



**EXPRESSION OF INTENT  
FOR  
100 MW WIND POWER PROJECT ON EPC BASIS  
AT  
KHARAGHODA**

EOI No.	39(Com)Purchase/2016-17
EOI Issue date	28.12.2016
Last date and time of submission of EOI	19.01.2017 up to 15.00 Hrs at office of General Manager (Commercial), Hindustan Salts Limited, G-229, Sitapura Industrial Area, Dist. Jaipur (Rajasthan), Pin -302022
Date of opening of EOI	19.01.2017 at 15.30 Hrs at office of General Manager (Commercial), Hindustan Salts Limited, G-229, Sitapura Industrial Area, Dist. Jaipur (Rajasthan), Pin -302022
Cost of EOI form	Rs. 1000/- by DD drawn in favour of Hindustan Salts Limited and payable at Jaipur.

## **Hindustan Salts Limited**

(A Government of India Enterprises)

CIN: U14220RJ1958GO1001049

Registered Office: G-229, Sitapura Industrial Area, Jaipur-302022 (Raj.)

Tel/ Fax: 0141-2771427 / 2771449

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Website : [www.indiansalt.com](http://www.indiansalt.com)

Unit : Kharaghoda, Dist. Surendranagar-382 760 (Gujarat)

### **Subsidiary: Sambhar Salts Limited**

CIN: U14220RJ1964GO1001188

Unit : Sambhar Lake, Pin- 303 604, Dist. - Jaipur (Rajasthan)

## **1. INTRODUCTION**

Hindustan Salts Limited (HSL) (hereafter referred as “Company” or “HSL”) was incorporated on 12<sup>th</sup> of April, 1958 as a Company fully owned by the Government of India to take over the salt sources at Sambhar, Didwana and Kharaghoda earlier managed by the Salt Department, Government of India. It is the only Central Government Public Sector Undertaking under Ministry of Heavy Industries & Public Enterprises engaged in the production of salt. The company is having its registered office at G-229, Sitapura Industrial Area, Jaipur-302022 (Rajasthan).

The company has major salt production works measuring approx. 23,000 acres of land at Kharaghoda, Distt. Surendranagar (Guj.) in which salt production is conducted in various sidings and different varieties of Industrial & Edible Grade Salt are produced.

Besides Common Salt, Liquid Bromine is produced at Kharaghoda Unit. The current installed capacity of 450 TPA is being expanded to 900 TPA Bromine is mainly used for Pesticides, Pharmaceuticals, fire extinguishers, dyes and other bromo- compounds.

HSL, as a technology-savvy corporation, has established and is following sound business, financial and regulatory policies. HSL believes that employees are its most valuable assets and has evolved a growth oriented development strategy for its Human Resources.

Taking Advantage of the Shores Gujarat is blessed with a long coastline and good wind speeds for harnessing power from wind. Gujarat was among the first states in India to lobby for harnessing wind energy for generating power. With its 1600 km coastline and excellent wind prospects in the Saurashtra Peninsula, the state is sitting on a wind 'gold mine'.

At Kharaghoda, preliminary estimation indicates there is scope of generation 1000 MW Wind Power.

## **2. OBJECTIVE**

Company invites Expression of Intent from the interested parties/Public Sector Undertakings / Govt. bodies/Domestic as well as International Private Entrepreneurs for Development of 100MW Wind power project at Kharaghoda in Distt. Surendranagar (Gujarat).

Company would contribute only its resource i.e. requisite land which is available at the Kharaghoda unit for execution of 100 MW Wind Power Project. The party is required to develop the Project on the land of HSL and operate the same. All the expenditures for installation of project, seeking various clearances, power purchase agreements etc. shall be in scope of party.

The power generated from the project shall be sold in the market and revenue generated from the same shall be shared between the HSL and the party. Accordingly the EOI should include proposed model for revenue sharing from the project.

## **3. WIND POWER GENERATION AT KHARAGHODA (GUJARAT)**

### **3.1 LOCATION AND RESOURCES :**

Hindustan Salts limited, Kharaghoda, Distt. Surendranagar (Gujarat), has 23,595 acres of land and only part of land is used for salt production and allied products. The remaining land can be used for Wind power generation. Kharaghoda (Gujarat) is located 100 kms from Ahmedabad situated in the sub-tropical arid/semi-arid climatic zone of India. This region experiences extremes of climate during the year with hot and oppressive summers and cold and dry winters. The summer months of May and June can be extremely hot with mean monthly temperatures of more than 35°C while the maximum temperature can sometimes reach up to 50° C. The sky remains clear during major part of the year except during few dust storms due to winds that overrun the region in the summer months.

DESCRIPTION	DETAILS
Land Coordinates	23.2001° N 71.7271° E
Impact of Salt Corrosion	Area is far away from the saline environment.
Rail Connectivity	Viramgam (Approx 40 Km)
Road Connectivity	Patdi GJ SH138
Power Grid	Within 15 Km for 100 MW power evacuation.
Water Availability	Natural Ponds is available within 500 m area

### 3.2 LAND TOPOGRAPHY, ACCESS, ELECTRICAL INFRASTRUCTURE, AT KHARAGHODA.

The land at this site is fairly flat with near zero gradient across and no significant undulations. Therefore, only minimal levelling will be required for removal of few patches of undulations in preparation for setting up of the power plant. The entire land area has a firm surface with a very thin layer of loose top soil and is bereft of any vegetation. The soil profile, it was told, includes black cotton soil at a depth of 6-7 inches. Black cotton soil has the property that it retains moisture for a longer period of time which lends firmness to the ground that makes it conducive to strong and lasting foundation for solar PV mountings.

The proposed site for the plant is located close to the Viramgam (approx. 40 KM) or Mahesana rail connectivity, and has basic infrastructure including access, well in place. Gujarat Highway SH138 passes approximately 6-8 km from Patdi to the selected site and connects Ahmedabad (approx. 100 KM).

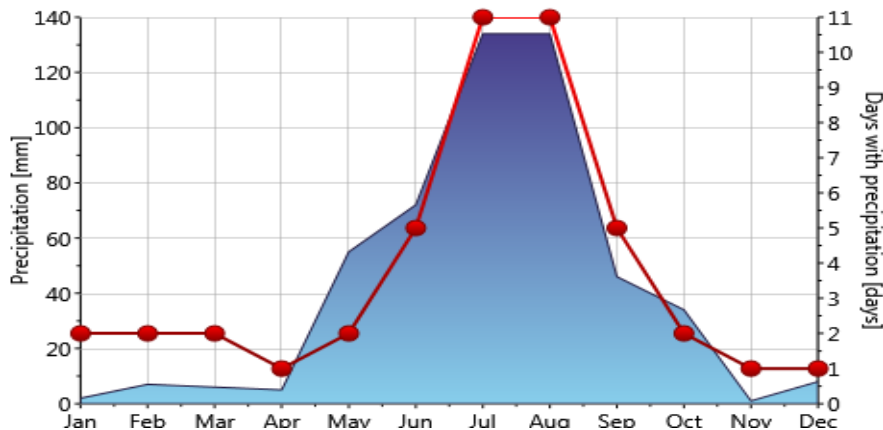
Power requirement during project construction may be catered from distribution utility through a temporary construction substation of suitable size or by an appropriately sized diesel generator set.

### 3.3 Wind Speed :

For the energy yield analysis Meteonorm/NASA wind speed data are used. For wind loading analysis the wind zone map was used, which indicates that the site is in high damage risk zone, having a maximum wind speed between 44 to 47 m/s.

### 3.3 Precipitation

Kharaghoda report it has simulated rainfall figures using METEONORM as illustrated given below. These figures indicate that the identified site is situated in a region that has long periods with very limited rainfall. The effect of soiling on the energy yield should be assessed significantly and a cleaning strategy must be chosen according to the best economic returns.



### **3.4 Environmental And Social Aspects**

Human existence is intricately and inextricably interwoven into the fabric of its ecological surroundings. To live sustainably is to ensure that the demands of the current generation are met without jeopardizing those of the future generation. A scrutiny of the environmental and social implications of proposed projects is, therefore, an essential part of planning for all projects. The Kharaghoda eco system is a well-known and significant element of the nation's natural diversity and these aspects deserve due attention. The site features are as follows :

- Kharaghoda is essentially remains dry during a greater part of the year, filling with water only during monsoons.
- **Proposed land comes under Natural Ponds**
- Maximum site is bare and have no vegetation
- No water (surface) have seen within Proposed land area
- Maximum water level after rainy season (up to Oct-Nov months only) remain below 1 foot in the proposed land.
- Preliminary assessment indicates that site falls within the limits of Wild Ass Sanctuary.
- District forest map indicates entire Kharaghoda Site falls within eco-fragile boundary.

### **4.0 EXPRESSION OF INTENT :**

#### **4.1 CONTRIBUTION OF HSL**

It is proposed that the Company would contribute only its resource i.e. requisite land which is available at the Kharaghoda unit.

#### **4.2 SUBMISSION OF EXPRESSION OF INTENT BY INTERESTED PARTIES :**

The party is required to develop the 100 MW Wind Power Project at Kharaghoda and operate the same. All the expenditures for installation of project, seeking various clearances, power purchase agreements etc. shall be in scope of party.

Interested parties are required to submit Expression of Intent for Execution of 100 MW Wind Power Project at Kharaghoda ,which may include but not limited to following:

- Arranging, obtaining and maintaining all permits, licenses, approvals, no objection certificates, clearances from all authorities concerned in the name of Company or / and JV or its designated assignee (as the case may be), to enable unhindered smooth progress of all works during construction up-to power generation and injection to CTU Grid including operation of the Plant.
- Procurement of all equipment required for setting up of the rated capacity of the plant, power evacuation and transmission requirements at specified voltage.
- Creation of infrastructure requirements inside plant like road network, drainage & sewage systems including culverts, waterline network, station lighting, fire control systems, lightning arrestor systems, fencing / boundary wall and security systems including security gates etc.
- Establishing control room and administrative building inside plant and tele-communication network for inside and outside plant communication.
- Providing SCADA system and solar radiation and weather monitoring system within plant for information and control of required parameters.
- Providing suitable grid compliant Reactive power management system & metering system.
- Compliance with all legal requirements of the Country and State where the Project is located.
- Commissioning the power plant to its full capacity, delivering power to CTU Sub station.
- Operation and maintenance of plant for a period of Twenty Five (25) years from the commissioning for demonstration of agreed performance level and handover the entire plant to Company or its designated assignee.

- Any other activity deemed fit and necessary for execution and operation of the Project as per prudent utility practices.
- **Estimated Cost of the project and Proposed Time period for execution of project.**

- **MODEL OF REVENUE SHARING :**

The power generated from the project shall be sold in the market and revenue generated from the same shall be shared between the HSL and the party. Accordingly the EOI should include proposed model for revenue sharing from the project.

- Further parties are also required to submit information regarding :
  - i) Past experience in executing Wind Power Projects in India on turn- key basis. Evidence to be supported by Purchase Orders and Project completion certificates. In case of work orders from private firms, the experience shall be supported by TDS certificates.
  - ii) Annual average turnover in the area of Solar Power Plants in last three completed financial years i.e. 2015-16, 2014-15, 2013-14. The parties may also submit audited balance sheets for the last three years ending with 31.03.2016.
  - iii) Details of established registered office in India with valid Central/State VAT/TIN registration certificate.

Parties may also be required to make presentation regarding the proposed 100 MW Wind Power Project in front of authorised committee / Directors of company. Accordingly parties shall submit copy of presentation in CD alongwith EOI.

## **6. Submission of EOI**

Prospective parties may submit their 'Expression of Intent' duly signed by the authorized signatory and presentation in CD along with relevant details by **19.01.2017 till 03:00 PM**, in a sealed cover super scribing "**Expression of Intent (EOI) for Development of 100 MW Wind Power Project at Kharaghoda**" address to following :

The General Manager (Commercial)  
Hindustan Salts Limited,  
G-229, Sitapura Industrial Area, Jaipur-302022 (Rajasthan)

For any clarification, you are requested to contact on Email: [purchase@indiansalt.com](mailto:purchase@indiansalt.com).

While no EMD/ Bid Security is envisaged in the EOI stage, Bidders willing to participate in the Bidding round, will be required to Submit Bid Security as per the requirements of Bid Document. Details regarding Bid Security and CPG will be elaborated in Bid Documents.

Company reserves the right to reject any or all EOIs without assigning any reason thereof.

### **Prospective Bidder acknowledges and agrees that:**

- a. Company has issued this Expression of Intent with the best intention to explore the market for eligible and interested bidders and has no compulsions to enter into definitive contractual agreements. This EOI does not guarantee conversion of this EOI into any definitive contractual agreements.
- b. It is also agreed that Company in its sole discretion, may reject any and all proposals made by Bidders, may change the conditions relating to the EOI or cancel this EOI at any time without assigning any reason.

- c. Prospective Bidders acknowledge and agree that response to the EOI is purely voluntary action on their part and for any expenditure on this account by them, company will have no obligation or liability to the prospective bidders in the event of cancellation of EOI.

**Note: Parties are requested to keep themselves updated with the website [www.indiansalt.com](http://www.indiansalt.com) on regular basis for any addition / deletion / modification / clarification or notification in respect of this, at EOI stage and at bidding stage. No separate notification will be issued in any other media.**