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## **Mumbai Urban Transport Project (MUTP)**

**Responsible authorities:** Mumbai Rail Vikas Corporation (MRVC); Mumbai Metropolitan Regional Development Authority (MMRDA)

**Websites:** [www.mrvic.indianrailways.gov.in](http://www.mrvic.indianrailways.gov.in); [www.mmrda.mumbai.org](http://www.mmrda.mumbai.org)

### **System**

MRVC is a joint venture set up by the Ministry of Railways (51%) and the Government of Maharashtra (49%) to implement the long-projected suburban rail capacity enhancement elements of the Mumbai Urban Transport Project (MUTP), an integrated scheme to improve public transport and traffic in the city. World Bank loans cover 57% of the INR45.26 billion cost of this first phase of the project (2001 prices).

The existing system comprises a 319 km network with sections operated by two zonal railways, Central Railway and Western Railway, carrying 7.2 million passengers daily.

The project is being implemented in two phases, covering provision of additional tracks, lengthening trains together with associated infrastructure works, upgrading signalling, converting DC traction power supply to AC and reducing encroachment on railway land. Resettlement arrangements to mitigate this last-mentioned problem contributed to delays to Phase 1 (MUTP-I) of the scheme, which was completed in March 2012.

Estimated cost of the rail element of Phase 1: INR41.74 billion.

Phase 2 (MUTP-II) will provide further capacity enhancements over a five-year period at a cost of INR53 billion. This phase, which includes 11 separate projects, has been approved by the Government of India and the Government of Maharashtra, and work continued in 2013 for completion in 2015-16.

A third phase of enhancements (MUTP-III), not yet approved in 2013, was the subject of technical and financial feasibility studies.

### **Rolling stock**

Services are operated by 196 9-, 12- and 15-car EMUs. The MUTP provides for 101 new 9-car trains under Phase 1 and 131 under Phase 2. Some existing 9-car trains to be lengthened to 12-car.