

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 1319**  
ANSWERED ON 09.02.2023

**COST OF GREEN HYDROGEN PRODUCTION**

1319. SHRI VISHNU DATT SHARMA

Will the Minister of New and Renewable Energy be pleased to state:

- (a) whether the current cost of the production of green hydrogen in the country is Rs. 350- Rs. 450 kg and such a high cost renders it economically unviable alternative fuel;
- (b) if so, the details thereof;
- (c) whether only handful of Indian companies currently manufactures electrolyzer for green hydrogen production and if so, the details thereof; and
- (d) the measures taken/being taken by the Government to reduce green hydrogen production cost and build the supply chain and associated ecosystem for scaling up green hydrogen economy in the country?

**ANSWER**

**THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER**

**(SHRI R.K. SINGH)**

(a)& (b) At present, there is no commercial production of Green Hydrogen in India. Some pilot projects have been set up in the country for production of Green Hydrogen at a small scale. Two public sector companies have informed that the cost of Green Hydrogen produced in their pilot projects is in the range of ₹360-400/kg.

(c) A few companies are manufacturing old technology electrolyzers of very small capacity in the country. Recently, one company has set up a manufacturing facility for Polymer Electrolyte Membrane electrolyzers.

(d) On 4<sup>th</sup> January 2023, the Union Cabinet approved the National Green Hydrogen Mission with an outlay of ₹ 19,744 crore. The following components have been announced as part of the Mission to reduce the cost of Green Hydrogen and scale up its production and utilization:

- (i) Facilitating demand creation through exports and domestic utilization;
- (ii) Strategic Interventions for Green Hydrogen Transition (SIGHT) programme, which includes incentives for manufacturing of electrolyzers and production of green hydrogen;
- (iii) Pilot Projects for steel, mobility, shipping, decentralized energy applications, hydrogen production from biomass, hydrogen storage, etc.;
- (iv) Development of Green Hydrogen Hubs;
- (v) Support for infrastructure development;
- (vi) Establishing a robust framework of regulations and standards;
- (vii) Research & Development programme; and
- (viii) Skill development programme.

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