

ANNEXURE-IV

FULL TITLE OF THE PROJECT: Up gradation, Widening and Strengthening work for 2-lane with Paved Shouldering of Existing National Highway 80 alignment from Km 132.895 to Km 190.150 Bhagalpur- Kahalgaon- Mirzachowki Section of Length 57.255 Km in the state of Bihar.

FILE NO.:

DATE OF THE PROPOSAL: 19/01/2021

Executive Summary

1.1 General

The Road Construction Department (RCD), National Highway Wing has been entrusted with the assignment of preparation of Feasibility Study and Detailed Project Report of selected stretches/corridors of National Highways/ State Roads (approved "In Principle" for declaration as National Highways) for improvement to two lane with paved shoulder configuration in the State of Bihar.

M/s Transtek Engineers & Services Pvt Ltd has been selected as consultant to undertake the Detailed Project Report for upgradation of section of project highway connecting Bhagalpur to Mirzachowki.

The aforesaid project road lies in the State of Bihar. The state of Bihar is located in the east part of India. Bihar is one of the strongest agricultural states. Around 80 % of the population is employed in the agriculture which is much higher than the national average. It is the largest producer of vegetables and second largest producer of Fruits in India. Food Processing, dairy, sugar, manufacturing and healthcare are some of the fast growing industries in the state. The state of Bihar also enjoys a unique location specific advantage because of its proximity to the vast markets of eastern and northern India, access to ports such as Kolkata and Haldia and to raw material sources and mineral reserves from neighboring states. The state has a large base of cost effective industrial labour, making it an ideal destination for a wide range of industries. The state has planned initiatives for the development of the other sectors such as education and tourism and also provides incentives for information technology and renewable energy.

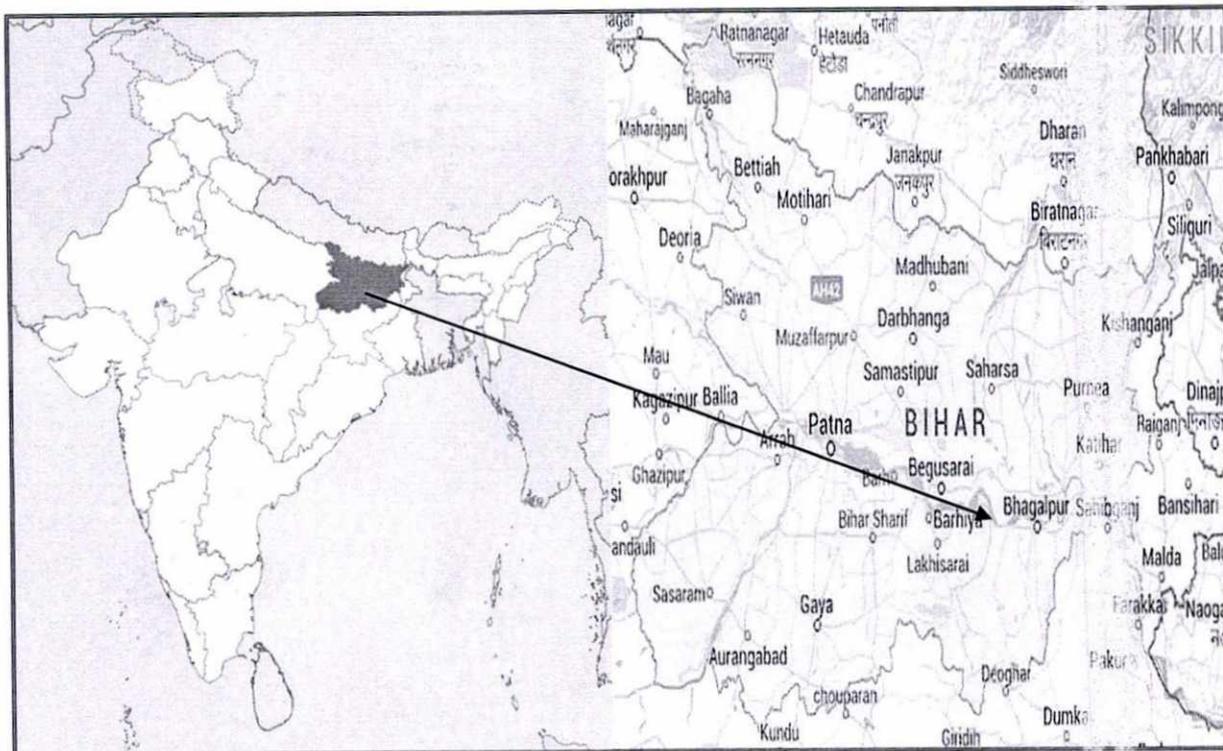
1.2 Existing Alignment

The project road is a part of newly declared NH 80 (New NH-33), starts at the Km 132.895 and ends at Km 190.150. The project road runs from Bhagalpur to Mirzachowki (Bihar & Jharkhand border). On the way the project road traverses around the establishments of Bhagalpur, Sabour, Masarhu, Ghogha, Kahalgaon, Ramzanipur, Shivnarayanpur, Pirpainti, Mirzachowki, etc. The existing carriageway of the road is two lane standard with paved shoulder. Around 20% of length of the project section passes through built-up area. The existing ROW in the entire project section varies from 15-26 m. The Location of the project road is shown in the Figure-1.

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Figure 1: Location Map



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1.2.1 Land Use

The land along the project road is a combination of cultivated land with some built-up areas and Industrial areas at start and in between. There are cultivated field along the majority of the highway. The land use along the highway is given in the below table.

Table: Land Use Details

Section	Built-up(km)	Forest (km)	Open/Agricultural(km)
Bhagalpur – Mirzachowki	25.192	0	32.062

1.2.2 Terrain Classification

The project road alignment traverses through plain terrain for the whole length.

1.2.3 Existing Carriageway and Pavement

The NH 80 (New NH-33), section of project road has two lane carriageway of 7.0m & 10 m along with intermediate lane of 5.5 m width with 1.0-2.0m shoulders on each side of the carriageway. The surface of the carriageway is bituminous and the shoulders are unpaved except for the sections lying in the built up area where the CC pavement is provided. The condition of the bituminous and CC pavement is fair to poor with raveling, potholes and patching, very common.

The shoulders are generally in fair to poor condition throughout the project road.

1.2.4 Existing Right of Way

The existing road carriageway is majorly 5.5-10 m wide which has to be developed to National Highway standards for which minimum of 15-20m ROW is required. As of sufficient ROW is available on the whole project road. The existing ROW varies between 15-26 m throughout the road stretch .

1.2.5 Quarry Sources

There is plenty availability of soil and sand along the project road. Aggregate quarries are also available within short distance from project road at Mirzachowki.

1.2.6 Environmental Issues

There is no wildlife sanctuary or reserved forest/protected forest within the ROW of the project road section of Bhagalpur – Kahalgaon – Mirzachowki (Bihar & Jharkhand Border).

1.2.7 Existing Traffic

The project road has one homogeneous road section on the basis of traffic generation and dispersal nodes located along the project road. Considering the traffic generation/distribution points, total project road divided into two homogeneous road sections for the purpose of analysis and presentation of traffic and travel characteristics. Below Table gives the details of the homogeneous sections defined for the study of the project corridor and the corresponding PCU for those sections. The important dispersal locations identified along the project road include:

- Bhagalpur, Sabour, Kahalgaon, Pirpainti, Mirzachowki are major towns along the project road.
- NH 133 & SH-85 Intersects the Project road.

Table: Traffic Details

Homogeneous Sections	Place where Survey carried out	Road	Existing Chainage of survey point (km)	Length (km)	PCU
HS-I	Ghogha	NH- 80	150.10	57.255	31111
Total Length (kms)				57.255	

PLACE-BHAGALPUR

DATE -

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19/11/2021

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