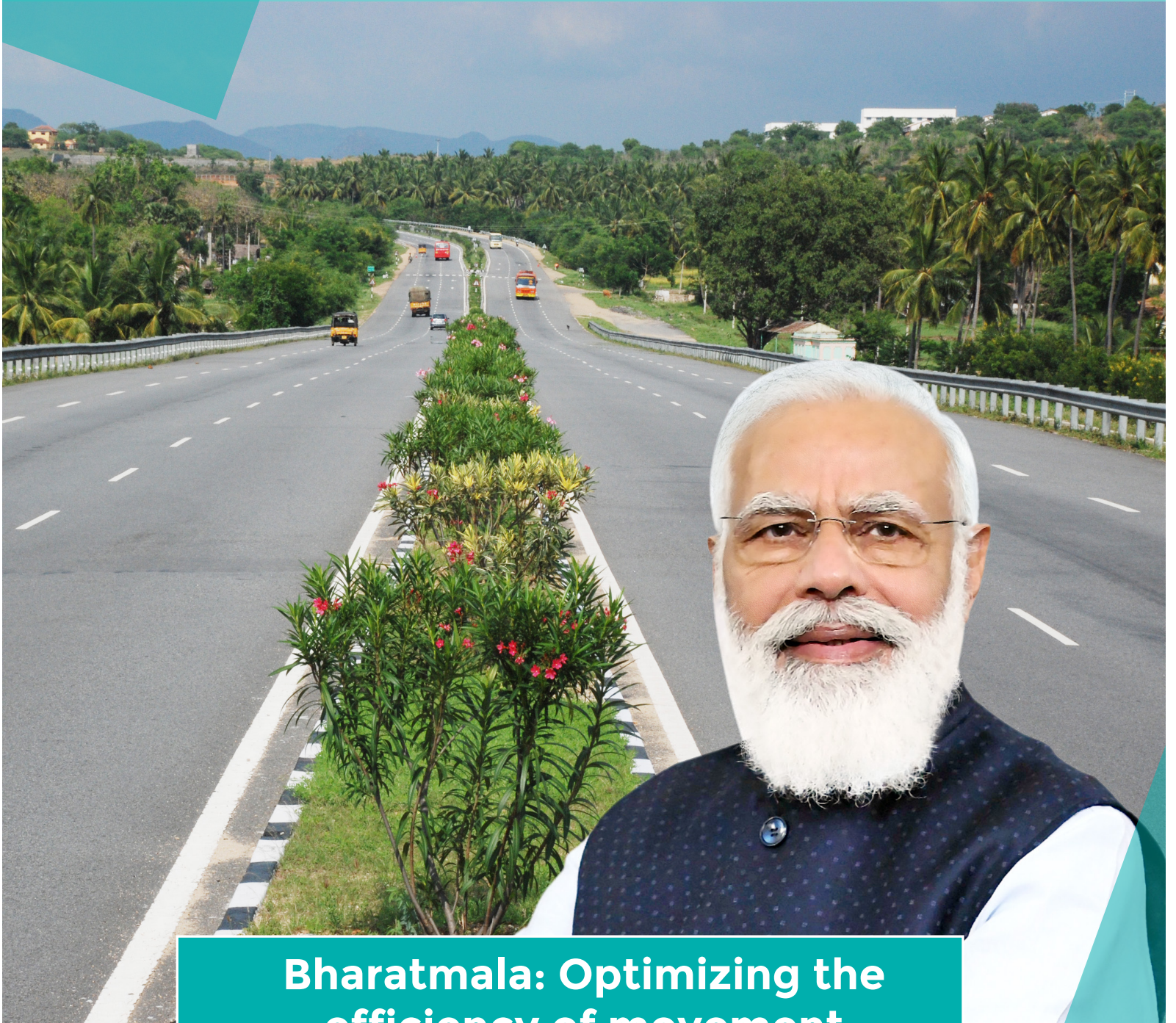




**Ministry of Road
Transport & Highways
Government of India**



Bharatmala: Optimizing the efficiency of movement

**Move towards New India
Ensuring Ease of Living**

Importance of roads for a nation,
is the same as the importance of
arteries and veins in the human
body

- Shri Narendra Modi
Prime Minister



Bharatmala will be a major driver for economic growth in the country, and help realize Prime Minister Modi's vision of a "New India"

- Shri Nitin Gadkari,
Minister RT&H



Contents

1. Introduction	05
2. Consultation in Finalizing Reforms	06
3. Gaps in Highway Infrastructure	07
4. Vision for Bharatmala Pariyojana	08
5. Features of the Reform	09
6. Systematic Interventions for Greater Impact	11
7. Before and After	12
8. Public Discourse on Bharatmala Pariyojana	14
9. Success in Numbers	16
10. Success Stories and Prominent Projects	17

INTRODUCTION

India has about 63.72 lakh km of road network, which is the second largest in the world in terms of length. National Highways (NHs) constitute about 2% of the total road network but carry about 40% of the total road traffic.

The National Highways Development Project (NHDP) had reached a certain level of maturity. It was important to re-define road development and have a macro approach while planning expansion of the national highways network. Earlier, the rationale for highway construction was point to point connectivity; highways development was not planned with an economic perspective.

It was, therefore, required that the Origin and Destination of vehicular traffic, particularly of freight, be the basis of construction for the bigger i.e. 4-laning/6-laning National Highways (NHs).

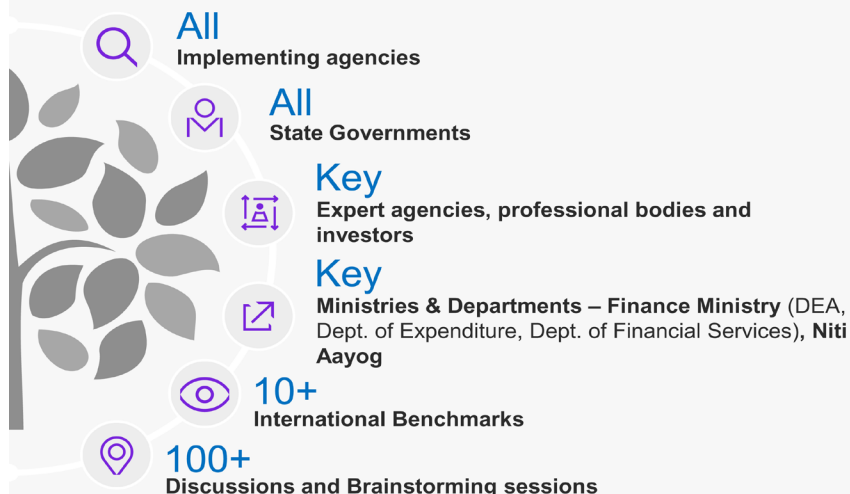
Hence it was proposed to launch a new umbrella program with the primary focus of optimizing the efficiency of the movement of goods and people across the country.



Karnataka Border to Kundapur, Goa

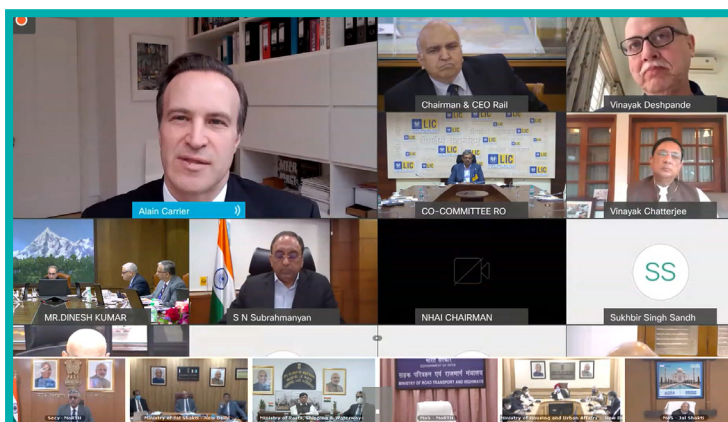
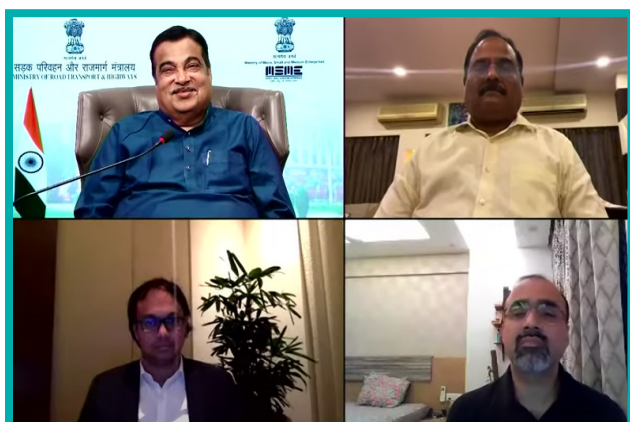
CONSULTATION IN FINALIZING REFORMS

Consultations in finalizing reforms



“The sector has been witnessing high construction rates over the last few years. A host of policy initiatives undertaken by the government in the recent past covering aspects like expeditious land acquisition, solving operational issues, revival of languishing projects and time bound resolution of disputes in an affordable manner have gone a long way in ensuring an enabling environment”

Davindar Sandhu (Partner, KPMG)



Consultation with Industry Stakeholders

GAPS IN HIGHWAY INFRASTRUCTURE

The Bharatmala Pariyojana program envisages a corridor approach in place of the existing package-based approach which had, in many cases, resulted in skewed development. For instance, in areas of high traffic, even up to 30,000 Passenger Carrying Units (PCUs), there were National Highway stretches of single and even intermediate lane. Naturally, these become an impediment to seamless freight and passenger movement.

Inadequacy in Optimization of National Highway network

Road network has to be optimally designed to improve logistics efficiency and promote economic activity. Due to **resource constraints** and **lack of a national plan**, apart from Golden Quadrilateral and North-South-East-West Corridor¹, optimization of road network was inadequate.

Additionally, **connectivity of major corridors and ports with hinterland** was not planned in an integrated manner.

Presence of Congestion Points

Multiple points of local congestion were present even on **already developed corridors**, driven by the interaction of the **local city traffic** with the **highway traffic**, leading to **drop in vehicular speed**, **higher accidents on highways**.

Lack of accident response infrastructure

There was a need to **proactively identify areas** on national highways that are prone to accidents and **swiftly design and implement interventions**.

¹ Under National Highway Development Project (NHDP) Phase 1 and Phase 2



Kadapa-Kurnool Section of NH-40, Andhra Pradesh

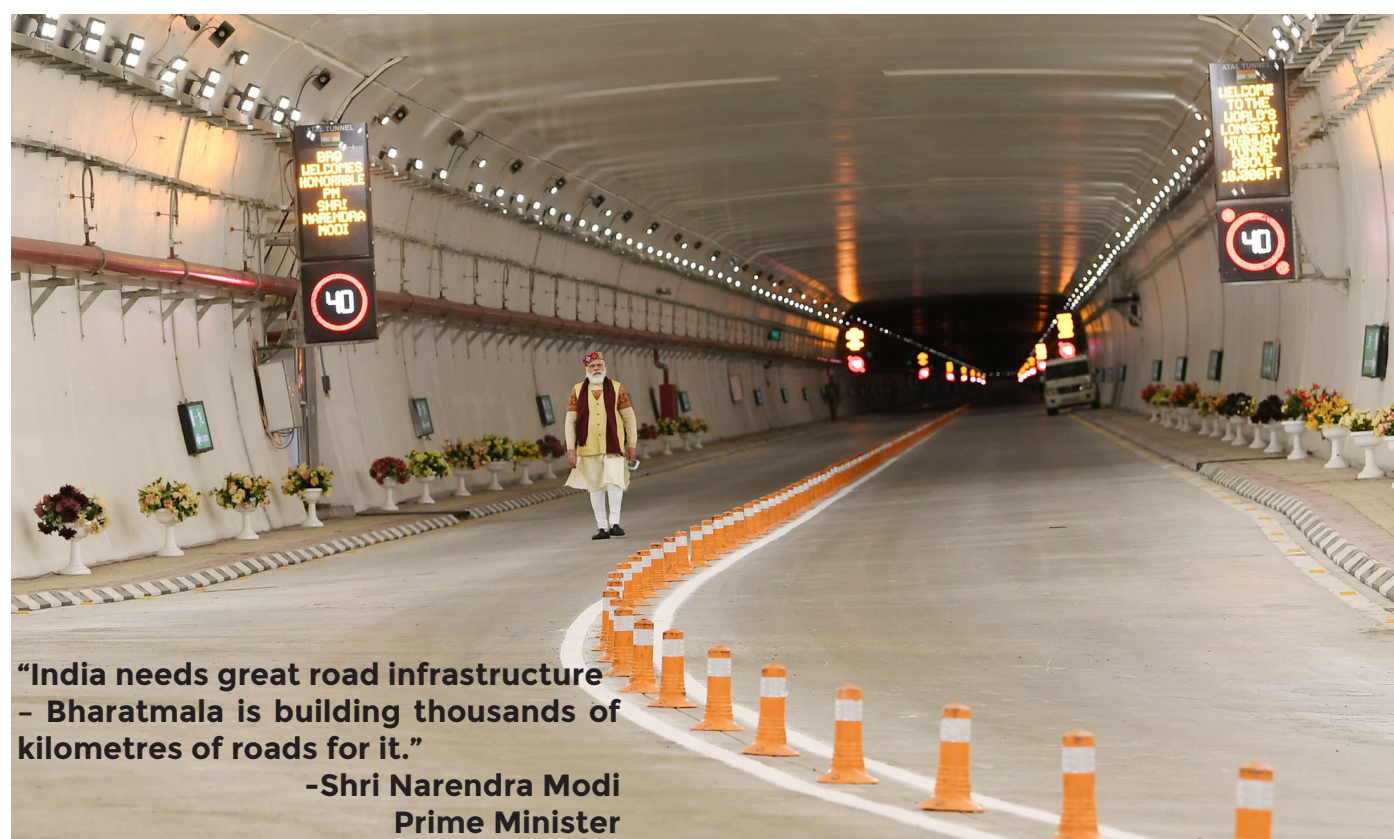
VISION FOR BHARATMALA PARIYOJANA

The umbrella program of Bharatmala focused on **enhanced effectiveness of already built infrastructure, multi-modal integration**, bridging **infrastructure gaps** for seamless movement and integrating National and Economic Corridors. The program was conceptualized to attain optimal resource allocation for a holistic highway development/improvement initiative.

At the time of conceptualization of Bharatmala Pariyojana, around 300 districts had NH connectivity. The bridging of critical infrastructure gaps in existing highway network would enhance safe and seamless movement of traffic, and in turn have a positive impact on the Logistic Performance Index (LPI) of the country.

To this effect, there are six key features of the program:

- **Economic Corridors:** Integrating the economic corridors facilitates larger connectedness between economically important production and consumption centers.
- **Inter-corridor and Feeder routes:** Inter-corridor connectivity would ensure first mile and last mile connectivity.
- **National Corridor Efficiency Improvement:** Through this, the greater actionable goal is to undertake lane expansion and decongestion of existing National Corridors.
- **Border and International connectivity Roads:** Better border road infrastructure would ensure greater maneuverability, while also boosting trade with neighboring countries.
- **Coastal and Port connectivity roads:** Port-led economic development is further boosted through connectivity to coastal areas, encouraging both, tourism and industrial development
- **Green-field Expressways:** Expressways have higher traffic configuration and choke points would benefit from green-field expressways.



**"India needs great road infrastructure
- Bharatmala is building thousands of
kilometres of roads for it."**

**-Shri Narendra Modi
Prime Minister**

Inauguration of Atal Tunnel, Himachal Pradesh

FEATURES OF THE REFORM

Corridor Based Approach

The objective of the Bharatmala Pariyojana program is to optimize the efficiency of freight and passenger movement across the country by bridging critical infrastructure gaps through **development of Economic Corridors, Inter Corridors and Feeder Routes, National Corridor Efficiency Improvement, Border and International connectivity roads, Coastal and Port connectivity roads and Green-field expressways.**

Identification of the project stretches under the components of the proposed program is based on detailed Origin-Destination (O-D) study, freight flow projections and verification of the identified infrastructure gaps through geo-mapping.

Construction of a total length of about 24,800 kms is being taken up under Phase-I of Bharatmala Pariyojana. In addition, Phase-I would also include about 10,000 kms of residual works of National Highway Development Project (NHDP).

Bharatmala Pariyojana was conceptualized as an umbrella program with a **corridor-based approach:**

- Origin-Destination study based on freight movement across **600 districts**
- Technology-based **automated traffic surveys** over **1,500+ points**
- Satellite **mapping of corridors** to identify upgradation requirements

One other key pillar of the Bharatmala Pariyojana program is the conceptualization and implementation of **22 greenfield access-controlled corridors and expressways** of length 8,400+ km at total capital cost of over Rs. 3.3 lakh crore to enable seamless connectivity across major economic centers of the country. Additionally, **6 expressways and 17 access controlled corridors** of length 8,100+ km are planned as part of Bharatmala Pariyojana Phase II(A) at total capital cost of over Rs. 3.66 lakh crore.

Decongestion of Highways

- **191 congestion points** were identified across key cities on the National Highway corridor network
- Multiple interventions were identified for resolution of congestion points
 - **29 ring roads** addressing **44 Congestion Points**
 - **54 Bypasses** addressing **56 Congestion Points**
 - **76 Lane Expansions** and structures addressing **91 Congestion Points**

Resolution of Blackspots

Road safety audits have been conducted for 46,399 km till Feb 2022, out of which 10,008 km has been audited in FY2021-22 (till Feb 2022). Consequently, 5803 blackspots were identified for removal and rectification as a permanent measure to reduce road accidents out of which 3,797 have been rectified till Feb 2022.



Interchange at Akshardham Junction, Delhi-Meerut Expressway, Delhi

Efficient Freight Movement through Multi-modal Logistics Parks (MMLP)

Multi Modal Logistics Parks have been conceptualized to act as freight aggregation and disaggregation centers to enable seamless freight movement across the country. **The MMLPs aim to improve the efficiency of freight movement and reduce the logistics cost in the country from 14% to 9% of the GDP** by using more efficient modes of transportation such as higher sized trucks, rail or coastal shipping, etc.

A network of **35 Multimodal Logistics Parks** will be developed as part of Bharatmala Pariyojana, with a total investment of **~Rs. 46,000 crores** which, once operational, shall be able to handle **~700 million metric tonne of cargo**. Of this, MMLPs at **15 prioritized locations** will be developed as part of Phase I of Bharatmala Pariyojana with a total investment of **~Rs. 22,000 crores**. MMLP in Jogigopha, Assam is under construction and is targeted for completion by April 2022. This MMLP will serve as the distribution center for all North-Eastern states and facilitate cross-border trade with Bangladesh, Bhutan and Nepal. **In addition, 4 MMLPs i.e Wardha (Nagpur), Chennai, Bangalore & Indore are targeted for Award in FY22-23.** Bids have been invited for MMLPs at Wardha (Nagpur), Chennai and Bangalore.



Concept View for Bengaluru MMLP

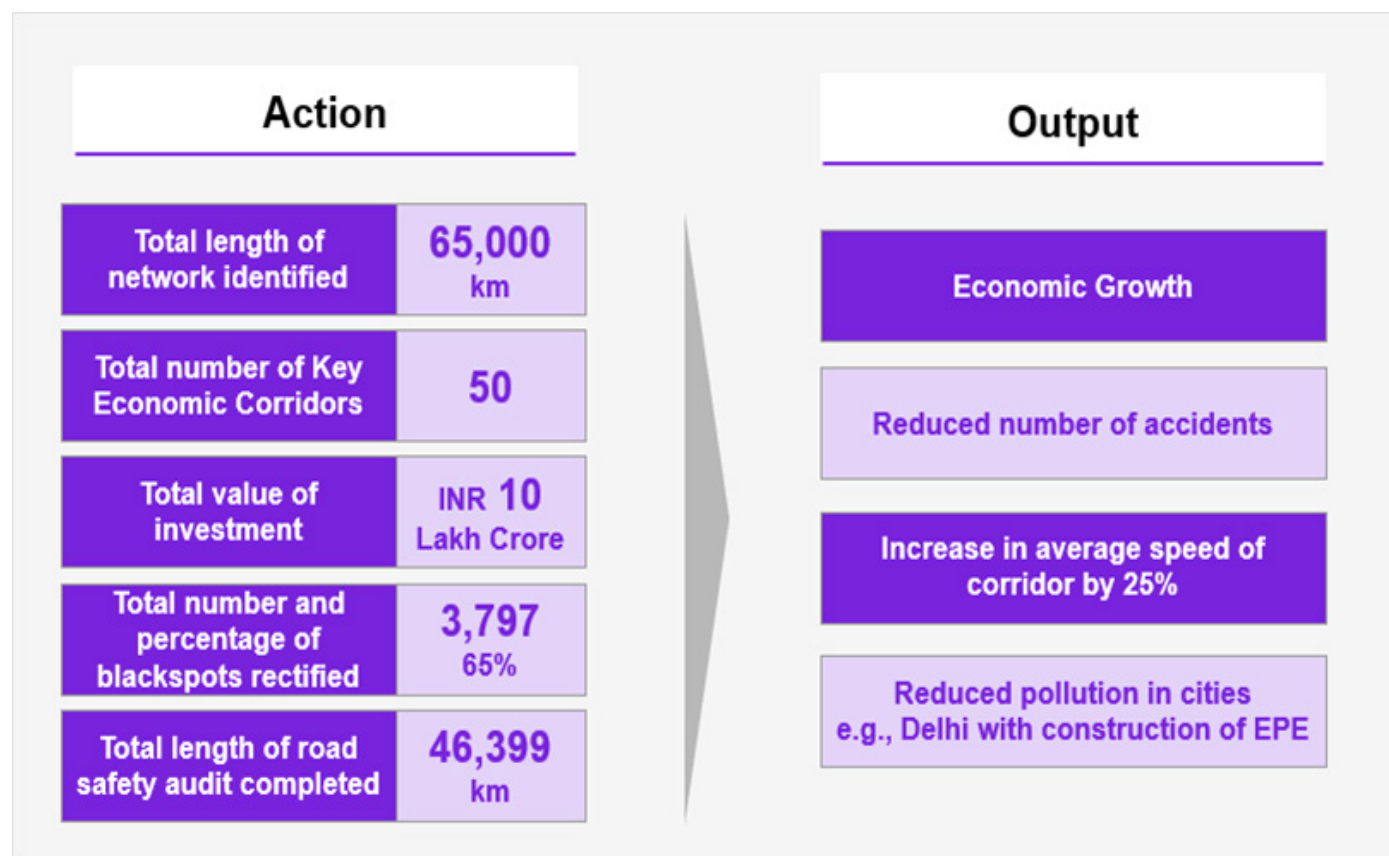
Monetization Plan

One of the key sources of investment in National Highways development is the private sector. To attract investment from global and domestic financial investors, the Ministry is actively pursuing multiple models of monetization of National Highway assets such as:

- **Toll Operate Transfer (TOT)**
 - TOT model is used to monetize national road assets where investors can make one-time lump sum payment in exchange of Toll collection rights for 20 years.
 - The TOT model for asset monetization was initiated in FY17-18 and Rs. 23,154 Cr. has been committed through monetization of ~1,540 km over 4 years.
 - Out of this, Rs. 16,954 Cr. has been realized by NHAI from 4 bundles of TOT, including the recent TOT bundles 5A1 and 5A2.
- **Infrastructure Investment Trust (InvIT)**
 - NHAI's Infrastructure Investment Trust (InvIT) was conceptualized to enable modular approach to monetization of roads.
 - InvIT enables direct investments from individual and institutional investors in infrastructure sector, who earn a portion of income in return.
 - Rs. 7,350 Cr. raised in FY 2021-22 through maiden InvIT listing of NHAI with length of 400 km.

In FY21-22, the Ministry has already realized Rs. 23,618 Cr. through TOT (Rs. 2,262 Cr), SPV (Rs. 14,006 Cr) and InvIT (Rs. 7,350 Cr). For FY22-23, the Ministry has a cumulative monetization target of Rs. 20,000 Cr. through InvIT and TOT and an additional Rs. 15,000 Cr. through SPV financing.

SYSTEMATIC INTERVENTIONS FOR GREATER IMPACT

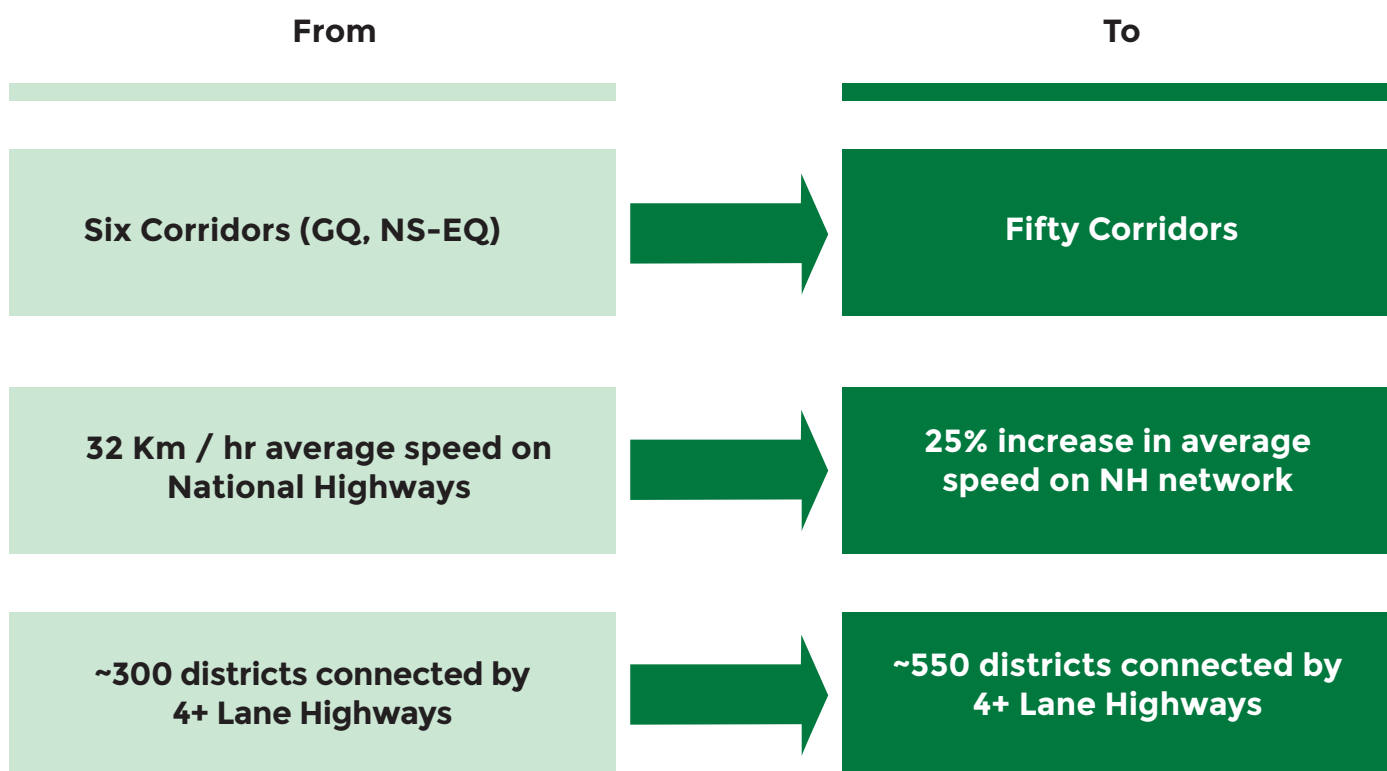


Inauguration of bridge over Dhola-Sadiya Ghat, Assam

Bharatmala Pariyojana: BEFORE AND AFTER

Bharatmala Pariyojana shall deliver substantial improvements in the Highway Network

The program aims to develop corridors to avoid congestion and optimize traffic movement. This will result boosting connectivity to ~550 districts (from 300 currently) and also in a 25% increase (from 32 km/hr) in the average speed on NH network.



Sadar Flyover Nagpur, Maharashtra

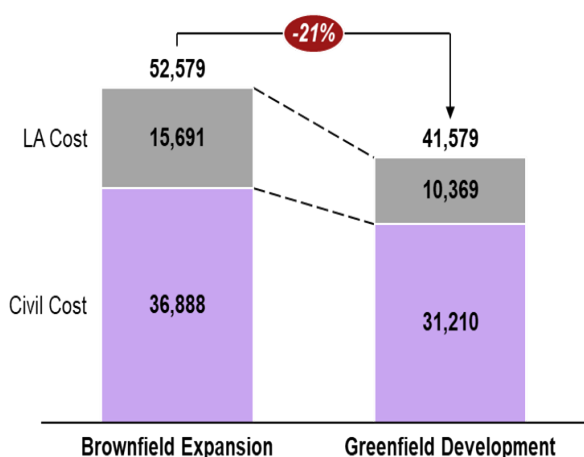
Greenfield Corridors

Bharatmala Pariyojana aims to develop 22 greenfield access-controlled corridors and expressways of length 8,400+ km. The development of greenfield corridors will lead to following benefits:

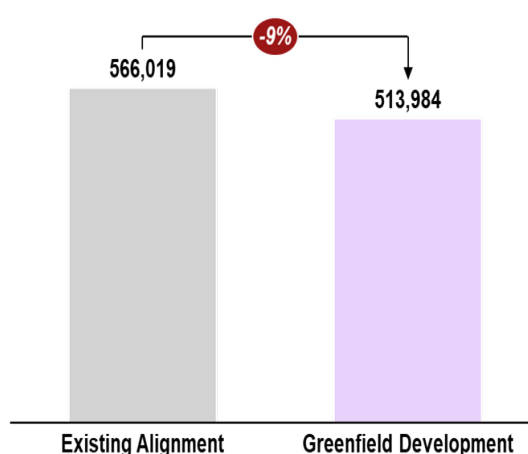
- Reduction in travel distance due to crow-flight alignments
- Lower cost of land acquisition (per Ha basis)
- Economic impetus to hinterlands of the country through improved connectivity

For instance, greenfield development of Delhi - Mumbai Expressway has 21% lower cost of development and reduces the vehicle operating cost by 9% due to reduction in travel distance from 1,390 km to 1,260 km. Details mentioned below:

Cost of Development (NPV, 20 Years, Rs. Cr.)



Vehicle Operating Cost (NPV, 20 Years, Rs. Cr.)



Master Planning of Expressways

Under the vision of PM GatiShakti National Master Plan, the Ministry is planning to connect the economic centers in the country. As per the National Master Plan, 860 nodes have been identified across the country and classified under 8 categories such as SEZs (350), Fishing Seafood clusters (155), Pharma and medical clusters (101), Mega food parks (93), Textile Clusters (83), Defense Corridors (11), Electronic manufacturing centers (38) and NICDIC Nodes (29).

783 of 860 PM GatiShakti nodes are served by one or more corridors under BM Phase I. MoRT&H is conceptualizing Bharatmala Phase II with an objective to provide National Highway or Expressway connectivity to all nodes identified under the National Master Plan.

PUBLIC DISCOURSE ON BHARATMALA PARIYOJANA

Bharatmala Pariyojana in the news

 **FINANCIAL EXPRESS**
Read to Lead



Cabinet approves investment proposal for umbrella highway sector programme Bharatmala Pariyojana

By: FE Online
February 5, 2018 5:52 PM

The Cabinet has accorded approval to the investment proposal for the umbrella highway sector programme Bharatmala Pariyojana (BMP) Phase I for development/upgradation of 34,800 km of National Highways (NHs) with an outlay of Rs.5,35,000 crore for over a five year period i.e. from 2017-18 to 2021-22.



mint

Bharatmala Phase-1 to generate 14.2 crore man-days of employment

1 min read . Updated: 08 Jul 2019, 07:53 PM IST

PTI

- A total of 225 projects, having an aggregate length of about 9,613 km, have been appraised and approved under Bharatmala Pariyojana Phase-I so far
- The project has been approved at an estimated cost of ₹5.35 lakh crore

Massive infra boost! Check these 22 upcoming Greenfield projects under Bharatmala Pariyojana Phase 1

Under Pariyojana's Phase – I, the government plans to develop as many as 22 Greenfield Expressways as well as Access Controlled Corridors.

Written by **Devanjana Nag**
October 25, 2021 2:32:00 pm



Road ministry makes significant progress under 'Gati Shakti' national plan

As part of PM Gati Shakti NMP, the ministry plans to develop 22 greenfield expressways, 23 other key infrastructure projects, other highway projects, and 35 multi-modal logistics parks.



Published: 15th February 2022 06:59 PM | Last Updated: 15th February 2022 06:59 PM

🔍 | A+ A A-



Image for representational purpose only (File Photo)

By PTI

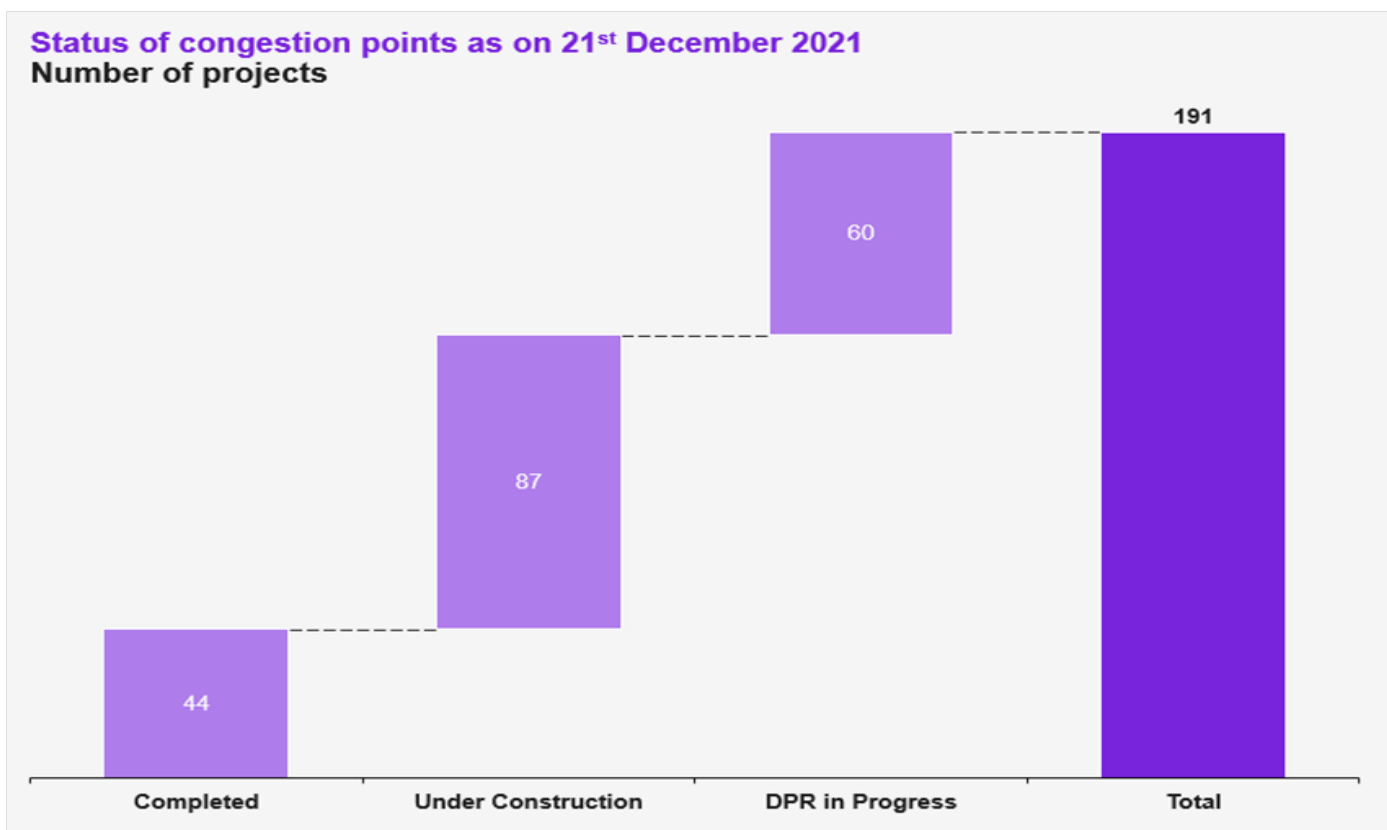
NEW DELHI: Ministry of Road Transport and Highways on Tuesday said it has made significant progress under PM Gati Shakti National Master Plan aimed at improving multi-modal connectivity and last-mile connectivity across the country.

SUCCESS IN NUMBERS

Key components of Bharatmala Pariyojana

Category	Total Length (Km)	BM Phase 1 (Km)	Award (till 01 March' 22)	Construction (till 01 March'22)
Economic Corridors	26,160	9,000	6,006	1,884
Inter Corridors and Feeder Rotes	15,400	6,000	2,694	709
National Corridor Efficiency Improvement	13,049	5,000	2,325	1,119
Border Roads / Strategic Highways	5,198	2,000	1,282	1,132
Coastal & Port Connectivity roads	3,298	2,000	263	62
Expressways	1,837	800	2,265	522
Bharatmala Total	64,942	24,800	14,835	5,427
NHDP	-	10,000	5,500	2,540
Grand Total	-	34,800	20,335	7,967

Status of congestion points as of Dec 2021 (Number of Projects)



SUCCESS STORIES AND PROMINENT PROJECTS

Success stories & prominent projects

MoRT&H has undertaken various marquee projects in the recent past and planned important projects to be taken up in future to boost connectivity to PM GatiShakti Nodes. A brief status of 29 such marquee projects is mentioned in the below section.

Type of Projects	No. of Marquee Projects
Greenfield Corridors	20
Important Bridge & Tunnel Projects	5
Important Road Connectivity Projects	4



#	Project Details	Length (km)	Sanctioned Cost (INR Cr.)	Awarded Cost (INR Cr.)	Status
1	Delhi - Mumbai EXP	1,382	-	98,299	Under Implementation
2	Varanasi-Kolkata Expressway	593	28,500 cr	Yet to be awarded	Balance for Award
3	Ahmedabad - Dholera EXP	109	4,247	3,158	Under Implementation
4	Bengaluru - Chennai EXP	262	-	12,218	Under Implementation
5	Kanpur - Lucknow EXP	63	4,270	Yet to be awarded	Balance for award
6	Ambala - Kotputli	313	-	7,940	Under Implementation
7	Raipur - Vishakhapatnam	465	-	Yet to be awarded	Balance for Award
8	Hyderabad Vishakhapatnam	221 (Suryapet-Khammam-Devarapalle)	5,648	4,939	Under Implementation
9	UER II	76	7,716	4,007	Under Implementation
10	Chennai - Salem	277	-	Yet to be awarded	Balance for Award
11	Chittor Thatchur	116	-	3,959	Under Implementation
12	Bangalore Ring Road	281	-	7,829	Under Implementation
13	Delhi - Saharanpur - Dehradun	262	-	10,851	Under Implementation
14	Durg Raipur Arang	92	-	Yet to be awarded	Balance for Award
15	Hyderabad - Raipur	116 km (Karimnagar - TS / MH Border)	-	Yet to be awarded	Balance for Award
16	Surat - Nashik - Ahmednagar - Solapur	290.7 km (Surat-Nashik-Ahmednagar)	4,482 (for LA)	Yet to be awarded	Balance for Award
17	Solapur - Kurnool - Chennai	278	-	Yet to be awarded	Balance for Award
18	Kharagpur - Siliguri	231	-	Yet to be awarded	Balance for Award
19	Kota Indore (Garoth to Ujjain)	136	2,609	Yet to be awarded	Balance for award
20	Nagpur - Vijayawada	405 kms (TS / MH Border - Vijayawada)	2,790 (TS / MH Border - Mancherial) Mancherial - Vijayawada (Yet to be sanctioned)	2,497.4 (TS / MH Border - Mancherial) Mancherial - Vijayawada (Yet to be awarded)	Under Implementation

#	Project Details	Length (km)	Sanctioned Cost (INR Cr.)	Awarded Cost (INR Cr.)	Status
21	Construction of New 2-Lane Bridge with its approaches from km 0+000 to Km 4+385 across River Brahmaputra on NH-17 at Jogighopa	4	747	403	Under Implementation
22	Construction of 2-lane major bridge including approaches over Brahmaputra between Majuli on North Bank and Jorhat on South Bank from Km 11/690 to Km 19/715-Length of bridge 6812.5 meter (Package II) on NH-715 K in the state of Assam on EPC Mode Job no. 715/AS/2020-21/213	8	925	650	Under Implementation
23	Construction of a new 4 lane Major Bridge across River Kosi at Phulaut including Rehabilitation and upgradation of existing Birpur-Bihpur Section of NH-106 from km 106 to 136 to 2- Lane Paved shoulder in the state of Bihar	29	1,478	996	Under Implementation
24	4-Lane Bridge over river Brahmaputra between Dhubri (Assam) and Phulbari (Meghalaya) on NH-127B	19	4,997	3,166	Under Implementation
25	Development of Bilaspur - Unga section of NH-130A under the Raipur-Dhanbad Economic Corridor	70	1,753	1,527	Under Implementation
26	Four Lane green field road to Krishnapatnam Port from Naidupeta in the State of Andhra Pradesh	35	-	Yet to be awarded	Balance for award
27	Amas- Darbhanga Greenfield Connectivity Highway	231	-	Yet to be awarded	Balance for award
28	Construction of New Bridge on River Ganga parallel to Vikramasila at Bhagalpur, Bihar	6	1,110	838	Under Implementation
29	Bridge parallel to JP Setu on River Ganga	7	-	Yet to be awarded	Balance for Award

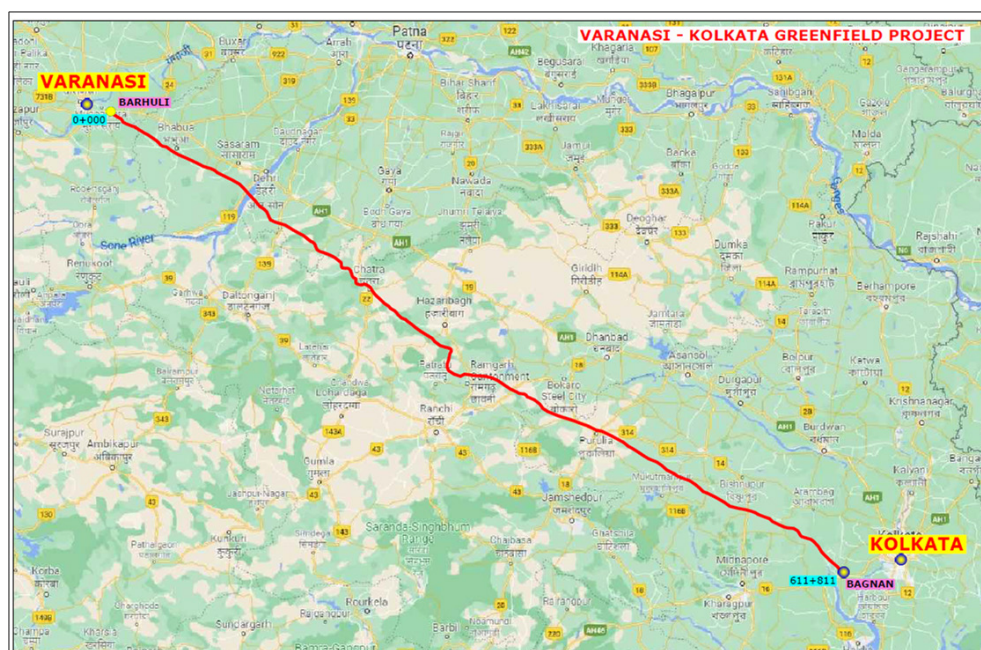
Delhi - Mumbai EXP

Project Details	
Length (km)	1,382
Lane Status	8 Lane
Total Project Cost (Rs. Cr.)	98,299
Major Project Features	Bridges (704), ROB (20), Interchanges (40+)
Completion	Mar'24
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Mewat, Navsari Fishing Seafood Clusters - Aliya Bet Island, Billimora, Navsari Pharma & Medical Clusters - Andheri, Ankleshwar, Boisar, Delhi, Mumbai, Nandesari, Panoli, Vadodara, Vapi Textile Clusters - Umargam SEZ - Ankhol, Bhondsi, Haveli, JNPT, Khardi Haveli, Panoli, Vagra, Waghodia
Connectivity with major economic centers	Delhi, Kota, Ratlam, Vadodara, Surat, Thane
Impact on Logistics Efficiency	
Logistics Efficiency	Reduction in travel time from 24 hr to 12 hr Increase in speed from 60 km/h to 120 km/hr
Connectivity for missing links	Provides connectivity to Kota, Indore, Jaipur, Bhopal, Ujjain and Surat along with cloverleaf interchange with KMP Expressway at Khalilpur village in Nuh district
Other Impact	
Connectivity with Social Points	Tourist Place: Jaipur, Ujjain, Mumbai, Ahmedabad, Ajmer, etc. Religious Places: Mehandipur Balaji (Dausa) and Udvada (Zoroastrian Atash Bahram fire temple)
Connectivity with key districts	Aspirational Districts - Mewat, Karauli, Khandwa, Narmada
Other Benefits	-



Varanasi-Kolkata Expressway

Project Details	
Length (km)	593 km
Lane Status	-
Total Project Cost (Rs. Cr.)	28,500 cr
Major Project Features	-
Completion	FY25
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Electronic Manufacturing Centers – Falta, Naihati Fishing Seafood Cluster – Ranchi, Howrah, Nadia Hoogly Pharma & Medical: Behala Textile Cluster – Howrah, Varanasi, Bhadohi, Hooghly, Kolkata, Nadia
Connectivity with major economic centers	Varanasi, Ranchi, and Howrah
Impact on Logistics Efficiency	
Logistics Efficiency	Reduction in travel time from 18 hr to 8 hr Increase in speed from 60 km/h to 100 km/hr
Connectivity for missing links	Will link economic corridor through Raipur & Dhanbad with economic Corridor through Varanasi & Jabalpur, thereby fully connecting the eastern part of the country
Other Impact	
Connectivity with Social Points	Religious Places: Varanasi Tourist Places: Varanasi, Hazaribagh, Purulia, Kolkata, Ranchi, Bokaro, Hazaribagh, Kharagpur
Connectivity with key districts	-



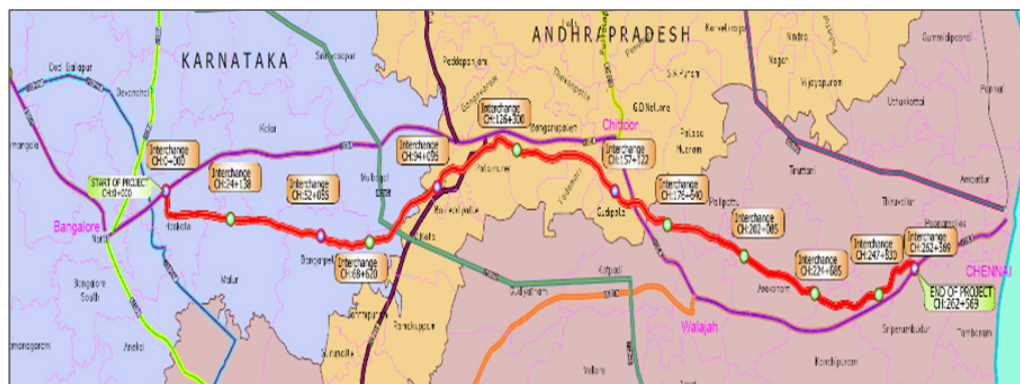
Ahmedabad - Dholera EXP

Project Details	
Length (km)	109
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	3,158
Major Project Features	MB(9), ROB(3)
Completion	01-Jan-24
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Electronic Manufacturing Clusters - Dholera Pharma & Medical Clusters - Ahmedabad Textile Clusters - Ahmedabad NICDC Nodes - Dholera SEZ - Ahmedabad, Chanchanvadi, Kalyangadh, Ognaj
Connectivity with major economic centers	Ahmedabad, Bhavnagar
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time - Average travel time between Ahmedabad to Adhelai Village of Bhavnagar District will decrease from 2.5 Hrs to 1 Hr Avg Travel Speed - Average travel speed from Ahmedabad to Adhelai Vilalge of Bhavnagar District will increase from 53 Km /hr to 120 Km/hr
Connectivity for missing links	Although the project is not a part of missing link, but it will provide shortest connectivity to Bhavnagar District from Ahmedabad
Other Impact	
Connectivity with Social Points	-
Connectivity with key districts	Ahmedabad , Bhavnagar
Other Benefits	-



Bengaluru - Chennai EXP

Project Details	
Length (km)	262
Lane Status	6/8 Lane
Total Project Cost (Rs. Cr.)	16,730
Major Project Features	MB(64), ROB(4), LVUP(38), VUP(68), VOP(19)
Completion	01-Jul-24
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Fishing Seafood Clusters - Chennai Defense Corridors - Chennai, Hosur Electronic Manufacturing Clusters - Sriperumbudur, Bangalore, Thirupurumbudur Pharma & Medical Clusters - Bengaluru, Chennai, Textile Clusters - Bengaluru, Chittoor manufacturing cluster NICDC Nodes - Bengaluru Industrial Corridor SEZ - Bengaluru, Bellandur, Bhoganahalli, Borgunte, Byatarayanapura, Chokkanahalli, Devarabeesanhalli, Dooda Basvanahalli, Hoodi, Kaggadaspura, Kodathi, Kundalahalli, Mahadevapura, Marathalli, Rachenahalli, Sadaramangala, Varthur Hobli
Connectivity with major economic centers	Chittoor, Vellore, Ranipet, Kanchipuram and Thirvallur, Bengaluru(Rural), Kolar, Chennai
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Time (7.8 hr -> 3.2 hr (Karnataka), 1hr -> 0.7 hr (AP), 5.5 hr -> 3.5 hr (Tamil Nadu)) Avg Speed (40 km/h -> 100 km/hr (Karnataka), 80 km/h -> 110 km/hr (AP), 45 km/h -> 90 km/hr (Tamil Nadu))
Connectivity for missing links	Connecting NH-207, STRR and NH-48 (Karnataka)
Other Impact	
Connectivity with Social Points	Tourist places- Bangalore Palace, Bannerghatta National Park, Marina Beach and Mamallapuram, Tirupati, Vellore, Kolar, Kanchipuram, Bangalore, Chittoor, Kanchipuram and Chennai Religious Places- ISKCON temple in Bangalore, Kanchi Kailasanathar temple in Kancheepuram, Srikalahsati, Golden Temple, Kanipakam, Kailashanath Temple, Kolar, KGF, Vellore
Connectivity with key districts	Other key districts- Chittoor, Sriperumbudur, Kanchipuram, Vellore, Ranipet. Bangalore(Rural), Kolar, and Thirvallur
Other Benefits	-



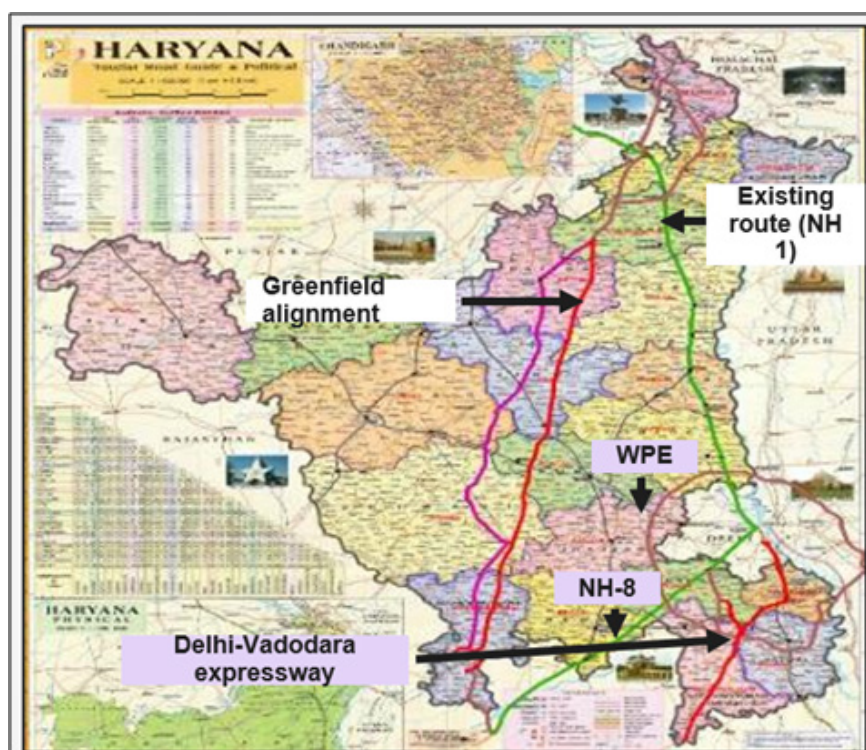
Kanpur - Lucknow EXP

Project Details	
Length (km)	63
Lane Status	6 Lane
Total Project Cost (Rs. Cr.)	4,270
Major Project Features	MB(4), ROB(1)
Completion	2.5 years after Appointed Date
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Barabanki, Kanpur, Lucknow Fishing Seafood Clusters - Barabanki Defense Corridors - Kanpur, Lucknow NICDC Nodes - Kanpur
Connectivity with major economic centers	Kanpur Nagar, Unnao, Lucknow
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time - Reduced from 1 hr 30 mins to 45 mins Avg Travel Speed - 100km/hr
Connectivity for missing links	Kanpur, Unnao, Lucknow
Other Impact	
Connectivity with Social Points	Kanpur, Unnao, Lucknow
Connectivity with key districts	Kanpur, Unnao, Lucknow
Other Benefits	-



Ambala - Kotputli

Project Details	
Length (km)	313
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	11,375
Major Project Features	MB(16), ROB(9), Flyover (9), Interchange (4)
Completion	31-Mar-22
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	NICDC Nodes - Nagalchaudhari SEZ - Ambala
Connectivity with major economic centers	Ambala, Panipat, Delhi
Impact on Logistics Efficiency	
Logistics Efficiency	Reduction in travel time from 6 hr to 3 hr Increase in speed from 60 km/h to 100 km/hr
Connectivity for missing links	The corridor acts as a bypass of the congested section of NH44 from Ambala and Delhi for traffic from HP Chandigarh, Ambala This expressway will also provide a link to Delhi-Vadodra- Mumbai Expressway between Manoharpur (NH8) - Dausa stretch
Other Impact	
Connectivity with Social Points	Tourist Places: Karnal, Kurukshetra, Bhiwani, Narnaul, etc.
Connectivity with key districts	-
Other Benefits	-



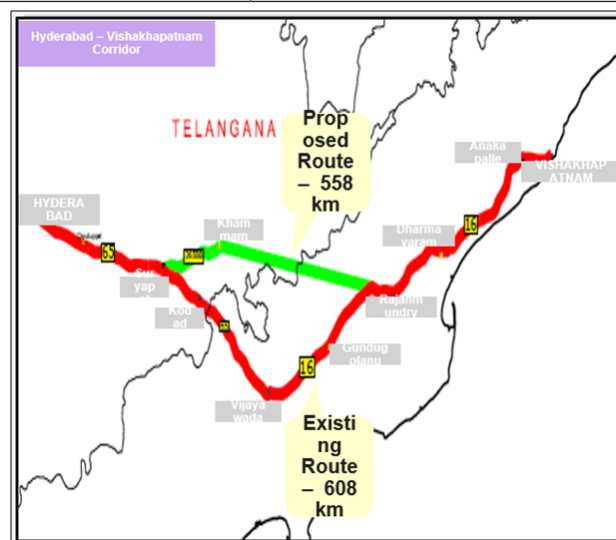
Raipur - Vishakhapatnam

Project Details	
Length (km)	465
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	15,932
Major Project Features	MB(62), ROB(5)
Completion	FY25
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Raipur Fishing Seafood Clusters - Raipur, Vishakhapatnam Electronic Manufacturing Clusters - Naya Raipur Pharma & Medical Clusters - Raipur, Vishakhapatnam Textile Clusters - Vishakhapatnam NICDC Nodes - Vishakhapatnam
Connectivity with major economic centers	Raipur, Vishakhapatnam
Impact on Logistics Efficiency	
Logistics Efficiency	Reduction in travel time from 10 hr to 5 hr Increase in speed from 40 km/h to 100 km/hr
Connectivity for missing links	Provide seamless connectivity from the mining & mineral clusters in Chattisgarh to Vishakhapatnam port and boost connectivity to Left Wing Extremism affected districts in the region
Other Impact	
Connectivity with Social Points	Tourist Places: Vishakhapatnam
Connectivity with key districts	Vishakhapatnam, Vizianagaram, Kanker, Kondagaon, Koraput and Dhamtari
Other Benefits	-



Hyderabad Vishakhapatnam

Project Details	
Length (km)	221 (Suryapet-Khammam-Devarapalle)
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	5,648
Major Project Features	MJB(12), MNB(70) & VUP(34), LVUP(19), SVUP(47) PUP(61), INTER CHANGE(8), ROB(1)
Completion	01-Aug-24
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Khammam Fishing Seafood Clusters - Vishakhapatnam Pharma & Medical Clusters - Vishakhapatnam Textile Clusters - Vishakhapatnam NICDC Nodes - Vishakhapatnam SEZ - Kakinada, Visakhapatnam
Connectivity with major economic centers	Suryapet, Khammam & Rajamahendravaram
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (6 hr -> 3 hr) Avg Travel Speed (50 km/h -> 80 km/hr)
Connectivity for missing links	Tourist Places: Polavaram Dam, Papikondalu, Rajamahendravaram Religious Places: Dwaraka Tirumala, Goshpada Kshetram - Kovvvuru, Kotilingala Kshetram - Rajamahendravaram
Other Impact	
Connectivity with Social Points	Tourist Places: Polavaram Dam, Papikondalu, Rajamahendravaram Religious Places: Dwaraka Tirumala, Goshpada Kshetram - Kovvvuru, Kotilingala Kshetram - Rajamahendravaram
Connectivity with key districts	Tribal District - Khammam Other key district - Suryapet, Khammam, West Godavari
Other Benefits	-



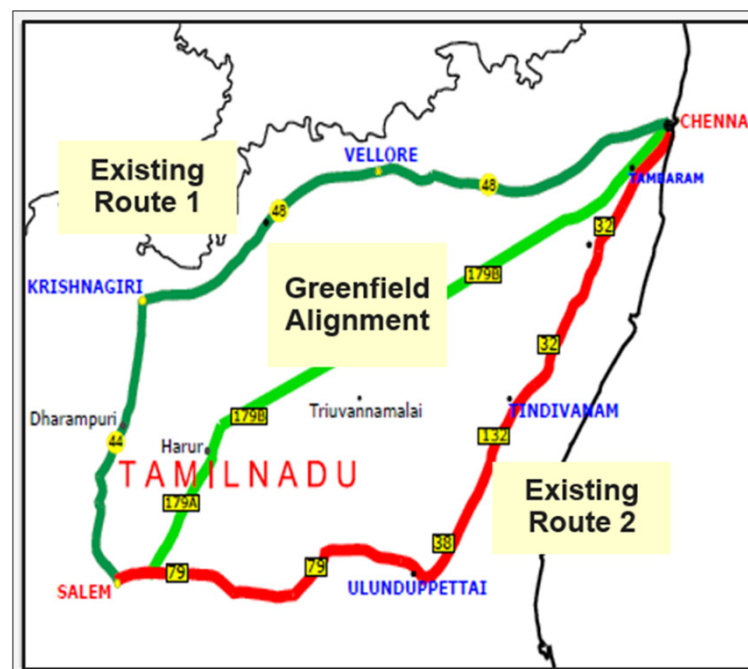
Urban Extension Road II

Project Details	
Length (km)	75.7
Lane Status	6 Lane
Total Project Cost (Rs. Cr.)	5,463
Major Project Features	MB(1), ROB(2)
Completion	01-Nov-23
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	India International Convention Centre(IICC), Dwarka Mega Food Parks - Sonipat Pharma & Medical Clusters - Delhi, Sonipat
Connectivity with major economic centers	IGI Airport India International Convention Centre(IICC), Dwarka through Dwarka Expressway DSIIDC Industrial Area in Bawana DSIIDC Multilevel Hub in Rani Khara Industrial Area in Mundka Zone N, L & P1 in Delhi Master Plan
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (1 hr 48 mins -> 40 mins) Avg Travel Speed (35 km/h -> 100 km/hr)
Connectivity for missing links	Additional link to KMPE & NH-10 (Bahadurgarh bypass) in order to decongest. Linking of NH-44, NH-10 & NH-48
Other Impact	
Connectivity with Social Points	-
Connectivity with key districts	North, North-West ,West & South-West Delhi, Jhajjar, Sonapat
Other Benefits	-



Chennai - Salem

Project Details	
Length (km)	277
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	9,681
Major Project Features	MB(14), ROB(3)
Completion	FY 25
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Salem Fishing Seafood Clusters - Chennai Defense Corridors - Chennai, Salem Pharma & Medical Clusters - Chennai Textile Clusters - Salem NICDC Nodes - Salem
Connectivity with major economic centers	Chennai, Vellore, Salem
Impact on Logistics Efficiency	
Logistics Efficiency	Reduction in travel time from 6 hr to 3 hr Increase in speed from 60 km/h to 100 km/hr
Connectivity for missing links	Provide Connectivity to spiritual city Thiruvannamalai and Chennai - Bengaluru Expressway Direct connectivity from Chennai to Kochi via Salem, Coimbatore
Other Impact	
Connectivity with Social Points	Tourist Places: Chennai, Thiruvannamalai, Salem, etc. Religious Places: Thiruvannamalai
Connectivity with key districts	-
Other Benefits	-



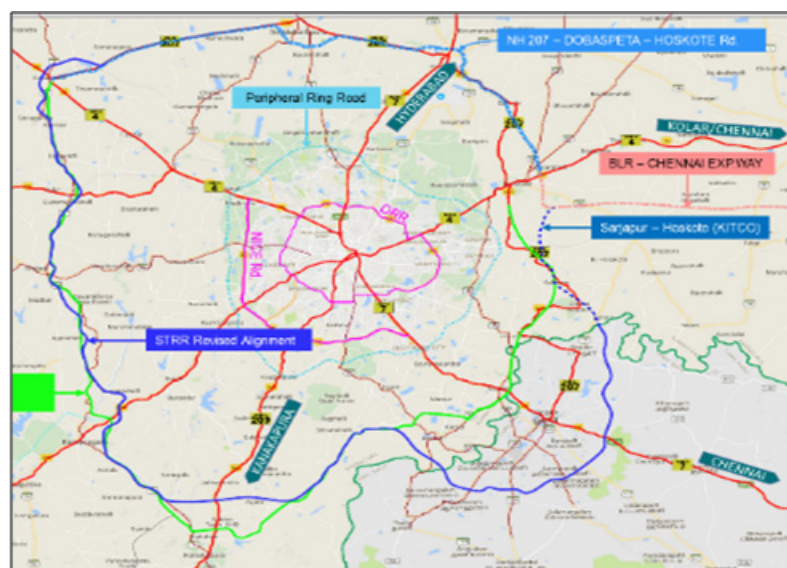
Chittoor Thatchur

Project Details	
Length (km)	116
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	4,754
Major Project Features	MB(4), ROB(2), Interchanges (8)
Completion	01-Mar-24
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Chittoor Fishing Seafood Clusters - Chennai Defense Corridors - Chennai Electronic Manufacturing Clusters - Chittoor, Tirupathi Pharma & Medical Clusters - Chennai NICDC Nodes - Chittoor
Connectivity with major economic centers	Chittoor, Tiruvallur
Impact on Logistics Efficiency	
Logistics Efficiency	Reduction in travel time from 4 hr to 2 hr Increase in speed from 40 km/h to 100 km/hr
Connectivity for missing links	Provide connectivity to Bangalore - Chennai Expressway with the Chennai Peripheral Ring Road at Kannigaipair, direct access of Ennore port to Bengaluru and further west
Other Impact	
Connectivity with Social Points	Tourist Places: Chennai Religious Places: Kanchipuram
Connectivity with key districts	-
Other Benefits	-



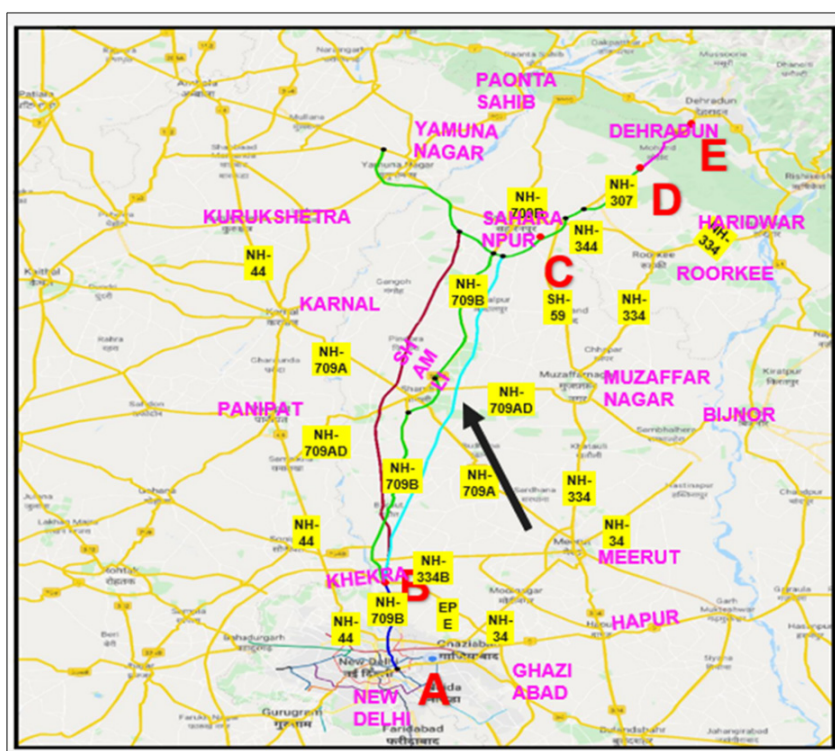
Bangalore Ring Road

Project Details	
Length (km)	281
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	11,230
Major Project Features	MB(3), ROB(7), Minor Bridges(34), RUB(1), Tunnel(1), By Passes (3), Culverts (249), VUP (29), LVUP(16), Overpass(4)
Completion	FY25
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Electronic Manufacturing Clusters and Automobile Hub industries - Bengaluru and Hosur Pharma & Medical Clusters - Bengaluru SEZ - Bengaluru and Hosur
Connectivity with major economic centers	Bangalore and Hosur
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (2hr -> 1.5hr) Avg Travel Speed (50km/h -> 100km/hr)
Connectivity for missing links	Bangalore-Chennai Expressway connects Bangalore Ring Road with Chennai Outer Ring Road.
Other Impact	
Connectivity with Social Points	Shivagange Temple, Savandurga hills, Ramdevarabetta vulture sanctuary, sangama river point and mekedatu, Chunchi falls, Kabbalamma temple, Shravangabelagola, Mysore, Channapatna, Bellur and Halebedu, Nandi Hills.
Connectivity with key districts	Bangalore(Rural), Ramanagara, Bangalore(Urban) and Krishnagiri
Other Benefits	Bangalore Ring Road will provide connectivity to the proposed Multimodal Logistic Park at Dobaspet from Bangalore Chennai Expressway



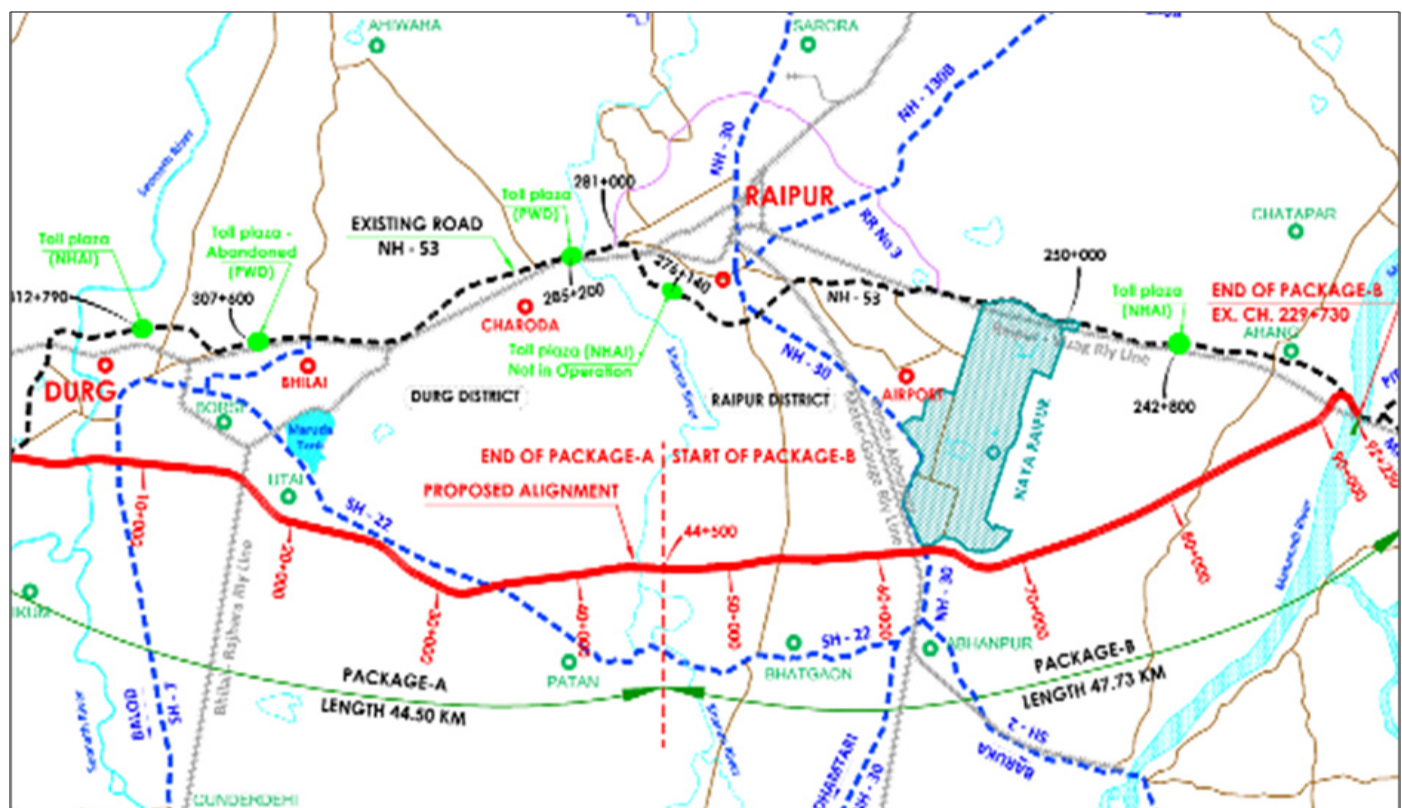
Delhi - Saharanpur - Dehradun

Project Details	
Length (km)	262
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	13,095
Major Project Features	MB(11), ROB(5), Interchanges (7)
Completion	July 2024
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Haridwar Pharma & Medical Clusters - Dehradun, Paonta Sahib, Haridwar, Delhi
Connectivity with major economic centers	Delhi, Saharanpur, Haridwar, Dehradun
Impact on Logistics Efficiency	
Logistics Efficiency	Reduction in travel time from 6 hr to 2.5 hr Increase in speed from 60 km/h to 100 km/hr
Connectivity for missing links	7 interchanges to connect to major cities like Haridwar, Shamli, Muzaffarnagar, Yamunanagar, Baghpat, Meerut & Baraut
Other Impact	
Connectivity with Social Points	Tourist Places: Rishikesh, Dehradun, Baghpat, Shamli, etc. Religious Places: Haridwar
Connectivity with key districts	-
Other Benefits	-



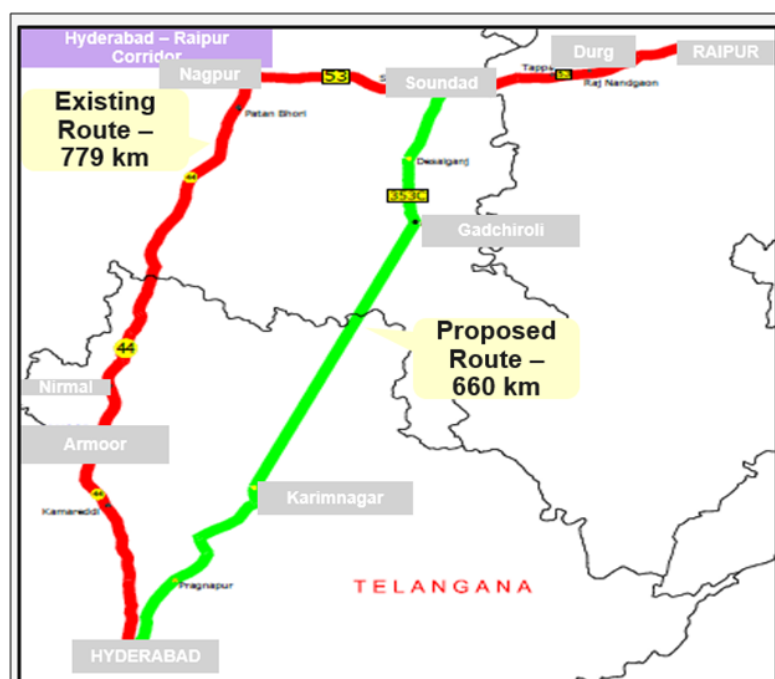
Durg Raipur Arang

Project Details	
Length (km)	92
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	2,689
Major Project Features	MB(6), RUB (4), Flyover (2)
Completion	FY25
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Raipur Fishing Seafood Clusters - Durg, Raipur Electronic Manufacturing Clusters - Naya Raipur Pharma & Medical Clusters - Raipur
Connectivity with major economic centers	Durg Raipur
Impact on Logistics Efficiency	
Logistics Efficiency	Reduction in travel time from 3 hr to 1.25 hr Increase in speed from 35 km/h to 100 km/hr
Connectivity for missing links	Boosts connectivity in the Mumbai Kolkata Corridor and decongests the existing route
Other Impact	
Connectivity with Social Points	-
Connectivity with key districts	-
Other Benefits	-



Hyderabad - Raipur

Project Details	
Length (km)	116 km (Karimnagar - TS / MH Border)
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	3,178 Cr.
Major Project Features	MB(08), ROB(01), VUP(61), Interchange(03)
Completion	01-Aug-25
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Raipur Fishing Seafood Clusters - Raipur Electronic Manufacturing Clusters - Hyderabad, Naya Raipur, Pharma & Medical Clusters - Hyderabad, Raipur Textile Clusters - Hyderabad
Connectivity with major economic centers	Hyderabad, Karimnagar, Mancherial, Peddapalli, Asifabad, Gadchiroli, Gondia, Raipur
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (7 hr -> 2.5 hr) Avg Travel Speed (40 km/h -> 80 km/hr)
Connectivity for missing links	-
Other Impact	
Connectivity with Social Points	Religious Places: Sri Satyanarayana Swamy Temple
Connectivity with key districts	Tribal District: Kumarambheem Asifabad District Other key district: Mancherial, Karimnagar District
Other Benefits	-



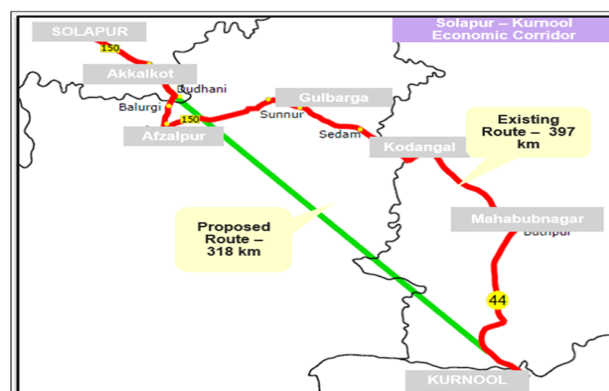
Surat - Nashik - Ahmednagar - Solapur

Project Details	
Length (km)	290.7 km (Surat-Nashik-Ahmednagar)
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	To be awarded (17,950 Cr).
Major Project Features	MB(16), ROB(3), Tunnel (2)
Completion	Sept-25
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Nashik, Surat, Ahmednagar, Beed, Osmanabad, Solapur. Fishing Seafood Clusters - Surat Pharma & Medical Clusters - Surat, Solapur Textile Clusters - Surat, Solapur
Connectivity with major economic centers	Surat, Navsari, Valsad, Nashik & Ahmednagar, Beed, Osmanabad, Solapur, Karnataka State
Impact on Logistics Efficiency	
Logistics Efficiency	From Surat to Solapur (10 hrs to 06 hrs), (3 hr -> 4 hr) 90 km reduction in distance from Surat to Solapur From Surat to Solapur (40 km/h -> 80 km/hr), Avg Travel Speed (100 km/h -> 120 km/hr), Average per hour speed will increase by almost 50%
Connectivity for missing links	This project is part of Surat to Chennai Greenfield Corridor It reduces the total travel distance from Surat to Solapur. Surat-Nashik-Sangamner-Rahuri-Ahmednagar-Beed-Osmanabad-Solapur Average travel time to cover 100 Km distance will reduce from 1.5 hr. to 1 hr
Other Impact	
Connectivity with Social Points	Ahmednagar Fort, Chandbibi Mahal, Saputara, Daman, Silvassa (Via - Vadodara-Mumbai Expressway) Shirdi - Shree Saibaba Temple, Ambhabai Devi Temple (Tuljabhavani Osmanabad), Siddharameshwar Temple (Solapur), Akkalkot Swami Samarth Temple (Akkalkot)
Connectivity with key districts	Beed, Ahmednagar, Osmanabad, Solapur, Surat, Navsari, Valsad, Nashik, Ahmednagar, Valsad & Navsari, DNH & Daman
Other Benefits	-



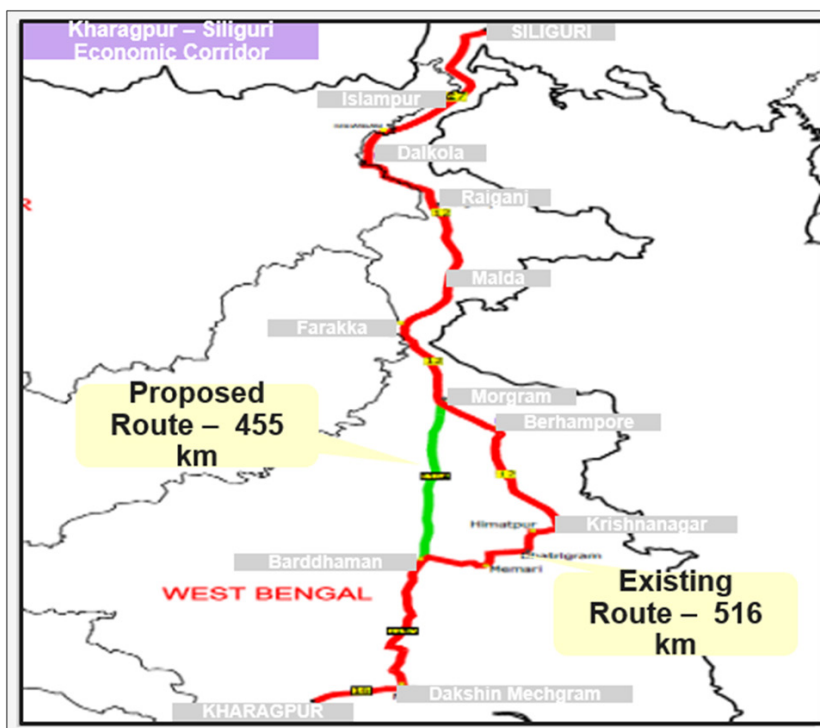
Solapur - Kurnool - Chennai

Project Details	
Length (km)	278
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	4,545
Major Project Features	MB(21), ROB(4)
Completion	FY25
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Chittoor, Kadapa Electronic Manufacturing Clusters - Chittoor, Tirupathi Textile Clusters - Nagari NICDC Nodes - Chittoor, Koparthy SEZ - Koduru, Kodur Pharmacy - Chikksugur
Connectivity with major economic centers	Solapur, Narayanpet, Kurnool, YSR, Chennai, Gulbarga-D Ganagapur-Afzalpur -Jevargi, Kadlur-Shakti Nagar-Chikkasugur-Yaramas Shahapur-Managanal-Wadadgera-Bendebembli -Gonal
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (28 hrs-> 22 hr) Avg Travel Speed (50 km/h -> 80 km/hr)
Connectivity for missing links	Gulbarga-D Gangapur-Chinamgera-Afzalpur-Jevargi Shahapur-Managanal-Wadadgera-Bendebembli - Gonal Kadlur-Shakti Nagar-Chikkasugur-Yaramas
Other Impact	
Connectivity with Social Points	Tourist Places: Gadwal fort, Belum Caves, Nagarjunasagar Tiger Reserve, Kurnool Fort, Deval Ganagapur (Afzalpur Taluk, Kalaburagi) Religious Places: Chenna Kesava Swamy Temple, Yaganti Temple, Sri Jogulamba Bala Brahmeswra swamy Temple, Lord Dattatreya Temple, Goddess Margamma Temple, Sannati Temple, Devasugur - Lord Sugureshwar Temple, Gadwal - Goddess Jogulamba Temple,
Connectivity with key districts	Tribal District: Kurnool (20.25% Tribal Population) Other key district: Gadwal, Kurnool, Yadgir, Kalaburagi
Other Benefits	-



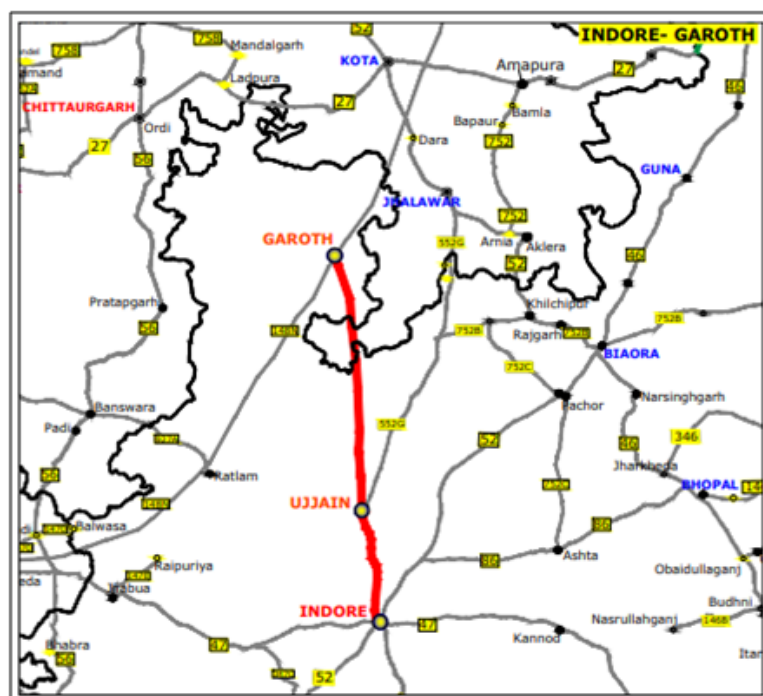
Kharagpur - Siliguri

Project Details	
Length (km)	231 km
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	13,116 cr (Tentative)
Major Project Features	Bridge>400m(5), ROB(4), Trumpet (2), Cloverleaf (1)
Completion	01-Jun-26
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Fishing Seafood Clusters - East Midnapur Textile Clusters - Burdwan
Connectivity with major economic centers	Assansol, Durgapur & Dankuni
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (8 hr -> 3 hr) Avg Travel Speed (increased from 30 km/ hr to 120 km/ hr)
Connectivity for missing links	The length of proposed greenfield alignment is 100 km shorter from existing Kharagpur - Moregram alignment through NH-6 & NH-34. The project road connects 4 nos important NHs i.e. NH-6, NH-2, NH-60 & NH-34.
Other Impact	
Connectivity with Social Points	Religious Places: Joyrambati
Connectivity with key districts	Tribal District: Bankura Other key districts: Assansol, Durgapur & Dankuni
Other Benefits	-



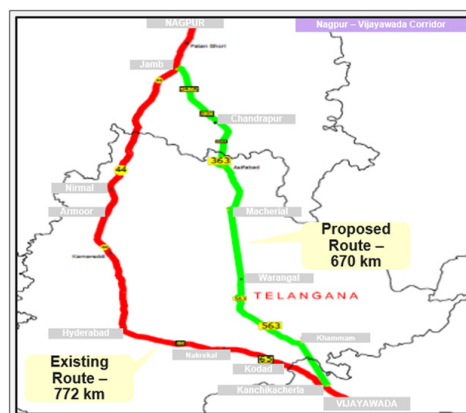
Kota Indore (Garoth to Ujjain)

Project Details	
Length (km)	136.1
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	2,609
Major Project Features	MB(06), ROB(03)
Completion	June-24
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks - Kota, Indore Fishing Seafood Clusters - Indore Pharma & Medical Clusters - Indore Textile Clusters - Ujjain, Indore SEZ - Indore
Connectivity with major economic centers	Mandsaur, Ujjain
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (05 hr -> 1.5 hr) Avg Travel Speed (60 km/h -> 100 km/hr)
Connectivity for missing links	It is a greenfield alignment connecting Ujjain, Agar-Malwa, Mandsaur & Jhalawar
Other Impact	
Connectivity with Social Points	Tourist Places- Indore Religious Places- Mahakal Temple Ujjain, Nalkheda Baglamuji Temple of Agar & Dharmrajeshwar Temple near Garoth
Connectivity with key districts	Ujjain, Agat-Malwa, Mandsaur (MP), Jhalawar (Raj.)
Other Benefits	-



Nagpur - Vijayawada

Project Details	
Length (km)	405 kms (TS / MH Border - Vijayawada)
Lane Status	4/6 Lane
Total Project Cost (Rs. Cr.)	2,790 (TS / MH Border - Mancherla) Mancherla - Vijayawada (Yet to be sanctioned)
Major Project Features	MB(13), ROB(7), VUP(43), LVUP(4), PUP(74), SVUP(29), Flyover(5), Interchanges(7)
Completion	01-Sep-25
Status	Under Implementation
Synergy with PM GatiShakti	Under Implementation
Connectivity with National Master Plan Nodes	Mega Food Parks - Nagpur, Khammam, Wardha Fishing Seafood Clusters - Vijayawada Pharma & Medical Clusters - Vijayawada Textile Clusters - Wardha
Connectivity with major economic centers	Nagpur, Chandrapur, Mancherla, Peddapalle, Asifabad, Bhupalpally, Warangal, Mahabubad, Khammam, Krishna
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (8 hr -> 5 hr) Avg Travel Speed (50 km/h -> 80 km/hr)
Connectivity for missing links	-
Other Impact	
Connectivity with Social Points	Tourist Places: Shivaram Wildlife Sanctuary, Kaleshwaram Lift Irrigation Project. Khammam Fort, Kinnerasani Wildlife Sanctuary, Warangal Fort, Kush Mahal, Ramappa Lake, Pakhal Lake, Kinnerasani Dam. Religious Places: Sri Satyanarayana Swamy Temple, Thousand Pillar Temple, Warangal Fort, Sri Venkateswara Swami Temple, swami Ayyappa Temple, Ramappa Temple, Bhadrakali Temple
Connectivity with key districts	Tribal District: Mahabubabad (37.8% Tribal Population) Other key district: Warangal, Mahabubabad, Khammam, Hanamkonda, Mancherla, Peddapalle, Jayashankar Bhupalpally, Warangal
Other Benefits	-



New 2-Lane Bridge with its approaches from km 0+000 to Km 4+385 across River Brahmaputra on NH-17 at Jogighopa

Project Details	
Length (km)	4.4
Lane Status	2 Lane
Total Project Cost (Rs. Cr.)	746.8
Major Project Features	MB(1- 2.345 km); Viaduct (2 - 0.05 km + 1.4 km on either side)
Completion	01-Dec-24
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Fishing Sea Food Cluster - Goalpara
Connectivity with major economic centers	Bridge alignment falls in Bongaigaon & Goalpara Districts of Assam
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (20 min -> 10 min) Avg Travel Speed (40 kmph -> 80 kmph)
Connectivity for missing links	-
Other Impact	
Connectivity with Social Points	Manas National Park, Guwahati Various places in Lower Assam
Connectivity with key districts	Aspirational District - Baksa, Dhubri Other Districts - Bongaigaon, Kamrup
Other Benefits	-



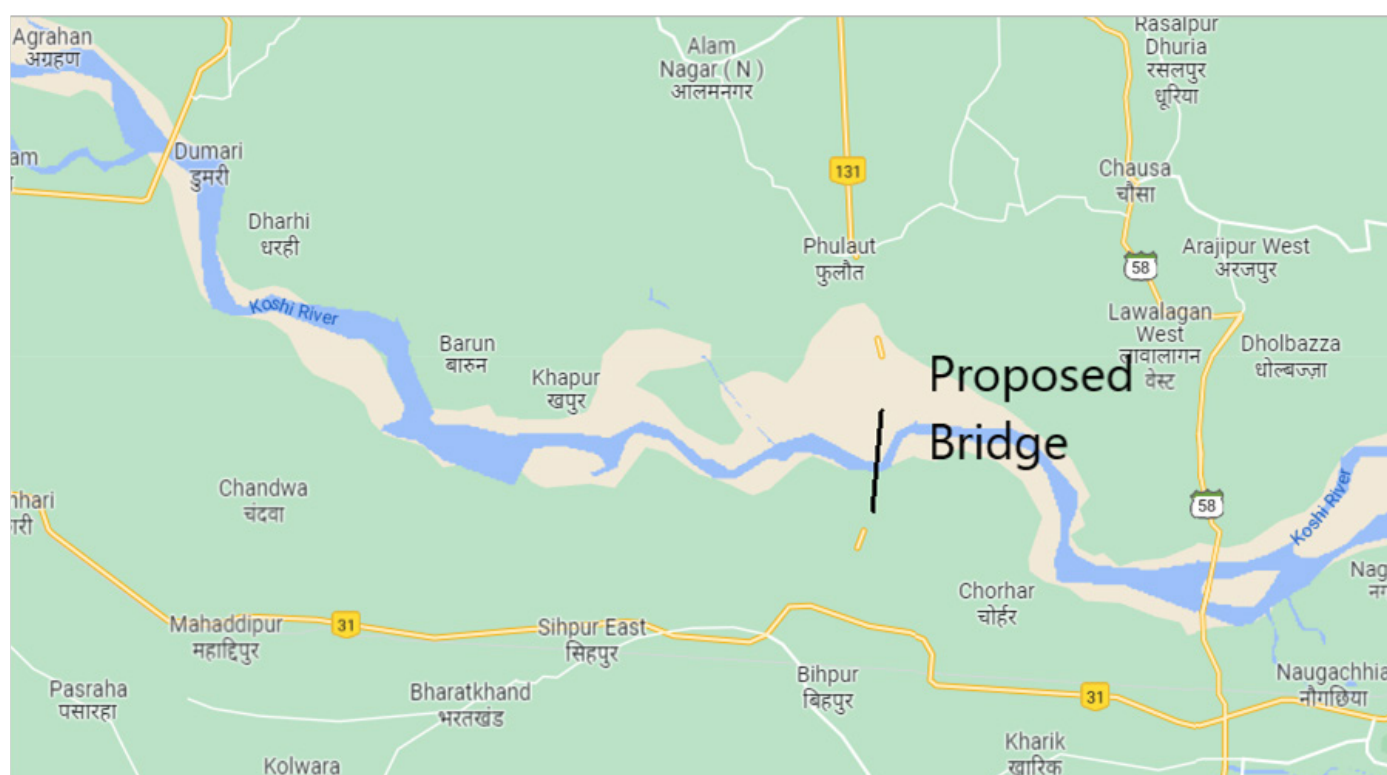
2-lane major bridge including approaches over Brahmaputra between Majuli on North Bank and Jorhat on South Bank

Project Details	
Length (km)	8
Lane Status	2 Lane
Total Project Cost (Rs. Cr.)	925
Major Project Features	Major Extradosed Bridge length = 6.813 km, approach road 1.212 Km
Completion	July 2025 (Target Date)
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	-
Connectivity with major economic centers	Jorhat , North Lakhimpur
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time {1 hr -> 0.13 hr(8 mins)} Avg Travel Speed (8 km/h -> 60 km/hr)
Connectivity for missing links	Only road connectivity to Largest River Island (Majuli) which was earlier connected through Ferry. Provides shorter connectivity between Jorhat & North Lakhimpur
Other Impact	
Connectivity with Social Points	Majuli Island being a UNESCO World Heritage site is a prime destination for cultural tourism. The place is also important for Vaishnavite culture having many sattras which is having major religious importance.
Connectivity with key districts	Tribal Districts - Majuli Other Districts - Jorhat
Other Benefits	-



Major Bridge across River Kosi at Phulaut

Project Details	
Length (km)	29
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	1,478
Major Project Features	Major Bridge: 1 (6.93 km)
Completion	June 2024 (Target Date)
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	-
Connectivity with major economic centers	-
Impact on Logistics Efficiency	
Logistics Efficiency	-
Connectivity for missing links	30 km long gap between Udakishanganj and Bihpur thereby providing connectivity between Nepal/ North Bihar/ East-West Corridor and South Bihar/ Jharkhand/ Golden Quadrilateral
Other Impact	
Connectivity with Social Points	-
Connectivity with key districts	Madhepura (Udakishanganj), Bhagalpur (Bihpur)
Other Benefits	-



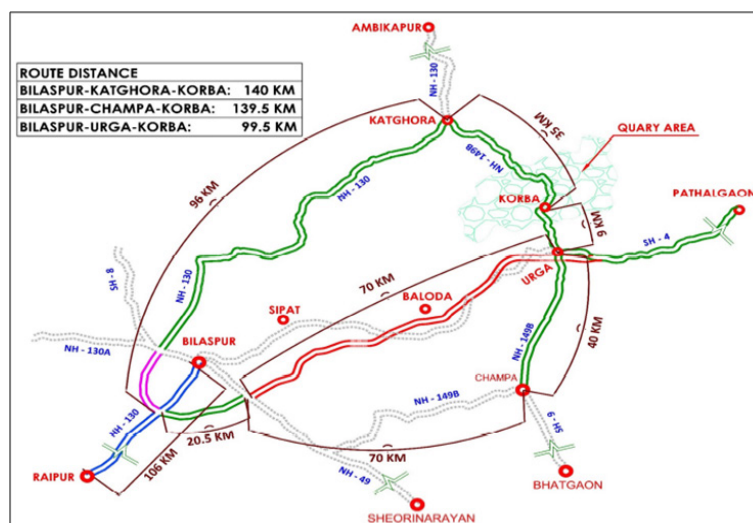
Bridge over river Brahmaputra between Dhubri (Assam) and Phulbari (Meghalaya) on NH-127B

Project Details	
Length (km)	19.3
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	4,997
Major Project Features	MB(1- 12.7 km); Viaduct(2- 3.5 km & 2.2 km on either side)
Completion	01-Sep-28
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	-
Connectivity with major economic centers	Bridge alignment falls in Dhubri, South Salmara Mankachar Districts of Assam & West Garo Hills District of Meghalaya
Impact on Logistics Efficiency	
Logistics Efficiency	Distance between Dhubri to Phulbari (205 km -> 20km) Avg. Travel Time (7 hr -> 0.5 hr) Avg. Travel Speed (40 kmph -> 80 kmph)
Connectivity for missing links	Provides shortest link between western regions of Meghalaya & rest of the country
Other Impact	
Connectivity with Social Points	West garo Hills, Meghalaya Various places in Lower Assam
Connectivity with key districts	Baksa Dhubri, South Salmara Mankachar, Bongaigaon
Other Benefits	Eases mobilization of strategic forces along the international borders



Bilaspur – Urga section of NH-130A under the Raipur–Dhanbad Economic Corridor

Project Details	
Length (km)	70.2
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	1745.5
Major Project Features	MB(6), ROB(2)
Completion	July 2024 (Target Date)
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Mega Food Parks – Bemtara Fishing Seafood Cluster – Bilaspur
Connectivity with major economic centers	Raipur (State Capital) Urga (Major Mining area)
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (02 Hrs to 45 minutes) Avg Travel Speed (40 km/h to 100 km/hr)
Connectivity for missing links	-
Other Impact	
Connectivity with Social Points	-
Connectivity with key districts	Bilaspur, Janjgir-Champa & Korba Mention Tribal District- Korba Mention other key district-Bilaspur & Janjgir Champa
Other Benefits	The major traffic in the project influence area is bound to Korba. Currently, due to bad condition and narrow width, the traffic between Bilaspur and Urga/Korba are using NH-130 (Bilaspur-Katghora road) and NH-149B (Bilaspur-Champa Road) parallel to the said project. Since the project road is shortest route between Bilaspur and Urga/Korba, the traffic on other parallel roads will be diverted onto project road and the distance between Bilaspur to Korba will be reduced by ~40Km.



Four Lane green field road to Krishnapatnam Port from Naidupeta in the State of Andhra Pradesh

Project Details	
Length (km)	34.9
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	1,169.4 Cr (Likely to be changed as proposal is being made for fully access-controlled)
Major Project Features	MB - 1 No. on Swarnamukhi River
Completion	01-Oct-24
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	NICDIC Node - Krishnapatnam Fishing Seafood - Nellore SEZ - Nellore, Naidupeta Textile Cluster - Nellore VCIC, Menakur SEZ
Connectivity with major economic centers	KRIS City
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time(45 min to 30 min) Avg Travel Speed(50 kmph to 100 Kmph)
Connectivity for missing links	-
Other Impact	
Connectivity with Social Points	Nellore, Tirupati, Chennai, Naidupeta, Gudur
Connectivity with key districts	Nellore
Other Benefits	The proposed project is aimed for GatiShakti-Industrial corridor



Amas- Darbhanga Greenfield Connectivity Highway

Project Details	
Length (km)	231.134
Lane Status	-
Total Project Cost (Rs. Cr.)	6,929 (including LA)
Major Project Features	MJB (17), MNB (77) ROB(06), Flyover (21), VUP (23) , SVUP(41), LVUP(74)
Completion	01-Oct-24
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	Connecting Golden Quadrilateral to East -West Corridor via Patna Ring Road in Bihar State
Connectivity with major economic centers	It is connecting the Capital City of Bihar, Patna to Gaya, Samastipur & Darbhanga.
Impact on Logistics Efficiency	
Logistics Efficiency	Avg Travel Time (6.5 hr -> 3.00 hr) Avg Travel Speed (40 km/h -> 80 km/hr)
Connectivity for missing links	Connecting Gaya International Airport to Jehanabad & Nalanda districts in South Bihar and Darbhanga Airport to Buddhist Circuit in Vaishali & Samastipur districts.
Other Impact	
Connectivity with Social Points	Tourist places: Gaya, Nalanda, Patna, Vaishali
Connectivity with key districts	Gaya, Jehanabad, Nalanda, Patna, Vaishali, Samastipur , Darbhanga
Other Benefits	Providing smooth connectivity of South Bihar & Jharkhand to North Bihar and North-Eastern States via Ring Road & 6-lane bridge on River Ganga. This will provide major inter-corridor economic connectivity.



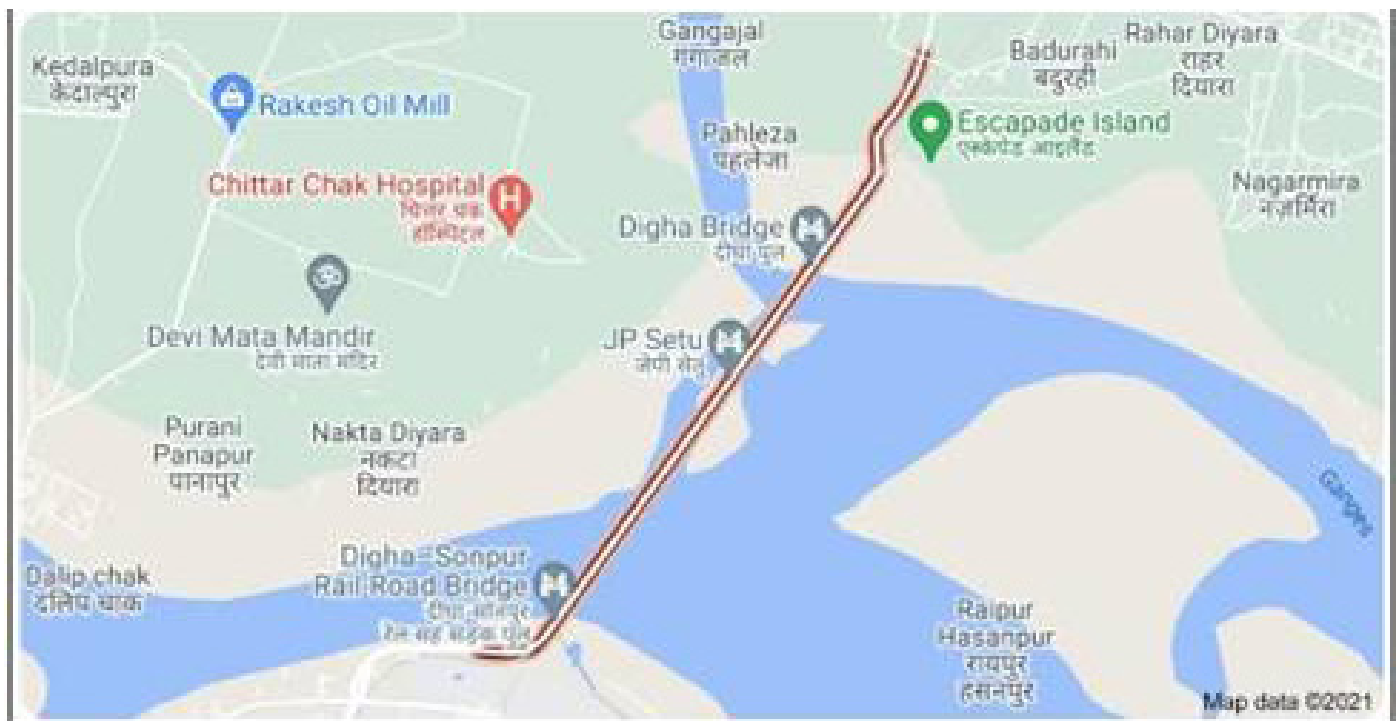
Construction of New Bridge on River Ganga parallel to vikramsila at Bhagalpur, Bihar

Project Details	
Length (km)	6.2
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	1,110
Major Project Features	Major Bridge: 1 (4.6 km)
Completion	2026 (Target Date)
Status	Under Implementation
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	-
Connectivity with major economic centers	-
Impact on Logistics Efficiency	
Logistics Efficiency	-
Connectivity for missing links	-
Other Impact	
Connectivity with Social Points	-
Connectivity with key districts	-
Other Benefits	Connects two major Nation Highways NH-80 towards South Bank and NH-31 towards North Bank Eases traffic movement and eliminates congestion during peak hours



Bridge parallel to JP Setu on River Ganga

Project Details	
Length (km)	6.6
Lane Status	4 Lane
Total Project Cost (Rs. Cr.)	NA
Major Project Features	Major Bridge: 1 (4.6 km)
Completion	April 2026 (Target Date)
Status	Balance for award
Synergy with PM GatiShakti	
Connectivity with National Master Plan Nodes	-
Connectivity with major economic centers	-
Impact on Logistics Efficiency	
Logistics Efficiency	-
Connectivity for missing links	-
Other Impact	
Connectivity with Social Points	Saran
Connectivity with key districts	-
Other Benefits	Connects North & South Bihar through newly declared NH-139W Connects two major National Highways NH-31, NH-139 & NH-922 Eases movement on traffic on AIIMS-Digha Elevated corridor, Gangapath Corridor, R-Block Digha Road







**Ministry of Road
Transport & Highways**
Government of India



www.morth.nic.in



[/MORTHIndia](https://twitter.com/MORTHIndia)



[/MoRTHIndia](https://facebook.com/MoRTHIndia)