

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM AND NATURAL GAS
RAJYA SABHA
UNSTARRED QUESTION NO-1892
ANSWERED ON-09/03/2025

**BLENDING GREEN HYDROGEN WITH PIPED NATURAL GAS FOR COOKING
PURPOSE**

1892 SHRI PARIMAL NATHWANI:

Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

- (a) whether Government has initiated pilot projects for blending green hydrogen with Piped Natural Gas (PNG) for cooking purposes;
- (b) whether the gas stoves/burners for exclusive use of green hydrogen are available in the market and used for cooking;
- (c) if so, how safe they are and the findings thereof, if the same is at experimental level; and
- (d) the steps taken to scale up the use of green hydrogen as a clean cooking fuel to reduce dependence on imported cooking gas?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS

(SHRI SURESH GOPI)

(a) to (d) Green Hydrogen is being promoted under the National Green Hydrogen Mission. Government have allowed hydrogen blending pilot projects in 5 Geographical Areas (GAs) of City Gas Distribution (CGD) networks. These pilots cover domestic, commercial, industrial and CNG segments in limited areas and involve injection into MDPE and steel pipeline networks. These pilot projects are being carried out to assess pipeline behaviour, stratification, leakage characteristics, metering impacts and consumer-end performance.

The CGD entities have informed that the Gas stoves/burners for exclusive use of 100% hydrogen are not in widespread use. In the pilot areas, existing PNG appliances are being used with blended gas within the tested hydrogen percentage limits.

Safety-related parameters including material compatibility, leakage characteristics and appliance performance are part of the scope of the pilot studies. Third-party technical assessments are being undertaken in respect of the pilot projects to ascertain techno-commercial viability of using green hydrogen as a clean cooking fuel.
