Indian Institute of Technology Jodhpur
N.H. 62, Nagaur Road, Karwar, Jodhpur - 342030, Rajasthan (India)
☎ 0291-2801602 | ✉ office_physics@iitj.ac.in
Website Department: https://www.iitj.ac.in/physics | IITJ: www.iitj.ac.in

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

Request For Technical Information and Pro Forma Quotations

Z-Scan Setup

1. Introduction
The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure a **Z-Scan** Setup 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 Pro Forma 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: **Z-Scan Setup**
- 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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(The above requirements are indicative and may be revised after evaluation of the responses.)

Technical Specifications for Z-Scan Setup

Specification	**Minimum Technical Requirement**
System Type	A customized Z-Scan Setup.
Applications	For analyzing the second and third order nonlinear optical properties of the materials of interest.
Laser specifications	1. 1064/532 nm laser wavelength with pulse energies of a few milli Joules or higher. 2. Repetition rate 10 Hz or higher 3. Pulse duration is less than 30 picoseconds 4. Triggering mode: both internal and external 5. Spatial mode: TEM00 (Gaussian) 6. Beam divergence < 1 m rad 7. Beam diameter >1 mm 8. Beam pointing stability < 30 micro radians 9. Pre pulse contrast >200:1 or better 10. Polarization: Linear, 100:1 or better
Detector specification	1. Boxcar average system with analog/digital display meters to optimize the measurement. High speed gated integrator consisting of a gate generator, gate integrator and averaging circuit. The gate generator should be capable of generating gate pulses of width down to 2ns with continuously adjustable delay between 2ns-100ms. 2. A fast sampler module that provides discrete gate widths 100ps, 200ps, 500ps and 1000ps should also be included. 3. An analog math processor that performs a variety of functions without the need of a computer should be provided. 4. It should be possible to trigger the integrator both internally and externally and average up to 10,000 samples.

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<table>
<tr><td>Required Optics and Opto-mechanics</td><td>
<table>
<tr><td>Calibrated Si photodiode 350-1100 nmn with active area 10X10 mm</td><td>4</td></tr>
<tr><td>Motorized liner Translation stage with Matlab compatibility (Travel distance 150 mm, 1mm pitch precision)</td><td>1</td></tr>
<tr><td>Green mirrors and IR mirrors 1 inch diameter</td><td>10</td></tr>
<tr><td></td><td></td></tr>
<tr><td>12mm diameter and 75 mm long post</td><td>10</td></tr>
<tr><td>12mm diameter and 100 mm long post</td><td>10</td></tr>
<tr><td>12mm diameter and 150 mm long post</td><td>10</td></tr>
<tr><td>Pedestal post holder</td><td>30</td></tr>
<tr><td>Pedestal fork</td><td>30</td></tr>
<tr><td>Right Angle Post Clamp, 12 mm diameter,</td><td>15</td></tr>
<tr><td>Kinematic mirror mount for 1" or 25mm optics and 1" or 25 mm lens tubes,</td><td>10</td></tr>
<tr><td>Rigid lens mount for 1 inch diameter lens</td><td>10</td></tr>
<tr><td>Uncoated plano-convex lens diameter 2 inch, focal length 80, 100, 150, 200mm, 300 mm</td><td>1 set</td></tr>
<tr><td>Rigid lens mount for 2 inch diameter lens,</td><td>10</td></tr>
<tr><td>Uncoated plano-convex lens diameter 1 inch, focal length 50mm, 80, 100, 150, 200mm, 300 mm</td><td>1 set</td></tr>
<tr><td>Absorptive ND filters – unmounted
Size: 25 mm diameter,
Optical densities = 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 1, 1.3, 1, 2, 3</td><td>2 set</td></tr>
<tr><td>Stackable filter wheel for 1 inch optics</td><td>3</td></tr>
<tr><td>Variable Round Aperture With Mount 25</td><td>2</td></tr>
</table>
</td></tr>
<tr><td>Data Export</td><td>TIFF, BMP, PNG, JPEG, CSV, PDF, and other standard formats.</td></tr>
<tr><td>Operating System</td><td>Computer System with latest version.</td></tr>
<tr><td>Installation</td><td>Complete installation, calibration, commissioning, acceptance testing, and demonstration at the user's laboratory.</td></tr>
<tr><td>Training</td><td>Minimum 3 days on-site operation, software, application, and maintenance training.</td></tr>
<tr><td>Documentation</td><td>Operation manual, service manual, calibration certificate, software manual, electrical drawings, and test reports.</td></tr>
</table>

Warranty	Minimum **3 years comprehensive onsite warranty**, including software updates, spare parts, and technical support.
Compliance	CE, IEC radiation safety standards, ISO-certified manufacturing facility, and applicable electrical safety standards.

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.
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 Z- Scan Setup"

8. Important Dates

Activity	**Date**
Publication	27th July 2026
Last Date for Submission	7th August 2026
Technical Presentation (if required)	To be informed
Clarification Meeting (if required)	To be informed

10. 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.

11. Contact Details

Name: Dr. Sagar Kumar Verma
Designation: Assistant Professor
Department: Physics
Email: sagarkv@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

Sl. 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