

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 1935
ANSWERED ON 14/12/2023

USE OF GREEN HYDROGEN AND GREEN AMMONIA

1935. SHRI P.V. MIDHUN REDDY

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether the Government has any proposal to set up and encourage the production and use of Green Hydrogen and Green Ammonia through an environment friendly process;
- (b) if so, the details thereof along with the funds proposed to be sanctioned and the targets fixed in this regard; and
- (c) if not, the reasons therefor?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) to (c) The Ministry of New and Renewable Energy is implementing the National Green Hydrogen Mission, approved by the Union Cabinet on 4th January 2023, with an outlay of ₹ 19,744 crore. The overarching objective of the Mission is to make India the Global Hub for production, usage and export of Green Hydrogen and its derivatives. The following components have been announced as part of the Mission:

- 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 including through a public-private partnership framework for R&D.
- viii. Skill development programme; and
- ix. Public awareness and outreach programme.

The Green Hydrogen Standard notified by MNRE on 18th August, 2023 specifies that Green Hydrogen should be produced using renewable energy and the non-biogenic carbon emissions in the process should be not be more than 2 kg CO₂ eq per kg of Hydrogen.

The Strategic Interventions for Green Hydrogen Transition (SIGHT) Programme, is a major financial measure with an outlay of ₹ 17,490 crore. The programme consists of two distinct financial incentive mechanisms to support domestic manufacturing of electrolyzers and production of Green Hydrogen.

Request for Selection (RfS) has been issued for Selection of Green Hydrogen Producers for Setting up Production Facilities of 450,000 tons for Green Hydrogen in India under the Strategic Interventions for Green Hydrogen Transition (SIGHT) Scheme (Mode-1-Tranche-I).

Request for Selection (RfS) has been issued for the Selection of Electrolyser Manufacturers (EM) for Setting up 1.5 GW annual Electrolyser Manufacturing Capacities under SIGHT Scheme (Tranche-I).
