

iGrip webinar series on GEOSTRUCTURES

Indigenous solutions opportunities for High Speed Railway applications

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Mr. Achal Khare
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Mr. Achal Khare was born in 1961. Graduated in Civil Engineering from the University of Roorkee, now IIT/Roorkee, in the year 1981.

Started professional career in Engineers India Ltd (EIL) and then joined Indian Railways as IRSE of 1982 batch.

In Indian Railways, after the initial posting for construction of Rail Coach Factory, Kapurthala, he served in various positions, responsible for maintenance and operation of railway tracks. Thereafter, in the year 1997, he joined the prestigious Udhampur-Srinagar-Baramulla construction project involving construction of tall bridges and long tunnels for a period of 4 years, followed by a posting in Ministry of Railways.

In 2005, joined IRCON on deputation and served in Brazil for about a year followed by posting as Country Head/Malaysia for construction of US\$ 1 billion electrified Railway project between Seremban to Gemas as part of Kuala Lumpur-Singapore Line.

On completion of 5 years deputation, returned to India in 2010 and worked as Divisional Railway Manager/Chakradharpur Division of South Eastern Railway till August, 2012.

Before joining as first Managing Director of National High Speed Rail Corporation Ltd. (NHSRCL), his last assignment was in the Ministry of Railways as Advisor/Infrastructure where he was responsible for coordinating major infrastructure projects such as Dedicated Freight Corridors and the High Speed Rail project of Mumbai-Ahmedabad. Apart from technical and managerial skills, he has experience in dealing with matters relating to international cooperation. He has been the pioneer for making the policy framework and related model documents for encouraging Public Private Partnership (PPP) in Railways.

Abstract

India's first High Speed Railway project is being executed between Mumbai to Ahmedabad by National High-Speed Rail Corporation Limited (NHSRCL). In order to meet the "make in India" objectives of the Project, several materials, equipment, assemblies have been jointly identified by Japan & India to be made in India. Some such specific items are discussed with their key design features, application details etc. with a view to arouse the interest of technical institutions, potential manufacturers. The items include Liner Plate for Shinso pile, Damper Stopper as seismic restrainer, Geo-synthetics for RE wall, Cement Asphalt Mortar, Rail Turn-over prevention device, Embedded Inserts (Tie plugs), Double skin hollow Aluminum car body for coaches, Contact Wire, masts for Over Head Equipment (OHE).

Institutes & Firms developing indigenous solutions would have opportunities in:

- HSR projects (present & future; in India & abroad)
- Big & growing Indian Railways, Metro Railways opportunities.

High Speed Rail Innovation Centre Trust undertakes research, development in relevant fields of HSR technology by leveraging Indian technical capabilities. At present, design of Reinforced Earth (RE) Retaining wall & RE Abutments for HSR applications, indigenous simulation modelling for power supply, OHE system, economical civil engineering solutions etc. are being taken up.