

PROJECT NOTE

By the Project Authority

Name of the Project: Four laning of Khudus to Dharmapuri section of NH-965 from Km. 77/800 to Km. 115/350 in the State of Maharashtra.

1.0 GENERAL

- 1.1 With the growth of urban centre and the economic activities around the focal points, the demand for transportation has been increasing steadily in India. To cope with this ever-increasing demand 4 laning of several National Highway have been undertaken in various phases under NHAI for safe, economic and fast travel.
- 1.2 Considering the ever-increasing traffic demand on major link roads This link is beneficial for exchange of traffic from one highway to another highway.

2.0 DESIGN STANDARDS

- 2.1 The following standards for some major design elements of the proposed road, generally conforming to the internationally accepted standards for highway on similar terrain and traffic conditions were recommended by Consultants and were accepted by the National Highway Authority of India.
- 2.2. **Roads**

The proposal for the Four laning of Khudus to Dharmapuri section of NH-965 from Km. 77/800 to Km. 115/350 in the State of Maharashtra are provided in Table 2.1

Table 2.1 Improvement Proposals

Sr. No.	Design Elements	Proposed Features
1	Design speed	80 Km/h
2	Right of way (m)	As per ROW –45 mtr.

3	Carriageway width	15.00 m.
4	Paved Shoulder (m)	1.500
5	Earthen Shoulder (m)	2.0m.
6	Edge Strip (m)	1.00 m.
7	Median (m)	2.50 – 4.50m.
8	Lane width	3.50 m.
9	Longitudinal Gradient (%)	1:60 min.
	Ruling	1 : 30
	Absolute	1 : 20
	Minimum	1 : 20
10	Cambers	2.0%
11	Length of Service roads	36.100 km
12	Bus Bays	14 Nos.
13	Truck lay byes	Nil

B. Bridge and Culverts

The improvement proposal for bridges and structures essentially consists of two components

- Up gradation of project corridor by provision of new bridges and structures to accommodate projected traffic.
- Widening / rehabilitation / replacing the bridges and structures on existing road.

The numbers of Bridges/Flyovers/CD structures proposed for the project is presented in the table -2.2

Table 2.2 Proposed Bridges, Flyovers & CD structures

Sr. No.	Structures	Nos.
1	No. of Major bridges	1 Nos.
2	No. of Minor bridges	18 Nos.
3	Flyover/ROB	Nil
4	Vehicular underpass	14 Nos.
5	Pedestrian underpass	Nil

6	Cattle/underpass	Nil
7	Light Vehicular Underpass with @ 4.0 m	Nil
8	Vehicular Underpasses	10 Nos.
9	Foot Over Bridges	Nil
10	Culverts (Widening/rehabilitation)	50 Nos.

Widening/rehabilitation of bridges and structures on existing road

- The existing major bridges, minor bridges on the existing road required to be repaired/ rehabilitated/ widened/ replaced to cater for safe movement of present day traffic and traffic expected in future.
- The repair/rehabilitation for existing bridges is proposed as contained in IRC SP on Techniques for strengthening of bridges.

Road Alignment

The development of the road under consideration starts at Khudus km. 77/800, and ends at Dharmapuri, Km. 115/350.

2.3 Existing ROW/Land width

The objectives of the proposal project is to improve the existing road to standard 4 lanes depending upon the growth of vehicular traffic, proposed road development requires various studies such as traffic, terrain ribbon development, need for alternative alignments, bypass, service road for urban/built-up areas and flyover/ interchanges and widening of major as well as minor bridges and CD structures etc.

2.4 Proposed ROW

In general, right of way (ROW) of 45mtr is required for the widening to 4 lanes of project road. This required additional land acquisition where ROW is other than

specified location where geometric improvement requires additional lanes; additional land width will be required.

2.5 Lane Configuration

Based on the traffic survey, analysis and forecast the 4-lane configuration is sufficient to cater to the traffic up to year 2040.

2.6 Financial Details

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|-----------------------------------|----------------|
| • The capital cost of the project | 1085.65 Crores |
| • Construction period | 36 Months |

Date: - / /2019

Place: - Solapur.


Project Director,
National Highways Authority of India,
P.I.U. Solapur.