GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

LOK SABHA
STARRED QUESTION NO. 39
TO BE ANSWERED ON 27.11.2024

FIRST INDIGENOUS HIGH SPEED TRAIN

***39. SHRI SUDHEER GUPTA:**
SHRI ANANTA NAYAK:

Will the Minister of RAILWAYS be pleased to state:

(a) whether the Government has initiated the production of its first indigenous high speed train in the country and if so, the details thereof;

(b) the present status of the said train with the salient features thereof;

(c) the details of facilities likely to be provided to the passengers in the said trains;

(d) the total amount of expenditure likely to be incurred on the manufacturing and operation of said trains;

(e) the time by which the said high speed train will be operational in the country;

(f) the amount of revenue likely to be generated by the Railways through this train; and

(g) the details of the name of the cities likely to be connected initially with these said trains particularly the cities of State of Odisha?

ANSWER

MINISTER OF RAILWAYS, INFORMATION & BROADCASTING AND ELECTRONICS & INFORMATION TECHNOLOGY

(SHRI ASHWINI VAISHNAW)

(a) to (g) A Statement is laid on the Table of the House.

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STATEMENT RFERRED TO IN REPLY TO PARTS (a) TO (g) OF STARRED QUESTION NO. 39 BY SHRI SUDHEER GUPTA AND SHRI ANANTA NAYAK TO BE ANSWERED IN LOK SABHA ON 27.11.2024 REGARDING FIRST INDIGENOUS HIGH SPEED TRAIN

(a) to (g) Presently, Mumbai - Ahmedabad High Speed Rail (MAHSR) Project is under execution with technical and financial assistance with Government of Japan. The MAHSR Project is passing through the States of Gujarat, Maharashtra and Union Territory of Dadra & Nagar Haveli.

The length of the project is 508 km with 12 stations planned at Mumbai, Thane, Virar, Boisar, Vapi, Billimora, Surat, Bharuch, Vadodara, Anand, Ahmedabad and Sabarmati. Entire land (1389.5 Ha) has been acquired for the project. Till now, 336 km of Pier Foundation, 331 km of Pier Construction, 260 km of Girder Casting and 225 km of Girder Launching have been completed. The work of the undersea tunnel (approx. 21 Km) has also started.

Indian Railways has successfully designed and manufactured India's first indigenous semi-high speed train set, Vande Bharat at a design speed of 180 kmph, under the 'Make in India' initiative. These trains are provided with best in class interiors for enhanced passenger comfort, new generation light weight bogies, equipped with KAVACH, higher acceleration etc. As of now 136 train services (68 routes) are running successfully with Vande Bharat train sets.

Following the success of Vande Bharat, under “Make in India” initiative Indian Railways (IR) has now taken up designing and manufacturing of

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High Speed Trains sets. Integral Coach Factory (ICF) in collaboration with M/s BEML are designing and manufacturing High Speed Trains sets which will have a design speed of 280 kmph. The manufacturing cost is approx. ₹ 28 Crore per car (excluding taxes), which is highly competitive compared with other train sets.

The design and manufacturing of High Speed train sets is a complex and technology intensive process. The major technical aspects are:

- **Design and manufacturing of aerodynamic, airtight car body**
- **Design and manufacturing of electrics including propulsion for high speed application**
- **Weight optimization of the train set**
- **Heating, ventilation, air conditioning (HVAC) of the train.**

The train set will have chair cars with best-in-class features such as Aerodynamic exteriors, sealed gangways, automatic doors, optimum climatic conditions inside compartments for passenger comfort, CCTV, mobile charging facilities, optimum lighting, Fire safety equipment etc.

The completion of project can be reasonably ascertained after finalisation of detailed design.

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