

GOVERNMENT OF INDIA  
MINISTRY OF STEEL  
  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 628**  
**TO BE ANSWERED ON 29/11/2024**

**PROGRESS OF PURE-HYDROGEN BASED DRI TECHNOLOGY IN GREEN STEEL PRODUCTION.**

628. Shri Dhairyashil Mohan Patil:

Will the Minister of Steel be pleased to state:

- (a) the progress made on the development of India's unique pure-hydrogen based Direct Reduced Iron (DRI) technology for green steel production and the expected timeline for launching pilot projects;
- (b) the manner in which Government is collaborating with all stakeholders, Ministry of New and Renewable Energy (MNRE) and industry players to ensure the successful implementation of hydrogen-based DRI technology at an industrial scale; and
- (c) the specific support mechanisms, such as capital grants or subsidies that are being provided under the National Green Hydrogen Mission to encourage pilot projects using hydrogen in steel-making?

**ANSWER**

MINISTER OF STEEL

(SHRI H.D KUMARASWAMY)

(a)to(c): Ministry of New and Renewable Energy (MNRE) has launched National Green Hydrogen Mission for green hydrogen production and usage. The steel sector is also a stakeholder in the Mission

MNRE has issued detailed guidelines for implementation of pilot projects for use of Green Hydrogen in iron & steel sector under National Green Hydrogen Mission. It prescribes the manners for selection of agencies, monitoring mechanism for progress of pilot projects and collaboration with MNRE and industry stakeholders to ensure the successful implementation of pilot projects in the sector. Ministry of Steel has awarded two Pilot Projects on 19.10.2024 to produce Direct Reduced Iron (DRI) using 100 % Hydrogen in vertical shaft under National Green Hydrogen Mission Scheme.

Ministry of Steel has been allocated budgetary support of Rs. 455 crores for implementation of pilot projects in iron & steel sector under National Green Hydrogen Mission upto Financial Year 2029-30.

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