

DETAILED PROJECT NOTE ON PROPOSED CONSTRUCTION OF MULTI-MODAL CORRIDOR FROM NAVGHAR TO CHIRNER

PROJECT BACKGROUND:-

MMRDA is a planning, development, coordinating and implementing agency established by the Government of Maharashtra to ensure balance development combined with sustainable growth of the Mumbai Metropolitan Region (MMR).

The genesis of the proposed Multi Modal Corridor (MMC) is the Comprehensive Transportation Study (CTS) for the MMR conducted by MMRDA, also known as TRANSFORM (Transportation Study For the Region of Mumbai), with technical assistance from World Bank under the Mumbai Urban Transport Project (MUTP). The prime objective of TRANSFORM was to identify the travel pattern of residents in the MMR and recommend long-term comprehensive transportation strategy with a horizon year of 2031, one of the recommendations of TRANSFORM was to develop the Multi Modal Corridor (MMC) from Navghar to Chirner in Tah. Vasai to Chirner Tah. Kalyan, also known as the Ring Road.

NECESSITY OF THE PROJECT:-

The Mumbai Metropolitan Region is one of the fastest growing metropolises in India with a population of 19 million; it is ranked as the sixth largest metropolitan region in the world. Beyond Greater Mumbai the other regions in MMR viz. Thane, Navi-Mumbai, and Mira-Bhayander have also witnessed economic growth. The region's primacy in the economic well being of India cannot be underrated. Maintaining and enhancing the vitality of this metropolis and achieving sustainable growth is pivotal towards realizing the larger developmental objectives and quality of goals of India.

The metropolis, like many other major cities in the world is facing challenges on account of limitations of physical and social infrastructure. Given the growth dynamics and dimensions of transportation problems, and to plan and develop sustainable transportation systems in the region as a part of Comprehensive study on Transportation for MMR, a Multimodal Corridor was proposed.

A multimodal corridor is a single corridor in which multiple modes, such as, buses, BRT, metro rail and cars, along with utilities such as water, sewage and gas lines are present along the same Right of Way.

Various alternative alignments were studied for the proposed MMC and alignment was finalized based on various techno-economic and environmental factors and in construction in MMRDA. The feasibility study is being carried out for the finalized alignment to be developed in order to propose alignment for said multi modal corridor, a matrix of various alternatives are studied by MMRDA. Thus, alignment proposed involve approx. 75.13019629 ha. minimum of Forest land as compared to others and has lesser vegetation.

TECHNICAL ASPECTS OF THE PROJECT:-

The starting point of this proposed multimodal corridor from Navghar to Chirner of length 85.535 Km. is at village-Bapane of Tah. Vasai & end point of this corridor as at Chirner of Tah. Kalyan

with Ch. Km. 85.535. The grades proposed for these alternatives are well within permissible limits i.e. 1:18. The horizontal curves are designed for the apexes having deflection angle 75 degree.

The proposed Multi Modal Corridor:

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| 1) Total Length Requiring Construction | : 85.535 Km. |
| a) Length through Forest area | : 8.71 Km. |
| b) Length through non Forest area | : 76.824 Km. |
| c) No. of villages through Forest | : 14 village/s |
| d) No. of villages through Non-Forest | : 35 village/s |
| 2) Additional land width proposed | : Av. 99 Mt. |
| 3) Number of interchanges | : 8 |
| 4) Number of vehicular underpasses | : 28 |
| 5) Number of pedestrian underpasses | : 16 |
| 6) Number of culverts | : 120 |
| 7) Type of tolling system | : Closed system |
| 8) Estimated cost | : 1600 Cr. |

LAND ACQUISITION SCENARIO:-

The total Forest land required for the project as per FCA-1980 and guidelines issued by Govt. of India MOEF; New Delhi under the class-Reserved Forest, Mangrove Forest and Private Forests etc. The land involved under proposed alignment is approx. 75.12347707 ha. of classes R.F. & Mangrove.

FINANCIAL & SOCIAL SOLUTION :-

The benefits of the Multi Modal Corridor between Navghar to Chirner are:

- 1) High speed movement within MMRDA.
- 2) Choice of multiple modes to travel.
- 3) Easy and fast transfer between modes.
- 4) Cost savings over development of separate corridors for each transportation mode.
- 5) Integral part of the regional transportation network recommended by the comprehensive Transportation Study for the MMRDA.
- 6) This corridor will benefit approx. 10 growth areas identified for the future development & this will uplift the standard of approx. 3.5 million people by the year 2041. These growth areas are expected to witness continuous and rapid development in residential, commercial and industrial activities.

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