

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS**

**LOK SABHA
STARRED QUESTION NO.45
TO BE ANSWERED ON 20.07.2016**

HIGH SPEED AND SEMI-HIGH SPEED TRAINS

***45. DR. K. KAMARAJ:
SHRI RAMDAS C. TADAS:**

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Railways has finalized the roadmap for running high speed and semi-high speed trains in various zones of the country;**
- (b) if so, the details thereof along with the present status of progress made with respect to high speed corridor projects in the country, corridor-wise;**
- (c) the details of the standards adopted including infrastructure, rolling stock and operating conditions for the proposed high speed rail corridors;**
- (d) whether the routes of high speed and semi high speed trains have been finalized and if so, the details thereof along with the routes identified, zone- wise; and**
- (e) whether negotiations with various international agencies are underway with appropriate technology as well as financial assistance for the above purpose and if so, the details thereof along with the time by which these trains are likely to be made operational?**

ANSWER

MINISTER OF RAILWAYS

(SHRI SURESH PRABHAKAR PRABHU)

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

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 45 BY DR. K. KAMARAJ AND SHRI RAMDAS C. TADAS TO BE ANSWERED IN LOK SABHA ON 20.07.2016 REGARDING HIGH SPEED AND SEMI-HIGH SPEED TRAINS

(a), (b) & (d): Ministry of Railways has spelt out its policy with regard to running of High Speed and Semi High Speed trains by identification of potential routes for both kinds of train services.

Details of the feasibility studies of High Speed Corridors awarded to various railway companies and consultants are as under:

S.N	High Speed Corridor	Companies undertaking feasibility study
1	Delhi-Mumbai	Consortium of M/s. The Third Railway Survey and Design Institute Group Corporation (Chinese Consultant) and Lahmeyer International (India) Private Limited, India
2	Mumbai-Chennai	Consortium of M/s. SYSTRA (French Consultants), RITES and Ernst and Young LLP.
3	Delhi-Kolkata	Consortium of M/s. INECO- M/s. TYPASA- M/s. Intercontinental Consultants and Technocrats Private Limited (Spanish Consultants).
4	Delhi-Nagpur	Government to Government cooperation with Chinese Railway Company.
5	Mumbai-Nagpur	Government to Government cooperation with Spanish Railway companies.

Mumbai-Ahmedabad high speed rail project has been sanctioned with technical and financial assistance from Government of Japan. Joint feasibility study for Mumbai-Ahmedabad high speed rail project has

already been done by Japanese International Cooperation Agency (JICA).

Indian Railways have also identified nine corridors for feasibility of semi high speed rail, Zone wise details are as under:

S.N	Corridor	Zonal Railways	Status
1.	Delhi –Agra	Northern, North Central	Gatiman Express with maximum speed of 160 Kmph introduced.
2	Delhi- Chandigarh	Northern	Feasibility-cum implementation study awarded to SNCF (France) on cost sharing basis.
3	Chennai- Bengaluru- Mysore	Southern, South Western	Feasibility Study for upgradation of speed awarded to ERYUAN Group of Chinese Railways at their cost.
4	Delhi-Kanpur	Northern, North Central	Quantum of Technical inputs required for upgradation of speed to 160 Kmph have been identified by the concerned Zonal Railways and
5	Nagpur- Bilaspur	South East Central	
6	Mumbai-Goa	Central, South Western, Konkan Railway	
7	Mumbai- Ahmedabad	Western	
8	Chennai-	Southern, South	

	Hyderabad	Central	KONKAN Railway.
9	Nagpur - Secunderabad	Central, Central	South

It has also been decided to undertake field trials for assessing savings in transit time by using special type Spanish Talgo Coaches on existing New Delhi-Mumbai corridor.

Besides above mentioned measures, Ministry has also announced introduction of faster train services like TEJAS which requires minimal technological inputs and aims at attaining speeds above 130 kmph.

(c): As per the joint feasibility report of JICA for Mumbai-Ahmedabad high speed rail project, following standards have been adopted:

- Standard Gauge**
- Maximum design speed of 350 kmph and operation speed of 320 Kmph,**
- EMU type rolling stock with maximum axle load of 17 tonnes,**
- Combination of ballastless and ballasted tracks,**
- Compound catenary system of Over-head Equipment,**
- 2 x 25 KV power feeding system,**
- Digital Automatic Train Control System,**
- Cab Signaling System etc.**
- Length of the corridor 508 kms**
- Travel time 2.07 hours for trains with limited stops and 2.58 hours for train stopping at each station.**

(e): On the basis of negotiations held with Government of Japan and JICA, Government of India has sanctioned Mumbai-Ahmedabad high speed train project with financial and technical assistance from Government of Japan for commissioning targeted in 2023-24.

Government of Japan will provide high speed rail technologies of Shinkansen trains and provide Japanese (Yen) loan upto 81% of the project cost at 0.1% per annum, to be repaid in 50 years with 15 year moratorium.

It has also been agreed to undertake an execution study for semi-high speed trains on Delhi-Chandigarh by French Railway (SNCF) on cost sharing basis and for Chennai –Bengaluru –Mysore by Chinese Railways at their cost. Further, decision has also been taken for conducting field trials for assessing savings in transit time by using special type Spanish Talgo Coaches on existing New Delhi-Mumbai corridor.
