GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1738
ANSWERED ON 06/08/2024

NATIONAL GREEN HYDROGEN MISSION

1738. SHRI SANT BALBIR SINGH

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

(a) the details of the National Green Hydrogen Mission (NGHM) along with its characteristics;
(b) the target of the mission by the year 2024 and the total amount spent by Government towards the mission;
(c) the details of the total investment planned for the mission and the total number of employment aimed to be provided under the said scheme; and
(d) to what extent the oil import of the country is likely to be reduced due to NGHM and Government expenditure likely to be saved on account of it?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) to (c) The Union Cabinet approved the National Green Hydrogen Mission on 4th January 2023, with an outlay of ₹ 19,744 crore. The overarching objective of the Mission is to make India a Global Hub for production, usage and export of Green Hydrogen and its derivatives, by targeting production of 5 MMT per annum of Green Hydrogen by 2030. 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 electrolysers 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 Mission has an outlay of ₹ 600 crore for the FY 2024 – 25 under various heads. The total amount spent by Government towards the Mission is Rs. 3.35 Crores.

The Green Hydrogen production capacity envisaged by 2030 is likely to leverage over ₹8 lakh crore in total investments in the Green Hydrogen industry. This investment is estimated to create 6,00,000 jobs by 2030.

(d) Green Hydrogen has the potential to replace the utilization of imported fossil fuels across various sectors including fertilizer production, petroleum refining, the mobility sector, steel production and shipping propulsion applications.

The Mission is expected to reduce a cumulative ₹ 1 lakh crore worth of fossil fuel imports by 2030.

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