



MUMBAI SUBURBAN RAILWAY STATIONS CROWD FLOW STUDY MUMBAI, INDIA

A high level advice was provide by BuroHappold's Smart Space team for Mumbai Rail Vikas Corporation (MRVC) to scope out a study for crowd congestions across the western rail stations in Mumbai. Spread over 465 kilometres (289 mi), Mumbai Suburban Railway carries more than 7.5 million commuters daily. By annual ridership (2.64 billion), the Mumbai Suburban Railway is one of the busiest commuter rail systems in the world. It has some of the most severe overcrowding in the world. Our work involved high level discussions with MRVC to outline a comprehensive plan to capture information on peak hour passenger traffic in order to help improve the operations of its stations.

Through a series of workshops with MRVC our work outlined a comprehensive set of studies to a) survey and review 3 representative stations (e.g. Dadar, Andheri and Goregaon) to highlight the current congestion issues, peak period passenger flow volumes, variations, and behaviour of passenger flows, b) model the peak time

flows through the key entry/exit and pinch points in the station, and c) present an insight into the constraints, opportunities and recommendations to improve the station operations so it enhances passenger circulation, reduces congestion and improves the overall experience of the commuters. These studies are aimed at informing the future development strategies for the stations as well as the connectivity with the surrounding neighbourhood through an improved use of the sky-walks and integration with raised ticketing concourse.

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Mumbai Rail Vikas Corporation (MRVC)

DURATION
2016

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Smart Space - People Flow & Space Analysis