



National Highways Authority of India



BHARATMALA
ROAD TO PROSPERITY



SAGARMALA
PORT-LED PROSPERITY



PRAGATI
KI NAYI GATI



ANDAMAN & NICOBAR
BRIDGING DISTANCES



ANDAMAN & NICOBAR ISLANDS

The archipelago of Andaman & Nicobar, India's blue jewel, is located in the Bay of Bengal. The Union Territory is popular for its coral reefs, beaches and marine life. The length of National Highways has increased from 330.70 km in 2014 to 422 km in 2018. 6 new NH have been added. Rs. 10,000 Cr investments have been planned towards development of roads, waterways and ports. Projects spanning 87 km length worth Rs. 860 Cr have been awarded in 2017-18. Work has been awarded on 26 km length worth Rs. 170 Cr in Beodnabad- Ferrargunj section and on 56 km length worth Rs. 410 Cr between Austin Creek and Kalra on NH 4.

The Humphrey Strait Creek bridge worth Rs.278 Cr and the Middle Strait Creek bridge worth Rs. 263 Cr are already awarded. Due to heavy rainfall, 139 km of NH 4 was in a dilapidated state. Upgradation work has been awarded in 3 packages, worth a total of Rs. 1,112 Cr. Projects worth Rs.417 Cr spanning 55 km will be awarded in a month. DPR is being prepared for a bridge worth Rs. 2,000 Cr to connect Chatham island and Bambooflat island. A total of Rs. 2,000 Cr are being invested to build waterways, acquire new ships, and give a massive boost to water transportation by the Ministry of Waterways and Shipping.

Soon Andaman & Nicobar islands will be accessible on all weather roads, bridges and waterways. The projects will catalyse the growth of industry, tourism and trade in the region, adding socio-economic benefits for the people.



“When a network of good roads is created, the economy of the country also picks up pace. Roads are veins and arteries of the nation, which help to transform the pace of development and ensure that prosperity reaches the farthest corners of our nation.”

NARENDRA MODI

Prime Minister



“In the past four years, we have expanded the length of Indian National Highways network to 1,26,350 km. The highway sector in the country has seen a 20% growth between 2014 and 2018. Tourist destinations have come closer. Border, tribal and backward areas are being connected seamlessly. Multimodal integration through road, rail and port connectivity is creating socio economic growth and new opportunities for the people.

In the coming years, we have planned projects with investments worth over Rs 6 lakh crore, to further expand the world's second largest road network.”

NITIN GADKARI

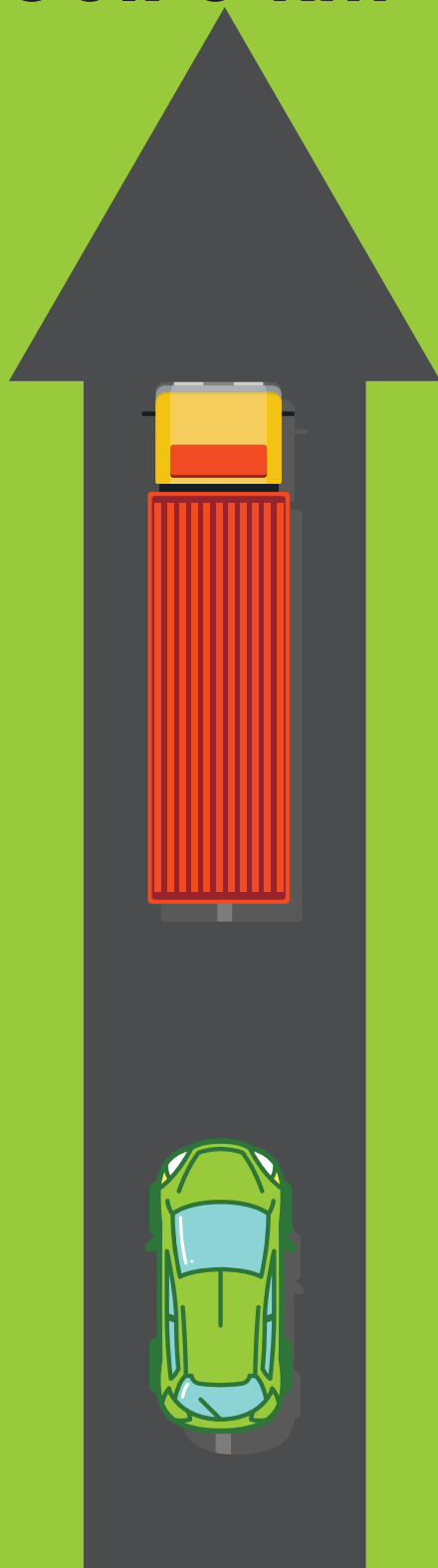
Union Minister, Ministry of Road Transport & Highways, Shipping and Water Resources, River Development & Ganga Rejuvenation



Fast tracking National Highway development in Andaman & Nicobar

NH LENGTH 2014-2018

90.70 km



Construction of roads in Andaman & Nicobar

20 km
in 4 Years

2014 - 2018



Constructed
length

Constructed
length



Total Road Work Awarded in Andaman & Nicobar

2014 - 2018

237.32 km

Total Cost
Rs. 1,273.45 Cr



Landmark Projects In Andaman & Nicobar



Middle Strait Creek Bridge

National Highways & Infrastructure Development Corporation Ltd (NHIDCL) is undertaking the construction of a 1.9 km bridge at Middle Strait Creek in the Andaman and Nicobar Islands. The project includes the construction of access roads, service roads with related facilities and the installation of signaling and safety systems.

Humphrey Strait Creek Bridge

The construction of a 1.45 km bridge at Humphrey Strait Creek in Andaman and Nicobar Islands is being undertaken by NHIDCL.

The project includes

- Construction of access roads
- Construction of service roads
- Construction of road separators
- Construction of connecting roads
- Installation of signaling and safety systems
- Construction of related facilities



Middle Strait and Humphrey Strait Creek Bridges

Middle Strait and Humphrey Strait are major obstacles on the Andaman Trunk Road, with vehicles having to be transported in small ferries to reach North and Middle Andaman, taking nearly three hours longer. The bridges will create socio-economic growth and will ensure seamless access for the armed forces during an emergency.

At a Glance

1.45 km total length

Rs. 202.909 Cr
total cost

Benefits

- Will link Gandhi Ghat Jetty and Uttara Jetty
- Will reduce travelling time by providing an alternative to ferries
- Will bring seamless connectivity between North, Middle and South Andaman Islands
- Will improve inter-UT and international connectivity
- Will create socio economic growth
- Will boost trade and tourism in the Islands

Beodnabad-Ferrargunj section

The Beodnabad- Ferrargunj section of NH223 is being upgraded to 2 lane with paved shoulder on EPC basis. The project will improve access and ensure faster traffic movement in Andaman and Nicobar.



Ongoing Sagarmala Projects in Andaman & Nicobar Islands

Sea Route to Baratang

The alternate sea route to Baratang is being developed in Andaman & Nicobar Islands. The total cost of the project is Rs. 45.16 Cr. The alternate sea route will ensure improved connectivity to the mainland. It will help in promoting tourism without disturbing the tribal land, and enable fishermen to engage in backwater fishing.

Extension of Wharf at HopeTown, Port Blair

The wharf at Hope Town in Port Blair is being extended with investments worth Rs. 17.49 Cr. The wharf is used primarily by the Indian Oil Corporation for discharging LPG and other petroleum products. The extension of the jetty from 140m to 200m will allow berthing of bigger vessels of 160m length. This will ensure easy and abundant availability of LPG cylinders in the area and reduce logistics costs.



New Announced NH in Andaman & Nicobar Islands

Investments worth a total of Rs. 720 Cr will be made to build 91 km of new NH. Being built by NHIDCL, these new roads will promote tourism, create new avenues for trade and socio-economic growth for the people.

Name	Length (in km)
Diglipur to Hathi Level	24.7
Kalra Junction to Ramnagar	20
Govindnagar to Kala Patthar	9
Havelock Jetty to Radhanagar Beach	11
Neil Jetty to Sitapur	4
Hutbay Jetty RK Pur, BK Pur	22



Development of Tribal Areas

MoRTH will invest Rs. 50 Cr to upgrade 65 km stretch of NH 4 which passes through tribal areas.

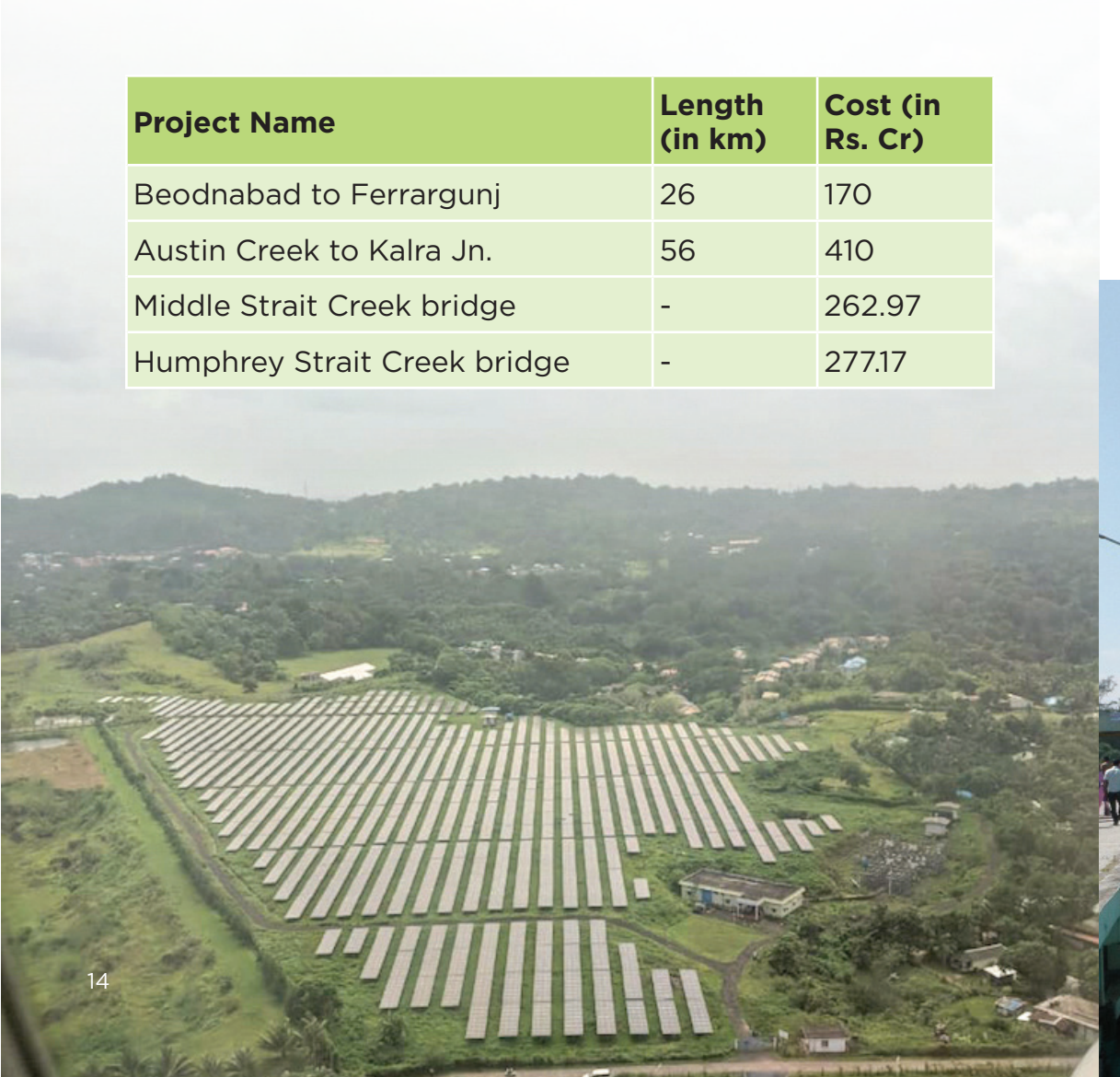
CRF Projects

Under CRF, 20 projects worth Rs. 86 Cr have been approved in just 2 years

Foundation Stone Laying of new projects

The foundation stone has been laid for 4 projects worth Rs. 1,121 Cr

Project Name	Length (in km)	Cost (in Rs. Cr)
Beodnabad to Ferrargunj	26	170
Austin Creek to Kalra Jn.	56	410
Middle Strait Creek bridge	-	262.97
Humphrey Strait Creek bridge	-	277.17



Upgradation of Jetty in Neil Island

Construction of additional approach jetty, extension of berthing jetty and dredging in front of jetty is being done in Neil Island with total investments worth Rs. 38.19 Cr. This will help in anchoring more than one ship, which was not possible earlier. Dredging upto 5m will help in berthing higher draft vessels of up to 200 GWT MSV, especially cargo ships. This will ensure abundant supply of vegetables and other utilities to and from the island. The project will promote tourism, improve the socio economic conditions of the local populace and lead to optimal utilization of available resources.

Extension of Existing Dry Dock in Port Blair

In order to accelerate the growth of the ship building and ship repair industry and facilitate the Make in India initiative of Govt. of India, ship repairing facilities are being extended in the Andaman & Nicobar islands. Existing facilities in Port Blair are being augmented by extending the present length of size 90mx20m of the dry dock II with investments worth Rs. 96.24 Cr.



New Tug Boats in Andaman & Nicobar Islands

The Ministry of Shipping has sanctioned Rs. 63.55 Cr for the purchase of two new tugboats for safe and efficient berthing. These boats will help in reducing turnaround time. The deposit work worth Rs. 15,000 Cr is being undertaken by the Ministry of Defence. This will enhance cargo movement and ensure better utilization of available resources.



DPR work under Sagarmala

Under Sagarmala, DPR for the following projects have been submitted to the Andaman & Nicobar administration

- Maintenance of dredging of navigational area in Mus Harbour in Car Nicobar worth Rs. 1,322 lakh
- Development of Sea Port Terminal at Phoenix Bay Harbour worth Rs. 2,686 lakh
- Development of Sea Port Terminal at Havelock worth Rs. 1,474 lakh
- Separate approach way for cargo movement in Havelock jetty worth Rs. 617.9 lakh

Catalysing 'Make in India'

New vessels are being constructed across various categories for performing operations in Mainland-Island, inter-Island and harbour sections at a cost of about Rs. 1,350 Cr.



New Ships for Andaman & Nicobar Islands

A total of 14 new ships are being acquired depending on the requirement of the people since 2014, to make the islands accessible. These include 2 ships of 2100 pax, 2 ships of 500 pax, 4 ships of 150 pax and 6 ships of 250 pax. The ships have started coming in since December 2017, and all 14 will be made available by 2020.

It has been proposed to acquire a total of 25 ships through Andaman & Nicobar administration.

MB Bharat, a 386 pax 100 ton cargo vessel has been acquired from Lakshadweep administration on book transfer basis.

MB Coral Queen, a chartered vessel has been deployed since 2017 to serve for a period of 5 years.

Ships are also serving in island clusters south of Port Blair.

New Tug Boats For Efficient Berthing

The Ministry of Shipping has sanctioned Rs. 63.55 Cr for the purchase of two new tugboats for safe and efficient berthing. These boats will help in reducing turnaround time.

The deposit work worth Rs. 15,000 Cr is being undertaken by the Ministry of Defence. This will enhance cargo movement and ensure better utilization of available resources.



Water Resource Development

The Ministry of Water Resources has taken up the role of technical advisor to Andaman and Nicobar PWD, to improve accessibility to clean water, reduce costs and enhance efficiency of water resource development projects.

Khudiram Pur Water Resource Development Project, Diglipur

A 14 m high, 130 m long dam will be built over River Kalpa to provide adequate clean drinking water to the local people.

Kamsarat Water Resource Development Project

The Kamsarat Water Resource Development Project will address water issues in and around Kamsarat Nalla. The project involves the construction of piano type concrete spillway and strengthening of temporary bunds to 19 m height and 146 m length. Water will be purified and supplied to villages. Over 10 villages will benefit from this project.

Reviving BK Pur and RK Pur Dams

The BK Pur and RK Pur dams were damaged by earthquakes in Little Andaman and Hut bay. CWC is providing technical assistance to Andaman & Nicobar PWD for rehabilitation.



Ongoing projects of NHIDCL in Andaman & Nicobar

Sl. No.	Lok sabha constituency	Project Name	NH No (New)	Sanctioned Cost/TPC (Rs. Cr)	Total Length in km	Date of Start	Estimated date of completion
1	Andaman & Nicobar	Construction of Major Bridge over Middle Strait Creek between Km. 106.590 to Km. 107.762 of NH-223 and over Humphrey Strait Creek between Km.129.420 to Km. 130.600 of NH-223 (New No. NH-4) in the Union Territory of Andaman & Nicobar Islands /NHIDCL/N	4	263	1.9	9-1-18	8
2	Andaman & Nicobar	Construction of Major Bridge over Humphrey Strait Creek between Km. 129.420 to Km. 130.600 of NH-223 (New No. NH-4) connecting Middle & North Andaman Islands in the Union Territory of Andaman & Nicobar Islands. /NHIDCL/NH-223/Humphrey Strait Bridge/2	4	217	1.45	4-26-17	4-25-20



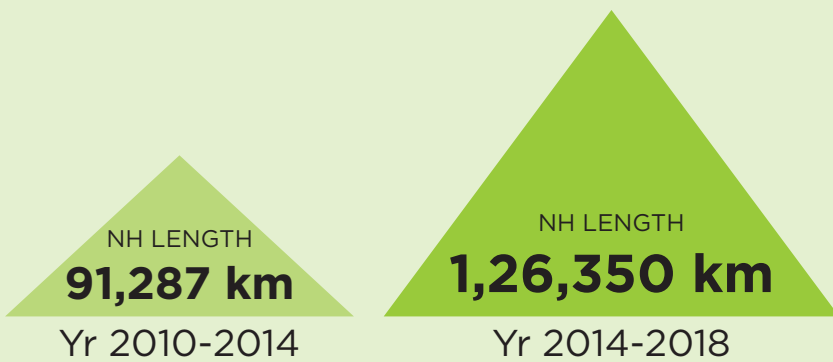
Key Indian National Highways



National Highways - India Story

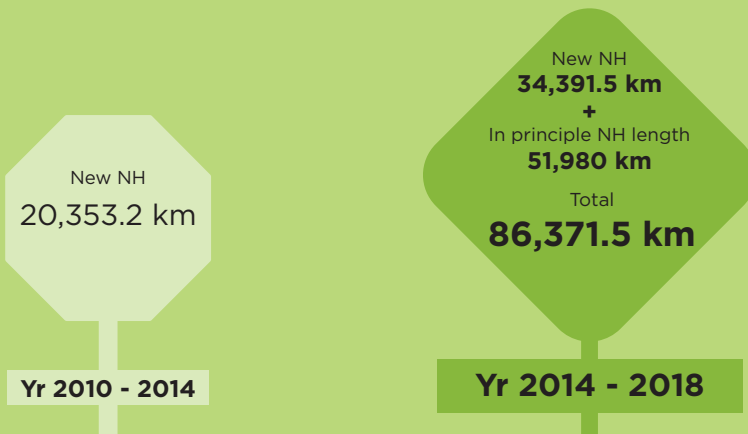
Fast tracking National Highway Development

Building National Highways A new Pace of Progress



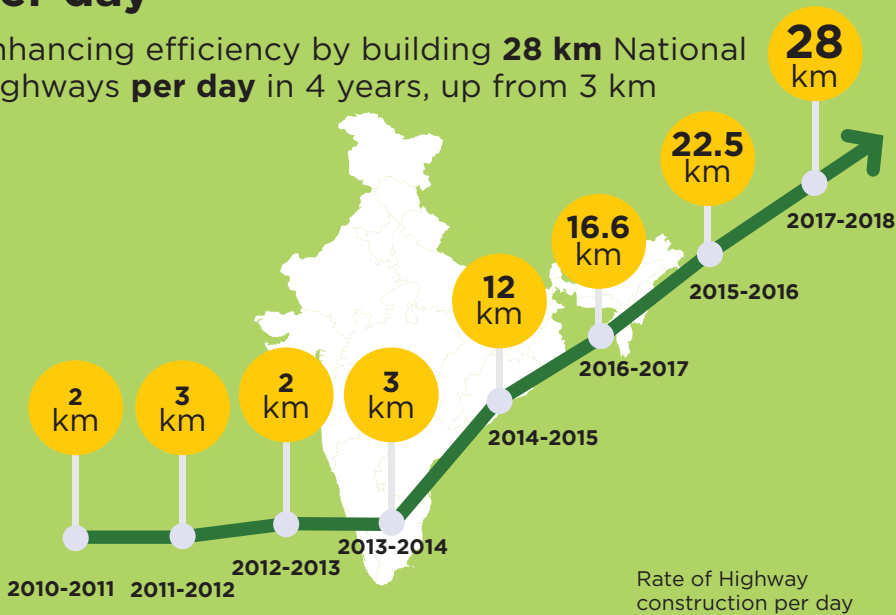
New National Highways being built

86,371.5 km of New and In-Principle National Highways added in 4 years



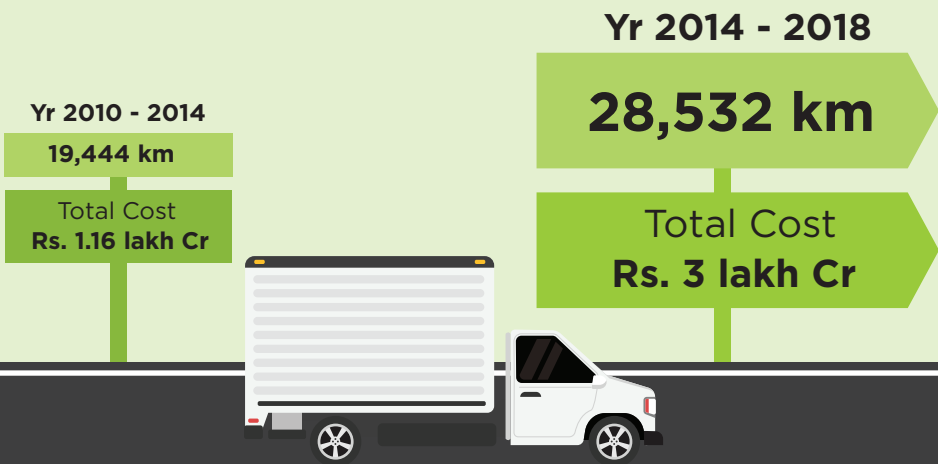
Adding more National Highways per day

Enhancing efficiency by building **28 km** National Highways **per day** in 4 years, up from 3 km



Construction of roads

Rs. 3 lakh Cr worth investments in the road sector in 4 years
Significant growth of 158%



Road Projects Awarded

100% increase in projects awarded with investments of over **Rs. 4.68 lakh Cr**

Yr 2010-2014

Road Length

25,609 km

Total Cost

Rs. 1.62 lakh Cr

Yr 2014-2018

Road Length

51,075.32 km

Total Cost

Rs. 4.68 lakh Cr

Accelerated NH development under Central Road Fund (CRF)

Significant increase of **207.6%** in cost of CRF works sanctioned for the upgradation & improvement of roads /bridges in the Nation

Yr 2010 - 2014

935
Projects

Total Cost
Rs. 8,613.51 Cr

2,876
Projects

Total Cost
Rs. 48,186.57 Cr

Yr 2014 - 2018



Transforming India's Transport Sector

Key initiatives in 2014 -2018

Over the past four years, various smart initiatives on Indian National Highways have resulted in transparent processes, last mile connectivity, safer roads, upskilling, new opportunities and employment for the people.



Motor Vehicle (Amendment) Bill 2017: To bring transparency, reduce corruption



E Toll - FASTag to enhance efficiency, and reduce long queues at Toll plazas



E-Rickshaws for last mile connectivity



Exemption from the requirement of commercial licence for LMV and LCV drivers



Driving training schools in every district for skill development



0.2%-15% decrease in road accidents and fatalities till 2017



Road Safety Annual Plan



Greater Compensation for accident victims of upto Rs. 5 lakhs



Partnering with NGOs to ensure road safety



Green buses and electric vehicles have been introduced. Emission standards have been upgraded for vehicles. BS VI norms along with bio fuel B-100, flex-fuel E-85 or E-100 & ethanol ED-95, methanol M-15 or M-100 and methanol MD-95 have been standardised

15% methanol blending can result in the replacement of around 31.9 million tons of crude oil. With crude oil prices at USD 54 per barrel, the use of clean energy biofuels will reduce fuel costs resulting in significant savings. Compared to neat gasoline, M-15 reduces CO and HC emission by 40%. Biofuels will help in reducing vehicle pollution levels in India



Anti Lock Braking System
ensuring vehicle and
passenger safety



Model Automated
Centres for checking
fitness of vehicles



Vehicle Fleet modernization
programme



Simplified forms for
obtaining driving licences



Increasing Speed Limits from
100 km/h to 120 km/h, at par
with the global practices



Taxi Policy Guidelines to
ensure safe, secure and
affordable journeys, while
reducing congestion
as well as pollution in cities



Indian Bridge Management System (IBMS), the world's largest inventory of bridges, has been created for proper maintenance of these structures. Till date 1,72,519 bridges of all ages and structures have been inventoried across India, and assigned GPS based Location Numbers, Classification Numbers based on features, Structural Rating & Socio-Economic Rating numbers



789 black spots have been identified and assigned unique ID numbers. Guidelines have been prepared and notified for investigation and rectification of these road accident-prone black spots on National Highways. 265 spots have already been rectified

Rectification measures at 318 spots have been sanctioned and are in various stages of implementation. 139 spots are on State Government roads or with other agencies. Remaining 67 spots would be taken up separately or rectified as part of ongoing projects

Manzilen Abhi Aur Bhi Hain





Saaf Niyat

Sahi Vikas



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