the tender till final decision is conveyed to the successful bidder(s). However, the Purchase Committee or its authorized representative (IIT Guwahati) can make any enquiry/seek clarification from the bidders. In such a situation, the agency shall extend full co-operation. The bidders may also be asked to arrange demonstration of the offered items, in a short period notice, as such the bidders have to be ready for the same.
- **19. Acceptance of quotations:** The acceptance of the quotation will rest solely with the Director, IITG, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reasons.
- **20. Force Majeure:** If the performance of the obligation of either party is rendered commercially impossible by any of the events hereafter mentioned that party shall be under no obligation to perform the agreement under order after giving notice of 15 days from the date of such an event in writing to the other party, and the events referred to are as follows:
- I) Any law, statute or ordinance, order action or regulations of the Government of India,
- II) Any kind of natural disaster, and
- III) Strikes acts of the Public enemy, war, insurrections, riots, lockouts, sabotage.
- 21. Termination for default: Default is said to have occurred
- (a) If the equipment or any of its component is found having poor workmanship, faulty designs, poor performance and bad quality of materials used.
- (b) If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by IIT.
- (c) If the supplier fails to perform any other obligation(s) under the contract.
- (d) Under the above circumstances IIT may terminate the contract / purchase order in whole or in part and forfeit the EMD/PBG as applicable. In addition to above, IIT may at its discretion also take the following actions: IIT may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate IIT for any extra expenditure involved towards goods and services obtained. Besides, the Director, IITG, reserves the right to impose any other form of penalty as deemed fit including blacklisting of the vendor.

22. Applicable Law:

- (a) The contract shall be governed by the laws and procedures established by Govt. of India and subject to exclusive jurisdiction of Competent Court and Forum in Guwahati or India only.
- (b) Any dispute arising out of this purchase shall be referred to the Director IIT Guwahati, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Director of the Institute. The decision of such Arbitrator shall be final and binding on both the parties.
- **23. Additional terms for imported goods**: Following terms besides the aforementioned terms (1 to 22 except 14 and 16) will be applicable in case of foreign supply:
- a) Rates: Rates quoted should be on Delivered Duty Paid (DDP)/ Delivery at Place (DAP) basis, with break-ups as per details given in the BOQ. Failing to provide as per BOQ, quotation may not be accepted.
- b) Exchange rate: Rate of foreign exchange shall be the rate prevailing on the date of quotation opening.
- c) Delivery: Maximum within 90 days from the date of issue/receipt of purchase order.
 - (i) Door Delivery at IIT Guwahati.
 - (ii)While transshipment will be allowed, part shipment will not be allowed.

d) Payment:

- (i) Above INR 5 Lacs by Letter of Credit (LOC): By an irrevocable letter of Credit at DDP/DAP IITG value negotiable through any overseas branch of Axis Bank with unrestricted provision. 90% of payment will be released on receipt of the shipping document and balance 10% after receipt of consignment. LOC will be established on receipt of Order acknowledgment and Performance Bank Guarantee (PBG)
- (ii) Below INR 5 Lacs by Foreign Demand Draft (FDD)/Wire Transfer as given below: 100% payment will be released against receipt of Order Acknowledgment and Proforma Invoice
- **e) Agency Commission:** The percentage of ex-works value to be paid to Indian agent in equivalent Indian currency as agency commission as applicable will have to be clearly stated in the quotation.
- f) Country of Origin: While Country of Origin will have to be stated in the Original Invoice for payment through LoC.
- **g)** LoC Amendment: LoC/FDD amendment charges due to mistake on the part of the supplier, if any, will have to be borne by the supplier.

(Manash Jyoti Pathak)
Assistant Registrar
Research & Development Section

ANNEXURE - I

Technical Specification

Refn: IITG/RND/T109/23-24 Date: 11.10.2023

	Specs: Motion Tracking Camera System						
SI. No	Item Name	Item Details	Specification Details	Quantit y	Quantity type	Specifications	
1	Motion Tracking Camera System						
1.1		Camera	Details as mentioned below	8	Numbers	Details as mentioned below	
			Resolution in pixels			1280 x 1024 pixels or better	
			Frame Rate in Frame/sec			240 or better	
			Filter switcher			Must be included	
			Interface			Preferred GigE/POE	
			Field of View in degrees			Horizontal FOV: 56° or betterVertical FOV: 46° or better	
			Shutter Speed in microseconds			Variable for different applications withminimum value of 10 microseconds	
			Optical Filter for IR operation			800 nm wavelength	
			Focus			Adjustable	
			Lense Mount			M12 or other compatible with various lenses	

1.2	Software	License, Tracking rigid body movements (e.g. aerial robots, autonomous vehicles etc.)	1	Unit	Compatible with the entire system under itemno. 1. Capable of exporting the captured datain a variety of file formats, e.g. for other common analytical software (Dongle or Network based)
1.3	Calibration Kits	Calibration Kits for accuracy and reliability oftracking data	1	Bundle	(a) Compatible with the entiresystem under item no. 1. (b) Multiple calibration tools may be required for initial camera calibration for ensuring that the cameras are tracking objects in the capture volume accurately, while there may be anotherkit that can be used for more precise calibration and fine-tuning of camera positions and orientations to achieve the highest possible tracking accuracy. (c) Preferably the kits should have same makeas the items 1.1 and 1.2 for best compatibility with the entire system.
1.4	Network Hub	Network Hub to provide connectivity of the entiresystem specified under item no. 1	1	Bundle	The bundle should contain one or more hubsto provide connectivity of the entire system specified under item no. 1
1.5	Markers and Marker base	Physical markers for mounting on the object beingtracked. Marker base for mounting the markers.	1	Package	Each package must contain: (a) markers (5 quantities each of 8 or 9different sizes) (b) Different adhesives (acrylic, rubber, skin)of 5 quantities each (c) Velcro Dots (5 quantities) (d) Various rigid and Flexible bases of different sizes for each marker type (5 quantities each of 8 or 9 different types)

1.6	Other Accessories forInstallation	USB Cables, Sync cables, etc. for installation of the entire system	1	Bundle	Specifications as required for installation of the entire setup item no. 1 (1.1 to 1.5) in room dimension of around 15 x 15 sq. ft.
1.7	Computer/Work- station	Computer with installation required software to run the entire system (item no.1)	1	Unit	(a) Compatible with the entire system underitem no. 1. (b) Preferably intel i5 processor or any other equivalent for smooth operation of the software mentioned in (1.2).
1.8	Installation and demonstration		1	Package	Installation of the above setup on roomdimensions around 15 x 15 sq. ft. and demonstration of the entire setup. After the installation the following points should be satisfied. 1. The complete system should berunning smoothly with all the cameras and accessories purchased. 2. Demonstration on multiple projects. 3. Training on rearrangement of camera setup & operating the software.
1.9	Motion Sensor Accessories 1 (Optional)	Hand Kit for Finger Tracking	1	Set	Each set should have at least 10 finger markers,4 markers for wrists and forearms a pair of gloves (small/Medium size)
1.10	Motion Sensor Accessories 2	Motion Capture Suit	1	Set	Stretchable suit (recommended by OEM(1 set Medium size and 1set small size)

1.11	Motion Sensor	Software for	1	unit	Suitable for movement science related activity.(Dongle or
	Accessories 3	movementscience			Network based)
1.12	Site Preparation		1		Site preparation for e.g Wall mountingframes/ tripods, nets etc. (Optional)
1.13	Warranty		1	Package	Standard as provided by OEM of the items



Your Ref No.

ANNEXURE -II COMPLIANCE CERTIFICATE

Refn: IITG/RND/T109/23-24 Date: 11.10.2023

Certify that we have carefully examined the NIQ terms and fully understood its implications and do hereby agree to comply with all the terms, and hereby submit this compliance certificate.

SI. No.	General Terms and Conditions	Yes / No
01	Details of the technical features of the offered equipment vis-à-vis NIQ specification	
02	Rates quoted as per instruction	
03	Standard Technical literature on each of the items offered	
04	Warranty period agreed	
05	Valid ISO provided	
06	Validity period of quoted rate agreed	
07	EMD submitted (as applicable)	
08	PBG term agreed	
09	Delivery terms agreed	
10	Certificate of Up-to-date Sales Tax clearance, GST Registration Certificate provided	
11	Payment term agreed	
12	Penalty clause for delay agreed	
13	Literature- Printed Literature with highlight and tag on the quoted item provided	
14	Manufacturer/Authorization certificate submitted	
15	Quality certificate as claimed submitted	
16	After Sales Service term agreed and detail address & contact provided	
17	Not blacklisted by any Govt. Organizations/Institutions	

Sign.	!
Vendor:	M/s

Official seal of the vendor

Your Ref No.:

ANNEXURE-III BIDDERS DETAIL

Refⁿ: IITG/RND/T109/23-24 Date: 11.10.2023

SI. No.	Name of the company/Firm	To be filled by vendor (Documentary Proof must be attached as applicable)
01	Registered office Name & Address Details of contact person Name designation Telephone number e-mail	
02	Name & Address of service centre in Guwahati city Contact person/s Name designation Telephone number e-mail Details with contact no. of staff who will be involved in this project.	
03	Is the company/firm a registered company/firm? If yes, mention year and place of the establishment of the company and submit documentary proof.	
04	Is the company/firm registered for GST? If yes, submit valid registration certificate.	
05	List the major clients with whom your organization has been associated and submit documentary proof/PO.	

Note: Document/s if attached to the NIQ compliance Certificate the same may be referred to in the remark column above.

Sign.	
Vendor:	M/s

Official seal of the vendor

ANNEXURE -IV

Your Ref. No:

INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI

BANK GUARANTEE FORM FOR EMD

ANNEXURE-V

PERFORMANCE BANK GUARANTEE

To:	
The Registrar, Indian Institute of Technology, Guwahati- 781 039	
WHEREAS	20 to supply
AND WHEREAS it has been stipulated by you in the said order that Bank Guarantee by a recognized bank for the sum specified thereir Supplier's performance obligations in accordance with the order.	
AND WHEREAS we have agreed to give the Supplier a Guarantee: THEREFORE, WE hereby affirm that we are Guarantors and respons up to a total of	nount of the Guarantee in Words and declaring the Supplier to be in default within the limit of
This guarantee is valid until theday of	
Signature and Seal of Gua	arantors
	Date20 Address:

All correspondence with reference to this guarantee shall be made at the following address:

The Assistant Registrar Research & Development Section Indian Institute of Technology Guwahati- 781 039, Assam