



Expression of Interest (EOI) Document for Development of Pilot Projects on Production of Green Hydrogen from Biomass in the State of Punjab

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PUNJAB ENERGY DEVELOPMENT AGENCY

GOVERNMENT OF PUNJAB

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Disclaimer

Prospective respondents to this Eol acknowledge and agrees that:

- PEDAs has issued this Eol with the best intention to explore the market for eligible and interested applicants and has no compulsions to enter into definitive contractual agreements This Eol does not guarantee the conversion of this Eol into any definitive contractual agreements.
- It is also agreed that PEDAs, in its sole discretion, may reject any and all proposals made by respondent(s), may change the conditions relating to the Eol or cancel this Eol at any time without assigning any reason.
- Prospective respondent(s) acknowledge and agree that response to the Eol is purely voluntary action on their part and for any expenditure on this account shall be borne by the respondent(s).
- The applicants shall bear all cost associated with the preparation and submission of the response to this Eol.



1. Introduction

Punjab Energy Development Agency (PEDA), the State Nodal Agency for promotion and development of Renewable Energy Programmes/Projects in the State of Punjab, invites Expressions of Interest (EOI) from interested organizations for acting as potential end-users/off-takers of Green Hydrogen proposed to be produced from biomass-based interventions in the State.

PEDA intends to implement a pilot demonstration project for production of Green Hydrogen from biomass, leveraging Punjab's significant biomass potential and aligning with the National Green Hydrogen Mission.

This EOI aims to identify technically sound innovative, and scalable project proposals where PEDA can fund innovative biomass to green hydrogen production pathways

The proposed projects shall focus on the technology demonstration for the production of Green Hydrogen from biomass. Through this Expression of Interest (EOI), PEDA aims to co-develop and promote high-impact proposals that contribute to Punjab's progress toward achieving the Sustainable Development Goals (SDGs).

This is not a tender for funding, but a preliminary call for technically sound and co-fundable project ideas, which may be pursued by PEDA for funding.

2. Purpose of the EOI

PEDA is floating this EOI with an intent to co-fund projects Biomass to Green Hydrogen through innovative technology. The projects must be set up in the State of Punjab . Applicants are to review the CfP floated by BIRAC, "Production of Green Hydrogen from Biomass" dated 26-Dec-2025 Applying to this Eoi shall mean that the applicant has undertaken a thorough review of BIRAC's CfP. The same can be accessed on the BIRAC website.

Funding for innovative technology for Biomass to GH2	
Funding available	INR 30.0 crores (25 Crores from BIRAC as per CfP + 5 crores from PEDA) PEDA's funds shall be used towards operation expenses of the plant
Centrally funded PPP schemes available	BIRAC's CfP on Production of Green Hydrogen from Biomass
Role of PEDA	PEDA will act as a co-funding partner; PEDA's funding will be up to lower of 20% of the project cost or up to Rs. 5 crores.
Role of Applicant	Design, Develop and Operate the plant for a minimum period of 5 years.



3. Eligibility

Applicants should be a company registered under Indian Companies Act, 2013 or LLP under LLP Act 2008.

Following categories of applicant may apply:

1. Technology provider.
2. End User / Offtaker
3. Consortium comprising a Technology Provider and an End User / Offtaker

Note: Start-up firms with a minimum of two (02) years of relevant experience may also apply.

4. Salient Features of the Funding

- a) The proposal should be for a technology that has reached TRE 5/6. Studies involving development of proof of concept / early-stage research will not be supported.
- b) The pilot plants should be commissioned within 12 months from the date of LoA.
- c) Applicants can utilize PEDA funds towards eligible operational expenditure (OPEX) excluding land-related charges and statutory taxes. The proposal should indicate proper justifications as in Clause 5.1 Point 4.
- d) Progress Report shall be submitted every 2 months to PEDA till the trial period of 6 months, post which a monthly operation report is to be submitted to PEDA.
- e) Post completion of 6 months of trial, selected applicant must submit project completion report to BIRAC and PEDA disseminating findings, best practices, and lessons learned from the pilot.
- f) Projects demonstrating confirmed offtake arrangements and involving indigenous technology providers shall be given preference.
- g) The hydrogen generated under the project may be utilized for commercial end use, and any revenue or profits arising therefrom shall be subject to a revenue-sharing arrangement, to be agreed upon under a separate MoU / Agreement.
- h) Guidelines for IPR shall be as per BIRAC's notification.
- i) Ownership and disposal of the assts will be as per BIRAC notification.
- j) Guidelines or notifications issued by BIRAC has to be followed.

5. Submission Requirements

Interested applicants must submit a comprehensive proposal package that demonstrates the technical merit, financial feasibility, and strategic alignment of the proposed project. All documents must be submitted in PDF format, via email, by the stipulated deadline.

5.1 Proposal Components

Interested applicants must submit a comprehensive proposal package that demonstrates the technical merit, financial feasibility, and strategic alignment of the proposed project. All documents must be submitted in PDF format, via email, by the stipulated deadline.

Section	Content Description	Page Limit / Notes
1. Cover Letter	A signed letter on official letterhead summarizing the organization's interest, total project cost, and requested support. It should clearly state the project's readiness level and implementation window.	1 page max.
2. Organizational Profile	<p>A brief overview of the lead organization, highlighting:</p> <ul style="list-style-type: none"> – Years of operation (minimum 2 years) – Core areas of expertise – Key technical and managerial resources – Previous relevant projects (especially in demonstration in hydrogen projects) – Summary / Snapshot of financial reports of (FY 2022-23, 2023-24, 2024-25) including the following: <ul style="list-style-type: none"> ○ Net Worth (Capital Reserve plus Revenue Reserve) ○ Turnover (Gross Income) ○ Profit Margin (Total Surplus (Excess of income over expenditure) / Turnover) ○ Liquidity (Current assets / current liabilities) <p><i>Note: Start-up entities are excluded.</i></p>	2 page max.
3. Detailed Project Note	<p>The Project Note should address the following:</p> <ul style="list-style-type: none"> – Title and Summary Table: A summary table including project title, site(s), technology, and other key information – Technology Overview: Description of the core technology, and current maturity level – Implementation Plan: Timeline, proposed deployment phases, and duration of operation 	Max 1 page per subheading

	<ul style="list-style-type: none"> – Team and Roles: Key personnel or partner organizations, including their roles and expertise – Expected Outcomes: Quantity of H2 produced, local employment, Workshops, skills training, and publications – Scalability and Replication: Potential for wider adoption across state – Readiness to Execute: Details of land availability, permits, partnerships, offtake agreements, and any work already completed – clearly mentioned in a separate subheading (to be provided on award of the proposal /application) 	
4. Financial Summary Sheet	<p>Applicants must provide a clear and realistic financial structure, including:</p> <ul style="list-style-type: none"> – Total project cost in INR – Breakdown of funding sources: <ul style="list-style-type: none"> ○ Funding sought from BIRAC ○ Expected or proposed PEDA contribution ○ Contribution by developer / applicant – Cost structure by major components: <ul style="list-style-type: none"> ○ Infrastructure and equipment ○ Project development and engineering ○ Raw materials, power, utilities, and consumables ○ Logistics and manpower ○ Monitoring, training, and dissemination activities (as per BIRAC CfP) ○ Administrative, IT and compliance – Supporting notes on cost assumptions and unit estimates – Availability of funds (secured, pledged, or under discussion) <p><i>Note: The financials must be valid for a period of 120 days from the date of submission.</i></p>	–
5. Annexures (as applicable)	<ul style="list-style-type: none"> – Relevant annexures may include: Letters of Interest, MoUs, or commitment letters from co-funders or partners – Technical specifications or product brochures – Past project reports or media references that demonstrate prior experience in similar domains – Copy of Incorporation Certificate 	As applicable

5.2 Submission Format and Document Packaging

Applicants must compile their proposal into a single PDF document, following the structure, content, and page limits specified in Section 5.1 and the Submission Requirements Table. The final document should be well-organized and clearly labelled.



To avoid email size restrictions, the compiled PDF must be uploaded to a Google Drive folder with download permissions enabled.

Document Preparation Instructions:

- Format: PDF only
- File name: <OrganizationName>_EOI_PEDA2026.pdf
- Upload the file to Google Drive
- Set access to: “Anyone with the link can download” OR shared directly with ec.peda@punjab.gov.in (with download access)

Once the document is ready and uploaded, the downloadable Drive link must be shared with PED A via email as detailed in Section 7.2.

6. Evaluation Methodology

All eligible proposals received under this EOI will be evaluated by PED A based on a structured and transparent assessment framework. The aim is to identify technically mature, financially viable, and strategically aligned demonstration projects that can be co-developed with PED A for submission to suitable national or international funding opportunities.

6.1 Evaluation Stages

The evaluation will consist of the following stages:

1. Preliminary Screening: Verification of completeness, eligibility, and adherence to submission structure and page limits. Proposals not meeting the basic criteria may be rejected at this stage. Screening would be based on the proposed TRL level (minimum TRL 5/6).
2. Technical and Strategic Assessment: A detailed review based on the evaluation parameters listed in Section 6.2.
3. Shortlisting and Due Diligence PED A may seek additional information, clarifications, or conduct virtual discussions with shortlisted applicants. Proposals may also refer to subject experts or funding agencies for feedback before final selection.
4. Final Selection for Nomination: Based on evaluation outcomes, PED A will provide co-funding commitment to shortlisted proposal. If the proposal is approved by BIRAC, PED A will sign MoA with the applicant to define the scope, timeline, project cost, disbursement schedule and the outcomes for the duration of the project.

6.2 Evaluation Parameters

The following parameters will be used by PED A to assess and score proposals during the technical and strategic evaluation stage. Each proposal will be reviewed for both its intrinsic merit and its suitability for nomination under the funding opportunities.



Evaluation Parameters	Description
Innovation	<p>Novelty of the solution within the Indian context or sector.</p> <p>Evaluation based on novelty of the proposed technology to existing technology, IP position and improvement over baseline.</p> <p>Scoring under this criterion shall be qualitative, based on PEDA Project Review Committee evaluation of supporting evidence provided by the applicant against the stated parameters. Maximum score of 10 will be allotted to proposals high on innovation.</p>
Scope for future scale up	<p>Ability of the project to serve as a model for similar deployment elsewhere.</p> <p>Evaluation based on replicable design, availability of inputs at scale and infrastructure compatibility. Scoring under this criterion shall be qualitative, based on PEDA Project Review Committee evaluation of supporting evidence provided by the applicant against the stated parameters. Maximum score of 10 will be allotted to proposals demonstrating a clear scale up potential.</p>
Technical Feasibility of the proposed technology	<p>Evaluation of pilot / test data, risk identification and mitigation.</p> <p>Scoring under this criterion shall be qualitative, based on PEDA Project Review Committee evaluation of supporting evidence provided by the applicant against the stated parameters. Maximum score of 10 will be allotted to proposals demonstrating thorough technical and risk assessment.</p>
Commercial deployment potential	<p>Availability of land, permits, partnerships, and project management capacity, Realistic and credible co-funding structure; demonstrated ability to mobilize resources, identified use cases / offtake potential, time for commercial readiness and cost of Hydrogen.</p> <p>Scoring under this criterion shall be qualitative, based on PEDA Project Review Committee evaluation of supporting evidence provided by the applicant against the stated parameters. Maximum score of 20 will be allotted to proposals demonstrating thorough project structure.</p>



Quantum of Green Hydrogen Production	H ₂ Output (kg/day)	Score
	≥ 50	10
	30 – < 50	8
	15 – < 30	6
	8 – < 15	4
	<8	2

Final Scoring will be based on summation of parameter wise scores.

7. Submission Timeline and Process

Applicants are advised to carefully note the key dates and submission process outlined below. Late or incomplete submissions may not be considered for evaluation.

7.1 Key Dates

Milestone	Date
Release of EOI	30-Jan-26 on PEDA Website
Last date for EOI proposal submission	03-Feb-2026 (by 11:00 AM IST)
Shortlisting and communication to applicants	On or before 04-Feb-2026

7.2 Final Delivery Instruction

All applicants must prepare their proposal according to the structure, content requirements, and page limits detailed in Section 5 and summarized in the Submission Requirements Table.

All proposals must be submitted by email with the required Drive link to: ec.peda@punjab.gov.in

Email Submission Details:

- Subject Line: “EOI Submission – PEDA GH2- 2026”
- Include in Email Body:
 - Name of applicant organization
 - Link to Google Drive (ensure direct download access)

Important Notes:

- Ensure the Google Drive link is active and accessible.
- Proposals must be submitted by 11:00 AM IST of 03 Feb 2026
- Contact for queries: PEDA: +91 7814743945



- At the same time, PEDA reserves the right to reach out to any applicant after proposal submission for additional information, clarifications, or supporting documentation, as part of the evaluation process.
- If the final proposal, submitted in collaboration with a start-up company, is shortlisted by BIRAC, the start-up shall mandatorily infuse a minimum equity of Rs. 25 lakhs into its company before signing the agreement.

Late or inaccessible submissions may be disqualified from consideration.

8. General Terms

EOI only, not a Tender: This document is an invitation for Expressions of Interest only. It does not constitute a commitment to award any contract, funding, or partnership.

No Obligation to Select or Fund: PEDA reserves the right to accept or reject any or all proposals received without assigning any reason. Submission of a proposal does not guarantee selection nomination, or funding under any scheme.

Use of Submitted Information: Information submitted through this EOI may be used by PEDA for further discussions, stakeholder consultations, and alignment with ongoing and upcoming initiatives, including but not limited to MNRE-supported pilot projects, other Central Financial Assistance schemes, and relevant bilateral or multilateral international funding opportunities.

Right to Modify or Cancel: PEDA may modify, postpone, or cancel this EOI at any stage, without incurring any liability. Any updates or clarifications will be communicated through the official PEDA website or via email at ec.peda@punjab.gov.in

Confidentiality and IP: Proprietary information explicitly marked as confidential will be treated with due care and used only for evaluation and project planning purposes. However, PEDA does not guarantee confidentiality of submitted materials unless covered by a separate NDA.

No Costs Reimbursed: PEDA will not be responsible for any costs incurred by applicants in preparing or submitting responses to this EOI.

Jurisdiction: All matters arising under this EOI shall be governed by the laws of India, and subject to the jurisdiction of courts in Chandigarh.