

GOVERNMENT OF INDIA
MINISTRY OF HEAVY INDUSTRIES
LOK SABHA
UNSTARRED QUESTION NO. 3227
ANSWERED ON 21.03.2023

HYDROGEN FUEL CELL POWERED AUTOMOBILE MANUFACTURERS

**3227. SHRI DULAL CHANDRA GOSWAMI:
SHRI RANJEETSINGH NAIK NIMBALKAR:
SHRI DEVJI M. PATEL:**

Will the Minister of **HEAVY INDUSTRIES** भारी उद्योग मंत्री be pleased to state:

- (a) whether the hydrogen fuel cell powered automobile, motorcycle and three wheeler scooter manufacturers have expressed their interestment to set up manufacturing units and invest in India;
- (b) if so, the details thereof;
- (c) whether the research and development projects on hydrogen based internal combustion engines, hydrogenated CNG and diesel and hydrogen fueled vehicles are being developed across the country and if so, the details thereof;
- (d) whether the Government is giving any incentive to national and multinational automobile or motorcycle manufacturers to set up their manufacturing units in the country and if so, the details thereof; and
- (e) the details of establishments which have applied under any Startup project in the country for this purpose?

ANSWER

**THE MINISTER OF STATE FOR HEAVY INDUSTRIES
(SHRI KRISHAN PAL GURJAR)**

(a) & (b): Yes Sir, several automobile companies have expressed their interest to set up their manufacturing units and invest in India for Hydrogen Fuel Cell Powered Automobiles. These companies have been approved under PLI Auto scheme. List of approved companies who have selected Hydrogen Fuel Cell Vehicle under PLI-Auto Scheme application are given below:

S.No.	Approved Applicant Name
1	ASHOK LEYLAND LIMITED
2	BOOMA INNOVATIVE TRANSPORT SOLUTIONS PRIVATE LIMITED
3	EICHER MOTORS LIMITED
4	PINNACLE MOBILITY SOLUTIONS PRIVATE LIMITED
5	TATA MOTORS LIMITED

(c): As per information received from Automotive Research Association of India (ARAI) Pune, ARAI and IOCL had extensively worked on hydrogenated CNG (HCNG) engine development for the finalization of hydrogen blend in CNG and developed HCNG engines for Indian OEM. Demonstration on buses in Delhi using hydrogenated CNG (HCNG- blend of hydrogen 18% by volume in CNG) was carried out by IOCL.

At present, various OEMs like M/s Volvo Eicher Commercial Vehicle (VECV), M/s Ashok Leyland, M/s Tata Motors, M/s Cummins are working on dedicated hydrogen IC engine development for Heavy Commercial Vehicle application. Some of these OEMs are ready with the prototype of Hydrogen engines and vehicles. M/s Tata Motors & IOCL is planning to demonstrate Fuel Cell buses in Delhi.

(d) Yes sir, the Government is giving incentives to national and multinational automobile manufacturers under PLI – Auto Scheme. The further details of PLI Auto Scheme is available at <https://heavyindustries.gov.in/UserView/index?mid=2482>

The list of approved OEMs under PLI-Auto Scheme is given below:

S. No.	Approved Applicants
1	ASHOK LEYLAND LIMITED
2	AXIS CLEAN MOBILITY PRIVATE LIMITED
3	BAJAJ AUTO LIMITED
4	BOOMA INNOVATIVE TRANSPORT SOLUTIONS PRIVATE LIMITED
5	EICHER MOTORS LIMITED
6	ELEST PRIVATE LIMITED
7	HERO MOTOCORP LTD.
8	HOP ELECTRIC MANUFACTURING PRIVATE LIMITED
9	HYUNDAI MOTOR INDIA LIMITED
10	KIA INDIA PRIVATE LIMITED
11	MAHINDRA & MAHINDRA LTD
12	OLA ELECTRIC TECHNOLOGIES PRIVATE LIMITED
13	PCA AUTOMOBILES INDIA PRIVATE LIMITED
14	PIAGGIO VEHICLES PRIVATE LIMITED
15	PINNACLE MOBILITY SOLUTIONS PRIVATE LIMITED
16	SUZUKI MOTOR GUJARAT PRIVATE LIMITED
17	TATA MOTORS LIMITED
18	TVS MOTOR COMPANY LIMITED

(e): Yes sir, several New Non-Automotive Investor Companies have also applied under PLI Auto Scheme. The list of New Non-Automotive Investor Company under PLI-Auto Scheme is given below:

S. No.	Name of Applicant Company
1	AXIS CLEAN MOBILITY PRIVATE LIMITED
2	BOOMA INNOVATIVE TRANSPORT SOLUTIONS PRIVATE LIMITED
3	ELEST PRIVATE LIMITED
4	HOP ELECTRIC MANUFACTURING PRIVATE LIMITED
5	OLA ELECTRIC TECHNOLOGIES PRIVATE LIMITED