

GOVERNMENT OF INDIA
MINISTRY OF STEEL

LOK SABHA
UNSTARRED QUESTION NO. 3997
FOR ANSWER ON 25.03.2025

PROMOTION BY HYDROGEN BASED STEEL PRODUCTION

3997. SHRI BALYA MAMA SURESH GOPINATH MHATRE:

Will the Minister of STEEL be pleased to state:

- (a) the steps being taken by the Government to promote hydrogen based steel production;
- (b) the schemes formulated by the Government to promote research and innovation in the steel sector;
- (c) the policy of the Government to promote green steel production;
- (d) the policy of the Government for recycling of iron and steel waste;
- (e) whether the incentives are being given by the Government for adopting electric furnace and other environmentally friendly technologies and the details thereof; and
- (f) if not, the reasons therefor?

ANSWER

THE MINISTER OF STATE IN THE (SHRI BHUPATHIRAJU SRINIVASA VARMA)
MINISTRY OF STEEL

(a)&(c)to(f) : The steps being taken by the Government to promote green steel production, steel scrap recycling, hydrogen based pilot projects along with financial outlays available for this purpose are, as under:

- i. Ministry has released the Taxonomy for Green Steel to provide standards for defining and categorizing the low emission steel.
- ii. Ministry of Steel has released a report titled "Greening the Steel Sector in India: Roadmap and Action Plan" in alignment with the recommendations of the 14 Task Forces constituted by this Ministry for this purpose which provides the future roadmap for green steel and sustainability, towards net-zero target by 2070. The report is available on Ministry of Steel's website.
- iii. Ministry of Steel has been allocated Rs. 455 crore for implementation of pilot projects for use of green hydrogen in steel sector till FY 2029-30 under National Green Hydrogen Mission launched by Ministry of New and Renewable Energy. Under this Mission, Ministry of Steel has awarded 3 pilot projects for implementation of pilot projects in steel sector and further shortlisted 4 more pilot projects under phase-2 for this purpose.
- iv. National Solar Mission launched by Ministry of New and Renewable Energy in January, 2010 promotes the use of solar energy and also helps to reduce the emission of steel industry.

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v. The Ministry of Road Transport and Highways (MoRTH) has formulated the Vehicle Scrapping Policy that includes a system of incentives/ disincentives for creation of an ecosystem to phase out older, unfit polluting vehicles. Under the policy, MoRTH has issued rules for Registration and Functions of Vehicle Scrapping Facility (RVSF), which provides the procedures and infrastructure facilities required for de-pollution and dismantling of End of Life Vehicles (ELVs) for further recovery of metal and other materials under environmental regulations.

vi. Ministry of Mines has brought out 'National Non-ferrous Metal Scrap Recycling Framework, 2020' to promote a formal and well-organized recycling ecosystem. The Framework lays down standard procedures for recycling and processing of scrap and developing a mechanism for facilitating the Metal scrap recycling activities.

vii. Ministry of Environment, Forest & Climate Change has introduced the Environment Protection (End-of-Life Vehicles) Rules, 2025, which establishes a framework for managing End-of-Life Vehicles (ELVs) in an environmentally sound manner and mandates Extended Producer Responsibility (EPR), requiring vehicle producers to meet annual scrapping targets based on the type of vehicle and materials recovered.

viii. Govt. of India notified Recycling of Ships Act, 2019 aims to regulate and promote the safe and environmentally sound recycling of ships.

(b) Ministry of Steel has introduced the R&D scheme viz. "Promotion of R&D in Iron & Steel Sector", for providing financial assistance for the R&D projects under the identified thrust areas.
