INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036



Telephone: (044) 22574190 E-mail: raj@iitm.ac.in



Ref: CHE/RAJG/2020/1074

Dated: 13.10.2020

Prof. Rajagopalan Srinivasan Project Coordinator

Limited Tender No: CHE/RAJG/2020/1074

Due Date: 04.11.2020, 5:00pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on Due Date: 05.11.2020, 3:00pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of "Screen Based Eye Tracking System" conforming to the specifications given in (Annexure-I).

Terms and Conditions of Limited Tender

- **1. Preparation of Bids:** The Limited tenders should be submitted under **Two bid system** (i.e.) Technical- and -Financial bid.
- **2. Delivery of the tender:** The tender shall be sent to the below-mentioned addresses either by post or by courier (duly sealed and super scribed on the envelope with the reference No and due date) so as to reach the following address before the due date and time specified in our Schedule:

Prof. Rajagopalan Srinivasan, Department of Chemical Engineering IIT Madras

- Chennai 600 036
- **3. Price:** The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to **Department of Chemical Engineering.**
 - a. The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for concessional GST and relevant certificate will be issued.
 - b. In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on EX-WORKS and CIP (stating the Cost, Insurance, Freight separately) and indicating the mode of shipment.
- **4. Terms of Delivery**: The item should be supplied to our Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- **5.** Catalogue: Original catalogue (not any photocopy) of the quoted model duly signed must accompany the quotation in the Technical bid
- **6.** Late offer: The offers received after the due date and time will not be considered
- **7. Payment**: No Advance payment will be made for Indigenous purchase. However, 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In

- case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
- **8. Advance Payment: -** No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Vendor has to submit a Bank Guarantee from a Nationalized Bank of India equal to the amount of advance payment.
- **9. On-site Installation**: The equipment or machinery has to be installed or commissioned by the successful bidder within number of days (as prescribed by PI's) from the date of receipt of the item at site of IIT Madras.
- **10. Warranty/Guarantee: -** Warranty service must be provided onsite at IIT Madras for duration of warranty period for one year
- 11. Validity: Validity of Quotation not less than 60 days from the due date of tender
- **12.** <u>Technical Bid Opening:</u> The technical bid will be opened on **05.11.2020 3:00pm** at the Department of **Chemical Engineering**, IIT Madras and the **financial bids** of those tenders who are technically qualified will be opened at a **later date under intimation to them**.
- **13. Performance Security:-**The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply within 14 days from the issue of work/purchase order. The Performance Security should be furnished in the form of an Account Payee DD / FD Receipt from the commercial bank (or) Bank Guarantee from any nationalized bank in India.
- **14. Accept /Reject**: IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.
- **15. Settlement of Disputes:** Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.
- **16. Risk Purchase Clause**: In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
- 17. Unsolicited offers: "This notice is being published for information only and is not an open invitation to quote in this limited tender. Participation in this tender is by invitation only and is limited to the selected registered suppliers. Unsolicited offers are liable to be ignored. However, suppliers who desire to participate in such tenders in future may apply for registration as per procedure." The Website for Registration of vendors is http://web.iitm.ac.in/supplier/ and the mail address for queries is "workflow@rt.iitm.ac.in".

Yours sincerely,

Prof. Rajagopalan Srinivasan, Department of Chemical Engineering IIT Madras Chennai - 600 036

Specifications for Screen Based Eye Tracking System

- **Sampling Frequency**: 120 Hz or higher
- **Eye Tracking Principle**: Pupil and corneal reflection technique. Use of head model is preferred.
- **Head Box** (free head movement): 30 cm (width) x 25 cm (height) within operating distance of 50 80 cm. Larger head box is preferred
- **Tracking Accuracy**: 0.3 degree or better
- Operating distance: 50 80 cm or better
- **Screen Size**: 24 inch or better
- Eye Wear compatibility: It is preferred to have eye tracker work with glasses that are of non IR-blocking type.
- System Latency: less than 50 ms. Lower latency is preferred.
- Blink Recovery Time: 1 frame or instantaneous
- Output Data: Time Stamp, Gaze position (raw as well as filtered) & Pupil Diameter Size for left and right eyes separately. It is desired to have more information like fixations, saccades, blinks etc.
- Data Connectivity: The eye tracking system should export time-stamped output
 through a user programmable API / SDK. Additional options to connect with
 standard bridge platforms such as Imotions and/or e-prime should be explicitly
 mentioned.
- **Connectors:** Compatible with USB A port in computer.
- Optional Associated Software Module: It is preferred to have a dedicated software that can perform analytics on the eye tracking data from the hardware. It should have a validity of 10 years or more.
- **Operating System**: The eye tracking system should be compatible in Windows 10 or higher. It is also desirable to have the system compatible with Linux
- **Power Options:** Powered via computer USB port and/or external source using AC power adapter. The AC power adapter, if provided, should be compatible to standard Indian power system specification (230 V AC, 50 Hz frequency).

- Documentation: A detailed document providing information about dimension, weight, power consumption, connectors, power options, processing, cameras and type of illuminator should be provided.
- Calculations of Accuracy and Precision: It is required to include detailed accuracy and
 precision calculation studies for the eye tracker.
- Prior Expertise: Vendors must have sufficient experience in supplying equipment to reputed
 organizations for research purpose. Experience of the end users will also be used as a criterion
 for the selection of bids that meet technical requirements.