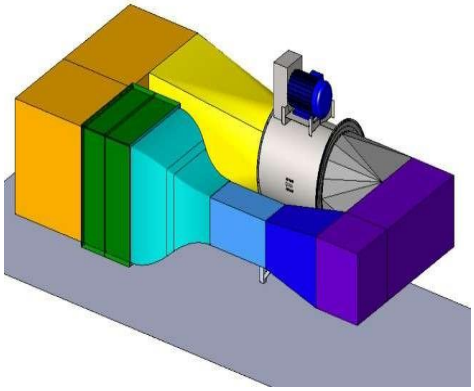
GOVERNMENT of MADHYA PRADESH

Invites

EXPRESSION OF INTEREST

Expressions of Interest (EoI) from reputed, competent, and experienced parties for undertaking the "Design, Construction, Supply, Installation, and Commissioning of a Calibration Wind Tunnel Facility at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh.



The Ministry of New and Renewable Energy (MNRE) and Ministry of Power, Government of India, are jointly developing an Exclusive Manufacturing Zone for Power and Renewable Energy Equipment at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh.

Madhya Pradesh Industrial Development Corporation Ltd. **(MPIDC)**, a Government of Madhya Pradesh Undertaking, invites **Expressions of Interest (EoI)** from reputed, competent, and experienced parties for undertaking the "Design, Construction, Supply, Installation, and Commissioning of a Calibration Wind Tunnel Facility. Including but not limited to other necessary support needed such as cost estimates for the establishment of a new calibration wind tunnel facility in accordance with IEC 61400-12-1, MEASNET and IECRE OD requirements at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh.

Detailed Expression of Interest (EoI) document can be downloaded from: invest.mp.gov.in

EOI Publish Date	**14/10/2025**
Queries submission by	**24/10/2025**
Presentation Submission by	**29/10/2025**
Presentation Scheduled on	**Will be Intimated Later**
Last Date to submit EoI	**7/11/2025**

EXPRESSION OF INTEREST (EoI)

For Design, Construction, Supply, Installation, and Commissioning of a Calibration Wind Tunnel Facility at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh

1. Background

The Ministry of New and Renewable Energy (MNRE) and Ministry of Power, Government of India, are jointly developing an Exclusive Manufacturing Zone for Power and Renewable Energy Equipment at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh. This Manufacturing Zone is intended to act as a national hub for manufacturing and testing of renewable energy equipment, providing world-class facilities and infrastructure. The Madhya Pradesh Industrial Development Corporation Limited (MPIDC), a Government of Madhya Pradesh undertaking, has been designated as the nodal agency for implementation.

As part of this initiative, MPIDC proposes to establish a state-of-the-art Calibration Wind Tunnel Facility. The facility shall be specifically dedicated to the calibration of cup anemometers and wind vanes, ensuring conformity with:

- IEC 61400-12-1 (latest edition in vogue),
- MEASNET Anemometer Calibration Procedure (current version), and
- relevant IECRE Operational Documents (ODs).

In this context, MPIDC, hereby invites submission of Expressions of Interest (EoI) from reputed, competent, and experienced parties for undertaking the "Design, Construction, Supply, Installation, and Commissioning of a Calibration Wind Tunnel Facility at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh."

The proposed location for the facility measures approximately 50 meters × 130 meters. A tentative layout is provided in Annexure-1 for reference; however, participants may suggest improvements or refinements to optimize utilization of the site. The proposed facility shall be executed on a turnkey basis and shall meet the highest technical standards and specifications as prescribed in the tender, including full compliance with IEC 61400-12-1 (latest edition), MEASNET procedures, and relevant IECRE operational documents.

It shall be the responsibility of the interested parties to familiarize themselves with the site conditions, infrastructure requirements, and technical parameters before submission of their proposals at the tender stage. Compliance with all statutory, regulatory, and technical requirements shall rest with the selected respondent.

MPIDC encourages all prospective and experienced parties to participate in this EoI, as respondents who submit their EoI in response to this notice may be accorded preference during the evaluation of the subsequent tender process, which will be announced by MPIDC, Bhopal in due course.

2. Indicative Scope (for context only)

The successful respondent shall be responsible for providing complete turnkey solutions for the "Design, Construction, Supply, Installation, and Commissioning of a Calibration Wind Tunnel Facility at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh." The indicative scope (for context only) shall include, but not be limited to, the following:

2.1 Design and Engineering

- Preparation of detailed engineering design of the wind tunnel in accordance with IEC 61400-12-1 (latest edition), MEASNET Anemometer Calibration Procedure, and IECRE Operational Documents.
- Aerodynamic, civil, mechanical, electrical, HVAC, and acoustic designs including site-specific considerations (foundation design, vibration isolation, geotechnical inputs, power distribution, etc.).
- Integration of flow-conditioning elements (honeycomb, screens, contraction, diffuser, silencers) to meet required flow quality parameters.
- Preparation of "Issued for Construction" drawings and technical documentation for approval by MPIDC.

2.2 Civil and Structural Works

- Design and execution of the foundation, inertia block, and structural supports based on soil and load conditions.
- Construction of the facility building with provisions for climate control, acoustic treatment, fire safety, and utilities.
- Development of the complete building infrastructure, including equipment inventory space, store room, waiting room, reception area, parking facilities, and other amenities as detailed in Annexure 1, shall be undertaken by the bidder.
- Provision of cable trenches, access pathways, and necessary infrastructure as per approved designs.

2.3 Supply and Manufacturing

- Manufacture, supply, and delivery of all wind tunnel components, including tunnel sections, fan system, drive system, flow-conditioning devices, vibration isolation systems, and safety systems.
- Supply of instrumentation, data acquisition/control systems, and reference measurement equipment with valid ISO/IEC 17025 calibration certificates traceable to SI units. Calibration from NABL-accredited laboratories (India) or equivalent internationally recognized bodies or NIST traceable standard (or equivalent) is acceptable.
- Supply of UPS, backup generator integration, HVAC systems, fire detection and suppression systems, and other auxiliary equipment.
- Provision of spare parts, consumables, and maintenance tools as specified.

2.4 Installation and Integration

- Erection and alignment of all tunnel components and subsystems at site.

- Electrical, mechanical, and instrumentation integration with appropriate safety interlocks.
- Installation of data acquisition and control systems, software platforms, and secure IT infrastructure with cybersecurity compliance.
- Integration of HVAC and environmental controls to achieve specified test section conditions.

2.5 Testing and Commissioning

- Factory Acceptance Testing (FAT) prior to dispatch of major equipment.
- Site Acceptance Testing (SAT) post-installation, including verification of flow quality, turbulence intensity, uniformity, angularity, and blockage parameters.
- Validation of uncertainty budgets in compliance with IEC/MEASNET requirements.
- Demonstration of calibration procedures for cup anemometers and wind vanes.
- Noise and safety compliance tests as per international standards.

2.6 Documentation

- Provision of complete project documentation, including:
- Detailed design and engineering drawings.
- Operation and Maintenance (O&M) manuals.
- Calibration procedures and uncertainty budget reports.
- Test reports of FAT, SAT, and compliance with IEC/MEASNET standards.
- Delivery of digital and hard copies of all documents to MPIDC.

2.7 Training and Accreditation Support

- Training of NIWE (National Institute of Wind Energy) staff on operation, calibration procedures, data acquisition, and uncertainty evaluation.
- Preparation of ISO/IEC 17025-compliant documentation for accreditation.
- Assistance in IECRE/MEASNET recognition, including mock audits and support during proficiency testing.

2.8 Warranty, Service, and Maintenance

- Minimum 24-month comprehensive warranty covering all components and systems from the date of commissioning.
- To ensure smooth operations during the initial stabilization phase, the supplier shall station at least one (1) qualified engineer or technical support person at the site for a minimum period of twelve (12) months from the date of formal handover of the facility to MPIDC.
- Provision of preventive and corrective maintenance services, including supply of spares and consumables.
- Undertaking for long-term availability of spare parts and technical support (minimum 10 years).

3. Eligibility Criteria and Mandatory Submissions

To ensure participation of only competent and credible respondents, the following eligibility criteria shall apply. Submissions not meeting these criteria shall be treated as non-responsive and summarily rejected.

3.1 Legal Status and Registration

- The respondent is required be a legally registered entity under applicable laws Governed by Govt. of India (Company/Consortium/Joint Venture).
- In the case of a Joint Venture/Consortium, a notarized Joint Venture Agreement (JVA) shall clearly define roles, responsibilities, and the lead partner.
- The lead partner shall be authorized through a valid Power of Attorney to represent the consortium.

Mandatory Documents:

- Certificate of Incorporation/Registration from Govt. of India (all partners in case of JVA).
- Notarized JVA and Power of Attorney (for consortium/JV).

3.2 Financial Capacity

- The respondent is required to have a minimum average annual turnover of INR 15 Crores (or equivalent in foreign currency) during the last three financial years from engineering, manufacturing, or testing infrastructure projects.
- The respondent must demonstrate a positive net worth in each of the last three financial years.
- For JVs: The lead partner shall meet at least 60% of the turnover and net worth requirement, while the combined financials of all partners shall meet the overall financial requirement.

Mandatory Documents:

- Audited financial statements for the last 3 years.
- Certificate from a Chartered Accountant/Auditor confirming turnover and net worth.

3.3 Technical Experience

- The respondent is required to have successfully designed, supplied, installed, and commissioned at least two (2) wind tunnels or equivalent aerodynamic calibration/test facilities in the last ten (10) years.
- At least one facility is required to have been used for calibration of anemometers or wind vanes in accordance with IEC 61400-12-1 and/or MEASNET guidelines.
- Preference shall be given to respondents with prior experience in ISO/IEC 17025 accreditation support and calibration laboratory establishment.

Mandatory Documents:

- Completion/commissioning certificates from clients.
- Performance certificate from the clients for the successfully established wind tunnel facility.
- Client acceptance letters with contact details.

- Project descriptions with technical specifications and evidence of IEC/MEASNET compliance.

3.4 Human Resources and Competency

The respondent shall provide a list of qualified key personnel with proven expertise in:

- Project management,
- Aerodynamic & structural design,
- Instrumentation and calibration,
- Electrical & mechanical integration,
- Accreditation and quality systems.

Key personnel is required to have relevant project experience and qualifications.

Mandatory Documents:

- CVs of key personnel, highlighting roles and past experience.
- Undertaking that replacements, if necessary, will be of equal or higher qualifications and subject to MPIDC's approval.

3.5 Quality Systems and Accreditation Capability

- The respondent shall ensure that the entity responsible for the manufacture and supply of the calibration wind tunnel (whether the respondent itself or its consortium/joint venture partner) holds a valid ISO 9001:2015 (or equivalent) certification for quality management specifically covering manufacturing activities. ISO certifications held for unrelated activities shall not be considered valid for this requirement.
- The respondent must demonstrate prior experience in preparing documentation and providing support for ISO/IEC 17025 accreditation.
- Evidence of preparing uncertainty budgets and supporting audits/accreditation processes is required to be submitted.

Mandatory Documents:

- Copy of valid ISO 9001:2015 certificate.
- Evidence of accreditation-related support (reports, references, or client acknowledgments).

3.6 Local Presence and Support

- The respondent must demonstrate the capability to provide local technical support in India, either directly or through a formal arrangement with an Indian partner.
- An undertaking is required to be provided guaranteeing availability of spare parts and service support for at least 10 years after commissioning.

Mandatory Documents:

- Proof of Indian office/local partner (Registration/MoU/Agreement).
- Undertaking on 10-year support and spares availability.

3.7 Blacklisting / Debarment

The respondent (and all consortium partners, if applicable) shall not be blacklisted, debarred, or under suspension by any central/state government, PSU, or international agency.

Mandatory Documents:

- Self-declaration confirming no blacklisting, signed by authorized representative(s).

4. Method of Implementation

Submission of EoI: Interested parties are invited to submit their Expression of Interest (EoI) in the prescribed format, complete with all supporting documents, within the specified timeline.

Mandatory Pre-Bid / EoI Meeting:

- Respondents who submit the EoI shall be required to attend the Pre-Bid / EoI meeting, which shall be convened by MPIDC.
- Attendance at the Pre-Bid/EoI meeting is strongly encouraged, as it will provide an opportunity to clarify technical and procedural aspects of the project. Respondents participating in this meeting may be accorded preference during the evaluation of the subsequent tender.
- The Date, Time, and Venue of the meeting shall be communicated after receipt and preliminary evaluation of EoI submissions.

Presentation by Respondents

- During the meeting, each respondent shall make a short presentation (10–15 minutes) covering the following aspects:
    - Past experience in establishing wind tunnel facilities;
    - Technical capability in the design, development, and execution of wind tunnel facilities;
    - Proposed tentative layout of the Calibration Wind Tunnel Facility, based on the site dimensions provided in Annexure 1;
    - Proposed approach and methodology for execution of the project; and
    - Detailed budgetary provisions and approximate cost estimations for the project.
- The presentation will help the Technical Committee understand the respondent's expertise and readiness for the tender stage.

Evaluation of EoI Submissions and Issue of RFP / Tender Documents

- The EoI documents shall be evaluated by a Technical Committee constituted by MPIDC.

Based on the evaluation of the EoI submissions, suitable clauses, conditions, and technical requirements may be incorporated or modified in the subsequent tender specifications to ensure alignment with project needs.

Right of Rejection

- MPIDC reserves the right to reject any or all EoIs received at any stage without assigning any reason.
- Late submissions, incomplete documents, or EoIs not in the prescribed format shall not be considered.

5. Response

Interested Respondents shall submit their Expression of Interest (EoI) proposal in a sealed cover, clearly super-scribed:

> "EoI for Design, Construction, Supply, Installation, and Commissioning of a Calibration Wind Tunnel Facility at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh"

The proposal is required to be submitted in the prescribed format along with all supporting documents demonstrating compliance with the Eligibility Criteria and relevant experience.

The EoI submission should include:

a) Covering letter on company letterhead.
b) Company profile, legal registration documents, and financial statements.
c) Details of relevant past projects with client certificates.
d) List of key technical personnel with qualifications and experience.
e) Confirmation of acceptance of terms and conditions.
f) Any other information specified in the EoI document.
g) All mandatory documents mentioned above in the EoI document.

The proposal shall be submitted to the following e-mail address on or before [07 November 2025, up to 17:00 Hrs (IST)]:

techcell@mpidc.co.in

Chief Engineer
Madhya Pradesh Industrial Development Corporation (MPIDC)
21-A, Arera Hills,
Bhopal – 462011, Madhya Pradesh

Proposals received after the due date and time shall not be considered under any circumstances. Any clarification on the EoI may be sought in writing to MPIDC at the contact details provided in this document, prior to the last date of submission.

6. Condition under which EOI is issued

The EoI is not an offer and is issued with no commitment. MPIDC reserves the right to withdraw EoI and or vary any part thereof at any stage. MPIDC further reserves the right to disqualify any respondent, should it be so necessary at any stage.

7. Project Timeline [*Timeline includes FAT, SAT, training, and final handover]*

The selected respondent shall complete the awarded work approx.. 18 months from the date of contract signing. The broad activity-wise timeline is as follows:

S. No.	Activity	Timeline
1	Signing of contract, mobilization of project team, submission of detailed work plan and resource schedule.	Within 2 weeks of award
2	Finalization of civil, structural, electrical, aerodynamic design; foundation drawings; complete facility building layout (wind tunnel hall + admin building as per Annexure 1); vibration analysis; utilities plan.	6–8 weeks from contract date
3	Review and clearance of drawings, reports, and specifications.	2 weeks after design submission
4	Site preparation, foundation, inertia block, building construction (wind tunnel facility + admin building including reception, store, cafeteria, conference, parking, etc.), basic electrical and HVAC infrastructure.	18–20 weeks (phased execution, parallel with procurement)
5	Fan system, flow-conditioning devices, ducting, instrumentation, data acquisition & control systems.	16–18 weeks (parallel with civil works)
6	Testing of major sub-systems (fan, flow-conditioning units, DAS, control system) at manufacturer's facility, witnessed by MPIDC/NIWE/third-party agency.	2 weeks
7	Safe packing, shipment, insurance, and delivery of all fabricated components.	3 weeks after FAT
8	Mechanical assembly of tunnel, fan installation, ducting, electrical works, HVAC, instrumentation Integration, and DAS setup.	10–12 weeks
9	Flow quality verification, uncertainty evaluation, environmental control tests, safety validation, and noise compliance (witnessed by MPIDC/NIWE/third party).	3 weeks
10	Training of NIWE staff; preparation of ISO/IEC 17025 documentation; uncertainty budget; mock audits for MEASNET/IECRE accreditation.	2 weeks
11	Submission of O&M manuals, calibration certificates, SAT report, warranty documents, and Formal acceptance.	Within 2 weeks of SAT

8. Reporting and Communication

The selected bidder (after winning the bid) shall work in close coordination with MPIDC's project team throughout the execution of the project. The respondent shall provide:

- Periodic progress reports (monthly or as required by MPIDC) covering design, procurement, civil works, manufacturing, installation, testing, and commissioning activities.
- Immediate intimation of any issues, delays, or risks along with proposed mitigation measures.
- Participation in review meetings (physical/virtual) as convened by MPIDC during the project period.

9. Confidentiality

All information, documents, and data provided by MPIDC or generated during the course of the project shall be treated as confidential by the respondent and its employees/partners. Such information shall be used exclusively for the purpose of executing the project and shall not be disclosed to any third party without prior written consent of MPIDC.

10. Last Date of Submission of EoI

The last date for submission of the Expression of Interest (EoI), complete in all respects and accompanied by all required enclosures, is 07 November 2025, up to 17:00 Hrs (IST).

Submissions received after the due date and time will not be considered.

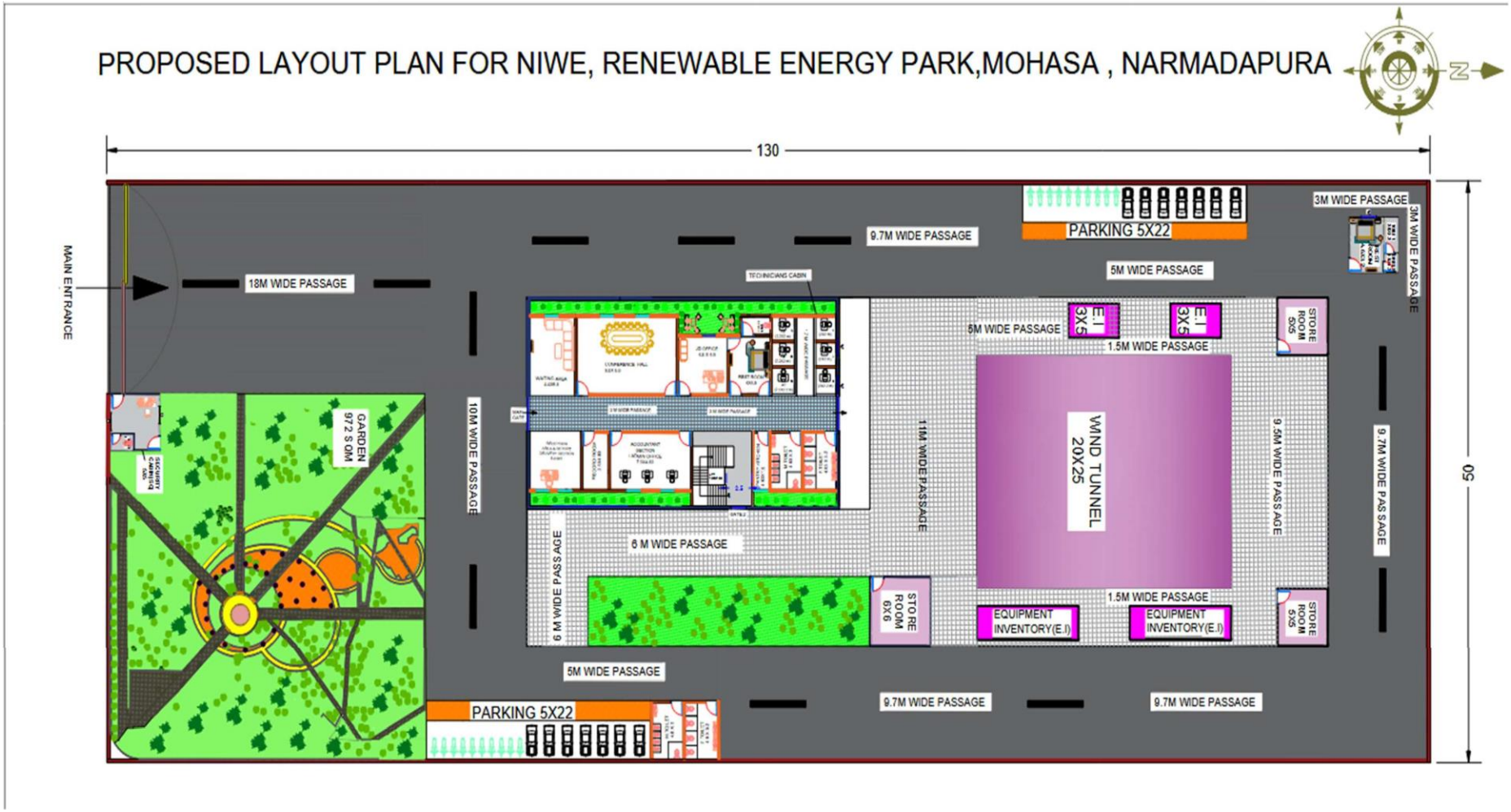
11. Contact Information

For any clarifications or further details regarding this EoI, interested respondents may contact:

Chief Engineer
Madhya Pradesh Industrial Development Corporation (MPIDC)
21-A, Arera Hills, Bhopal – 462011, Madhya Pradesh
Email: techcell@mpidc.co.in

Annexure I

Tentative layout



Annexure II – Covering Letter

To,
The Chief Engineer,
Madhya Pradesh Industrial Development Corporation (MPIDC)
21-A, Arera Hills, Bhopal, Madhya Pradesh

Subject: Submission of Expression of Interest (EoI) for Design, Construction, Supply, Installation and Commissioning of Calibration Wind Tunnel Facility at Mohasa-Babai Industrial Area, District Narmadapuram, Madhya Pradesh.

Sir,

With reference to your EoI dated _____, we hereby submit our Expression of Interest for participation in the above project. We have read and understood the terms and conditions of the EoI and agree to abide by them. We confirm that we have enclosed all Annexures (III–X) as required.

We confirm our eligibility, experience, and capability to undertake the project as per the requirements of MPIDC. All information provided is true and correct to the best of our knowledge.

We understand that submission of this EoI does not constitute any guarantee for award of contract and that MPIDC reserves the right to accept or reject any or all submissions without assigning any reason.

Authorized Signatory:
Name:
Designation:
Organization:
Date:
Seal:

Annexure III – Organization Profile

Name of Lead Applicant (Company / Organization)	
Registered Office Address	
Country of Incorporation	
Type of Organization (Manufacturer / Developer / EPC / Consultant)	
Details of Indian Partner/Representative (if already identified)	
Details of Proposed / Potential JVC / Consortium Partners (if applicable)	
Contact Person (Name, Designation, Email, Phone, Postal Address)	

Annexure IV – Financial Information

Year	Turnover (INR/Equivalent)	Net Profit (INR/Equivalent)	Supporting Document Attached (Yes/No)	Remarks
2022-23				
2023-24				
2024-25				

Annexure V – Relevant Technical Experience

Project Name & Location	Client / End User	Scope (Design/Build/Calibration Facility)	Capacity / Scale	Year of Completion	Documentary Proof Attached (Yes/No)	Support Services Provided (Training, AMC, Warranty, Upgrades)

Annexure VI – Human Resources / Key Personnel

Name	Designation/Role	Relevant Experience	Qualification	CV/Document Attached (Yes/No)	Remarks

Annexure VII – Quality Accreditations

Accreditation / Certification	Issuing Authority	Valid Till	Supporting Document Attached (Yes/No)	Remarks

Annexure VIII – Local Support Capability

Provide details of your service/support presence in India (offices, partners, service centers). Attach documentary evidence such as MoUs, authorization letters, or agreements with Indian partners, if applicable.

Support Facility / Partner	Location	Type of Support (Service, Spares, Training, etc.)	Documentary Proof Attached (Yes/No)	Remarks

Annexure IX – Product Support Capability

Provide details of product support services offered in past projects (training, warranty, AMC, upgrades). Attach copies of completion certificates, client references, or other supporting documents.

Nature of Support Provided	Duration (Years)	Client / Project Reference	Documentary Proof Attached (Yes/No)	Remarks

Annexure X – Declarations

We hereby declare that:

1. Our firm/organization (including consortium partners, if any) is not blacklisted, debarred, or suspended by any Government agency, PSU, or International Agency.
2. We have no conflict of interest in relation to this EoI or the proposed project.
3. All information and documents submitted as part of our EoI response are true, correct, and complete to the best of our knowledge and belief.
4. We confirm our ability to provide training, after-sales, and product support services, details of which are provided in the annexures.

Authorized Signatory:
Name:
Designation:
Organization:
Date:
Seal & Signature:

Annexure XI – Checklist of Mandatory Enclosures

Sl. No.	Document / Annexure	Submitted (Yes/No)
1	Covering Letter (Annexure II)	
2	Organization Profile (Annexure III)	
3	Financial Information (Annexure IV)	
4	Relevant Technical Experience (Annexure V)	
5	Human Resources & Key Personnel (Annexure VI)	
6	Quality Certifications/ Accreditations (Annexure VII)	
7	Local Support Capability (Annexure VIII)	
8	Product Support Capability (Annexure IX)	
9	Declarations (Annexure X)	