

**GOVERNMENT OF INDIA  
PETROLEUM AND NATURAL GAS  
LOK SABHA**

UNSTARRED QUESTION NO:6160  
ANSWERED ON:05.05.2005  
HYDROGEN POWERED VEHICLE  
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**Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:**

- (a) whether the Government has a proposal for unveiling prototype of hydrogen powered vehicle shortly;
- (b) if so, the details thereof; and
- (c) the effect of this prototype vehicle on the consumption system of fuel in future?

**Answer**

MINISTER OF PETROLEUM & NATURAL GAS & PANCHAYATI RAJ (SHRI MANI SHANKAR AIYAR)

(a) & (b) Under instructions of the Ministry of Petroleum and Natural Gas, Indian Oil Corporation (IOC) have framed a proposal to take up demonstration projects using hydrogen-blended Compressed Natural Gas (CNG) in automotive vehicles. The demonstration projects in the pipeline include using 10% Hydrogen in (CNG) at the Indian Oil Corporation Research & Development Centre at Faridabad (planned for July 2005), and a similar demonstration project later in Delhi. The Ministry of Non-conventional Energy Sources have stated that they had supported an R&D project at Banaras Hindu University which has resulted in the development and demonstration of a Hydrogen powered motorcycle (100cc 4-Stroke engines). That Ministry also supported another R&D project in which a fuel cell-based van utilizing indigenously developed 10KW Polymer Electrolyte Membrane fuel cell has been demonstrated by SPIC Science Foundation, Chennai.

(c) Prototype vehicles are used for research and development purposes. The effect of hydrogen-powered vehicles on the consumption of fuels in the future in Indian road conditions can be judged only after sufficient data are generated.