



## **DEENDAYAL PORT AUTHORITY**

**ISO 9001-2015 & ISO 14001-2015**



Office of Chief Mechanical Engineer,  
2<sup>nd</sup> Floor, Annex-Administrative Office,  
Gandhidham, Kutch, Pin - 370201  
Email: [cme@deendayalport.gov.in](mailto:cme@deendayalport.gov.in)

No. CME/1963/MHFC/2025

Date:03.10.2025

### **EXPRESSION OF INTEREST**

**Sub: “Design, Supply, Installation, Integration, Testing & Commissioning of Metal Hydride technology based Green Hydrogen Storage System and Fuel Cell based Power Generation for Port Applications at Deendayal Port Authority, Kandla”.**

Sir,

Under the Green port initiatives and net zero target of MoSPW, Deendayal Port Authority (DPA) intends to promote and support the National Mission for Hydrogen. Authorised technology providers with patented technology willing to work with DPA can submit their Expression to Interest (Eol) for the work.

Interest and efficient contractor are requested to kindly submit the Expression of Interest (EOI) along with budgetary-offer along with Techno Commercial Offer for the subject work in the prescribed format at **Schedule-B** based on the terms and conditions enclosed at **Annexure- I**.

The work will be carried out as EPC mode wherein all the cost except land, water & electricity, shall be provided by the contractor. The rates quoted must be inclusive of all costs including but not limited to all the materials, labour, all tools & tackles, transportation, Metal Hydride storage system for minimum storage of 3 Kgs. of Hydrogen, Fuel cell for minimum capacity of 4 KW, all the technology & engineering involved in it, which all required for successful demonstration of Green Hydrogen storage and again convert it to electrical power to supply the lights other purpose.

Your Expression of Interest duly signed and stamped at each page along with budgetary offer with techno commercial offer, annexures, forms should reach the following address or by email on or before 08.10.2025.

Address:**Office of the Chief Mechanical Engineer,  
Room No.316, 2<sup>nd</sup> Floor, Annex-Administrative  
Office Building, Gandhidham – 370201, Kutch, Gujarat.  
Email: [cme@deendayalport.gov.in](mailto:cme@deendayalport.gov.in)**

**Sd.-  
Chief Mechanical Engineer  
Deendayal Port Authority**

## Annexure-I

### TERMS AND CONDITIONS

1. The project for demonstration aims to promote the Make in India concept, i.e. **to develop Indigenous “Make In India” Hydrogen power generator and new Intellectual property (IP) in the India.**
2. All tools & tackles, materials, steel renewal, labour, fooding, lodging, transportation, required consumables, electric motors, Fuel Cells, Battery packs, etc. required for successful completion of the work and during operation stage of demonstration of Metal Hydride technology based hydrogen storage and fuel cell based power generation at DPA.
3. The source and Green Hydrogen shall be provided by DPA as produced from existing 1MW Green Hydrogen plant, contractor/technology partner has to make their arrangement to utilize the hydrogen produced for the purpose of storage & power generation through fuel cell.
4. The technology provider has to ensure for the legal use of any patented technology and shall indemnify Deendayal Port Authority from any kind of patent rights claims. Any legal or commercial claims what so ever raised if any shall be dealt and settled by the technology provider them self, DPA will not be any part of it.
5. If any type of intellectual property (IP) will be generated from this technology demonstration of metal hydride, same shall be shared with DPA for at least of 50% share.
6. The timeline for completion of project shall be of six (06) months.
7. Port Entry permit for the labour, officials and materials if required shall be arranged by the contractor/agency/technology partner, DPA may assist by issuing up to letters in this regard.
8. Any type of statutory or required certification shall be in the scope of the contractor/technology partner at their cost.
9. The project shall be executed with best workmanship and all safety precaution shall be take care by the contractor/technology partner for installation of metal hydride based hydrogen storage and fuel cell based power generation demonstration plant.
10. While carrying out the execution of the work, no hindrances shall be created by the contractor/technology partner for any work of DPA, including cargo, man & material handling at the area.
11. The land free of cost shall be provided only for the purpose of installation of this demonstration plant and same shall be utilized for this purpose only. Any office/store space if provided shall be vacated immediately after completion of the work. Thereafter, only space at site for operation & maintenance may be provided free of cost.
12. One year of operation with required manpower during the defect liability period and thereafter, one year of comprehensive annual operation and maintenance (CAMC) shall be provided by contractor/technology partner and the cost shall be within the offered rates. The same can be extended up to 01 year with same terms & conditions and the cost of the same shall be as per the rate quoted by the contractor for CAMC.
13. The Defect Liability Period shall be for the period of minimum one (01) year from the date of satisfactory test and trail & commissioning of the demonstration plant after completion of work.
14. All the rules and regulations governing DPA will be applicable.
15. FORCE MAJEURE: This shall be restricted to acts of GOD only.
16. During the Defect Liability Period if any defect is found due to material/poor workmanship of the contractor, the cost of repair will be borne by the contractor and rework and other auxiliary work if required is to be carried out by the contractor free of cost including the cost of materials and etc.

17. The price shall be including all costs except GST.
18. Performance security @ 5% of the project cost shall be deposited to DPA through Online Digital Transfer or FDR or in form of Bank Guarantee/ Insurance surety Bond, issued from Nationalized/ Scheduled bank (except co-operative banks), having its branch at Gandhidham and balance 5% will be recovered as retention money from running bills of contractor. The 5% of Performance Guarantee shall be released after successful completion of work and the balance 5% shall be released after expiry of defect liability period.
19. Payment Terms:
  - (1) 70% of Sr.No.1 & 2 of BOQ: upon supply at DPA site in good condition and verification & certification by TPIA of DPA.
  - (2) 100 % of Sr. No. 3 and remaining 30% Sr.No.1 & 2 of BOQ: upon installation, integration, testing, trial, commissioning, performance testing after verification & certification by TPIA of DPA.
  - (3) For Sr.No.4 & 5 of BOQ: Payment shall be released on Monthly basis after verification & certification by TPIA.
20. Inspections by TPIA shall be in the scope of DPA and TPIA will verify and certify all payments for this project.
21. Contractor shall be responsible for any damage, theft and fire during the execution of the subject work for his own property. The contractor shall also be responsible for the damages caused to DPA's property due to the reasons attributable to the contractor.
22. Income Tax/ Education cess/TDS on GST as applicable shall be deducted at source while making payment to the contractor for carrying out the work and only net amount shall be paid to the contractor/Technical Partner.
23. The GST Registration No. & Income tax PAN no. (exemption if any) should invariably be submitted along with the quotation.
24. The contractor should strictly follow all statutory rules & regulations like labour law, insurance, safety norms & regulations etc.
25. Correction, if any, should be signed / initialed. White ink corrections are not allowed.
26. Contractor can be held liable for any monetary or non- monetary consequences on account of non-remittance of tax by service provider to central government.
27. The bidder shall examine carefully the instruction and Terms & Conditions and also inspect the site and all factors required for successful completion of the subject work.
28. The contractor is advised to visit the site to understand the nature of the job involved prior to offering the rates. Existing 1 MW Green Hydrogen demonstration plant is installed inside port area at Oil-Jetty-7 of DPA, Kandla, Kutch, Gujarat.
29. Offer shall remain valid for a period of minimum 60 days from the date of submitting the EOI.
30. The contractor shall indemnify, protect and defend at its own cost, DPA and its agent & employees from & against any /all action, claims any kind of losses of damages arising out of:
  - a. Any violation by the contractor in course of its execution of the contract of any legal provisions or any right of third parties.
  - b. Contractor's failure to exercise the skill and care required for satisfactory execution of the contract.

**Sd.-**

**Seal & Signature of  
Contractor**

**Chief Mechanical Engineer  
Deendayal Port Authority**

**Schedule-B**

**Sub.: “Design, Supply, Installation, Integration, Testing & Commissioning of Metal Hydride technology based Green Hydrogen Storage System and Fuel Cell based Power Generation for Port Applications at Deendayal Port Authority, Kandla.”**

<b>Sr. No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Unit Rate (Rs.)</b>	<b>Amount (Rs.)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	Supply of Metal Hydride technology based storage system for min. 3Kgs. of hydrogen gas storage along with all necessary statutory certification including but not limited to all piping, valves, fittings, filters, gauges, control & safety devices, essential components, etc. required for successful demonstration of the project.	Lump sum	01		
2	Supply of continuous power Fuel Cell of suitable capacity to generate final single phase power output of 4KW, compatible with hydrogen tapped from the metal hydride based storage along with all necessary statutory certification including but not limited to power distribution, breaker, batteries, communication interfaces, redundancy, all piping, valves, fittings, gauges, control & safety devices, essential components, plug & play etc. required for successful demonstration of the project.	Lump sum	01		
3	Installation, Integration among metal hydride storage system, fuel cell system and existing Green Hydrogen generation plant, Testing, Trials, Commissioning, Performance Testing complete in all respect for smooth operation of system.	Lump sum	01		
4	Complete operation service of the installed demonstration plant for the period one year after commissioning.	Months	12		
5	Comprehensive operation and maintenance service including spares & required manpower of one year for the installed demonstration plant after completion of 1st year of operation service.	Months	12		
Total Amount (Rs.):					
Total Amount (Rs.) (in words):					

Note:

The rates to be quoted shall be inclusive of all charges, taxes, Cess, Duty etc. except GST.

**Seal & Signature of  
Contractor**

**Sd.-  
Chief Mechanical Engineer  
Deendayal Port Authority**

**Form – A**

**LETTER OF TRANSMITTAL**

(To be typed in Firm's Letterhead)

To

Chief Mechanical Engineer,  
Room No.316, 2<sup>nd</sup> Floor,  
Annex Administrative Office Building,  
Gandhidham – 370201, Kutch, Gujarat.

**Sub: (..... Name of the Work.....)**

**Sir,**

Having examined the details given in EOI Notice and EOI document for the above project, I/we hereby submit our Expression of Interest and the relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed form and accompanying statements are true and correct.
2. I/We have furnished all information and details necessary for EOI and have no further pertinent information to supply.
3. I/We also authorize Deendayal Port Authority or their authorized representatives to approach individuals, employers and firms to verify our competence and general reputation.
4. I/We submit the following certificates in support of our suitability and capability for having successfully provided the services along with prescribed format.
5. We understand that DPA will be at liberty to finalize requirements and issue public tenders for the work.
6. We have visited the site and understood the complete scope of work.

**Signature of Applicant**

Enclosures:

Seal of applicant:

Date of submission:

**Form - B**

**Name of firms/Applicants**

(Organizational Structure)

1	Name & Address of the applicant with Telephone No./Fax No	
2	a) Year of Establishment	
	b) Date & Year of commencement	
	c) Legal status of the applicant (attach copies of original document defining the legal status)	
3	a) A proprietary firm	
	b) A firm in partnership	
	c) A limited company or Corporation/ Joint venture / Consortia	
	d) State owned	
4	Any other information considered necessary but not included above	
5	PAN Number	
6	GST Registration Number	
7	Provident Fund Certificate Number	

**Signature with Seal**

**Form - C**

**Details of past experience in the Last Five (5) Years**

Sl. No.	Name of Work	Name of Client	Estimated cost in Rs.	Date of Completion
1				
2				
3				
4				
5				

Past experience includes **“Design, Supply, Installation, Testing & Commissioning of Metal Hydride technology based Green Hydrogen Storage System and Fuel Cell based Power Generation for Port Applications at Deendayal Port Authority, Kandla”**.

**Signature with Seal**