

NTPC Limited

(A Government of India Enterprise)



Invites

Expression of Interest

(EOI)

for

Exploring the vendor base and price discovery for utilization of 1 TPD of Green Hydrogen generated from sea water through Flue Gas Desalination from NTPC Simhadri.

DOCUMENTS OF EOI

This EOI document comprises of the following sections:

- (i) Section I : EOI Information
- (ii) Section II : Introduction
- (iii) Section III : Instructions to the Applicants
- (iv) Section IV : Consideration of Response
- (v) Section V : Application Form and Annexures

Section – I

EOI Information

(GLOBAL INVITATION OF EXPRESSION OF INTEREST)**DETAILED NOTICE INVITING EXPRESSION OF INTEREST (EOI)****EOI No. NTPC/NETRA/EOI-01/2025-26****Date:**

NTPC is Inviting Expression of Interest for exploring vendor base and price discovery for utilization 1 TPD of Green Hydrogen generated from sea water through Flue Gas Desalination from NTPC Simhadri.

DOWNLOAD AND TIMELINES FOR SUBMISSION OF EOI

- a. Interested APPLICANTs may download the documents of EOI free of cost from <https://ntpctender.ntpc.co.in>
- b. **Last date for submission of EOI** : **30 days from the date of publishment**
- c. **Last date for queries/ seeking clarifications** : **15 days from the date of publishment**
- d. **Date of opening of Eoi response** : **after 30 days from the date of publishment**
- e. **Response Validity** : **3 months from the last date for EOI Submission**

1.0 For consideration of EOI, APPLICANTs are required to e-mail signed and scanned copy of EOI duly filled and completed in all respect, through e-mail mentioned hereunder. Email: PRABAKARANS@NTPC.CO.IN

2.0 NTPC shall not be liable for any postal/ Mail delivery issue delays whatsoever in receipt of EOI documents and EOI received after the stipulated date and time shall not be entertained. EOIs submitted without supporting document will summarily be rejected.

3.0 NTPC reserves the right to reject or accept any or all applications, cancel/withdraw the EOI process without assigning any reason whatsoever and in such case, APPLICANT shall not have any claim arising out of such action. NTPC bears no responsibility or liability of any kind in reference to the EOI.

Section - II

Introduction

INTRODUCTION**1.0 About NTPC**

NTPC Limited, established in 1975, is India's largest energy conglomerate, committed to accelerating power development across the nation. Over the decades, NTPC has evolved into a dominant force in the power sector, with operations spanning the entire value chain of power generation. In addition to conventional fossil fuel-based generation, NTPC has diversified into hydro, nuclear, and renewable energy sources, significantly contributing to the reduction of greenhouse gas emissions and supporting India's clean energy transition.

With an installed capacity of approximately 84 GW, NTPC generates over 400 billion units of electricity annually through its network of coal, gas, hydro, and renewable energy-based power stations located across the country. For more information, visit www.ntpc.co.in.

2.0 Intent of the Expression of Interest (EOI)

2.1 Recognizing the strategic importance of producing Green Hydrogen from seawater, NTPC has undertaken a pioneering initiative by establishing a 1 TPD Green Hydrogen Generation Plant at NTPC Simhadri. This facility utilizes Flue Gas Desalination technology to convert seawater into hydrogen, serving as a critical milestone in India's Green Hydrogen Mission. The project not only promotes scalable and cost-effective hydrogen production but also supports the conservation of freshwater resources, reinforcing NTPC's leadership in sustainable energy.

2.2 The purpose of this EOI is to identify interested vendors and facilitate price discovery for the utilization of 1 TPD of Green Hydrogen produced at NTPC Simhadri.

2.3 Responses received through this EOI will be used by NTPC to develop a vendor base and establish pricing benchmarks for the utilization of Green Hydrogen from the Simhadri facility.

2.4 Applicants are encouraged to submit their interest along with relevant inputs as per the formats and annexures provided in this document.

3.0 Indicative Roles and Responsibilities of Parties

The following outlines the indicative roles and responsibilities for the parties. These are subject to refinement during subsequent stages of engagement.

3.1 NTPC's Role:

- NTPC shall provide hydrogen stored in its cascade and shall provide access to its hydrogen cylinder filling facility operating at 150 bar pressure, located within the Simhadri

for the selected Applicant for filling in their cascade.

- NTPC shall set up a dedicated metered system for measurement of H₂ Filled into the Truck/Trailer cascades
- NTPC will extend necessary support during the hydrogen Truck/Trailer cascade/cylinder filling process.

3.2 Applicant's Role:

- Deploy Truck/Trailer with Cascades/cylinders in which hydrogen gas shall be filled. The chosen applicant shall ensure the cascades deployed have requisite license/clearance as per Gas Cylinder Rules.
- Deploy adequate manpower for hydrogen filling, record-keeping, and ensuring compliance with Health, Safety, and Environment (HSE) standards.

Project Name	NTPC Simhadri
Project Location	 NTPC Road, Visakhapatnam Steel Plant, Parawada, Visakhapatnam, Andhra Pradesh 531020  28.7 KM to Visakhapatnam Airport  37.8 KM to Visakhapatnam Railway Station

Section – III

Instructions to the Applicants

INSTRUCTIONS TO THE APPLICANTS**1.0 The Applicants should note that:**

- a. Language of the responses to EOI or any query/clarifications/correspondences shall be in English only.
- b. For expression of interest, Application Form and Annexures given in Section-V shall be duly filled and sent to NTPC by the APPLICANT in soft copy.
- c. Applicants should go through Section-I and Section-II thoroughly before filling and submitting the application form and annexures in Section-V.
- d. Applicants shall mention the name and contact details of two persons, with complete address, phone number and email id.
- e. NTPC Ltd. may, at its sole discretion, ask for additional information/ documents and/ or seek clarifications from the Applicant(s) after the Deadline for submission of response, inter alia, for the purpose of removal of inconsistencies or infirmities in their responses.

2.0 Enquiries and clarifications

Any clarifications on the EOI may be sought to the following via e-mail:

To: PRABAKARANS@NTPC.CO.IN

CC to: PRABHATRANJAN@NTPC.CO.IN

3.0 Corrigendum

At any time before the last date of submission of EOIs, NTPC may, for any reason, whether at its own initiative or in response to a clarification requested by an Applicant, modify the EOI document. The amendment will be posted on the website and will be binding on the Applicants and the Applicant will give due consideration to the same, while they submit their EOIs, and would invariably enclose documents/ information, as required,

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on account of the amendment, as a part of the EOI. NTPC may, at its discretion, extend the deadline for the submission of EOIs.

4.0 Preparation of the response to EOI

The application of EOI shall consist of Annexure-1, 2, of Section-V.

5.0 Validity of the responses

The Applicant shall submit the responses which shall remain valid up to six (6) months after the response Deadline ("Response Validity"). NTPC reserve the right to reject any response, which does not meet the above-mentioned validity requirement.

NTPC may solicit the Applicant's consent for an extension of the period of validity of the response. The request and the response in this regard shall be in writing. In the event any Applicant refuses to extend its response validity as requested by NTPC, NTPC shall terminate processing of such Applicant's responses. An Applicant accepting NTPC request for validity extension shall not be permitted to modify its response.

6.0 Submission of the response to EOI

The responses to the EOI are to be submitted in soft copy via below e-mail format-

To: PRABAKARANS@NTPC.CO.IN

CC to: PRABHATRANJAN@NTPC.CO.IN

Ref. EOI No.

Dated

Submitted to:

**S PRABAKARAN,
Sr. Manager (Green Chemicals), NTPC Simhadri.**

Name, designation & address of the concerned officer of NTPC

Submitted by:

Name, address & contact no. of the Applicant

All the pages of the response should be duly stamped and signed by the authorized signatory. The responses to the EOI should be submitted within the deadline at the e-mail address provided in the Section-I of this EOI.

7.0 Costs and expenses towards response to EOI

The Applicants shall be responsible for all the costs associated with the preparation of the response and participation in discussions and finalization & execution of the documents related with this EOI, NTPC shall not be responsible in any way for such costs, regardless of the conduct or outcome of this short-listing/ selection process.

8.0 Disclaimer

This Expression of Interest (EOI) has been prepared by NTPC Ltd. for response from Indian/Global Company/their Consortium/Affiliates/Representatives for exploring vendor base and price discovery for utilization 1 TPD of Green Hydrogen generated from sea water through Flue Gas Desalination from NTPC Simhadri

In submitting the response to the EOI, the Applicant certify that it understands, accepts, and agrees to the disclaimers on this page. Nothing contained in any other provision of the EOI nor any statements made orally or in writing by any person or party shall have the effect of negating or superseding any of the disclaimers set forth herewith.

Section-IV

Consideration of Response

CONSIDERATION OF RESPONSE**Responsiveness check**

The responses submitted by Applicants shall be scrutinized and responses shall be deemed non-responsive for following reasons:

- Responses that are incomplete, i.e., not accompanied by any of the applicable formats inter-alia covering letter power of attorney, applicable undertakings, provided in more details at annexure in Section-V.
- Responses not signed by authorized signatory and / or stamped in the manner indicated in this EOI.
- Material inconsistencies in the information/ documents submitted by the Applicant
- An Applicant submitting more than one response to this EOI either itself or through an affiliate or subsidiary company.
- Response validity being less than that required as per Clause 5 of section-III of this EOI.
- Response being conditional in nature.
- Response not received by the response Deadline.
- Response having Conflict of Interest.
- Applicant delaying in submission of additional information or clarifications sought by NTPC, as applicable.

All bids that shall meet the responsive check requirements set out above in this section of the EOI document shall be considered as responsive. In case of non-submission of relevant details as above, the responses may be considered as “**non-responsive**”, at the sole discretion of NTPC and will not be considered further.

Section-V

Application Form & Annexures

(GLOBAL INVITATION OF EXPRESSION OF INTEREST)**Annexure-1****FORMAT FOR COVERING LETTER CUM UNDERTAKING**

(The covering letter should be on the Letter Head of the Applicant)

Date : _____ Place : _____

To,

.....

Sub.: (INVITATION FOR EXPRESSION OF INTEREST)

Ref.: EOI No. _____, dated _____ (the "EOI")

Dear Sir,

We, the undersigned [insert name of the "Applicant"] having read, examined, and understood in detail the **(INVITATION FOR EXPRESSION OF INTEREST)**.

We confirm that neither we nor any of our Parent Company/ Affiliate/ Ultimate Parent Company has submitted response other than this response directly or indirectly in response to the aforesaid EOI.

1. We give our unconditional acceptance to the EOI, issued by NTPC, as amended. In token of our acceptance to the EOI, the same have been signed & stamped by us and enclosed to the response. We hereby confirm that the provisions of the EOI shall be binding on us.
2. We have submitted our response strictly as per provisions and formats of the EOI, without any deviations, conditions and without mentioning any assumptions or notes.
3. We hereby unconditionally and irrevocably agree and accept that the decision made by NTPC in respect of any matter regarding or arising out of the EOI shall be binding on us. We hereby expressly waive any or all claims in respect of EOI process. We confirm that there are no litigations or disputes against us, which materially affect our ability to participate or function under the obligations regarding EOI.

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4. Details of the contact person are furnished as below:

Name:

Designation:

Address:

Contact numbers:

email id:

5. We are enclosing herewith the entire response containing duly signed formats in electronic format sent via email to: PRABAKARANS@NTPC.CO.IN as per the EOI for consideration.
6. It is confirmed that our response is consistent with all the requirements of submission as stated in the EOI and subsequent communications from NTPC, if any.
7. The information submitted in our response is complete, strictly as per the requirements stipulated in the EOI and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our response.

We confirm that all the terms and conditions of our response are valid for acceptance for a period of six (6) months from the response Deadline.

8. We confirm that we have not taken any deviation so as to be deemed "**Non-Responsive**" as stipulated in Section-IV of this EOI.
9. We understand that you are not bound to accept any response you receive.
10. We declare that our firm is neither put on Holiday or Black-listed by any Government / PSU / Private firm or Financial Institution.
11. We understand that you are not bound to accept any response you receive.

We remain,

Yours sincerely

(Name, Designation and Signature of Authorized Person)

Annexure-2**APPLICANT'S ORGANIZATION DETAILS TO BE SUBMITTED BY APPLICANT**

(Note: Documents in support of meeting the respective requirement shall be submitted by the Applicant.)

- 1) Name of the Company
- 2) Legal status of the Company
- 3) Brief description of the Company including details of its business groups/subsidiaries/affiliates:
- 4) Date of Incorporation:
- 5) Date of Commencement of Business:
- 6) Full address including Telephone nos. / Fax nos.:
 - a. Registered Office:
 - b. Head Office:
 - c. Address for communication:
 - d. Contact Details:
 - e. Office Address in India, if any:
- 7) Financial Data of Organization (Attach Relevant document in proof of same)

Applicant is requested to submit Annual financial turnover during the last three (3) preceding financial year. Applicant to submit audited Balance Sheet and Profit & Loss account for the above three financial years.

	Financial year 2021-22	Financial year 2020-21	Financial year 2019-20
Turnover			
Net worth			
Profit			

Additional Information for applicants for EOI:

S. No.	Parameter / Description	Details
1	Hydrogen Purity	99.99%
2	Facility Available for Filling	Truck-mounted cascade filling provision – 3 filling points
3	Quantity Uptake per Day	Production capacity of 41 kg/hr, equivalent to ~1 TPD at 150 bar.

Additional Information to be furnished by applicants for EOI:

S. No.	Parameter / Description	Details
1	Type and Capacity of Truck/Trailer applicant willing to deploy	Applicant to furnish
2	Cost of Green Hydrogen applicant willing to pay	Applicant to furnish
3	Additional Information by applicant (Annexure-2)	Applicant to furnish