

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 1321
ANSWERED ON 09.02.2023

MANUFACTURING OF ELECTROLYSERS FOR CREATING GREEN HYDROGEN

1321. SHRI KURUVA GORANTLA MADHAV
DR. SANJEEV KUMAR SINGARI

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

- (a) the measures taken/being taken by the Government to encourage indigenous competitive manufacturing of electrolyzers required for creating green hydrogen;
- (b) whether the Government has taken any steps towards the improvement in the design and development of new electrolyzer techniques to ensure cheaper local manufacturing;
- (c) if so, the details thereof and if not, the reasons therefor; and
- (d) the manner in which Government plans to decrease the associated high cost of electricity in hydrogen production process given the fact that electrolyzers consume around 50-55 kilowatt-hours of electricity to produce a kilogram of hydrogen?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) to (c) On 4th January 2023, the Union Cabinet approved the National Green Hydrogen Mission with an outlay of ₹ 19,744 crore. The Mission *inter alia* proposes to encourage indigenous competitive manufacturing of electrolyzers by providing financial incentives under the Strategic Interventions for Green Hydrogen Transition (SIGHT) programme. The Mission also proposes a comprehensive R&D programme *inter alia* to support development of efficient and affordable electrolyzers in India.

(d) The Government of India has been taking a number of steps to ensure availability of renewable energy at optimum cost for production of Green Hydrogen. These, *inter-alia*, include:

- i. Waiver of inter-state transmission charges has been granted for a period of 25 years to the producer of Green Hydrogen and Green Ammonia for the projects commissioned before 30th June 2025.
- ii. The Electricity (Promoting Renewable Energy Through *Green Energy Open Access*) Rules, 2022, notified in June 2022 have specified provisions for facilitating supply of renewable energy through Open Access for Green Hydrogen production.
- iii. The Green Energy Corridor Scheme (Phase I with an outlay of ₹ 10,141.68 crore and Phase II with an outlay of ₹ 12,031.33 crore) includes laying of transmission lines and creation of new sub-stations for evacuation of renewable power.
