



EXPRESSION OF INTEREST (EOI) FOR SHORTLISTING OF THE SUPPLIER/ MANUFACTURER FOR SUPPLYING AND INSTALLING THE TEST FACILITIES OF CAMERA MONITORING DEVICE AS PER DRAFT AIS 001(PART 1)(REV. 2)/D1 FOR COMPONENT TEST LAB AT ICAT - MANESAR

EOI No. ICAT/EOI-CTL/01

1. BACKGROUND

ICAT (International Centre for Automotive Technology) Manesar is one of the Testing Agencies and R&D centres in Northern India under the Ministry of Heavy Industries, Government of India.

2. ICAT intends to identify prospective suppliers for following scope of work:-

- 2.1 Manufacturing, Supply, Installation, and Commissioning of Testing facilities for Camera monitoring devices as per Draft AIS 001(Part 1)(Rev. 2)/D1 and ISO: 15008-2017 at ICAT, Manesar.
- 2.2 The Supplier / Manufacturer shall also be responsible for validation of the Test systems (Test property will be provided by ICAT) as per Draft AIS 001(Part 1)(Rev. 2)/D1 and ISO: 15008-2017 as well as for imparting trainings to ICAT officials.

Note : Bidders may raise their queries at devyani@icat.in or amit.karwal@icat.in

3. SCOPE:

The Supplier/ Manufacturer has to design, develop, and Supply the suitable Test facilities to conduct functional testing of Camera Monitoring Device as per Cl. No. 6.2.2.2 and 6.2.2.3 of Draft AIS 001(Part 1)(Rev. 2)/D1 and mentioned below:

- Facility to measure Minimum Contrast Ratio
- An illumination of $3,000 \pm 300$ lx (as input of measurement)
- A Light source (simulated sun) light of 40 klx, spanning an angle between 0.6 and 0.9° with an elevation angle of 10° (directly or indirectly via a mirror) removed from the optical axis of the sensor. The light source shall have a spectrum D65 with a tolerance of $\pm 1,500$ K and will be homogeneous in space

and time within a tolerance of 2 klx. The emission of the light source in infrared shall be negligible.

- Facility to measure minimum contrast under various light conditions as mentioned in ISO: 15008-2017
- Facility to measure Luminance contrast of the monitor of Camera Monitoring device
- Facility to measure luminance white level and standard isotropy range and extended Isotropy range of monitor of Camera Monitoring device
- Facility to measure luminance and contrast rendering at direct sunlight condition, day condition with diffuse ambient light, and sunset condition night condition.
- Facility to measure background luminance and maximum illuminance of the monitor.
- Facility for sky-light exposure test of Camera Monitoring device (Refer subclause 7.8.2., Test 2 ISO 16505:2015)
- Facility to measure Grey scale rendering and Colour rendering of Camera Monitoring device
- Facility to measure Point light source detection factor of Camera Monitoring device
- Facility to measure Sharpness and depth of field of Camera Monitoring device
- Facility to measure Geometric distortion of Camera Monitoring device
- Facility to measure Time behavior of Camera Monitoring device

4. QUALIFICATION REQUIREMENTS

The suppliers meeting the following conditions need only apply:

4.1 CONSTITUTION OF BIDDER

- 4.1.1 The supplier/ Manufacturer shall necessarily be a legally valid entity either in the form of Proprietary firm, Partnership firm, Private Limited Company or a consortium of several firms.
- 4.1.2 Expertise in the field of designing & manufacturing of Optical based similar test rigs/ systems from last 5 years. The supplier is required to furnish the relevant proof in the form of document.
- 4.1.3 Minimum average turnover of the company for last 3 years (2018-19, 2019-20 & 2020-21) shall be Rs 1.5 Cr.
Relevant proof to substantiate the same shall be submitted, such as work orders executed or audited balance sheets.

5.0 SUBMISSION OF DOCUMENTS

The EOI must include the following documents to substantiate technical, commercial and financial qualifying requirements:

- 5.1. Copies of the original documents defining the constitution or legal status, place of registration and principal place of business, written power of attorney of the authorized signatory.
 - 5.2. Experience in works of similar nature and volume during the last 5 years and details of works under way or contractually committed: and clients who may be contacted for further information /reference on those contracts.
 - 5.3. Reports on the financial standing of the firm, such as profit and loss account & Balance sheets and auditors reports etc for the last three financial years.
 - 5.4. The bidder is required to submit the proposal along with all Technical parameters and calculations for the scope mentioned at 2.1.
 - 5.5. Information regarding any litigation, current or during the last three years, in which the firm is involved, the parties concerned, and disputed amount.
 - 5.6. Photocopy of the PAN card, Income Tax Registration No., GST Registration No., VAT Registration.
- 5.0 ICAT reserves the right to reject any/all EOI bids without assigning any reason.

6.0 SUBMISSION OF EOIs

ICAT may invite tender from the shortlisted SUPPLIER/MANUFACTURERS for the said work.

Expression of interest [EOI] to be submitted in duplicate latest by **31st December, 2022** up to 15.00 hrs at the following address:

Sr. Manager- Procurement

**International Centre for Automotive Technology (ICAT)
Plot no.-26, Sector-3, HSIIDC IMT Manesar,
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