

**GOVERNMENT OF INDIA
NEW AND RENEWABLE ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:2575
ANSWERED ON:04.12.2009
DEVELOPMENT OF HYDROGEN FUEL
Sardinha Shri Francisco

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether steps have been taken by the Government for the development, promotion and use of hydrogen as an alternative fuel in the country; and

(b) if so, the details thereof?

Answer

THE MINISTER OF NEW AND RENEWABLE ENERGY (Dr. FAROOQ ABDULLAH)

(a) & (b): Yes, Madam. The Ministry of New and Renewable Energy is implementing a broad based research, development and demonstration programme on hydrogen production, its storage and utilization as an alternative fuel for transport and decentralized power generation applications. The programme is being implemented through various academic and research organizations; laboratories of the Council of Scientific and Industrial Research; and public and private sector industry. As a result of these efforts, laboratory scale prototypes of hydrogen operated motorcycles, three-wheelers, small generators, catalytic combustion cookers and some fuel cell based systems have been developed and demonstrated.

A development cum demonstration project for use of hydrogen (up to 30% by volume) in Compressed Natural Gas (CNG) as fuel for automotive vehicles is under implementation through the Society of Indian Automobile Manufacturers, New Delhi; R&D Centre of the Indian Oil Corporation Ltd (IOCL), Faridabad and five automobile manufacturers. In addition, IOCL has set up two hydrogen production and dispensing stations, one each at Faridabad in Haryana and at Dwarka in New Delhi. These stations are presently being used for providing hydrogen blended CNG fuel for some demonstration and test vehicles.