



## KERALA STATE ELECTRICITY BOARD Ltd

(Incorporated under the Companies Act, 1956)

Registered Office: Vidyuthi Bhavanam, Pattom,

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### ABSTRACT

Expression of Interest for setting up Hydrogen production plant at specified locations of KSEBL - Reply to Pre-bid queries - Publishing of corrigendum - Sanctioned - Orders issued.

### Corporate Office (SBU-G)

BO (FTD)No.50/2023(DIRGE-AEE1/2023/88) / 123

Thiruvananthapuram, Dated: 04.02.2023

Read: 1. B.O. (FTD) No. 649/2022 (DGE/G1/Hydrogen Plant/2022-23) dated 23.07.2022.  
2. Note No. PED-AE3/2023/29/170 dated 17.01.2023 of the Deputy Chief Engineer with full powers of Chief Engineer (PED) submitted to the Full Time Directors through Director (Generation Electrical & HRM) [Agenda item No. 62/01/23].

### ORDER

KSEBL as per the B.O. read as 1<sup>st</sup> above has accorded sanction to invite Expression of Interest (EOI) for setting up Hydrogen Energy Production System (using electrolysis or other proven methods) at KSEBL owned locations at BDPP and KSEBL land where BSES plant is located (at Pathalam, Emakulam District) for capacities proposed or with higher capacities. The various options were

Option 1-Hydrogen production plant using electrolyser technology Or other proven methods (for sale of Hydrogen to Industries/Fuel for vehicle)

Option 2-Hydrogen Production Plant with plant for conversion of Hydrogen to Electricity using fuel cells

Option 3-Hydrogen Production Plant with equipment for blending with piped Natural Gas.

Accordingly Expression of Interest (EOI) was invited by the Deputy Chief Engineer (PED) with full powers of Chief Engineer vide EOI. No. CEPED/Hydrogen Plant/01/2022-23 dated 30.09.2022. Various bidders had send their Pre-Bid queries for clarification.

Clarifications sought regarding Option 3 (Technical details such as pressure, at inlet and outlet etc) could not be answered as KSEBL don't have LNG Plant and there is no collaboration with other LNG plants.

During the meeting conducted by the Director (Generation-Electrical & HRM) on 01.12.2022 to discuss the queries/clarification sought by the bidder, it was decided as follows.

- The Hydrogen production infrastructure shall be for production of 500 kg per day.
- The storage capacity shall be for 3500 kg of Hydrogen, since if the storage capacity is for 500 kg only as per the original Eoi document the generated Hydrogen will have to be sold daily, which will be difficult to implement.
- Option 3 - Blending of Hydrogen with Natural gas shall be dropped, since KSEBL at present don't have any LNG plant or tie up with LNG companies and the LNG plants are not likely to be financially viable in the near future.
- The contractor shall operate the plant as per the direction of KSEBL and the

operated only when there is low demand for power).

- e. Because of the above, the plant shall be set up at the cost of KSEBL on EPC Model (if viable). IPP model shall not be followed, since the time of operation will be fixed by KSEBL.

The above details were conveyed to the bidders in the Pre-Bid meeting held on 14.12.2022 in which 8 (Eight) firms participated.

The Deputy Chief Engineer(PED) with full powers of Chief Engineer as per the note read as 2<sup>nd</sup> above has requested sanction for publishing a corrigendum and replying to the pre-bid query with the points a to e given above.

Having considered the matter in detail the Full Time Directors in the meeting held on 31.01.2023 has resolved to accord sanction for publishing a corrigendum and replying to the pre-bid query with points a to e mentioned above.

Orders are issued accordingly.

**By Order of the  
Full Time Directors**

*Sd/-*

**LEKHA G  
Company Secretary**

To:

The Deputy Chief Engineer (PED) with Full Powers of Chief Engineer.

Copy to: The Chief Engineer (IT)/ Financial Advisor/ Chief Internal Auditor/ Company Secretary  
The TA to CMD/ D (GE&HRM)/ D (GC)/ D (T,SO, P&S)  
TA to D (D, SCM&IT)/ D (REES, S, NILAAVU, S&W)  
The PA to the D (F)  
The Sr. CA Secretary (Administration)  
The RCAO/ RAO  
Stock File.

Forwarded / By Order

*[Handwritten Signature]*

Assistant Executive Engineer