



## Indian Institute of Technology Jodhpur

N.H. 62, Nagaur Road, Karwar, Jodhpur - 342030, Rajasthan (India)

☎ 0291-280-1502 | ✉ office\_me@iitj.ac.in

Website: Department: [www.iitj.ac.in/mechanical-engineering](http://www.iitj.ac.in/mechanical-engineering) | IITJ: [www.iitj.ac.in](http://www.iitj.ac.in)

### INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

#### Request For Technical Information and Pro Forma Quotations

#### For Procurement **Water tunnel with Optical and Laser-based Flow visualization equipment and traverse systems**

### 1 Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure *Water tunnel with Optical and Laser-based Flow visualization equipment and traverse systems* for academic and research purposes.

Before initiating the formal procurement process, the Institute invites Technical Information and Indicative Pro Forma Quotations from eligible Original Equipment Manufacturers (OEMs) or their authorized representatives.

### 2 Purpose

The objectives are to:

- Obtain technical information from prospective OEMs/authorized representatives.
- Obtain indicative Pro forma quotations for estimating the procurement cost.

### 3 Disclaimer

This document is issued **only for obtaining technical information and indicative ProForma quotations.**

Submission of information under this proposal:

- shall **not** be treated as a financial bid;
- shall **not** constitute any commitment on the part of IIT Jodhpur to procure the equipment;
- shall **not** confer any right upon the participating firm for award of any future contract;
- shall **not** automatically qualify the responding firm for participation in any future tender.

The Institute reserves the right to modify the technical specifications, estimated cost, procurement methodology, or procurement timeline based on its requirements.

### 4 Equipment Details

- Name of Equipment: **Water tunnel with Optical and Laser-based Flow visualization equipment and traverse systems**
- Quantity: **01**
- Broad Functional Requirements (The essential functions or capabilities that the equipment should have, without mentioning a specific make, model, or brand):



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| S. NO. | COMPONENT / FEATURE        | BROAD SPECIFICATION                                                                                                                                                                                                                                   |
|--------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Flow quality               | Channel can be switched between closed and open; flow upstream of test section should have uniform velocity profile.                                                                                                                                  |
| 2      | Operating range            | Variable free stream velocity via VFD-controlled pump suitable for intended experiments (see below).                                                                                                                                                  |
| 3      | Test section               | Should be sufficiently sized to perform intended experiments (see below); distortion free viewing; model-mounting provisions including force/torque balance for drag-lift measurement; optically transparent walls for laser-sheet and camera access. |
| 4      | Traverse system            | Motorized traverse, computer controlled and synchronizable with DAQ; Load capacity for mounting camera/probe.                                                                                                                                         |
| 5      | Instrumentation            | Sensors for measuring flow rate, velocity; PIV + LDV/LDA, pressure and temperature, water depth gauge for open channel; DAQ                                                                                                                           |
| 6      | Optical / LASER            | Suitable laser with light sheet optics; high-resolution high speed camera with synchronizer/timing unit; seeding particles; flow visualization using dye injection and hydrogen bubble                                                                |
| 7      | Water quality and material | Filtration loop; corrosion resistant materials; fill, drain and level-control arrangements                                                                                                                                                            |
| 8      | Intended Experiments       | Bluff body wake and vortex dynamics; boundary layers, transition and separated flows; hydrodynamic loading; turbulence characterization.                                                                                                              |

## 5 Eligibility Criteria

Interested firms should:

- Be an Original Equipment Manufacturer (OEM) or an authorized distributor/dealer.
- Have experience in supplying similar equipment.
- Have adequate installation and after-sales service support in India.

## 6 Information/Documents to be Submitted

The interested firms shall submit the following (Annexure-I):

- 1) Company Profile.
- 2) Details of the OEM.
- 3) Product Brochure/Catalogue.
- 4) Detailed Technical Specifications.
- 5) Compliance with the Broad Functional Requirements.
- 6) List of previous users/clients with installation reports
- 7) Details of Warranty.
- 8) Details of After-Sales Service Support.



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- 9) Authorization Letter from OEM (where applicable).
- 10) Any additional technical information relevant to the offered equipment.

### 7 Pro forma Quotation

- Interested firms are requested to submit a Pro forma Quotation (Annexure-II) along with their Request For Technical Information and Pro Forma Quotations response. Indicative Pro Forma quotation in Indian Rupees (INR), including the cost of the equipment, essential accessories, taxes, duties, freight, insurance, installation, commissioning, training, and any other associated charges. Wherever applicable, the Annual Maintenance Contract (AMC) and/or Comprehensive Maintenance Contract (CMC) charges and spare parts shall be quoted separately as additional charges.
- Expected delivery schedule and other relevant technical and commercial information.

### Important Note:

- The Pro Forma quotation is required only for cost estimation and budget planning purposes.
- The prices quoted shall be indicative/non-binding.
- The Pro Forma quotation shall not be treated as a financial bid.
- Submission of a Pro Forma quotation shall not confer any right or preference in the subsequent procurement process.

### 8 Presentation/Demonstration

The Institute may invite for a technical presentation or product demonstration. The date and venue shall be communicated separately.

### 9 Submission :

Interested firms may submit their Proforma Quotations on or before the due date in sealed cover or through email (as applicable).

The envelope/email should be superscribed as:

"Request For Technical Information and Pro forma Quotations for Procurement of **Water tunnel with Optical and Laser-based Flow visualization equipment and traverse systems** "

### 10 Important Dates:

| Activity                             | Date                       |
|--------------------------------------|----------------------------|
| Publication                          | <a href="#">28/07/2026</a> |
| Last Date of Submission              | <a href="#">08/08/2026</a> |
| Technical Presentation (if required) | To be informed             |
| Clarification Meeting (if required)  | To be informed             |



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### 11 General Terms & Conditions

- 1) This **Request For Technical Information and Pro forma Quotations** is issued only for obtaining technical information and **Pro Forma** estimates.
- 2) The Institute reserves the right to accept or reject any or all responses without assigning any reason.
- 3) Submission of an Request **For Technical Information and Pro forma Quotations** does not create any contractual obligation.
- 4) The Institute may seek additional information, technical clarifications, demonstrations, or presentations from any participant.
- 5) The Institute may modify the technical requirements based on the responses received.
- 6) The final technical specifications may be prepared by the User Committee after evaluating all **Request For Technical Information and Pro forma Quotations** responses.
- 7) The subsequent procurement, if any, shall be carried out through an appropriate procurement method in accordance with the GFR 2017 and applicable procurement rules.
- 8) Participation in this **Request For Technical Information and Pro forma Quotations** does not automatically entitle any firm to participate in or receive any preference during the subsequent tender process.

### 12 Contact Details:

Name: [Dr. Ashish Pathak](#)

Designation: [Assistant Professor](#)

Department: [Mechanical Engineering](#)

Email: [apathak@iitj.ac.in](mailto:apathak@iitj.ac.in)



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## Annexure-I

### Request For Technical Information and Pro forma Quotations Response Format

1. Name of the Firm:
2. Registered Address:
3. Name of OEM (if applicable):
4. Contact Person:
5. Email:
6. Phone:
7. Product Name and Model:
8. Brief Technical Description:
9. Compliance with Broad Functional Requirements:
10. List of previous users/clients with installation reports:
11. After-Sales Service Details:
12. Any Additional Features:
13. Remarks (if any).



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### Annexure-II

#### Format for Pro forma Quotation

| S. No. | Description                                                                                                                                                                                                                   | Amount (INR) |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1      | Indicative Pro forma quotation in Indian Rupees (INR), including the cost of the equipment, essential accessories, taxes, duties, freight, insurance, installation, commissioning, training, and any other associated charges |              |

**Warranty Period:**

**AMC/CMC Charges (after warranty):**

**Delivery Period:**

**Authorized Signatory**

Name:

Designation:

Company Seal & Signature: