

GOVERNMENT OF INDIA
MINISTRY OF PETROLEUM AND NATURAL GAS

RAJYA SABHA
UNSTARRED QUESTION NO.2530
TO BE ANSWERED ON 08th AUGUST, 2022

Hydrogen fuel cell powered vehicles

2530. Smt. Mausam Noor:

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

- (a) whether Indian Oil Research and Development Centre has developed the country's first hydrogen fuel cell vehicle and if so, the details thereof;
- (b) the steps taken to strategize green hydrogen production by Government as it is an energy-intensive process, along with storage, transport and logistics affecting availability in the future;
- (c) the details of existing hydrogen re-fuelling stations at present in the country including their capacity and volume of sales in monetary terms;
- (d) whether Government proposes to increase the number of hydrogen re-fuelling stations in the country and if so, the details thereof; and
- (e) the details of present source of hydrogen as green fuel?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS
(SHRI RAMESWAR TELI)

- (a) Indian Oil Corporation Limited, Research and Development (R&D) Centre, in collaboration with Tata Motor Limited has carried out trials of hydrogen fuel cell buses in 2019.
- (b) Green Hydrogen can be produced through different pathways such as from electrolysis of water using renewable power, from Bio-methane and from Biomass gasification. Various Research and Development (R&D) activities on Hydrogen are also undertaken by Oil and Gas PSUs (OGPSUs). Further, OGPSUs have formed a Hydrogen Corpus Fund to fund R&D on various facets of Hydrogen including its application as an automotive fuel.
- (c) There are no commercial Hydrogen refuelling stations in the country.
- (d) No such proposal is currently under consideration.
- (e) At present, Green Hydrogen can be produced through different pathways such as from electrolysis of water using renewable power, from Bio-methane and from Bio-mass gasification.
