

# Metro 3: Train trials completed, testing of electrical systems on

**Mumbai:** The Research Design and Standards Organisation (RDSO) of Indian Railways has completed trials for the rolling stock or train set that will be deployed for commercial services on the underground Metro 3 (Colaba-Bandra-Seepz). Trials are currently underway for the Phase I stretch between Bandra-Kurla Complex (BKC) and Aarey.

“This is a significant milestone as oscillation trials for the Metro rakes have been concluded. RDSO will now send its report of this segment of trials to the railway board and the commissioner of metro rail safety,” said a senior MMRCL official, adding: “Testing of other electrical systems and integrated testing of the rolling stock with signalling is in progress. After completion of testing, the commissioner of metro rail safety will

be invited.”

These trials, which commenced June 8, were undertaken at a maximum speed limit of 95kmph with both empty and loaded rakes. Oscillation trials for Metro systems test the dynamic performance and stability of the train at different speeds.

The key aspects tested during these trials include determining ride comfort by evaluating the vibrations and accelerations experienced inside the train to ensure passenger comfort.

The dynamic stability is also checked to assess the train's stability to avoid derailments, particularly at high speeds and during curves. Analysis of how the train interacts with the track, including the forces exerted on the rails and the potential for rail wear or damage, is also undertaken.

— **Manthan K Mehta**