Setting up the “Green Hydrogen Hub”

at Deendayal Port, Kandla



**Deendayal Port Authority**

**# P.O. Box No. 50, Administrative Building, Rabindranath Tagore Road,**

**Gandhidham, Gujarat – 370201. Website:** [**www.deendayalport.gov.in**](http://www.deendayalport.gov.in)

**Request**

**For**

**Global Expression**

**of Interest (EOI)**

For Contact:

***ng College at Gandhidham on PPP Mode***

***Request for Global Expression of Interest***

***Setting up of Multi-Specialty Hospital cum Nursi***

The Chief Mechanical Engineer,

Deendayal Port Authority

Annexe, 2nd Floor, Administrative Office Building, Gandhidham-Kutch-Gujarat-370201.

Email: [cme@deendayalport.gov.in](mailto:cme@deendayalport.gov.in)

**February - 2023**

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# Deendayal Port Authority

**Global Expression of Interest (EOI)**

**From Potential Developers or Consortium of Developers**

**for**

**Setting up of Green Hydrogen Hub at Deendayal Port, Kandla**

Deendayal Port Authority (DPA), intends to set up the ‘Green Hydrogen Hub’ at Deendayal Port covering RE generation, set up & Manufacturing of Green Hydrogen & Ammonia facility and bunkering (the “Project’) in verge of National Green Hydrogen Mission, announced by Hon’ble Prime Minister of India.

In this regard, this “Global Expression of Interest” (the “EOI”) from eligible investors / developers / operators on their own or in consortium, having experience in financing, operation and implementation of similar projects is invited. The EOI document can be downloaded from Deendayal Port Authority’s website at [www.deendayalport.gov.in.](http://www.deendayalport.gov.in/)

Interested parties should submit / send their “Expression of Interest” for the proposed project along with details of their financial & technical capability, audited balance sheet etc. and any other details requested as per this EOI, in a closed cover to the Chief Mechanical Engineer, Deendayal Port Authority, Annexe, 2nd Floor, Administrative Office Building, Gandhidham-Kutch-Gujarat-370201, on or before 13.03.2023 till 16:00 Hrs.

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Chief Mechanical Engineer

Deendayal Port Authority

# Deendayal Port Authority

**Global Expression of Interest (EOI)**

**From Potential Developers or Consortium of Developers**

**for**

**Setting up of Green Hydrogen Hub at Deendayal Port, Kandla**

1. **Introduction:**

Deendayal Port Authority (erstwhile Kandla Port Authority) is an autonomous body under the Ministry of Ports, Shipping and Waterways. The Port of Deendayal is located in Gulf of Kutch on northwestern coast of India some 256 nautical miles southeast of the Port of Karachi in Pakistan and over 430 nautical miles northwest of the Port of Mumbai (Bombay). Kandla Port is located some 90 kilometers from the mouth of the Gulf of Kutch on the Kandla Creek on Latitude 23o0’49” and Longitude 70o13’32”.

The Deendayal Port, Main Gateway to the vast hinterland of Northwestern India, is serving the International Maritime Trade for over five decades with cost- effectiveness and efficiency as hallmarks. Since its inception, Deendayal Port has shown a phenomenal growth, significantly contributing to India's EXIM trade. The vast rich hinterland at its reach and handling of kaleidoscopic variety of commodities ranging from crude to chemicals, dry bulk to break-bulk and containers to over- dimensional project cargo make this Port the “Most Preferred Port of Call” in the region.

1. **Background**

The UN Climate Change Conference in Glasgow (UK) in Nov 2021; where 120 world leaders discussed all facets of climate change – the science, the solutions, the political will to act, coupled with a clear action plan for their countries. The unanimous consensus by the world leaders envisages concerted steps to reduce global warming. The countries pledged their national determination for their contributions to ensure energy transition and reduce emissions. Most leading economies have committed to net zero-emission targets and India pledged to achieve it by 2070. The Hon’ble Prime Minister of India launched the National Hydrogen Mission on India’s 75th Independence Day. The Mission aims to aid the govt. in meeting its climate targets through the effective transition from fossil fuel-based feedstock to Green Hydrogen. Inter-alia, a Green Hydrogen Policy framed by the Govt. indicates various benefits and incentives for such manufacturing, transportation, storage, and distribution of Green Hydrogen from the first to last mile connectivity. Adding to the policy, in Jan’23, the Union Cabinet approved outlay of INR 19,744 crores as benefit for the sector and in the 2022-23 budget allocation, Priority given on Clean Energy for INR 35,000 crores priority capital for the energy transition, Green credit programme will be notified under the Environment Protection Act, Battery storage to get viability gap funding. Govt to support setting up of battery energy storage of 4,000 MwH, apart from National Green Hydrogen mission with an outlay of Rs. 19,700 crore. For facilitating the quicker transition of the economy to low carbon intensity, reduce dependence on fossil fuel imports and make the country assume technology and market leadership.

**Maritime India Vision (MIV) 2030:**

The MIV 2030 of Ministry of Ports, Shipping & Waterways (MoPSW), envisioned initiatives and thrust to promote Green Shipping and Green Ports. Accordingly, a National Action Plan prepared with focus on policy instruments, infrastructure, technology and solutions for Green Shipping. As a part of Green Shipping, the need is to create Green Ports through various measures such as increased usage of renewable energy (solar / wind), shore to ship electricity to vessels usage of clean fuels (Electric, LNG, CNG) to reduce vehicle emissions at ports, introduce Ammonia and Hydrogen as fuel for future usage in the ports.

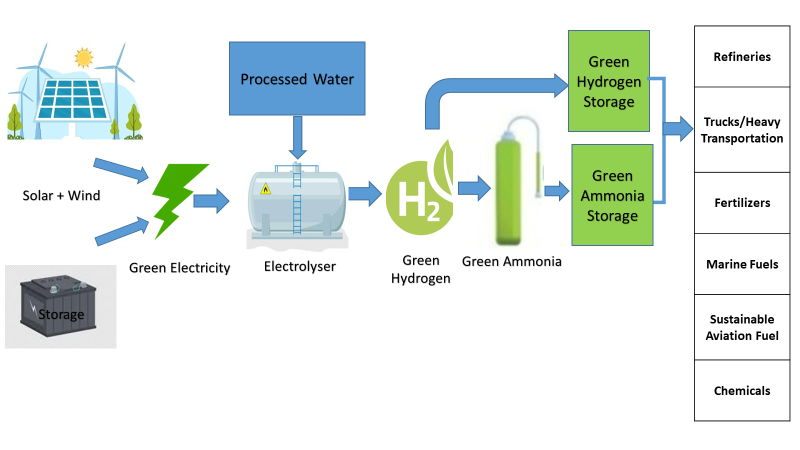
1. **Brief scope of the project**

DPA Initiative for Creating Hydrogen hub:

Deendayal Port has been identified as one of the 3 ports to be developed as “Hydrogen Hub” in line with the Maritime India Vision 2030. DPA has large parcels of land available under its possession and would utilize these land parcels for developing Green Hydrogen based facilities (production, Bunkering, Logistics – Loading / unloading) along with Renewable Energy Park which will feed the required Green Power to the Electrolyzers. DPA is the Distribution licensee under the Electricity Act and DPA may facilitate in availing Green Power at competitive rates to the proposed Hydrogen Hub, if the proposed site is in Distribution License Jurisdictions of DPA. It is envisaged that the Green Hydrogen produce shall be used to cater to domestic demand as well for export to other countries using the port infrastructure.

DPA shall endeavor to provide necessary support for setting-up of the hub such as allotment of land, may facilitate in providing necessary infrastructure including access to the site, grid infrastructure, green power at competitive rates, facilities in obtaining statutory approvals if required for development and construction of facilities of the hub and use of port infrastructure for export/Import of green hydrogen/ green ammonia.

Proposed Vision of DPA for Green Hydrogen Hub:

In view of above, the present EOI is invited to give an opportunity to the relatable interested parties to share their views for Setting up of Green Hydrogen Hub at Deendayal Port, Kandla.

1. **Submission of EOI:**

The interested firm(s) may visit the site for actual understanding and better brief about project and shall submit their expression of interest by providing the following details:

|  |  |  |
| --- | --- | --- |
| **Sr. No.** | **Information Required** | **Details** |
| **1.** | **Detailed Proposal, Techno Commercial inputs** | * Proposed Capacity for Green Hydrogen & Ammonia manufacturing facility with land parcel requirement * Capacity of Bunkering facility with land parcel requirement. * Type of RE Park with its capacity & land parcel requirement. * Quantity of Water requirement along with its possible identified sources * Technical details of Water Desalination plant (if required) along with land parcel requirement * Preliminary Cost estimates (with detailed breakup) for the project. * Details of clearances required from Statutory authorities * Business model * Potential buyers along with market size * Existing similar facility available in India / abroad |
| **2.** | **Support expected from DPA** | * Details of support expected from DPA as per requirements of the proposed business model / plan |
| **3.** | **Details of Applicant** | * Full name of organization * Address for correspondence * Country of Incorporation * Registered office address * Details of Directors / Principals * Business profile * Contact details of point of contact * Details of expertise in creation of similar facility in India and abroad |
| **4.** | **Financial**  **Potential** | * Developer must have positive net worth as on 31.3.2022 (Preceding 3 Years Audited Financial Statements to be submitted) |

**Note:**

* Land Coordinates and provisionally earmarked area is enclosed at Annexure 1
* Area of 4000 Acres at Chopadva falls under the CRZ – 1A.

## Pre-Application Conference:

A Pre-Application Conference has been envisaged by DPA for showcasing the project and providing an open forum for the investors / developers / operators to air their views, before the EOIs are submitted. The Hybrid Conference will be held at New Board Room, A.O. Building, Deendayal Port Authority, Gandhidham on 06.03.2023 at 15:00 Hrs.

Facility for attending the Pre-Application Conference by the prospective investors / developers / operators through video conferencing would be made by the DPA. In case if a prospective investors / developers / operator is desirous in participating the Pre-Application Conference through video conference shall request DPA for participation by addressing a mail to cme@deendayalport.gov.in, at least 3 (three) working days before the scheduled Pre-Application Conference date. The link for attending the meeting shall be shared by DPA at least a day before the Pre-Application Conference date.

## Schedule of events:

The Schedule of events for the EOI process is given below:

* + 1. Release of EOI Advertisement: 23.02.2023
    2. Investor/Pre-Application Conference: 06.03.2023 at 15.00 Hrs.
    3. Last date & time for EOI Submission: 13.03.2023 up to 16.00 Hrs.
    4. Time & date of opening of EOI: 13.03.2023 at 16.30 Hrs.
    5. Concept enlightenment by Applicant: 20.03.2023 to 21.03.2023

## Submission Procedure:

Interested applicants shall submit/send their Expression of Interest with all required information(s), on or before 13.03.2023 up to 1600 Hrs. in a closed cover duly marked Global Expression of Interest for “Setting up of Green Hydrogen Hub at Deendayal Port, Kandla”, addressed to:

The Chief Mechanical Engineer, Deendayal Port Authority Annexe, 2nd Floor, Administrative Office Building, Gandhidham-Kutch-Gujarat-370201.

Email: [cme@deendayalport.gov.in](mailto:cme@deendayalport.gov.in)

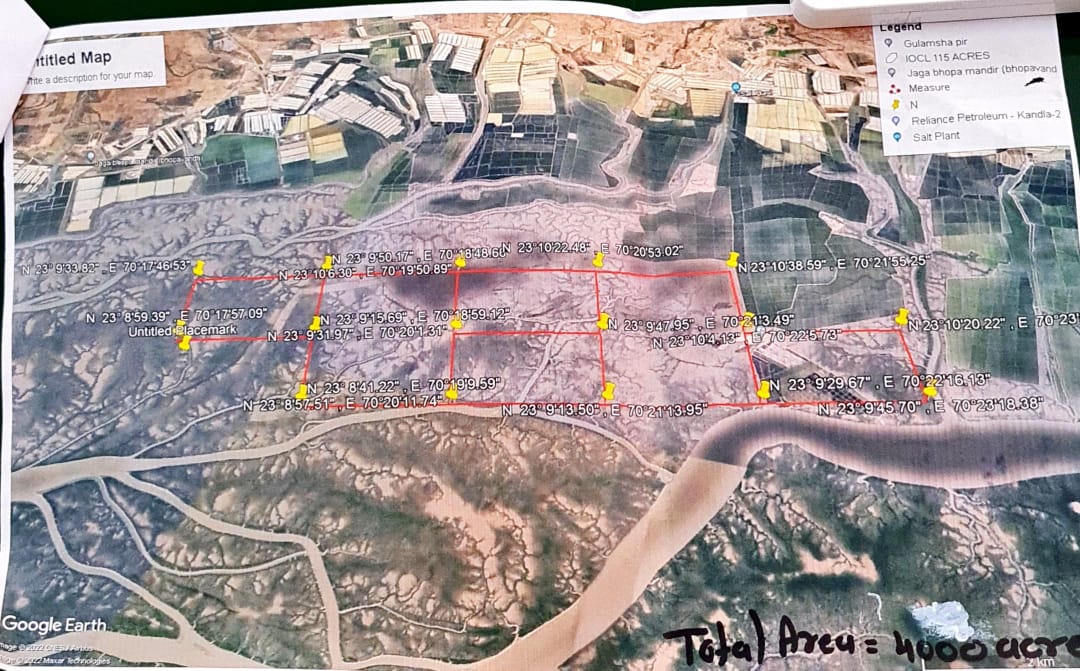
## Concept enlightenment by Applicant:

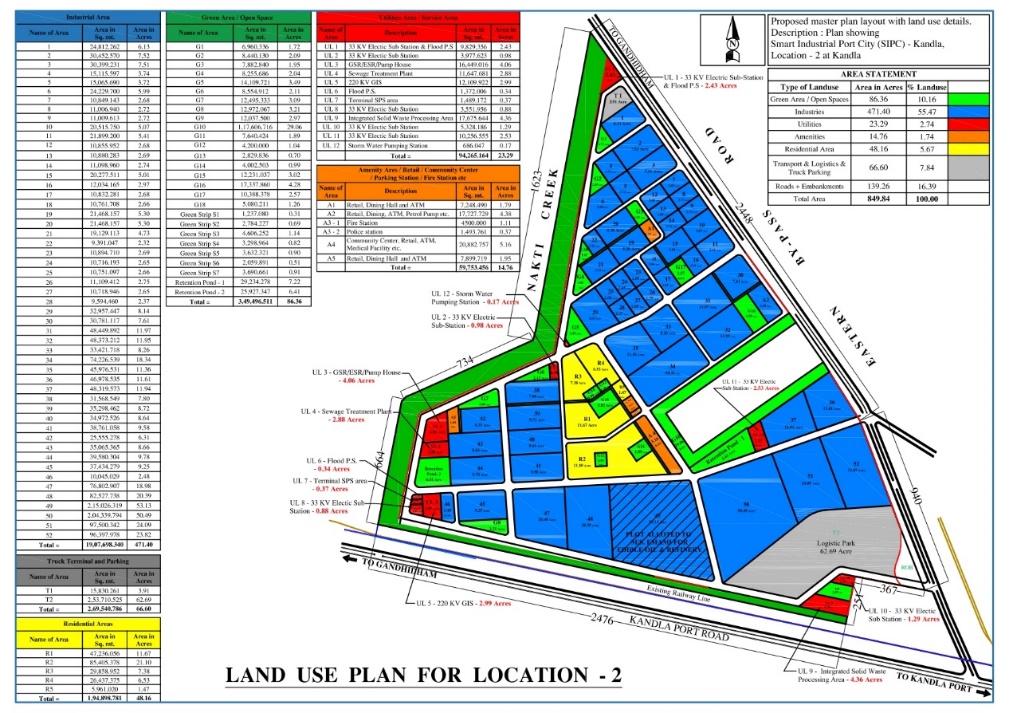
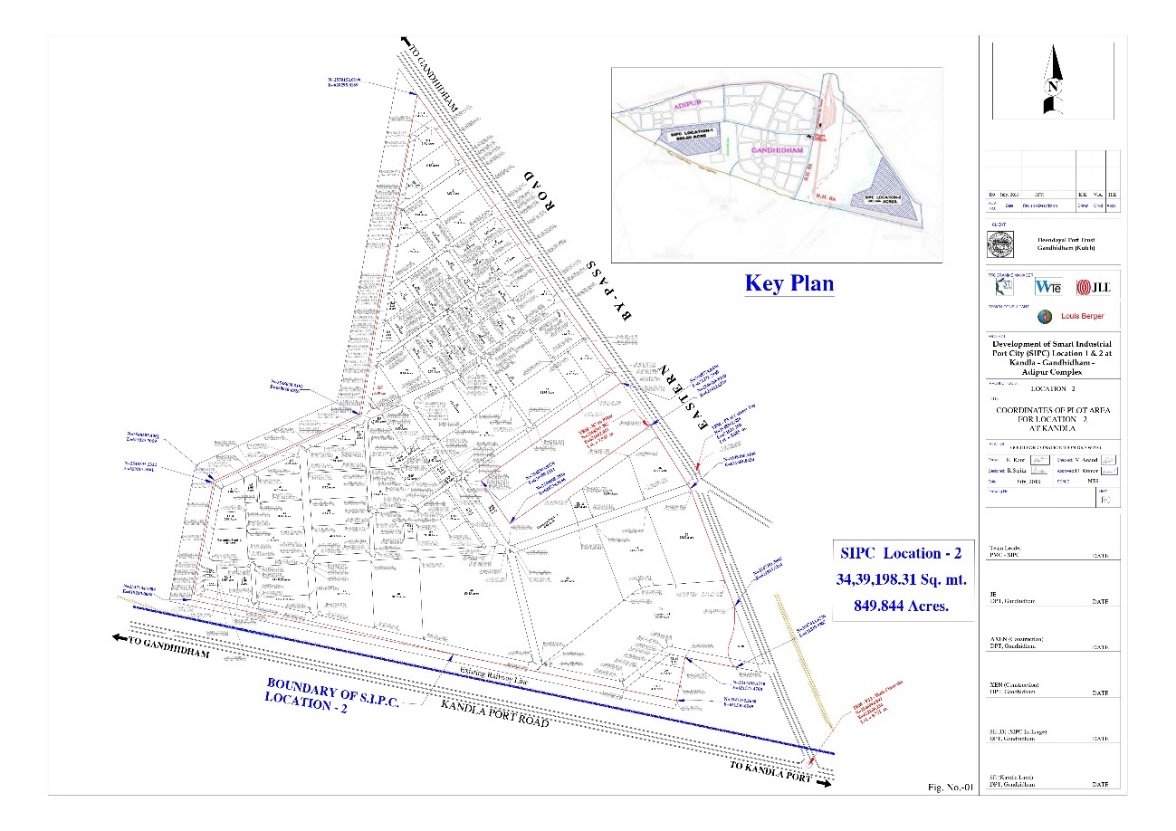
The interested applicant(s) post submission of their EOI is welcomed to enlighten DPA on the proposal submitted by them by way of meeting (either physically or through virtual mode) with Port Officials and presenting the concept submitted. The concept enlightenment meeting shall be conducted from 20.03.2023 to 21.03.2023 at New Board Room, A. O. Building, DPA, Gandhidham- Kutch-Gujarat-370201.

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**Annexure 1**

1. **Provisionally identified land for RE Park at Chopadva village**

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1. **Provisionally identified land for Green Hydrogen Hub at SIPC, kandla (Excluding Plot no. 49)** 
2. **Provisionally identified land for Green Hydrogen Hub at GIDC (Excluding Plot no. 49)**

