MANUFACTURING OF ELECTROLYSERS FOR CREATING GREEN HYDROGEN

1321. SHRI KURUVA GORANTLA MADHAV
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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 electrolysers required for creating green hydrogen;
(b) whether the Government has taken any steps towards the improvement in the design and development of new electrolyser 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 electrolysers 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 electrolysers 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 electrolysers 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.


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.

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