

JUSTIFICATION OF PHASE-II AHMEDABAD GANDHINAGAR METRO RAIL PROJECT

Gujarat Metro Rail corporation (GMRC) Ltd. Have proposed the Metro for the interlinked city Ahmedabad and Gandhinagar based on the ridership details. Daily ridership on the Ahmedabad Phase-II Metro Rail network in 2021 is expected to be 1.4988 lakh passengers. The average trip length will be 15.77 km in year 2021. Corridor wise total daily ridership for the years 2021, 2031, 2041 and 2051 and PHPDT are:

Daily ridership				
Corridor/Year	2021	2031	2041	2051
Motera Stadium to Mahatma Mandir Corridor	99,791	1,58,397	2,27,228	2,86,579
GNLU to GIFT City Corridor	11,798	27,742	36,893	48,018
Koteshwar Road to Airport Corridor	13,349	19,215	24,513	30,504
Total	1,24,938	2,05,354	2,88,634	3,65,101
Trip Length	9.26	8.34	8.46	8.45

PHPDT				
Corridor/Year	2021	2031	2041	2051
Motera Stadium to Mahatma Mandir Corridor	4,121	5,733	7,935	9,950
GNLU to GIFT City Corridor	638	1326	1766	2261
Koteshwar Road to Airport Corridor	801	1062	1328	1668

The transportation system in Ahmedabad and Gandhinagar is predominantly dependent on roadway systems. The major road network in the study area is around 3045 km in length, of which 125 km are National Highways and 103 km are under State Highways which are being maintained by National Highways Authority of India and Roads & Building Department respectively. The rest of the roads are managed by respective urban local bodies of AMC, AUDA, GNA and GUDA. Increasing the daily traffic congestion, public shall be shifting towards the Rail transit system for smooth and fast commuting between the interlinked cities – Ahmedabad and Gandhinagar.

Road-based transit systems can optimally carry up to a maximum of 8,000 PHPDT. With an aim of reduction in road traffic and with the PHPDT of 4121 on the extension of the North South Corridor from Motera Stadium to Mahatma Mandir

PLACE - GANDHINAGAR
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