

# Basic Road Statics of India (2019 - 20)



GOVERNMENT OF INDIA  
MINISTRY OF ROAD TRANSPORT & HIGHWAYS  
TRANSPORT RESEARCH WING  
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# **BASIC ROAD STATISTICS**

## **2019 - 20**



सत्यमेव जयते

**GOVERNMENT OF INDIA**  
**MINISTRY OF ROAD TRANSPORT AND HIGHWAYS**  
**TRANSPORT RESEARCH WING**  
**NEW DELHI**  
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Ministry of Road Transport & Highways

## FOREWORD

India, with its vast geographical expanse and population, relies on its road infrastructure to connect people, goods and services. It is crucial to understand the dynamics of this vital transportation network for policymakers, academicians and stakeholders. The Basic Road Statistics of India is an attempt to provide a data-driven undertaking of the road network through its annual publication which is brought out by Transport Research Wing of the Ministry of Road Transport & Highways. This Data Book provides detailed information on State/UT wise road length data of various categories of roads at national, state, district and local levels.

India has one of the largest road networks in the world with a road length of 63.60 lakh km. The road network consists of National Highways, Expressways, State Highways, District Roads, Urban Roads, Village Roads, Rural Roads, etc. In the recent years, transportation by road has scored over other modes because of convenience, flexibility, accessibility and reliability. Consequently, the share of road in freight and passenger movement has been increasing vis-a-vis other modes of transportation.

In order to have a holistic approach to development of integrated infrastructure, Government of India launched National Master Plan, i.e., Prime Minister Gati Shakti on 13<sup>th</sup> October, 2021. It incorporates the infrastructure developed & planned of various Ministries and State Governments. Economic Zones like textile clusters, pharmaceutical clusters, defence corridors, electronic parks, industrial corridors, fishing clusters, agri-zones etc. are covered to improve connectivity planning and make Indian businesses more competitive. It extensively leverages technology including spatial planning tools.

The present issue of "Basic Road Statistics of India" provides comprehensive information on the total road network of the country as on 31<sup>st</sup> March, 2020. Although the Publication is delayed, I hope this publication would be useful to administrators, policy makers and academia especially those interested in infrastructure development. I acknowledge the support and cooperation of all the agencies involved in providing information as per prescribed format to Transport Research Wing in time. I appreciate the contribution of the Transport Research Wing in bringing out this publication.

*Umashankar*  
( V. Umashankar )

New Delhi, the 25<sup>th</sup> January, 2025.

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### ACKNOWLEDGEMENT

The Ministry of Road Transport and Highways has been regularly compiling and disseminating information on various facets of roads & highways in the country through its annual publication titled 'Basic Road Statistics of India', based on data received from various departments of all the State/Union Territories like State Public Works Departments, Municipalities, Panchayati Raj Institutions, Railways etc. The relevance of reliable and up-to-date statistics on Road length is crucial to take up relevant timely measures and also for construction and maintenance of different categories of roads in India.

We are grateful to all the agencies of States/UTs namely State Public Works Departments, State Rural Road Development Agency, Municipalities, Panchayati Raj Institutions, Railways, Forest Departments, Irrigation Departments, Electricity Departments, Major and Minor Ports Trusts, Sugarcane Department, NRIDA, Coal Mines Department and Military Engineering Services, etc.

The present issue 'Basic Road Statistics of India-2019-20' contains data up to March 2020. This report is a joint endeavor of officers/staff of Transport Research Wing (TRW) and various agencies of all States/U.Ts, each contributing with best of their efforts and commitment. I wish to record my deep appreciation for the outstanding support and cooperation provided by all States/Union territories. I am especially thankful to the agencies of all States/U.Ts who have provided data/information as per prescribed format to TRW.

The leadership provided by the Secretary, Ministry of Road Transport & Highways has been the guiding force in bringing out this publication. I would also like to place on record the efforts of Transport Research Wing, MoRTH in this regard.

  
( Mahmood Ahmed )

Date : 31.12.2024



दिनेश कुमार  
उप महानिदेशक एवं  
मुख्य डेटा अधिकारी

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सड़क परिवहन और राजमार्ग मंत्रालय  
Ministry of Road Transport & Highways  
भारत सरकार / Government of India



## PREFACE

With great pleasure, we present this annual publication, 'Basic Road Statistics in India' for the year 2019-20. This report aims to provide a comprehensive overview and analysis of the road infrastructure in the country. The importance of reliable and up-to-date road statistics is paramount for evidence-based decision-making, policy formulation, and infrastructure planning. This report endeavors to contribute to these efforts by presenting a detailed analysis of key indicators, such as road length, road density etc.

The road network of the country consists of National Highways, State Highways, District Roads, Rural Roads, Urban Roads and Project Roads. The construction and maintenance of National Highways is mandated to the Ministry of Road Transport and Highways. As per the report, the road network of the country is 63.60 lakh km as on 31.03.2020 which consists of National Highways (2.09%), State Highways (2.81%), District Roads (9.70%), Rural Roads including JRY (70.69%), Urban Roads (8.62%) and Projects Roads (6.08%).

The Government of India plans to undertake development of Cable Propelled Transit, i.e., Ropeways, as an alternate mobility transport solution in areas where other modes of transportation are infeasible, for example, in hilly areas. Ropeways can provide first and last mile connectivity for transportation of passengers in an environmentally sustainable way. The National Electronic Toll Collection (NETC) programme, the flagship initiative of the Ministry, has been implemented on pan- India basis to ensure seamless movement of traffic through fee plazas and increase transparency in collection of user fee using FASTag. The Ministry has launched Bhoomi Rashi portal to digitize the Land Acquisition notification process and avoid parking of public funds with the Competent Authority for Land Acquisition (CALA). Great focus is being given on monetisation of completed NH stretches through TOT and InvIT Model.

The Ministry has initiated Multi-Modal Logistics Parks (MMLPs) to be developed under Bharatmala Pariyojana in October 2021 through an elaborate process of inter – ministerial consultations. Ministry, through its implementing agencies NHAI / NHLML and NHIDCL has kept pace with the work of implementing of 35 MMLPs Projects identified for development under Bharatmala Pariyojana - Phase I.

The present publication provides, inter-alia, an overview of the composition and growth of the road sector over a period of time, State/UTs spread of different category of roads and also provides a chapter on recent initiatives taken by Ministry of Road Transport and Highways for improving road network including the budgetary provisions and expenditure incurred, etc.

The data given in the publication is based on the information sourced from various agencies from both Central and State Government viz Public Works Departments of States and UTs, Municipalities, Railways, Forest, Ports, Mines, etc. I express my deep gratitude to all the data source agencies for sharing valuable data/information to bring out this publication. I also express my deep gratitude to the officers and staff of Transport Research Wing for their concerted efforts for finalization and bringing out this publication.

  
(Dinesh Kumar)

New Delhi  
30<sup>th</sup> January, 2025

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## EXECUTIVE SUMMARY

1. The present volume of 'Basic Road Statistics of India-2019-20' provides information on various facets of road statistics in the country during the year 2019-20. It has eight sections and covers information relating to road length, surfaced road length, major initiatives of Ministry of Road Transport and Highways. Data/information presented in this report is sourced from various departments of States/Union Territories like State Public Work Departments, Municipalities, Panchayat, Railway, Forest, etc.
2. The Basic Road Statistics of India 2019-20 provides State/UT-wise data on various categories of roads constructed at National, State/UT, District and Local Levels (Municipal/Panchayat). The report highlights the role of various Department/Organisation/Agencies who are responsible and executes construction and maintenance of different categories of Roads in India.
3. **Section 1** of the report provides an overview of road network in India. This section throws lights on category-wise break up of construction of roads in India, long run trend in the construction of road, decadal CAGR analysis and investment in highways by both Public and Private Entities. This section highlights following points.
  - i. India has a road network of 63,60,004 Km of roads as on 31<sup>st</sup> March, 2020, which is the second largest in the World after the United States of America with a road network of 66,45,582 Km (Source: IRF World Road Statistics 2022 (page 47)). The Rural Roads constitute 70.69% (44,95,948 Km) of total road network in the country as on 31<sup>st</sup> March, 2020, followed by District Roads with 6,16,964 Km (9.70 %), Urban Roads 5,48,394 Km (8.62 %), Projects Roads 3,86,954 Km (6.08 %), State Highways 1,78,749 Km (2.81 %), and National Highways 1,32,995 Km (2.09%).
  - ii. The construction of roads in the country has increased consistently from 3.99 lakh Km in 1951 to 63.60 lakh Km in 2020, i.e. an increase of almost 16 times in 69 years.
  - iii. Total length of surfaced roads has increased from 40,95,725 Km in 2018-19 to 41,29,448 Km in 2019-20.
  - iv. State wise distribution of construction of roads (excluding JRY roads) for the period up to 31<sup>st</sup> March 2020 reveals, Maharashtra has the largest road network with 6,09,872 Km (11.17 %) followed by Uttar Pradesh with 4,59,846 Km (8.42 %), Assam with 4,50,290 Km (8.25%), Karnataka with 3,69,687 Km (6.77%) and Madhya Pradesh with 3,69,271 Km (6.76%) (**Annexure 1.3**). These five States accounted for a combined share of 41.37% of road network in India.
  - v. Public expenditure by the Government of India for construction of roads in rural as well as urban areas increased during the period 1950-51 to 2019-20. Public investment's share in the road sector has increased from 51.7 % in 2012-13 to

87.3% in 2019-20, whereas that of private investment decreased from 48.3% to 12.7%.

- vi. Indicators of road infrastructures like density of roads per 1000 Sq. Km and Density of road per 1000 population have been on increase since 2011-12. Besides this, density of roads in Rural and Urban areas depicts upturn during 2011-12 to 2019-20.

- 4. **Section 2** of the report gives details on State / UT wise break up of National Highways. National Highways constitutes 2.09% of total road network in the country and the total length of National Highways as on 31.03.2020 was at 1,32,995, registering an increase of 0.37 % compared to the same period last year. All National Highways are surfaced. On States front, Maharashtra has the largest network of National Highways with 17,931 Km (13.48%) followed by Uttar Pradesh and Rajasthan with 11,708 Km (8.80 %) and 10,342 Km (7.78 %) respectively, as on 31<sup>st</sup> March, 2020.

- 5. **Section 3** of the report brings out State/UT wise distribution of State Highways in country. Total State Highways constructed was 1,78,749 Km as on 31<sup>st</sup> March 2020, constituting 2.81% of total road network in the country. More than 99% (1,77,710 Km) of State Highways are surfaced. Maharashtra has the largest State Highways network in the country i.e. 17.90% (31,992 Km) followed by

Karnataka 10.89% (19,469 Km), Gujarat 9.26% (16,557 Km), Rajasthan 8.48% (15,165 Km) and Andhra Pradesh 7.55% (13,500 Km). These five States accounted for 54.09% of the total State highways network in the country.

- 6. **Section 4** throws lights on State/UTs wise distribution of total length of District Roads. The total District Road constructed was 6,16,964 Km as on 31<sup>st</sup> March 2020, of which surfaced roads constitute 96.05% of total District Road network (i.e. 5,92,587 Km). Maharashtra topped the States in the total length of District Roads with 1,10,362 Km (17.89%) followed by Uttar Pradesh 55,026 Km (8.92 %), Madhya Pradesh 50,714 Km (8.22 %), Karnataka with 49,526 Km (8.03%) and Tamil Nadu 48,236 Km (7.82%). These five States together account for 50.87 % of the total District Roads network in India.

- 7. **Section 5** of the report highlights on Rural Roads constructed by Panchayati Raj Institutions, (Zilla Parishad, Panchayat Samiti, Gram Panchayat), roads of the Pradhan Mantri Gram Sadak Yojana (PMGSY) and roads constructed by the State PWD Rural Roads. India has Rural Road network of 44,95,948 Km (including JRY Roads) as on 31<sup>st</sup> March 2020. Rural Roads constitute 70.69 % of total road network in the country as of 31<sup>st</sup> March, 2020. Assam accounted for the largest network of Rural Roads with 4,03,027 Km (11.21%) followed by

Maharashtra 3,97,158 Km with (11.04 %), Uttar Pradesh 2,70,812 Km (7.53%), Bihar 2,60,171 Km (7.24%) and Madhya Pradesh 2,33,817 Km (6.50 %). These five States account for 43.52 % of the total Rural Roads in the country

8. **Section 6** of the report gives details on Urban Roads network in the country. It includes Municipal Roads under Urban Development Departments of States and UTs, roads in Railway Zones, MES roads constructed by Military Engineering Services (MES) and Major and Minor Port Roads. The total length of Urban Road as on 31<sup>st</sup> March, 2020 was at 5,48,394 Km, of which surfaced roads constitute about 80.65 percent (4,42,295 Km) of total Urban Roads. On States front, West Bengal accounted has largest network of Urban Roads with 95,061 Km (17.33%) followed by Uttar Pradesh with 71,602 Km with (13.06 %), Karnataka 43,541 Km (7.94%), Madhya Pradesh 34,093 Km (6.22%) and Rajasthan 32,881 Km (6 %). These five States account for 50.54 % of the total length of urban Roads in the country

9. **Section 7** of the report provides the details on Project Roads. This includes roads of Forest Departments, Irrigation Departments, Electricity Departments, roads in coal fields and coal mines of Coal India Ltd., roads under the plant areas of Steel Authority of India Limited (SAIL), National Mineral Development Corporation (NMDC), and Sugarcane Departments of States/UT and Border Roads Organisation (BRO). Projects roads coming under the purview of Central and State Government agencies and departments. Construction of Project road has increased from 3,43,163 Km in 2018-19 to 3,86,954 Km in 2019-20, registered a growth of 12.76% relative to previous period. Uttar Pradesh has the largest network (10.95 %) of Project Roads as on 31<sup>st</sup> March 2020, followed by Gujarat (10.48%), Madhya Pradesh (7.88%), Assam (7.35%) and Karnataka (6.83%). These five States together account for 43.48 % of the total Project Roads as on 31.03.2020.

10. **Section 8** of the report describes in detail on the initiatives taken by Ministry of Road Transport and Highways for improving the Road network in the country. This Section is followed by Annexures on Road Statistics.

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# Section - 1

## Section – 1

### ROAD NETWORK IN INDIA

#### OVERVIEW: ROAD TRANSPORT SECTOR IN INDIA

1.1 Road transport is the most cost-effective mode of transportation in India for both freight and passengers, keeping in view its level of penetration in populated areas. Thus, it is vital for economic development and social integration of the country. Road transport emerged as the dominant segment in India's transport sector and contributed 2.48% to GVA against the total transport sector contribution of 3.91% for the year 2020-21, where the share of Railways was at 0.76 %, Air Transport at 0.06% and Water Transport at 0.07%. Road Transport also serves as the feeders to railway, shipping and air traffic (Source: Section 1.6 A) "Percentage Share of GVA by economic activity at current and constant prices" of National Accounts Statistics 2022) (<https://www.mospi.gov.in/publication/national-accounts-statistics-2022>).

1.2 The road network of the country consists of National Highways (NH), State Highways (SH), District Roads, Rural Roads, Urban Roads and Project Roads. The construction and maintenance of National Highways is mandated with the Ministry of Road Transport and Highways (MoRTH). State Roads are executed through the State Public Works Departments (PWDs). District

Roads are constructed & maintained by Public Works Department of States while Rural Roads are executed by Panchayati Raj Departments, State PWD/RWD Departments & National Rural Infrastructure Development Agency (NRIDA) of Ministry of Rural Development. Urban Roads are executed by Municipalities and Project Roads are constructed by various Central and State Government Departments.

#### ROAD LENGTH-CATEGORYWISE

1.3 India has a network of over 63,60,004 Kilometres of roads as of 31<sup>st</sup> March 2020, which is the second largest in the world, after the United States with 66,45,582 Km of roads (**Source: IRF World Road Statistics 2022 (Page55)**). There has been a consistent increase in the construction of roads under various categories during the period 1950-51 to 2019-20 (Table 1.3).

1.4 This is primarily due to the proactive policy steps such as leveraging of Private and Public Investment and the deployment of innovative financing models initiated by Ministry of Road Transport and Highways. Besides this, projects like National Highways Development Programme, Bharatmala Pariyojana Phase-I, Special Accelerated Road Development

Programme for North-Eastern region (SARDP-NE), Char Dham Pariyojana, Connectivity to the Border Areas, Connectivity to the Backward/Aspirational Areas, etc. added to enhance the length and the quality of road network in the country. The significant upturn in road construction is also due to the increase in public expenditure by the Government of India to a critical sector that generates employment and supports infrastructure, act as feeder to other modes of transportation.

1.5. The total road constructed has increased from 63,31,757 Km in 2019 to 63,60,004 Km in 2020, registered a growth of 0.45 % relative to the corresponding period last year. It may be noted in Table 1.1 that, all categories of roads except States Highways and Rural Roads have shown increase in construction of road in 2020 and the Project Roads achieved the highest increase of

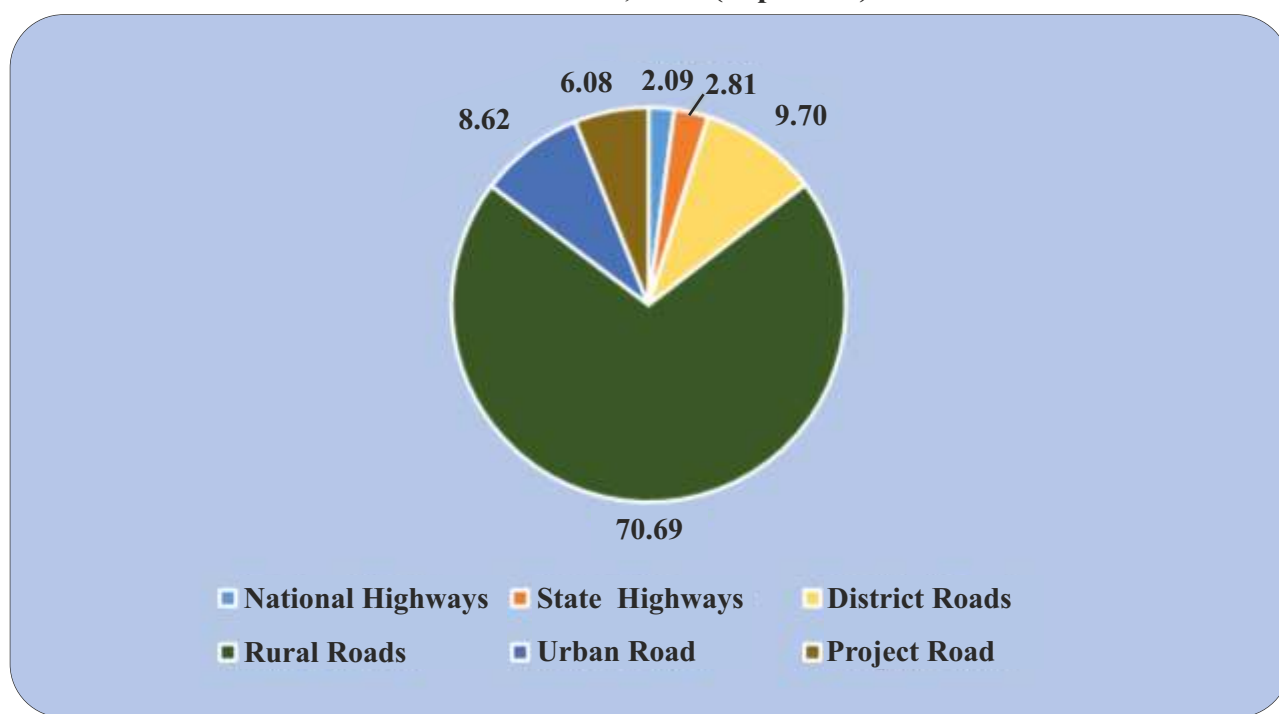
12.7% over same period last year. The construction of National Highways increased to 1,32,995 Km in 2020 as compared to 1,32,499 Km in 2019, indicating an increase of 0.37% over previous period. However, there has been a decline in construction of State Highways i.e. declined to 1,78,749 Km in 2020 from 1,79,535 Km in 2019, whereby registering decrease of 0.44% compared to same period last year. This may probably be due to declaration/entrustment of State Highways as National Highways, reclassified as Major District Roads etc. Rural roads including JRY road constitute 70.69% of total road network in the country in 2020 (Chart 1.1) and its length decreased to 44,95,948 Km in 2020 from 45,22,228 Km in 2019, registering a decline of 0.58 % relative to corresponding period of last year. Details are given at **Annexure 1.4.**

**Table 1.1: Road network as on 31<sup>st</sup> March – 2020 vis-à-vis 2019**

Road Category	2019 (in km)	2020 (in km)	% share in total road	% change in 2020 over 2019
National Highways	1,32,499	1,32,995	2.09	0.37
State Highways	1,79,535	1,78,749	2.81	-0.44
District Roads	6,12,778	6,16,964	9.7	0.68
Rural Roads (Include JRY Road)	45,22,228	44,95,948	70.69	-0.58
Urban Road	5,41,554	5,48,394	8.62	1.26
Project Road	3,43,163	3,86,954	6.08	12.7
<b>Total</b>	<b>63,31,757</b>	<b>63,60,004</b>	<b>100</b>	<b>0.45</b>

*\* Reason for decline in State Highways and Rural Road are conversion into other categories of Roads*

**Chart 1.1: Share of various categories of roads in total road network as on 31<sup>st</sup> March, 2020 (in percent).**



1.6. For the sixth consecutive years, the total length of road constructed in the country has increased in 2020 (Table 1.2). The total road constructed has increased from 54,72,144 Km in 2015 to 63,60,004 Km in 2020, registering a growth of 16.23 % relative to the corresponding period in 2015. There has been a consistent increase in the construction of National Highways, which increased from 97,991 Km in 2015 to 1,32,995 Km in 2020, indicating an increase of 35.72% over 2015. Rural Roads constitute more than 70 % of total road network in the country since 2016. There has been a remarkable decline in District Road, i.e. declined from 11,01,178 Km in 2015 to 6,16,964 Km in 2020, subsequently its share in total road

network has dropped to 9.70 % from 20.1 during the period mentioned due to Other PWD Roads which were considered as District Roads have been divided into Districts Roads and Rural Roads built by State PWD/RWD since 2016. Projects Roads constructed by other Government Departments like Railways, Mines, Forest, etc. constitute considerable part of road network in the country, depicting an increase from 3,01,505 Km in 2015 to 3,86,954 Km in 2020. Trends in the construction of various categories of roads during the period 2015 to 2020 given in Chart 1.2 indicate stable growth with marginal fluctuations for all categories of roads except Rural Roads.



**Table 1.2: Road length by Categories during 2015 to 2020 (as on 31<sup>st</sup> March)**

Category	2015	2016	2017	2018	2019	2020
National Highways	97,991	1,01,011	1,14,158	1,26,350	1,32,499	1,32,995
% share in total	1.8	1.8	1.9	2	2.1	2.1
State Highways	1,67,109	1,76,166	1,75,036	1,86,908	1,79,535	1,78,749
% share in total	3.1	3.1	3	3	2.8	2.8
District Roads <sup>#</sup>	11,01,178	5,61,940	5,86,181	6,11,268	6,12,778	6,16,964
% share in total	20.1	10	9.9	9.8	9.7	9.7
Rural Roads <sup>*</sup>	33,37,255	39,35,337	41,66,916	44,09,582	45,22,228	44,95,948
% share in total	61	70.2	70.7	70.9	71.4	70.7
Urban Roads	4,67,106	5,09,730	5,26,483	5,34,142	5,41,554	5,48,394
% share in total	8.5	9.1	8.9	8.6	8.6	8.6
Project Roads	3,01,505	3,19,109	3,28,897	3,47,547	3,43,163	3,86,954
% share in total	5.5	5.7	5.6	5.6	5.4	6.1
<b>All Roads</b>	<b>54,72,144</b>	<b>56,03,293</b>	<b>58,97,671</b>	<b>62,15,797</b>	<b>63,31,757</b>	<b>63,60,004</b>

*\*include JRY road*

*# Since 2016, Other PWD Roads which was part of District Roads have been divided into District Roads and Rural Roads built by State PWD/RWD.*

**Chart 1.2: Category wise trends in Road Length**



**Table 1.3: Road network by Categories (in Km) 1950-51 to 2019-20**

Road Category	1950-51	1960-61	1970-71	1980-81	1990-91	2000-01	2010-11	2015-16	2016-17	2017-18	2018-19	2019-20
National Highways	19,811	23,798	23,838	31,671	33,650	57,737	70,934	1,01,011	1,14,158	1,26,350	1,32,499	1,32,995
% share in total	4.95	4.54	2.61	2.13	1.45	1.71	1.52	1.8	1.94	2.03	2.1	2.1
State Highways			56,765	94,359	1,27,311	1,32,100	1,63,898	1,76,166	1,75,036	1,86,908	1,79,535	1,78,749
% share in total			6.2	6.35	5.47	3.92	3.5	3.14	2.97	3.01	2.8	2.8
District Roads #	1,73,723	2,57,125	2,76,833	4,21,895	5,09,435	7,36,001	9,98,895	5,61,940	5,86,181	6,11,268	6,12,778	6,16,964
% share in total	43.44	49.02	30.26	28.4	21.89	21.82	21.36	10.03	9.94	9.83	9.7	9.7
Rural Roads*	2,06,408	1,97,194	3,54,530	6,28,865	12,60,430	19,72,016	27,49,804	39,35,337	41,66,916	44,09,582	45,22,228	44,95,948
% share in total	51.61	37.6	38.75	42.34	54.16	58.46	58.8	70.23	70.65	70.94	71.4	70.7
Urban Roads		46,361	72,120	1,23,120	1,86,799	2,52,001	4,11,679	5,09,730	5,26,483	5,34,142	5,41,554	5,48,394
% share in total		8.84	7.88	8.29	8.03	7.47	8.8	9.1	8.93	8.59	8.6	8.6
Project Roads			1,30,893	1,85,511	2,09,737	2,23,665	2,81,628	3,19,109	3,28,897	3,47,547	3,43,163	3,86,954
% share in total			14.31	12.49	9.01	6.63	6.02	5.7	5.58	5.59	5.4	6.1
<b>Total</b>	<b>3,99,942</b>	<b>5,24,478</b>	<b>9,14,979</b>	<b>14,85,421</b>	<b>23,27,362</b>	<b>33,73,520</b>	<b>46,76,838</b>	<b>56,03,293</b>	<b>58,97,671</b>	<b>62,15,797</b>	<b>63,31,757</b>	<b>63,60,004</b>

\* Includes 9 lakh KM of Rural Roads constructed under Jawahar Rozgar Yojana

# Since 2016 Other PWD Roads which was part of District Roads have been divided into District Roads and Rural Roads built by State PWD/RWD.

## LONG RUN TRENDS IN ROAD LENGTH – CATEGORY WISE

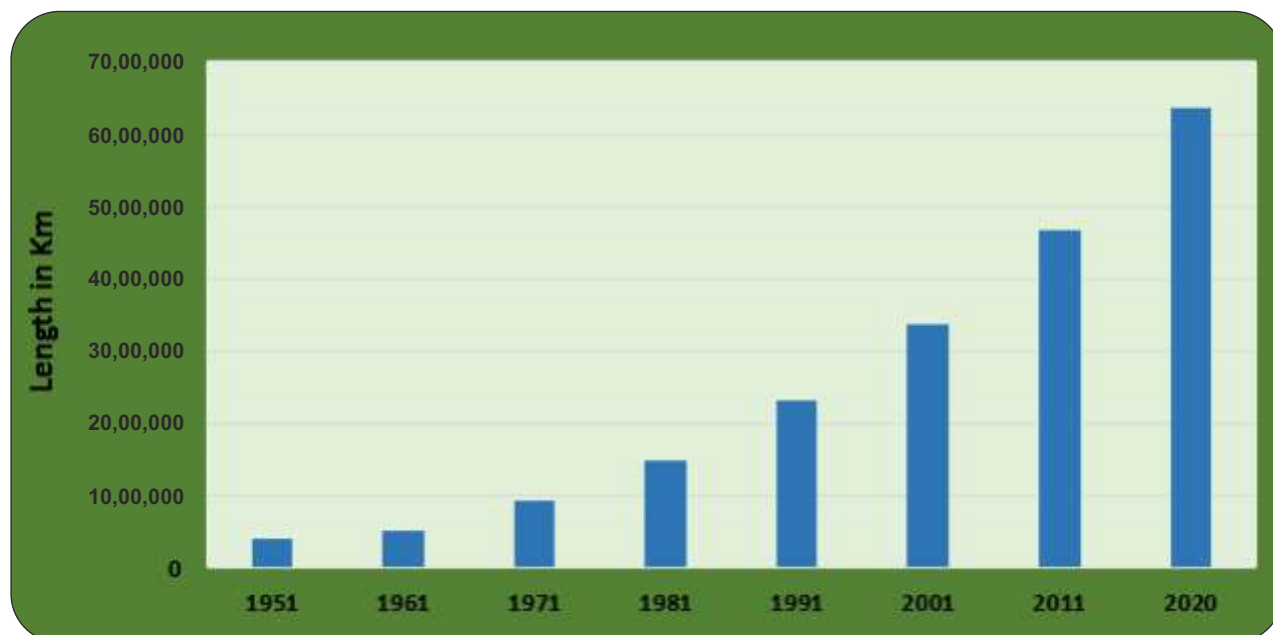
1.7 Despite some marginal fluctuations, there has been consistent increase in the construction of road during the period 1950-51 to 2019-20 (Table 1.3). The total length of roads constructed under different categories has increased significantly from 3,99,942 Km in 1950-51 to 63,60,004 Km in 2019-20 (Chart 1.3). There has been a consistent increase in the construction of National Highways during 1950-51 to

2019-20, i.e. increased from 19,811 Km in 1950-51 to 1,32,995 Km in 2020, registering increase of more than 6 times in 69 years. The construction of State Highways shows mixed trend due to reclassification of SH into other categories. Rural Road achieved highest increase, i.e. from 2,06,408 Km in 1950-51 to 44,95,948 Km in 2020, registered an increase of more than 21 times in 69 years. Besides this,

Rural Road constitutes more than 70% of total road network in the country since 2015-16 (Table 1.3). Rural Roads also include 9 lakh Km of road constructed under Jawahar Rozgar Yojana. Trends in the construction of different categories of

roads given in Chart 1.5 and Chart 1.6 show stable growth with marginal fluctuations for all roads categories except State Highways and District Roads during the period 2009-10 to 2019-20.

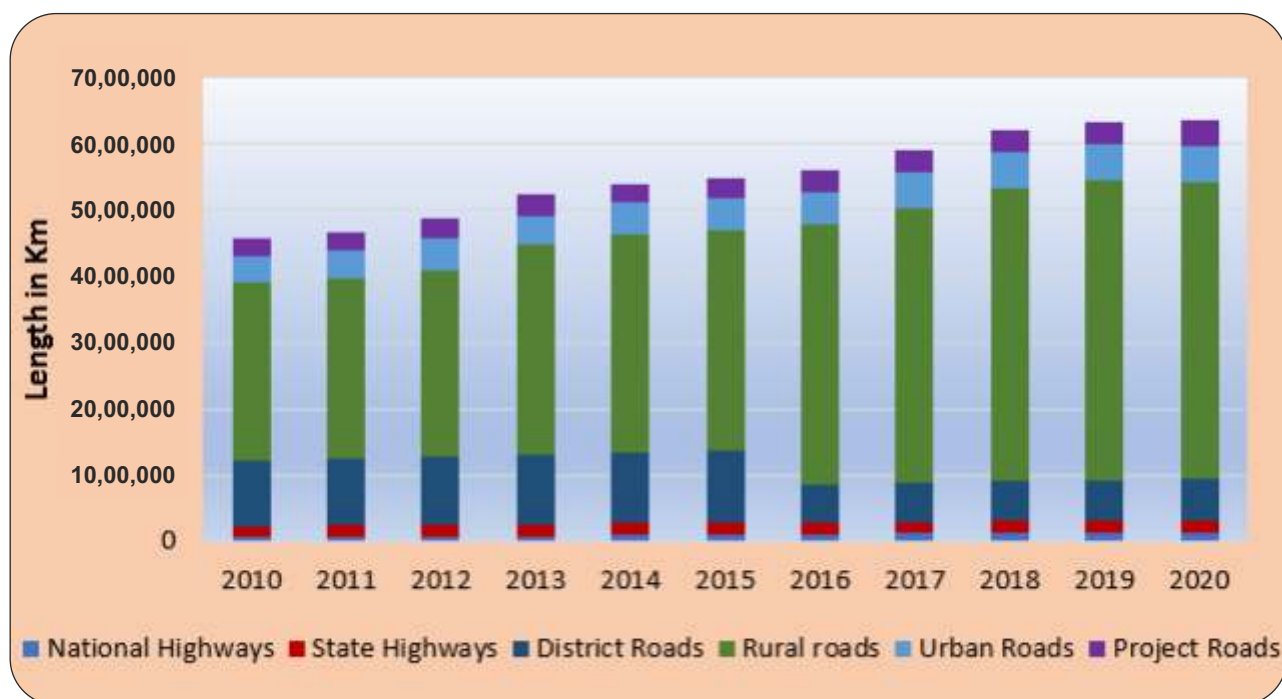
**Chart 1.3: Trends of Decadal Growth of Construction of Road during 1951 to 2020**



**Chart 1.4: Trends of Construction of Road from 2001 to 2020**



**Chart 1.5: Trends of construction of Roads of different categories from 2010 to 2020**



**Chart 1.6: Trends of construction of roads of different categories (2010-2020)**

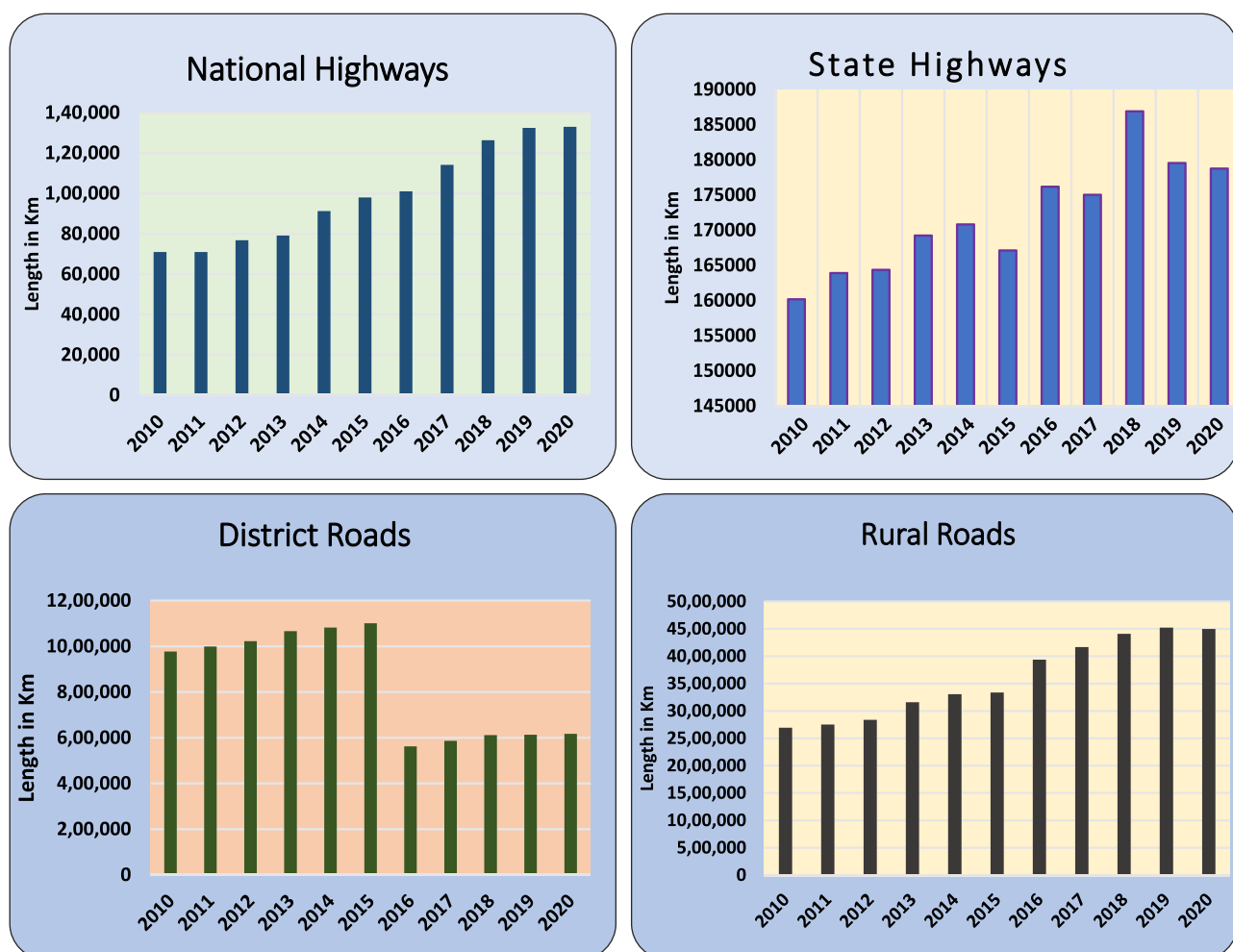
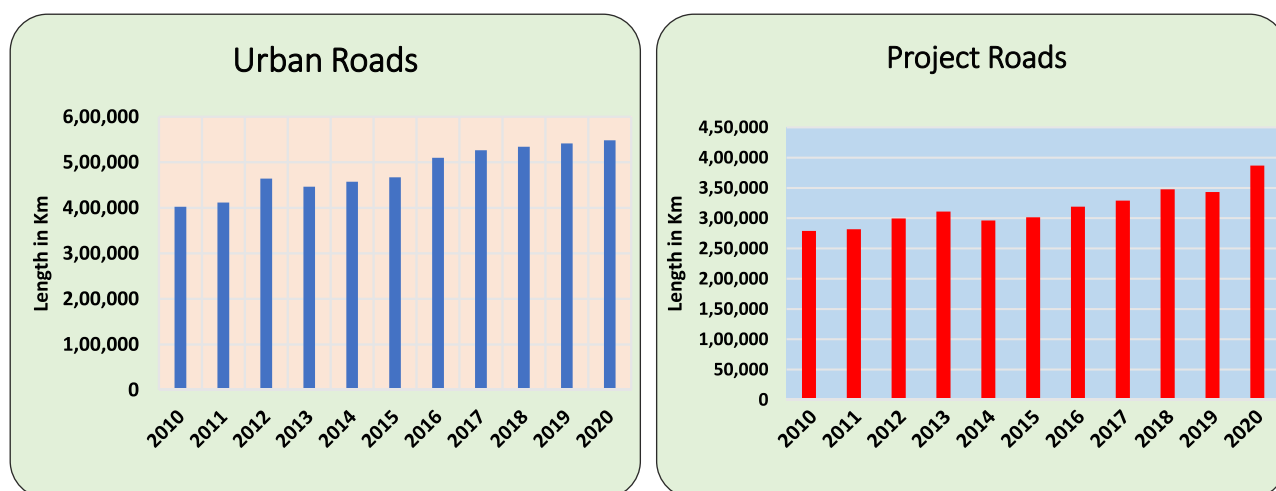


Chart 1.6 Contd...



Chart 1.6 Contd...



## DECADAL ANALYSIS

1.8 The total length of roads in the country has increased consistently from 3.99 lakh Km

in 1951 to 63.60 lakh Km in 2020. Decadal CAGRs, are presented in Table 1.4 below.

**Table 1.4: CAGR (%) of Road Networks -1951 to 2020**

Period	NH	SH & District Road	Rural Road	Urban Road	Project Road	Total
1951/1941	2.7	2.3	4.7	NA	NA	4.2
1961/1951	1.9	4	-0.5	NA	NA	2.7
1971/1961	0	2.6	6	4.5	NA	5.7
1981/1971	2.9	4.5	5.9	5.5	3.5	5
1991/1981	0.6	2.1	7.2	4.3	1.2	4.6
2001/1991	5.5	3.1	4.6	3	0.6	3.8
2014/2004	3.4	3.9	4.4	4.3	1.3	4.1
2015/2005	4.1	3.1	3.9	5	1.5	3.7
2016/2006	4.3	-2.5	5.5	5.7	2	3.7
2017/2007	5.5	-2.6	5.7	5.8	2	3.9
2018/2008	6.6	-2.4	6.1	5.8	2.5	4.2
2019/2009	6.5	-3.4	5.6	3.8	2.2	3.5
2020/2010	6.5	-3.5	5.3	3.1	3.3	3.3

*\* Note: Since the year 2015-16 the category Other PWD Road (OPWD) has been discontinued and PWD road, other than SHs, are categorized under District Roads and Rural roads under PWD. Because of this change, the figures in respect of OPWD, District Road & Rural Roads are not comparable with figures of previous years.*

1.9 During 2010-2020, National Highways registered CAGR growth of 6.5%, which is the highest decadal growth, followed by Rural Roads with CAGR growth of 5.3% and Project Roads with CAGR

growth of 3.3%. In Table 1.3, the length of National Highways was 70,934 Km in 2010-11 which has increased consistently to 1,32,995 Km in 2019-20 with growth of about 87.5% over 2010-11.

1.10 The proactive policy steps, leveraging of private and public investment, innovative financing models, have resulted in increase in the pace of development of National Highways in recent years. The details of Investment in National Highways are given in Table 1.5. The combined public and private investment has increased during 2012-13 to 2019-20@ CAGR of 19.34 % (Table 1.5). The total investment in construction

of Highways has increased from Rs. 41,998.4 Crore in 2012-13 to Rs. 1,72,767.19 Crore in 2019-20. The share of public sector investment in Highways has increased from Rs 21,693.74 Crore in 2012-13 to Rs 1,50,841.19 Crore in 2019-20 while that of private sector has increased from Rs 20,304.66 Crore in 2012-13 to Rs 21,926 Crore in 2019-20 (Table 1.5).

**Table 1.5: Public and Private Sector Investment in Road Transport (Rs in crore)**

Sr. No.	Year	Expenditure		
		Private Investment	Public Investment	Total
1	2012-13	20,304.66	21,693.74	41,998.40
2	2013-14	22,515.05	30,385.64	52,900.69
3	2014-15	19,232.44	30,295.26	49,527.70
4	2015-16	29,770.00	66,369.14	96,139.14
5	2016-17	16,028.64	76,275.26	92,303.90
6	2017-18	16,500.64	1,02,852.38	1,19,353.02
7	2018-19	21,605.00	1,37,353.53	1,58,958.53
8	2019-20	21,926.00	1,50,841.19	1,72,767.19
CAGR (2012-13/2019-20)				19.34

**Chart 1.7: Trends in total Investment in Road Transport**



*Note-includes private investment*

1.11 Public expenditure by the Government of India for construction of road in rural as well as urban areas increased consistently since 2012-13 (Chart 1.8). The share of public investment has been increased during the period 2012-13 to 2019-20, while that of private investment has been declined (Chart 1.8). It may be noted that

public expenditure constitutes 87.3% of total investment in road sector in 2020, which was only 51.7% in 2012-13. However, there has been a decline in total private investment in road construction, as a result, total share has declined from 48.3% in 2012-13 to 12.7% in 2019-20.

**Chart 1.8: Trends in Public and Private Investment in Road Transport**



## **SURFACED ROAD BY ROAD CATEGORIES - (QUALITY)**

1.12 The total road constructed in the country during 1950-51 to 2019-20 (Table 1.6) has increased tremendously, subsequently construction of paved/ surfaced road also has increased. The length of paved/surfaced road rose from 1.57 lakh Km as on 31<sup>st</sup> March 1951 to 41.29 lakh Km as on 31<sup>st</sup> March 2020, registering an increase of more than 26 times in 69 years. The percentage share of length of Surfaced

Road to total length has increased from 39.26% as on 31<sup>st</sup> March, 1951 to 64.92 % as on 31<sup>st</sup> March, 2020, implies improvements in the quality of public transportation system in the country. Out of total surfaced road length, about 85% length constitute Bituminous and Cement Concrete roads (**Annexure 1.2**) in 2020 and the remaining 15% is Water Bound Macadam roads.

**Table 1.6: Surfaced and Total Road as of 31<sup>st</sup> March**

Year	Surfaced Road (Km)	Total Road (Km)	% of surfaced road
1951	1,57,019	3,99,942	39.26
1961	2,63,052	5,24,478	50.16
1971	3,97,948	9,14,979	43.49
1981	6,83,676	14,85,421	46.03
1991	10,90,167	23,27,362	46.84
2001	16,01,745	33,73,520	47.48
2002	16,61,555	34,26,600	48.49
2003	17,01,258	35,28,654	48.21
2004	17,60,768	36,21,507	48.62
2005	17,95,298	38,09,156	47.13
2006	18,58,684	38,80,651	47.9
2007	19,44,758	40,16,401	48.42
2008	20,36,063	41,09,592	49.54
2009	23,24,504	44,71,510	51.98
2010	24,32,813	45,82,439	53.09
2011	25,24,682	46,76,838	53.98
2012	26,98,590	48,65,394	55.46
2013	31,71,002	52,31,922	60.61
2014	32,20,502	54,02,486	59.61
2015	33,41,008	54,72,144	61.05
2016	35,01,906	56,03,293	62.5
2017	37,29,781	58,97,671	63.24
2018	37,48,291	62,15,797	60.3
2019	40,95,725	63,31,757	64.69
2020	41,29,448	63,60,004	64.93

*Note: Includes JRY Road*

1.13 The snap shot of total and surfaced road length (in Km) during the period 2001 to

2020 is presented in Chart 1.9. Despite some marginal fluctuations, there has



been increase in total length of surfaced during 2001 to 2020. Total road

constructed consistently increased during the same period as seen in **Chart 1.9**.

**Chart 1.9: Trends in Surfaced and Total Road Network**



*Note: Includes JRY Road*

1.14 It may be noted in the Table 1.7 about 64.93% of total roads (including JRY roads) in the country are surfaced as of 31<sup>st</sup> March, 2020. National Highways are

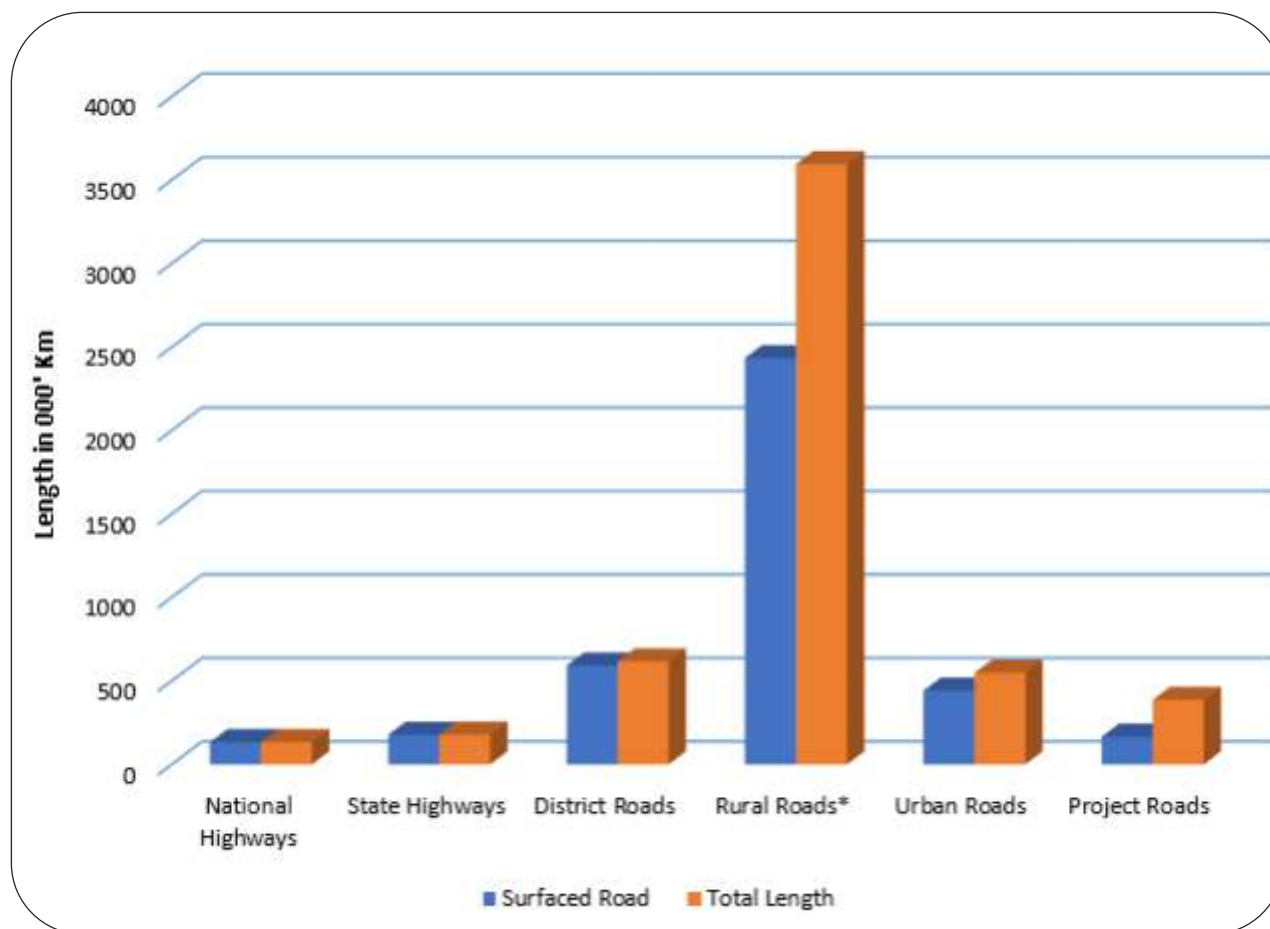
fully surfaced and 99.41% of State Highways and 96.05% of Districts Roads are surfaced.

**Table 1.7: Snap shot of Surfaced and Total Road as of 31<sup>st</sup> March, 2020**

Category	Surfaced Road (Km)	Total Length (Km)	% of Surfaced Road
National Highways	1,32,995	1,32,995	100
State Highways	1,77,710	1,78,749	99.41
District Roads	5,92,587	6,16,964	96.05
Rural Roads*	24,33,780	35,95,948	67.68
Urban Roads	4,42,295	5,48,394	80.65
Project Roads	1,66,879	3,86,954	43.13
<b>Total (Excluding JRY Roads)</b>	<b>39,46,246</b>	<b>54,60,004</b>	<b>72.27</b>
<b>Total (Including JRY Roads)</b>	<b>41,29,448</b>	<b>63,60,004</b>	<b>64.93</b>

*\*Excludes JRY road*

**Chart 1.10: Surfaced and Total Road Length as of 31<sup>st</sup> March, 2020**



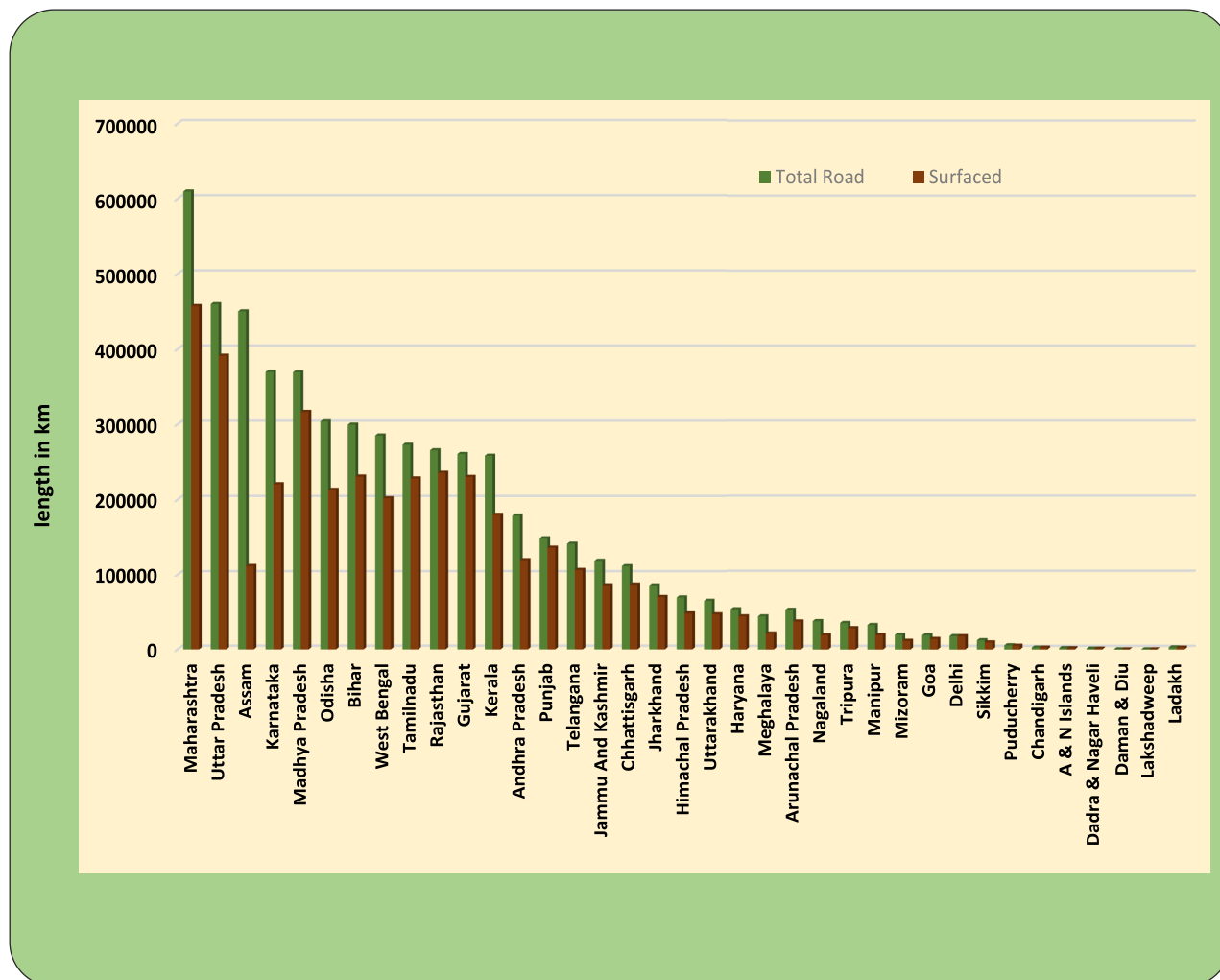
*Excludes JRY road*

## STATE/UT WISE DISTRIBUTION OF TOTAL ROAD AND SURFACED ROAD

1.15 State/UT wise distribution of total road construction (excluding JRY roads) depicts, as of 31<sup>st</sup> March 2020, Maharashtra accounted for the largest share (11.17%) with 6,09,872 Km in total length followed by Uttar Pradesh (8.42 %) with 4,59,846 Km, Assam (8.25%) with 4,50,290 Km, Karnataka (6.77%) with 3,69,687 Km and Madhya Pradesh (6.76%) with 3,69,271 Km. (**Annexure 1.3**). These five States with the largest road networks accounted

for a combined share of about 41.37 % of road length in India. Details of State/UT wise distribution of total road length is at **Annexure 1.3** and the State wise distribution of construction of total road and surfaced road is presented in **Chart 1.10** above.

**Chart 1.11: State/UT wise break-up of Total Road and surfaced road as of 31<sup>st</sup> March, 2020**

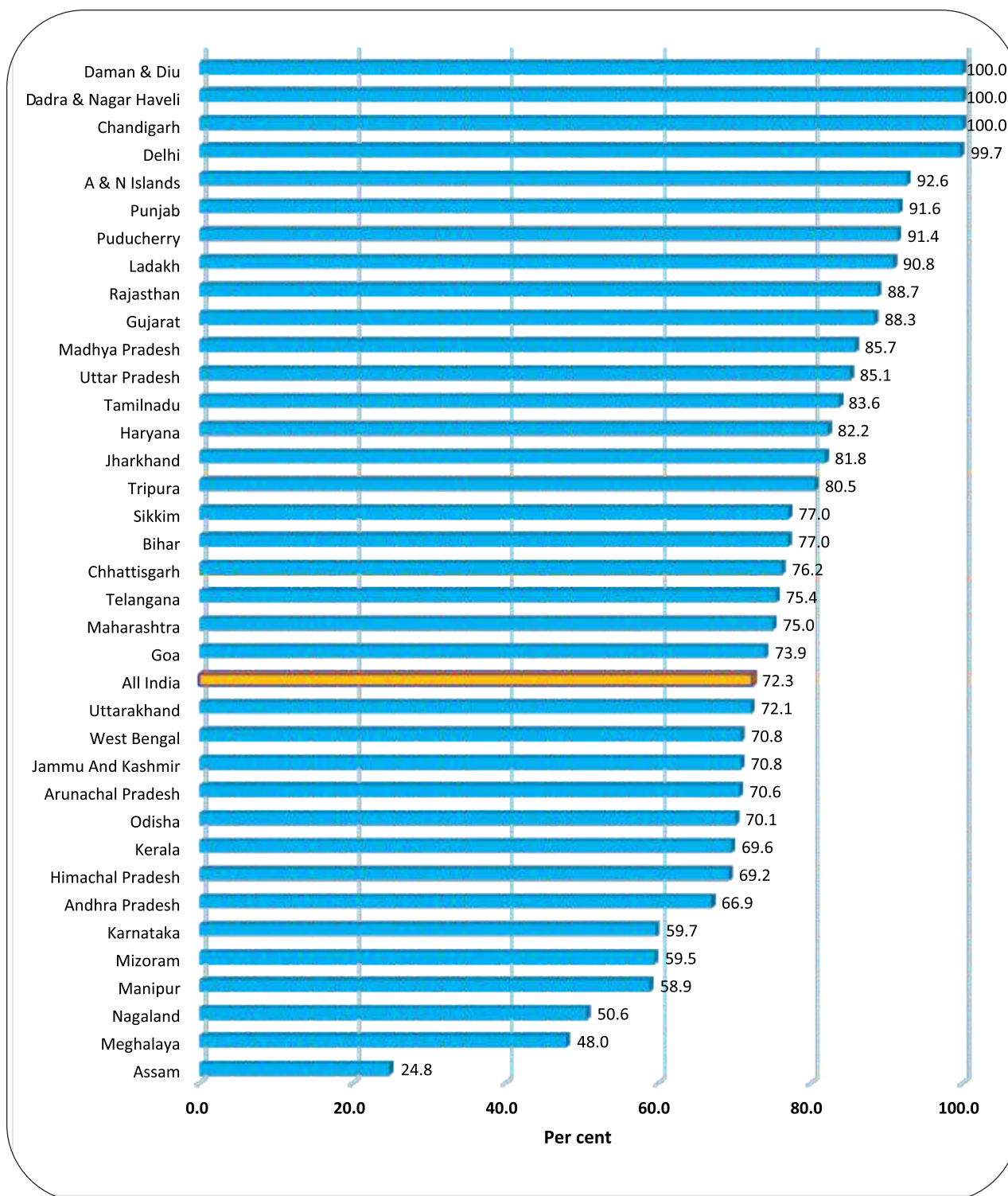


1.16 State/UT wise break-up of surfaced road presented in the **Annexure 1.3** of the report which shows Maharashtra top amongst the States with 4,57,357 Km (11.59%) followed by Uttar Pradesh with 3,91,265 Km (9.91%), Madhya Pradesh with 3,16,628 Km (8.02%), Rajasthan with 2,35,683 (5.97%) and Bihar with 2,30,666 (5.85 %).

1.17 As on 31<sup>st</sup> March, 2020, about 72.28% of total roads (excluding JRY) in the country are surfaced. Amongst the major States,

Punjab has the highest percent of surfaced road in total roads i.e. 91.56% (Chart 1.11) followed by Rajasthan (88.74%), Gujarat (88.34%), Madhya Pradesh (85.74%), Uttar Pradesh (85.09%), Tamil Nadu (83.60%) and Haryana (82.19 %). Assam (24.8%), Meghalaya (47.97%), Nagaland (50.61%), etc. are at the bottom level. 62.16% of States/UTs are having more than 72.28 % (All India Average) Surfaced Road.

**Chart 1.12: Percent share of Surfaced Road to Total Road Length across State/UTs as of 31<sup>st</sup> March, 2020**



1.18. Share of Surfaced Road to Total Road is the lowest in Assam i.e. only 24.8% followed Meghalaya (48.0%). For other

North Eastern States, more than fifty percent of roads are surfaced as of 31<sup>st</sup> March, 2020.

**Table 1.8: Total Road and Surfaced Road in North Eastern States as of 31<sup>st</sup> March, 2020**

States	Total Road (in km)	Surfaced (in km)	Surfaced as % of Total Road
Arunachal Pradesh	52,916	37,357	70.6
Assam	4,50,290	1,11,771	24.82
Manipur	32,694	19,249	58.88
Meghalaya	44,241	21,221	47.97
Mizoram	19,418	11,557	59.52
Nagaland	37,844	19,155	50.61
Sikkim	12,296	9,473	77.04
Tripura	35,340	28,452	80.51

**INDICATORS OF ROAD INFRASTRUCTURE**

1.19 Road density of country, is defined as average road length per 1000 Km, depicting an increasing trend since 2011 - 12 (**Table 1.9**). This indicate an

improvement of the quality and strength of public transportation system in the country.

**Table 1.9: Trends in Road Density**

Indicators	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
<b>All India Road Density</b>									
Per 1000 Km <sup>2</sup>	1,422.63	1,479.98	1,591.47	1,664.55	1,704.44	1,793.99	1,890.75	1,926.02	1,934.62
Per 1000 Population	3.86	4.02	4.32	4.52	4.63	4.87	5.13	5.23	5.25
<b>Urban Road Density</b>									
Per 1000 Km <sup>2</sup>	4,026.12	4,540.68	4,364.10	4,568.18	4,985.04	5,148.88	5,223.78	5,296.30	5,363.16
Per 1000 Population	1.09	1.23	1.18	1.24	1.35	1.4	1.42	1.44	1.45
<b>Rural Road Density</b>									
Per 1000 Km <sup>2</sup>	886.61	915.12	1,018.75	1,076.02	1,268.86	1,343.53	1,421.77	1,458.10	1,449.62
Per 1000 Population	3.3	3.41	3.79	4	4.72	5	5.29	5.42	5.39

*Note: Population and area is as per 2011 census and road length is as on 31/3/2020*

1.20 Road density/availability has increased from 1,422.63 per 1000 Sq. Km in 2011-12 to 1,934.62 per 1000 Sq. Km in 2019-20, registered a growth of about 35.98% corresponding to same period in 2011-12. For Rural area, it has increased from

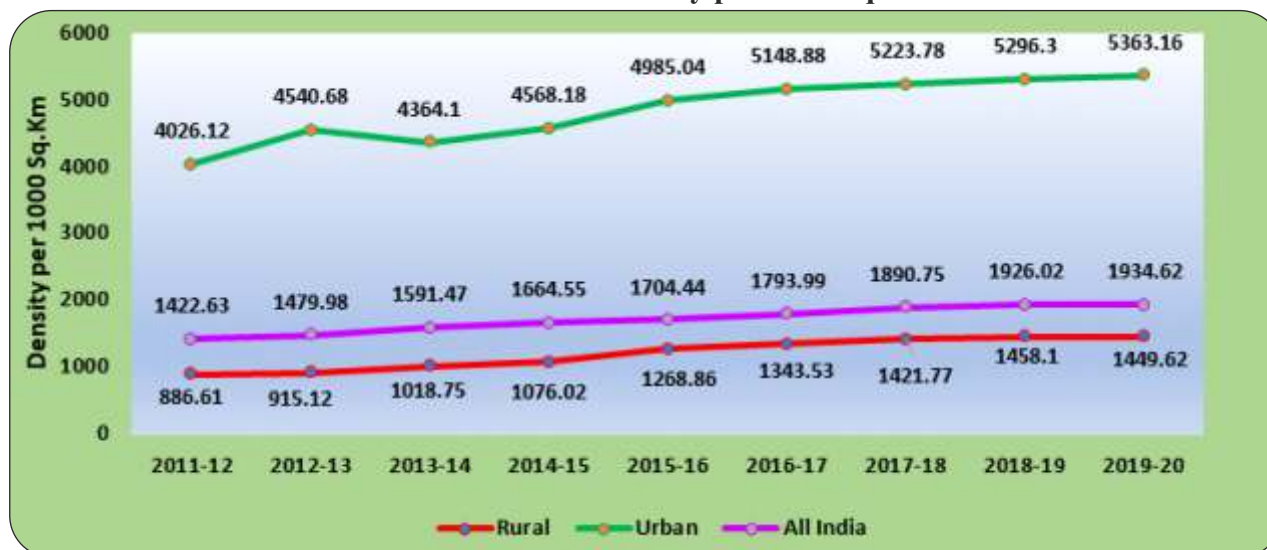
886.61 per 1000 Sq. Km 2011-12 to 1,449.6 per 1000 Sq. in 2019-20 and for the urban area it increased from 4,026.12 per 1000 Sq. Km to 5,363.2 per 1000 Sq. Km respectively for the same period. Similarly, availability of roads per 1000



population is increasing over the years as shown in Table 1.9, where it has increased from 3.86 per 1000 population in 2011-12 to 5.25 per 1000 population in 2019-20. There is corresponding increase in the availability of roads in rural and urban area. It is worthwhile to note that density

of road per 1000 population increased significantly in rural area is due to the impact of PMGSY and other schemes of Government of India initiated specifically for development of rural roads network (Chart 1.13).

**Chart 1.13: Road Density per 1000 Sq. Km**



**Chart 1.14: Road Density in Km per 1000 Population**



## ROAD DENSITY ACROSS STATE/UTs

1.21 State wise distribution of road density per 1000 Sq. Km as on 31<sup>st</sup> March, 2020 is at Annexure 7.9b indicates, Chandigarh's

road density (22,734.34 per 1000 Sq. Km) stands out be highest followed by Delhi (11,993.56 Km per 1000 Sq. Km),

Puducherry (11,370.5 Km per 1000 Sq. Km), Lakshadweep (7,425.33 Km per 1000 Sq. Km) and Kerala (6,650.24 Km per 1000 Sq. Km). Similarly, with respect to NH density presented in the **Annexure 7.9b**, Chandigarh (134 Km per 1000 Sq. Km) has highest NH density followed by Dadra And Nagar Haveli (120.2 Km per 1000 Sq. Km), Delhi (105.9 Km per 1000 Sq. Km), Nagaland (93.4 Km per 1000 Sq. Km) and Tripura 81.4 Km per 1000 Sq. Km). The availability of roads per 1000 Sq. Km is comparably higher in Union

Territories. State Highways density amongst all States/UTs, Daman & Diu (198.2 Km per 1000 Sq. Km) has the highest SH density followed by Kerala (106.20 Km per 1000 Sq. Km), Maharashtra (104 Km per 1000 Sq. Km), Karnataka (101.5 Km per 1000 Sq. Km) and Tripura (100.8 Km per 1000 Sq. Km) (**Annexure 7.9b**). The Category wise distribution of Road Density per 1000 Sq. Km. for Top Five States/UTs is presented in the **Table 1.10**.

**Table 1.10: The Category wise Road Density per 1000 Sq. Km. for Top Five States/UTs as on 31<sup>st</sup> March, 2020**

Sl. No.	National Highways	State Highways	Rural Roads	Urban Roads	Project Roads
1	Chandigarh (134)	Daman & Diu (198.2)	Lakshadweep (7,280.00)	Chandigarh (21,794.30)	Assam (362.56)
2	Dadra And Nagar Haveli (120.2)	Arunachal Pradesh -161.2	Puducherry (5,164.21)	Delhi (10,682.88)	Punjab (264.32)
3	Delhi (106)	Kerala (106)	Assam (5138.16)	Puducherry (5,321.26)	Kerala (238.26)
4	Nagaland (93.4)	Maharashtra (104)	Kerala (4,862.84)	West Bengal (1,071.09)	Delhi (235.68)
5	Tripura (81)	Karnataka (101.5)	Goa (4,297.61)	Kerala (742.78)	Gujarat (206.59)

*Note: Excludes JRY Roads*

1.22 Amongst North Eastern States, Assam with 5,740.71 Km has the highest Road density followed by Tripura (3,370.22 Km) and Nagaland (2,282.68 Km). However, Nagaland has the largest

National highway density (93.4 Km) followed Tripura (81.4 Km) and Manipur (78.4 Km). Rural road network in north eastern State relatively better as compared to other categories of road.

**Table 1.11: The Category wise Road Density per 1000 Sq. Km. for North Eastern States as on 31<sup>st</sup> March, 2020**

North East States	National Highways	State Highways	District Roads	Rural Roads	Urban Roads	Project Roads	Total Road Density
Assam	49.8	32.3	78	5,138.16	79.9	362.56	5,740.71
Tripura	81.4	100.8	44	2,903.47	104.51	136.06	3,370.22
Nagaland	93.4	39.2	309	1,704.94	77.63	58.17	2,282.68
Meghalaya	51.5	36.1	208	1,621.55	28.53	27.01	1,972.50
Sikkim	65.2	93.4	207	1,204.95	13.74	148.39	1,732.75
Manipur	78.4	35	139	1,149.45	10.58	52.27	1,464.31
Mizoram	67.5	8.1	99	683.74	1.06	61.88	921.11
Arunachal Pradesh	30.3	161.2	111	273.35	1.3	54.94	631.89

*Note: Excludes JRY Roads*

1.23 Amongst States, Arunachal Pradesh has the highest road length per 1000 population with 38.24 Km per 1000 population followed by Sikkim with 20.14 Km per 1000 population and Nagaland with 19.13

Km per 1000 population (**Annexure 7.9c**). Category wise distribution of Road Length per 1000 population for Top Five States in the Table 1.12.

**Table 1.12: The Category wise Road Density per 1000 Population for Top Five States/UTs as on 31<sup>st</sup> March, 2020**

Sl. No.	National Highways	State Highways	District Roads	Rural Roads	Urban Roads	Project Roads
1	Arunachal Pradesh (1.83)	Arunachal Pradesh (9.76)	Arunachal Pradesh (6.71)	Arunachal Pradesh (16.54)	Chandigarh (2.35)	Arunachal Pradesh (3.32)
2	Mizoram (1.30)	Sikkim (1.09)	Nagaland (2.59)	Nagaland (14.29)	Puducherry (2.09)	Sikkim (1.72)
3	Andaman & Nicobar Island (0.87)	Andaman & Nicobar Island (0.67)	Sikkim (2.41)	Sikkim (14.00)	West Bengal (1.04)	Jammu & Kashmir (1.50)
4	Nagaland (0.78)	Uttarakhand (0.44)	Mizoram (1.90)	Mizoram (13.14)	Delhi (0.94)	Mizoram (1.19)
5	Sikkim (0.76)	Nagaland (0.33)	Jammu & Kashmir (1.57)	Assam (12.92)	Kerala (0.86)	Himachal Pradesh (1.10)

*Note: Excludes JRY Roads*

## QUALITY

1.24 The road transport sector in India has expanded manifold in more than seventy years after independence, both in terms of spread (total road length & road density) and capacity (No. of registered vehicles on road and the volume of passenger and freight traffic handled). The total road length has increased from 4.0 lakh Km. as on 31.03.1951 to about 63.60 lakh Km as on 31.03.2020. The total length of National Highways has increased from 19,811 Km to 1,32,995 Km increase of more than 6 times during the same period **(Table 1.2).**

1.25 Road Density, may be considered as an indicator of accessibility of road per thousand Km, which has increased not only for All India but for Rural and Urban areas as well (Table 1.9). The total road density per 1000 sq. Km has increased from 1,422.63 in 2011 to 1934.62 in 2020. Correspondingly, Rural and Urban road density has increased from 2011-12 to 2019-20 (Table 1.9). Similarly, road density per 1000 population increased from 3.86 in 2011 to 5.25 in 2020.

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## Section - 2



## Section - 2

### NATIONAL HIGHWAYS

2.1 The road network is the backbone of the transport system in India and it is very well integrated with the multi-modal system of transportation. In the road sector, the National Highways are the predominant mode of transportation with road network of 1,32,995 Km as on 31<sup>st</sup> March, 2020. Though National Highways constitute about 2.09 % of the Road Network of the country, these NHs carry nearly one third of total traffic on road. National Highways running through the length and breadth of the country connecting capitals of States and UTs, major ports, rail junctions, industrial and tourist centres and link up with border roads and highways of neighbouring countries. Highways facilitate, conveyance of people, goods, raw-materials, manufactured articles etc. speedily and easily in the different parts of a country. National Highways are also feeders to railways, shipping and air traffic.

2.2 The Ministry of Road Transport and Highways (MoRTH) is mandated with the construction, development and maintenance of the National Highways (NH). The Ministry is progressing towards provision of improved service access to citizens with quality and efficiency in service delivery, transparency in the system and reduced workload for RTO staff. MoRTH implements National Highways projects/ flagship schemes through the agency of

National Highways Authority of India Ltd (NHAI), National Highways Infrastructure Development Corporation Ltd. (NHIDCL), State PWDs (2 lane NH) & Border Roads Organization etc. Ministry is also responsible for administration of National Highways Act, 1956, National Highways Authority of India Act, 1988, National Highways Fee (Determination of Rates and Collection) Rules, 2008, Motor Vehicles Act. 1988 and Central Motor Vehicles Rules 1989, formulation of broad policies relating to road transport, environmental issues, automotive norms etc. besides arrangements for movement of vehicular traffic with neighbouring countries.

2.3 At present, projects of widening to 4-lane NH configurations or more and Expressways under Bharatmala Pariyojna (Phase-I) and other Schemes have been assigned to the NHAI. The projects of development to 2-lane NH configurations, with or without paved shoulders are primarily being assigned to the State Governments, viz. State PWDs, State Road Construction Departments/ Corporations, etc. The Projects under Special Accelerated Road Development Programme for North-Eastern Region (SARDP-NE), including Arunachal Pradesh Package of Roads, are primarily assigned to NHIDCL. Further, NHIDCL is also being assigned projects under other Schemes in hill States

including States in the North East Region, the three hill States in North-West Region

and the Andaman & Nicobar Islands.

## NATIONAL HIGHWAYS – PROFILE OF 2020 vis-à-vis 2019

2.4 India's road network (including highways) is one of the most extensive road networks in the world with 63.60 lakh kilometre as on 31<sup>st</sup> March 2020. With the proactive policy initiatives in the sector, the road network has continuously been expanding in the country. The total road network consists of about 1.33 lakh Km of National Highways, 1.78 lakh Km of State Highways and 60.48 lakh Km of Other Roads (which include District Roads, Rural Roads, Urban Roads and Project Roads). In percentage term, National Highways, State Highways and Other Roads constitute 2.09%, 2.81% and

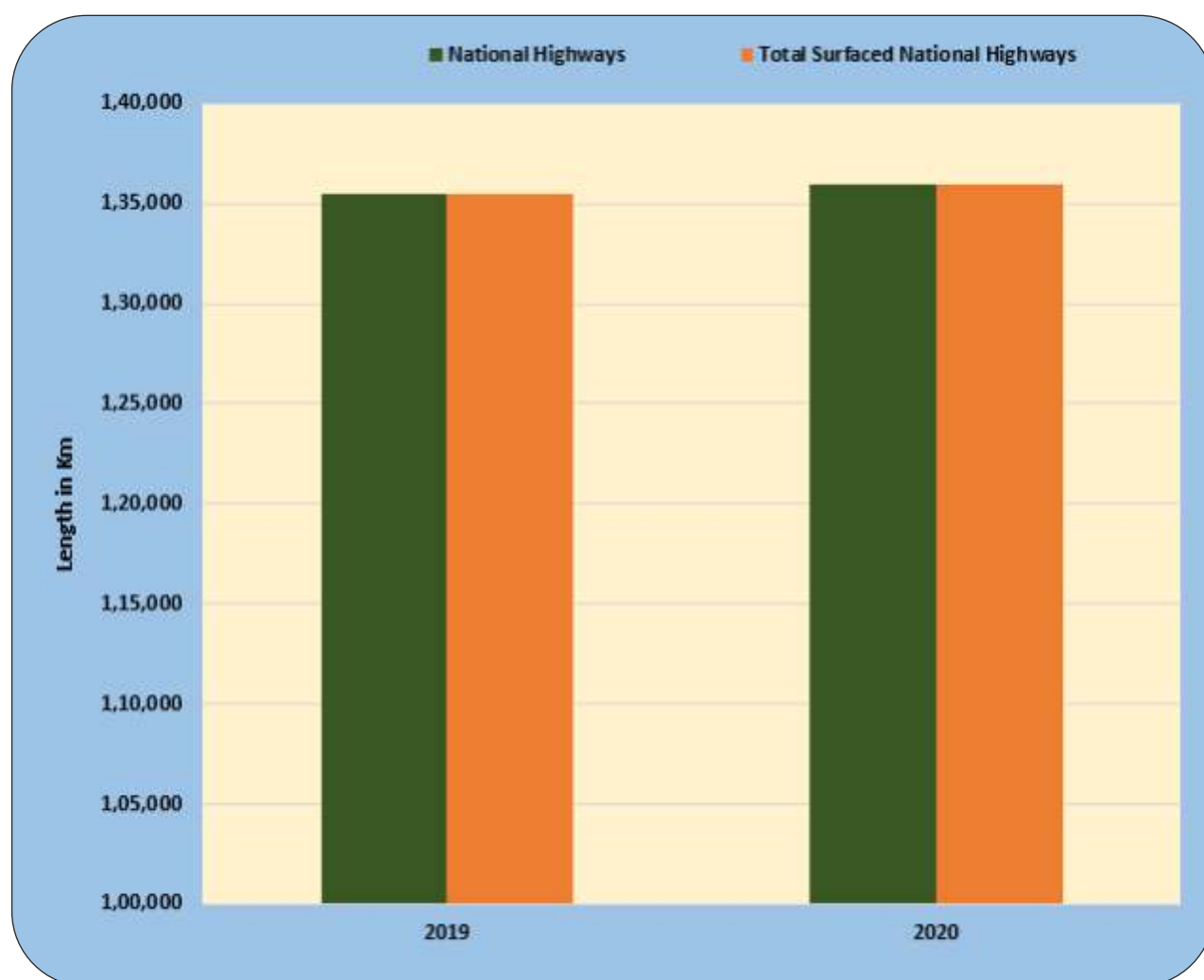
95.10% respectively in total road network. The total length of National Highways has increased from 1,32,499 Km in 2019 to 1,32,995 Km in 2020, recorded an increase of 0.37% on an average relative to the corresponding previous period (Table 2.1). For the third consecutive year in 2020, National Highways in the country are fully surfaced (Table 2.1 and Chart 2.1). Major programmes initiated by MoRT&H for development of National Highways network in the country is given at Section 8 of this report.

**Table 2.1: National Highways and Total Surfaced National Highways 2020 vis-à-vis 2019**

	As on March, 2019 (Km)	As on March, 2020 (Km)	% change in 2020 over 2019
Total Length (NH)	1,32,499	1,32,995	0.37
% Share in Total Road	2.09	2.09	
Surfaced NH	1,32,499	1,32,995	0.37
% Share of Surfaced Road	100	100	

*Data source: Planning Division, MoRTH*

**Chart 2.1: National Highways and Total Surfaced National Highways**



## **NATIONAL HIGHWAYS NETWORK**

2.5 There has been a consistent increase in the construction of National Highways/roads since 1950-51, increasing from 19,811 Km of roads in 1950-51 to 1,32,995 Km of roads in 2019-20, i.e. recorded more than six times increase in 69 years. The proactive policy interventions of Ministry of Road Transport and Highways on development of National Highways constitutes among the major possible

factors responsible for widening NHs network in the country. The total length of National Highways as on 31.03.2020 was 1,32,995 Km, registered increase of 0.37% corresponding to same period last year. However, percentage share of National Highways in the total road network has been declined from 4.95% in 1950-51 to 2.09% in 2019-20 (**Table 2.2**).

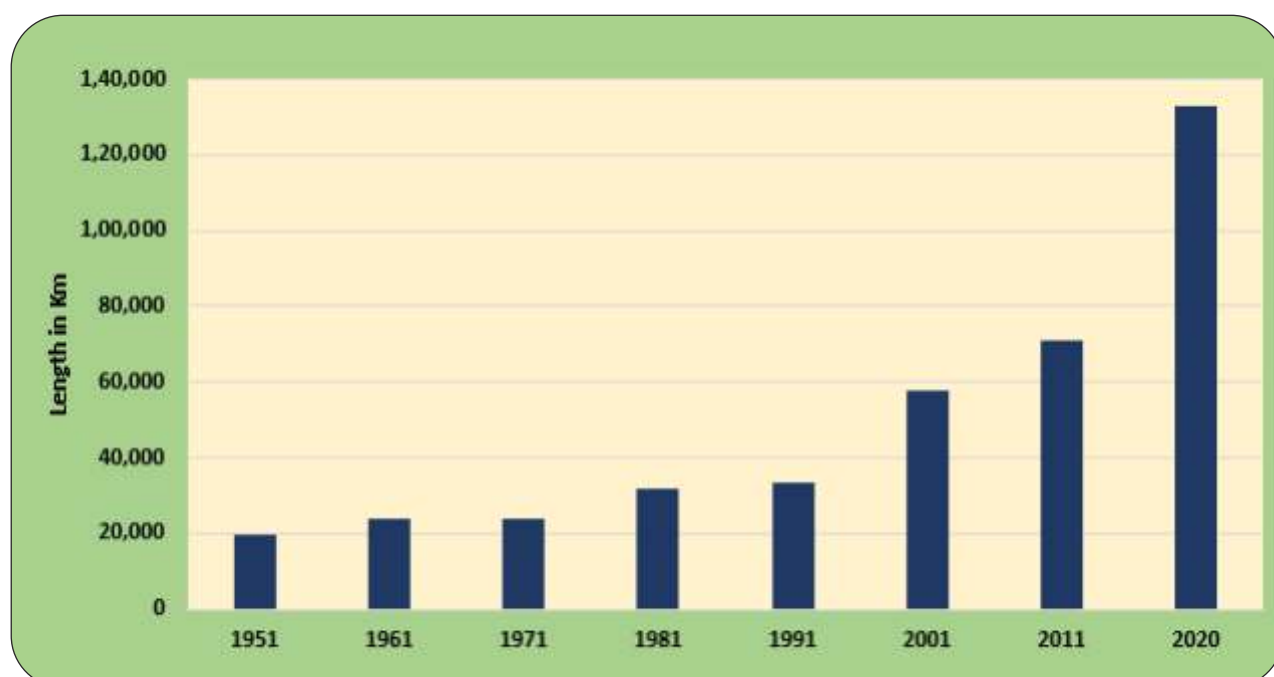
**Table 2.2: National Highways Network (1950-51 to 2019-20)**

Year	National Highways* (in Km)	Total Road Length <sup>#</sup> (in Km)	% share of NH in total road network
1950-51	19,811	3,99,942	4.95
1960-61	23,798	5,24,478	4.54
1970-71	23,838	9,14,979	2.61
1980-81	31,671	14,85,421	2.13
1990-91	33,650	23,27,362	1.45
2000-01	57,737	33,73,520	1.71
2010-11	70,934	46,76,838	1.52
2015-16	1,01,011	56,03,293	1.8
2016-17	1,14,158	58,97,671	1.94
2017-18	1,26,350	62,15,797	2.03
2018-19	1,32,499	63,31,757	2.09
2019-20	1,32,995	63,60,004	2.09

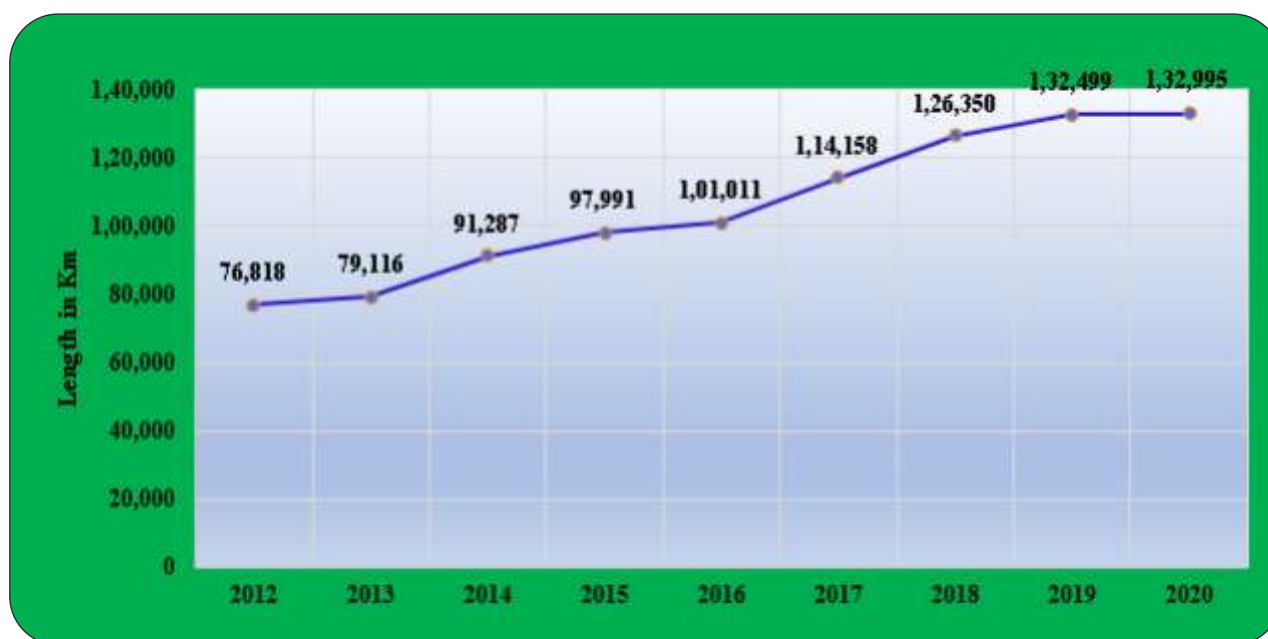
\* Include Expressways

# Include JRY

**Chart 2.2: Decadal trend of Length of NH from 1951 to 2020**



**Chart 2.3: Trend of Length of NH from 2012 to 2020**



*Note: NH Include Expressways*

2.6 The National Highway Authority of India (NHAI) was set up as a Special Vehicle in 1997 for the development of highways in the country through National Highways Development Programme (NHDP). Further, NHDP has been implemented through 7 phases from 1998 to 2017 with target of construction of 55,000 Km of roads. As a result of this innovative programme, National Highways network in

the country has entered in to a new era of strengthening and enlarging quality of public transportation system. Since 2000-01, there has been consistent increase in the construction of National Highways. Bharatmala Pariyojana the new umbrella programme for highways sector contributed to bridge the critical infrastructural gaps in the road sector.

## **AWARD /CONSTRUCTION OF NATIONAL HIGHWAYS**

2.10 The year wise details on Award and construction of National Highways are presented in Table 2.3 Award and construction of NHs has been on increase since 2014-15. However, award of NHs fell to 5,494 Km in 2018-19 from 17,054 Km in 2017-18 but again in 2019-20 it increased to 8,948 Km, registering an increase of 62.86% year on year. Whereas, construction of road has slightly decreased

from 10,855 Km in 2018-19 to 10,237 Km in 2019-20, recorded a decline of 5.7% relative to corresponding previous period. In the year 2019-20, 10,237 Km of national highways were constructed. The extent of road construction per day decreased in 2019-20 to 28 Km per day from 30 Km per day in 2018-19.



**Table 2.3: Award of NHs/Road Projects and Construction of NHs/ Road Projects**

Item	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Awarded Length (Km)	7,972	10,098	15,948	17,054	5,494	8,948
% change over previous period	149.44	26.67	57.93	6.94	-67.78	62.87
Length Constructed (Km)	4,410	6,061	8,231	9,829	10,855	10,237
% change over previous period	3.52	37.44	35.8	19.41	10.44	-5.69
Road Constructed per day (Km)	12.08	16.6	22.55	26.92	29.73	28.04

Data source: Planning Division, MoRTH

## FUND ALLOCATION AND EXPENDITURE

2.11 Details of fund allocated and expenditure incurred for Development and Maintenance of National Highways during FY 2012-13 to 2019-20 is present in the Table 2.4. There has been significant upturn in road construction expenditure, is a reflection of the impetus given by the Government of

India to critical sector that generates employment and supports infrastructure. Total investment in the Roads and Highway sector has gone up more than three times in the eight years period from FY 2012-13 to FY 2019-20 (Table 2.4), which also led to increased road density across the states.

**Table 2.4: Fund Allocation and Expenditure for Development and Maintenance of National Highways (Rs. in Crore)**

Year	Allocation <sup>#</sup>		Expenditure						Allocation as % of Expenditure
	Allocation	YoY Growth	Private	YoY Growth	Public*	YoY Growth	Total	YoY Growth	
2013-14	55,290	-	22,515	-	30,386	-	52,901	-	95.68%
2014-15	54,159	-2.05%	19,232	-14.58%	30,315	-0.23%	49,547	-6.34%	91.49%
2015-16	1,16,132	114.43%	29,770	54.79%	66,380	118.97%	96,140	94.04%	82.79%
2016-17	1,30,351	12.24%	16,029	-46.16%	76,247	14.86%	92,276	-4.02%	70.79%
2017-18	1,44,864	11.13%	16,501	2.94%	1,02,869	34.92%	1,19,370	29.36%	82.40%
2018-19	1,57,742	8.89%	21,605	30.93%	1,29,701	26.08%	1,51,423	26.85%	95.99%
2019-20	1,74,767	10.79%	21,926	1.49%	1,43,267	10.46%	1,65,224	9.11%	94.54%

# - including Internal and Extra Budgetary Resources (IEBR) Target and Private Investment Target

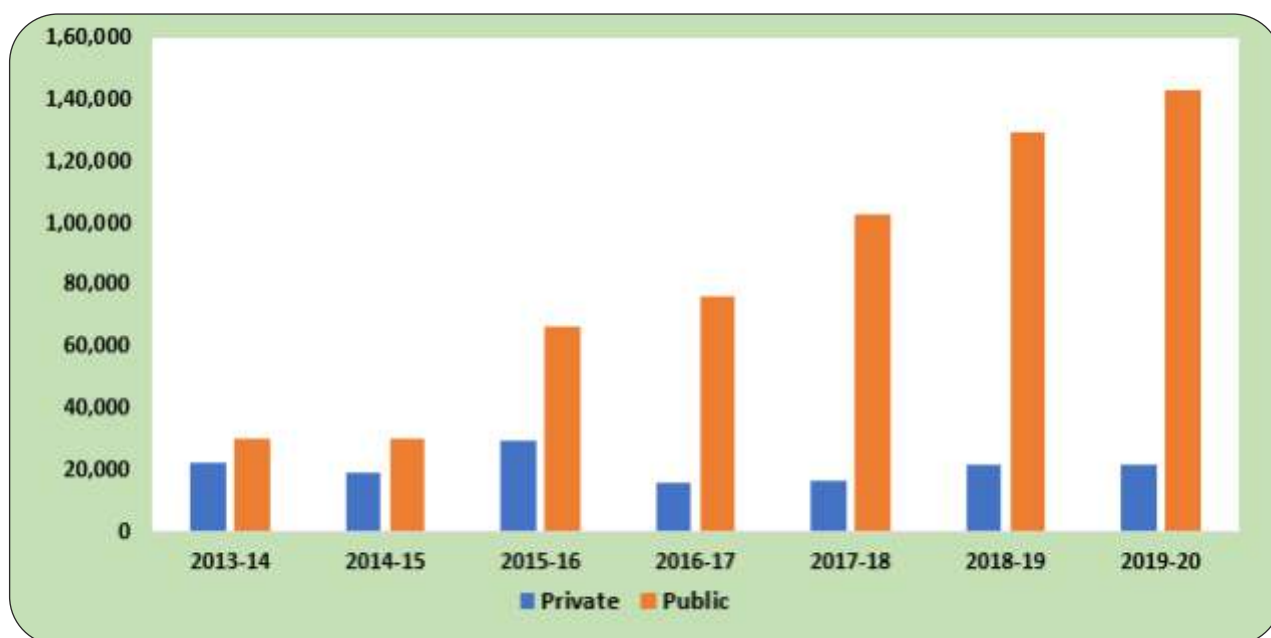
\*-including IEBR raised

## MAINTENANCE OF NATIONAL HIGHWAYS (Rs. in Crore)

**Chart 2.4: Fund Allocation and Expenditure for construction of National Highways**



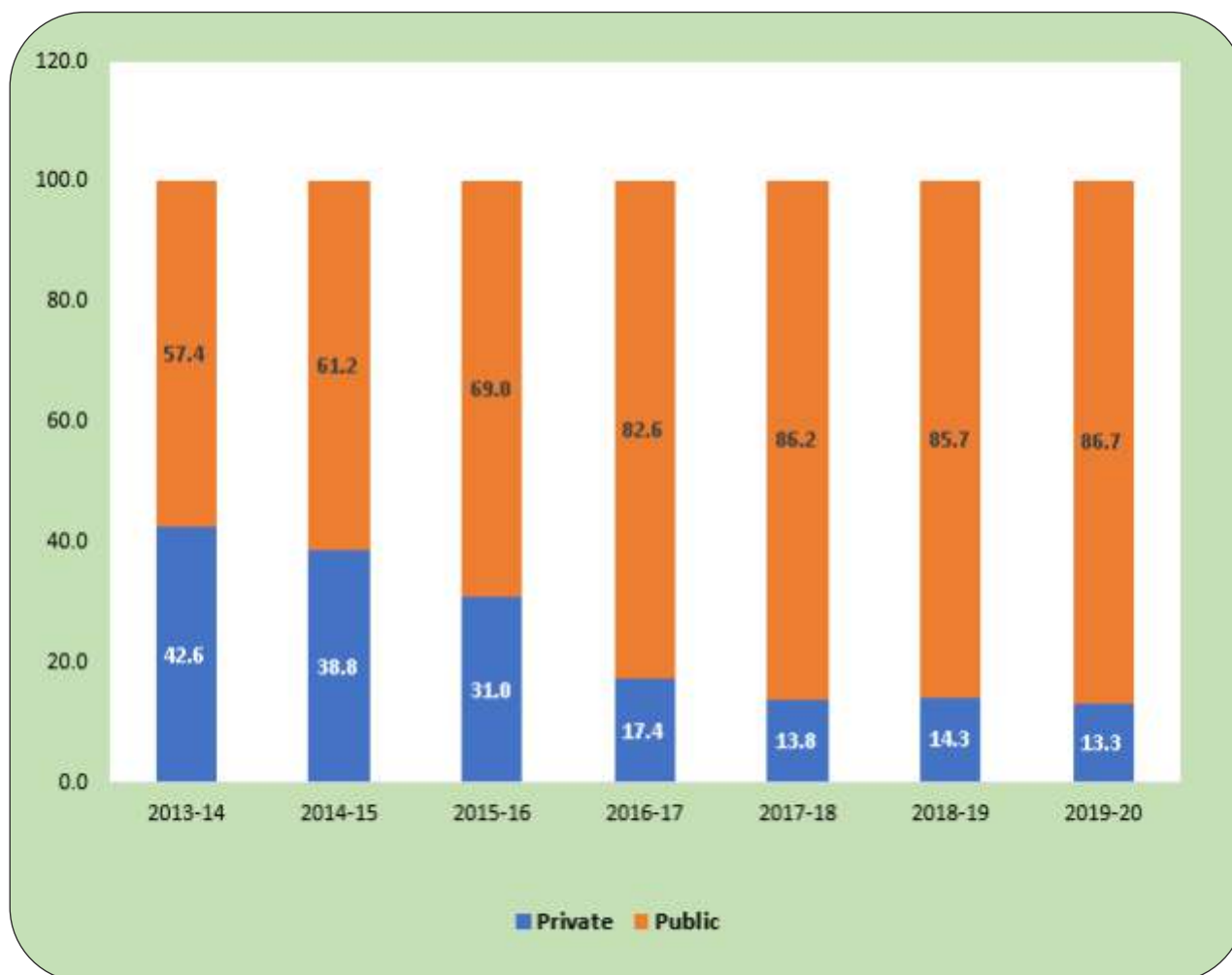
**Chart 2.5: Public and Private Expenditure for construction of National Highways**



2.12 Chart 2.6 reveals share of public investment in road sector has been increasing during the period 2012-13 to 2019-20, whereas that of private sector has been declining. Similarly, private investment's share to total investment

has drastically declined to 13.3 % in 2019-20 from 42.6% in 2013-14, whereas during the same period, share of public investment increased to 86.7 % from 57.4 %

**Chart 2.6: Private and Public Investment in Total Investment (in percent)**



#### **NATIONAL HIGHWAYS NETWORK: STATE/UT WISE BREAK-UP**

2.13 State/UT's share of National Highways amongst other factors depends on the geographical area. Top 5 States shares 42.18% of total National Highways network in the country during 2019-20. Maharashtra has the highest NH network in 2019-20 with 17,931 Km (13.48%) followed by Uttar Pradesh and Rajasthan

with 11,708 Km (8.80%) and 10,342 Km (7.78 %) respectively (Table 2.5 and Chart 2.7). Madhya Pradesh with 8,772 Km (6.60%) and Karnataka 7,335 Km (5.52%) rank fourth and fifth respectively. The State/UT wise break-up of length of National Highways is at **Annexure 2.1**.

**Table 2.5: State/Us-wise length of National Highways as on 31<sup>st</sup> March, 2020 (Km)**

Sl. No.	Name of State/ UT	Length of NH	% shares in Total NH
1	Andhra Pradesh	6,913	5.2
2	Arunachal Pradesh	2,537	1.91
3	Assam	3,909	2.94
4	Bihar	5,387	4.05
5	Chhattisgarh	3,606	2.71
6	Goa	293	0.22
7	Gujarat	6,900	5.19
8	Haryana	3,166	2.38
9	Himachal Pradesh	2,607	1.96
10	Jharkhand	3,367	2.53
11	Karnataka	7,335	5.52
12	Kerala	1,782	1.34
13	Madhya Pradesh	8,772	6.6
14	Maharashtra	17,931	13.48
15	Manipur	1,750	1.32
16	Meghalaya	1,156	0.87
17	Mizoram	1,423	1.07
18	Nagaland	1,548	1.16
19	Odisha	5,762	4.33
20	Punjab	3,324	2.5
21	Rajasthan	10,342	7.78
22	Sikkim	463	0.35
23	Tamil Nadu	6,742	5.07
24	Telangana	3,795	2.85
25	Tripura	854	0.64
26	Uttarakhand	2,949	2.22
27	Uttar Pradesh	11,708	8.8
28	West Bengal	3,664	2.76
29	Andaman & Nicobar Island	331	0.25
30	Chandigarh	15	0.01
31	Dadar & Nagar Haveli	59	0.04
32	Daman & Diu	0	0
33	Delhi	157	0.12
34	Jammu & Kashmir	2,423	1.82
35	Ladakh	0	0
36	Lakshadweep	0	0
37	Puducherry	27	0.02
<b>Total</b>		<b>1,32,995</b>	<b>100</b>

*Note-All NH are surfaced, NH include expressways*

Chart 2.7: The State/UT wise network of National Highways as on 31.03.2020

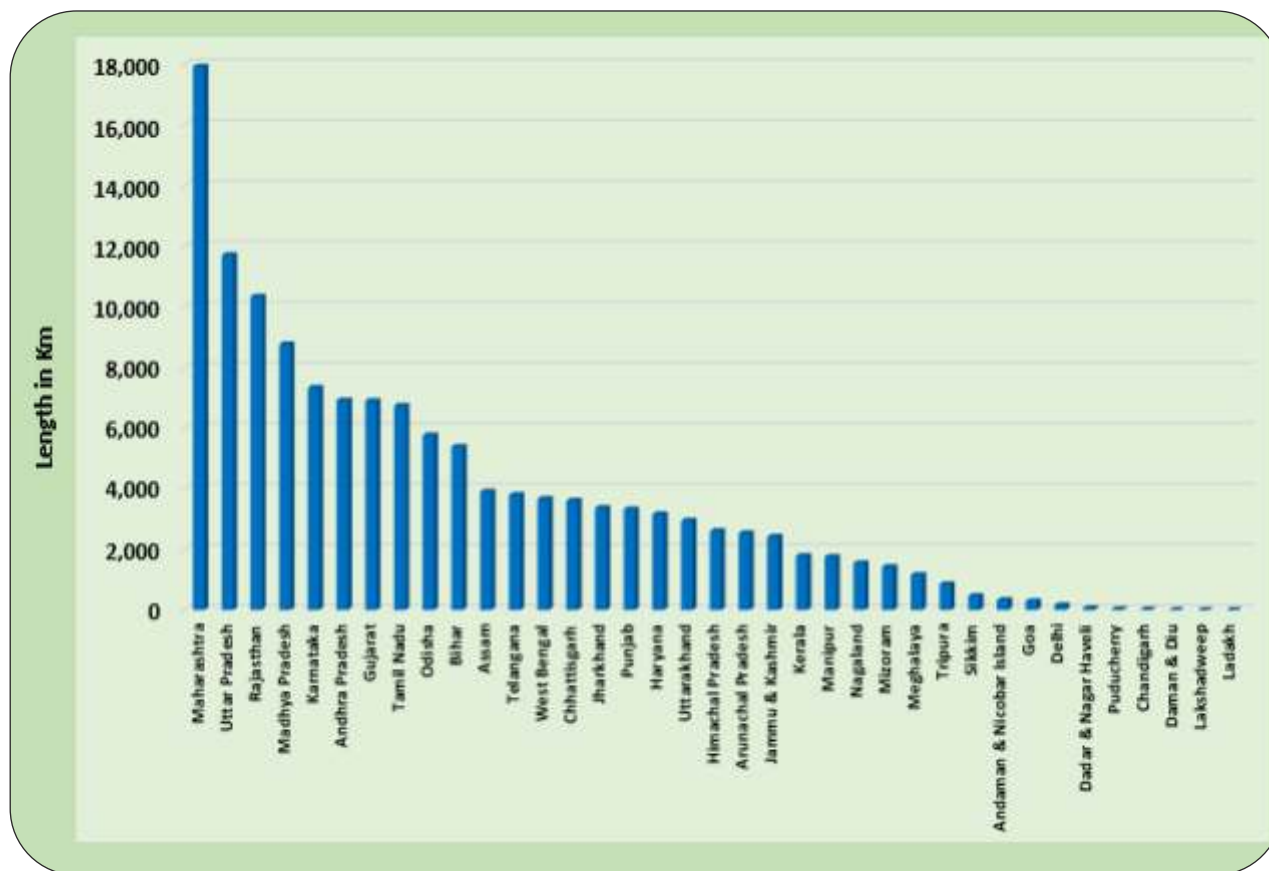
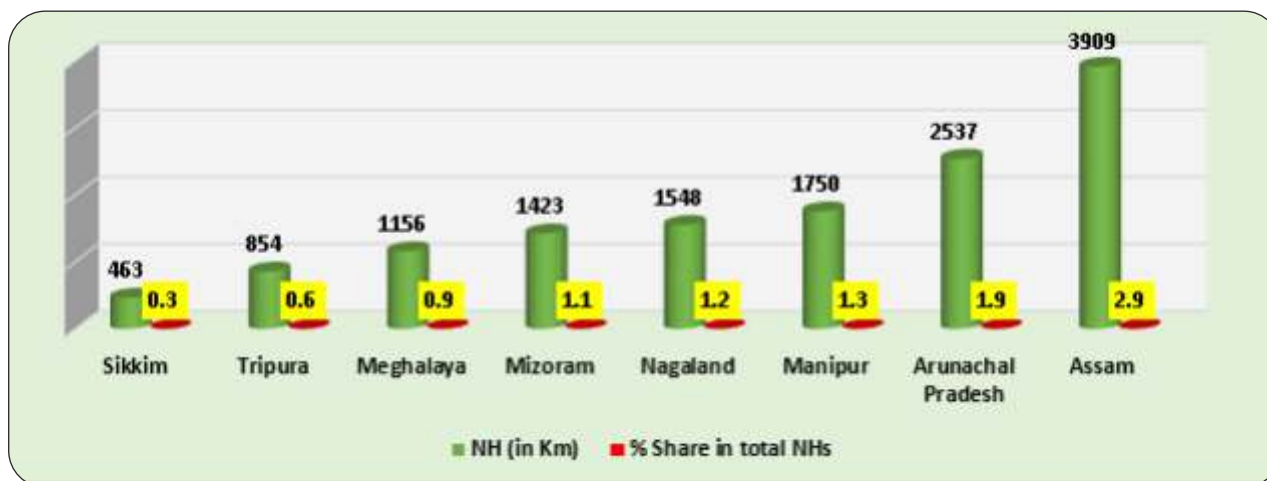


Chart 2.8: National Highways network in North Eastern States as on 31.03.2020



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## Section - 3

## Section - 3

### STATE HIGHWAYS

3.1 State Highways are constructed and managed by State Governments through the State Public Works Departments. The State Highways are usually roads that link important cities, towns and district headquarters, tourist places, minor ports and connect them with National Highways or State Highways of neighbouring states. State Highways together with major district roads contribute the secondary system of road transportation in the country.

3.2 Total State Highways constructed was 1,78,749 Km as on 31<sup>st</sup> March 2020, which constitute 2.81% of total road network in the country and 99.41% (1,77,710 Km) of SHs are surfaced (Table 3.1). However,

total length of State Highways fell by 0.44%, from 1,79,535 Km in 2019 to 1,78,749 Km as on 31.03.2020. This may be primarily due to conversion of State Highways into National Highways for better transport infrastructure and due to declaration/entrustment of State Highways as National Highways and some of the State Highways were reclassified as Major District Roads. Similarly, marginal decline recorded in the construction of surfaced roads, i.e. it decreased from 1,78,384 Km in 2018-19 to 1,77,710 Km in 2019-20, registering 0.37% decrease in 2019-20 compared to same period last year.

**Table 3.1: State Highways in 2020 vis-à-vis 2019**

Item	2018-19	2019-20	% Change in 2019-20 over 2018-19
Total Length of SH	1,79,535	1,78,749	-0.44
% Share in Total Road	2.83	2.81	
Surfaced SH	1,78,384	1,77,710	-0.37
% Share of Surfaced SH in total SH	99.36	99.41	

**Chart 3.1: Total and Surfaced State Highways**



## STATE HIGHWAYS NETWORK

3.3 Prior to 1970, State Highways were added in Districts Roads. There has been a consistent increase in the construction of State Highways/roads since 1970-71,

increasing from 56,765 Km of roads in 1950-51 to 1,78,749 Km of roads in 2019-20, i.e. recorded increase of more than 3 times in 69 years.

**Table 3.2: State Highways Network (1970-71 to 2019-20)**

Year	Length in Km	% Share in Total Roads
1970-71	56,765	6.2
1980-81	94,359	6.4
1990-91	1,27,311	5.5
2000-01	1,32,100	3.9
2010-11	1,63,898	3.5
2014-15	1,67,109	3.1
2015-16	1,76,166	3.1
2016-17	1,75,036	3
2017-18	1,86,908	3
2018-19	1,79,535	2.8
2019-20	1,78,749	2.81

**Chart 3.2: Trends of construction of State Highways from 2010 to 2020**



## STATE/UT WISE DISTRIBUTION OF STATE HIGHWAYS

3.4 Out of 1,78,749 Km of State Highways constructed in 2020, 1,77,710 Km (99.41%) of SH were surfaced. Majority of the States have fully surfaced State Highways (Chart 3.3). Maharashtra has the highest share of State Highways network in the country i.e. 17.90% (31,992 Km) followed by Karnataka 10.89% (19,469 Km), Gujarat

9.26% (16,557 Km), Rajasthan 8.48 % (15,165 Km) and Andhra Pradesh 7.55% (13,500 Km). These five States accounted for about 54.09 % of the total length of SHs in the country. State/UT-wise break-up of State Highways is given in the following table 3.3.

**Table 3.3: State wise break up of State Highways and Surfaced SH**

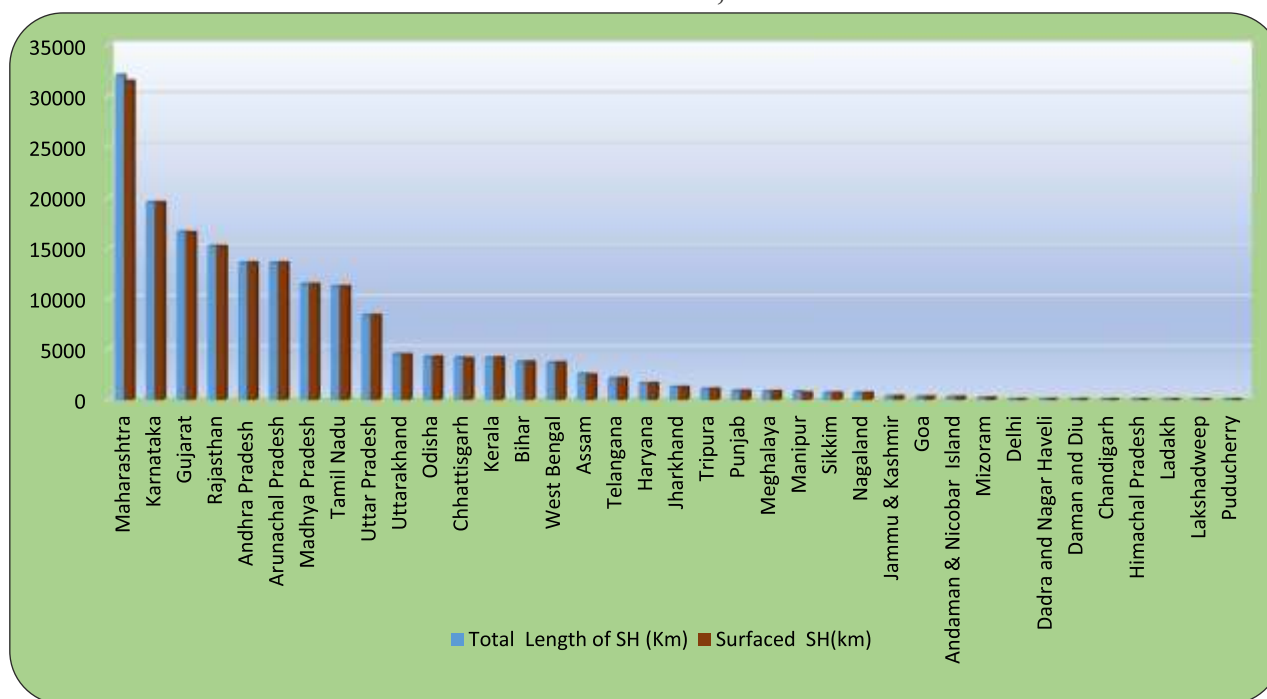
Sl.No.	Name of State / UT	Total length of SH (in Km)	Share in Total SH(%)	Surfaced SH (in Km)	% of Surfaced SH in total SH
1	Andhra Pradesh	13,500	7.55	13,500	100
2	Arunachal Pradesh\$	13,500	7.55	13,500	100
3	Assam	2,530	1.42	2,452	96.92
4	Bihar	3,714	2.08	3,714	100
5	Chhattisgarh	4,137	2.31	4,059	98.11
6	Goa	279	0.16	279	100
7	Gujarat	16,557	9.26	16,490	99.6
8	Haryana	1,602	0.9	1,602	100
9	Himachal Pradesh	0	0	0	0
10	Jharkhand	1,232	0.69	1,232	100
11	Karnataka	19,469	10.89	19,446	99.89
12	Kerala	4,128	2.31	4,128	100
13	Madhya Pradesh	11,389	6.37	11,389	100
14	Maharashtra	31,992	17.9	31,394	98.13
15	Manipur	781	0.44	661	84.67
16	Meghalaya	809	0.45	809	100
17	Mizoram	170	0.1	170	100
18	Nagaland	650	0.36	650	100
19	Odisha	4211	2.36	4211	100
20	Punjab	859	0.48	859	100
21	Rajasthan	15,165	8.48	15,128	99.76
22	Sikkim	663	0.37	663	100
23	Tamil Nadu	11,169	6.25	11,169	100
24	Telangana	2,087	1.17	2,085	99.9
25	Tripura	1,057	0.59	1,057	100
26	Uttarakhand	4,469	2.5	4,432	99.18
27	Uttar Pradesh	8,322	4.66	8,322	100
28	West Bengal	3,646	2.04	3,646	100
29	Andaman & Nicobar Island	257	0.14	257	100
30	Chandigarh	9	0	9	100
31	Dadra & Nagar Haveli	30	0.02	30	100
32	Daman & Diu	22	0.01	22	100
33	Delhi	34	0.02	34	100
34	Jammu & Kashmir#	310	0.17	310	100
35	Ladakh	0	0	0	0
36	Lakshadweep	0	0	0	0
37	Puducherry	0	0	0	0
	<b>Total</b>	<b>1,78,749</b>	<b>100</b>	<b>1,77,710</b>	<b>99.41</b>

State Highways are constructed by State PWD/ Roads & Bridges Depts.

# Data as on 31.03.2018

\$ Clarification pending

**Chart 3.3: State/UT wise break up of total and surfaced State Highways as on 31<sup>st</sup> March, 2020**



3.5 Out of total length of State Highways roads (1,78,749 Km) as on 31<sup>st</sup> March, 2020, about 99.41 % of SH roads (1,77,710 Km) were surfaced (**Annexure 3.2**). Out of total length of surfaced State Highways, Bituminous Top (BT) and Cement Concrete (CC) roads accounted for about 99.52% and the remaining 0.48% were Water Bound Macadam (WBM) roads. The State/UT-wise break up of length of State

Highways in India by type of surface is given in the **Annexure 3.2**.

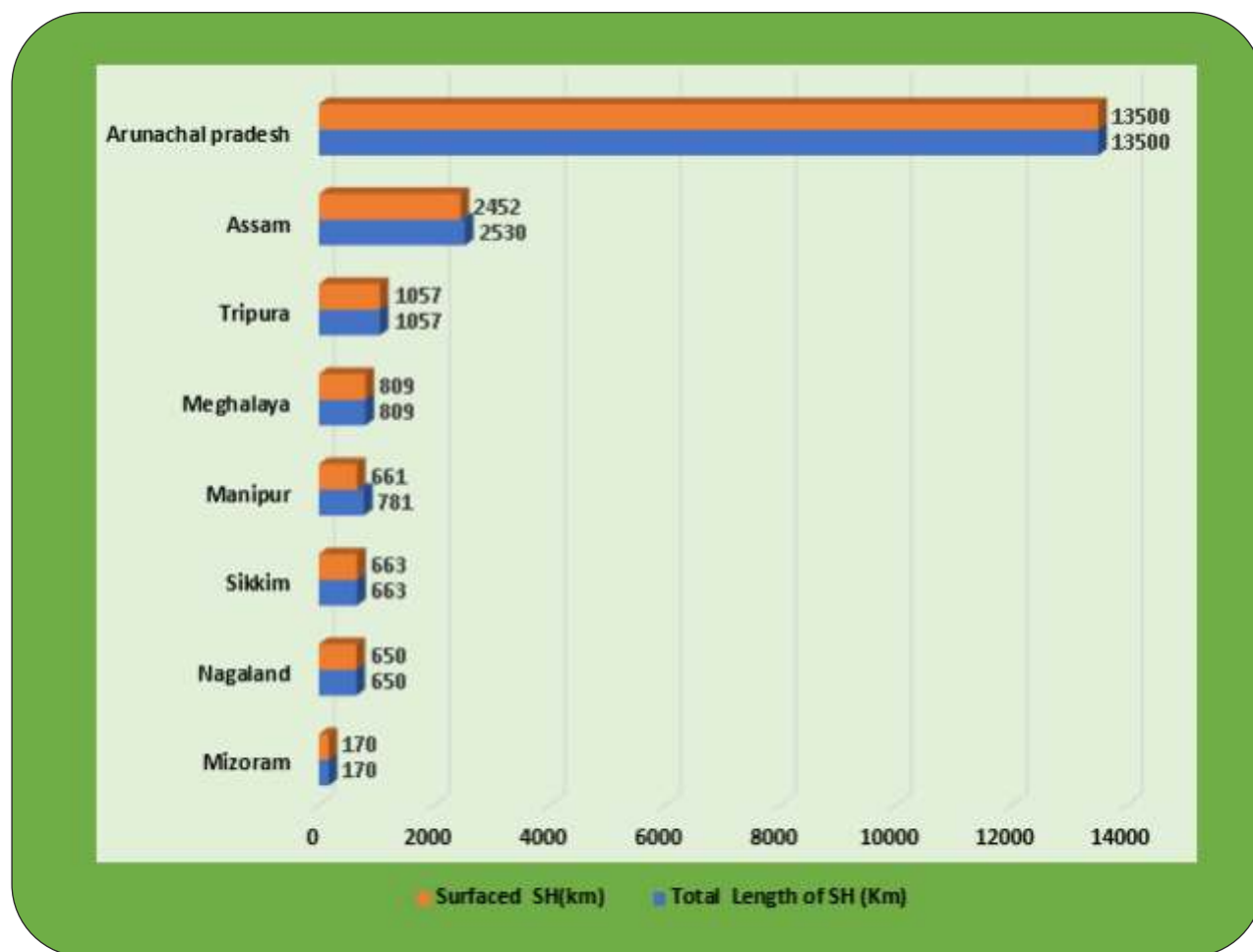
3.6. North Eastern States share 4.03% of (6,660 Km) of total States Highways network in the country as on 31<sup>st</sup> march, 2020. In North East, 99.40% (6,462 Km) of States Highways are surfaced in 2020. Assam has largest State Highways network (2530 Km) followed by Tripura (1,057 Km) and Meghalaya (809 Km).

**Table 3.4: State Highways in North Eastern States as on 31.03.2020**

Sl.No	Name of State / UT	Total Length of SH (Km)	% Share in Total SH	Surfaced SH(Km)	% of surfaced SH
1	Manipur	781	0.47	661	84.64
2	Meghalaya	809	0.49	809	100
3	Sikkim	663	0.4	663	100
4	Nagaland	650	0.39	650	100
5	Mizoram	170	0.1	170	100
6	Arunachal Pradesh <sup>\$</sup>	13500	7.55	13500	100
7	Assam	2,530	1.53	2452	96.92
8	Tripura	1,057	0.64	1057	100
<b>Total NE States</b>		<b>20,160</b>	<b>11.27</b>	<b>19962</b>	<b>99.01</b>
<b>Total SH</b>		<b>1,78,749</b>		<b>1,77,710</b>	<b>99.41</b>
<b>% Share of NE in Total SH</b>		<b>11.27</b>		<b>11.16</b>	

*Note: \$ Figure for Arunachal Pradesh pertain to roads under State PWD. Arunachal Pradesh has not yet made official classification of State Roads into State Highways, Major District Roads (MDR) and Other District Roads (ODR).*

Chart 3.4: Share of North Eastern States SH as on 31.03.2020



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## Section - 4

## Section - 4

### DISTRICT ROADS

4.1 District Roads are the strength of Rural Economy, these are key roads within a district, which connects Taluk headquarters and major rural areas to District headquarters. District Roads are constructed & maintained by Public Works Department of States and UTs. District Roads along with the State Highways, account for the secondary system of road transportation in the country. District Roads comprised of Major District Roads (MDRs) and Other District Roads (ODRs) which provide connection between District and Taluk

headquarters with the State Highways and National Highways. These roads which run within districts contribute significantly to the economy and country's industrial development by connecting areas of production with markets and enabling movement of raw materials and finished products. As per the classification of roads broadly the MDRs are to have a minimum width of 15 metres with traffic density of less than 10,000 PCUs but more than 5,000 PCUs

#### PROFILE AND TREND OF DISTRICTS ROADS

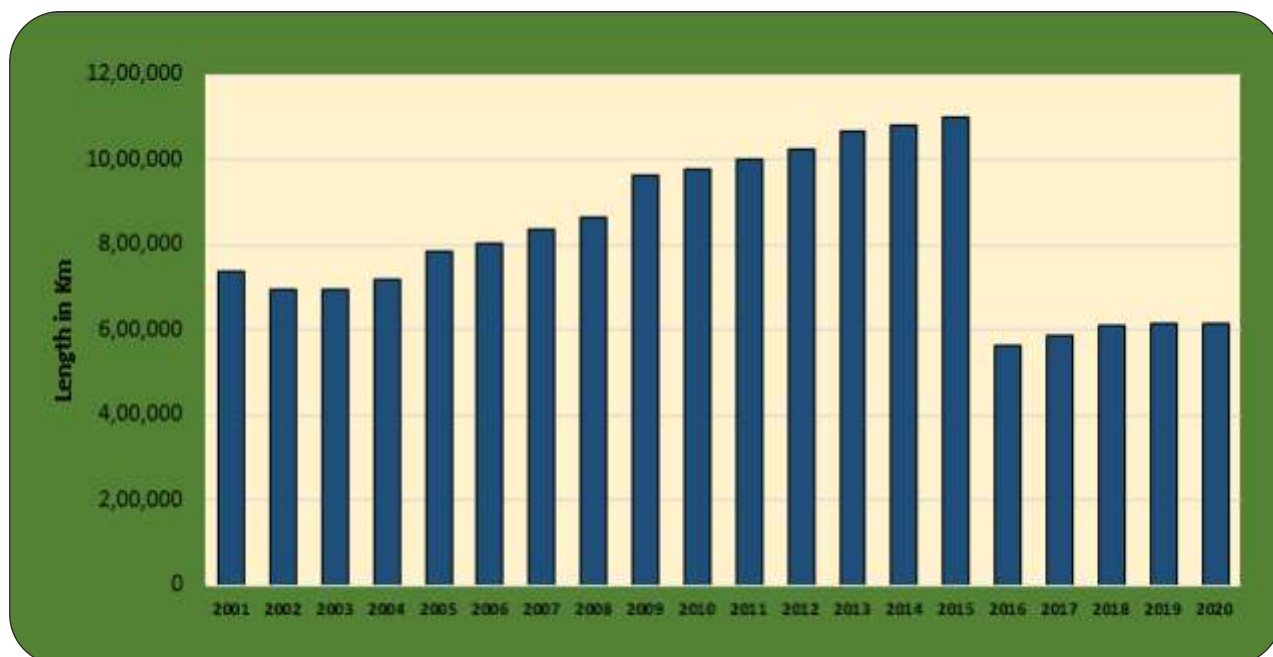
4.2 The total district road constructed was 6,16,964 Km as on 31<sup>st</sup> March 2020, of which surfaced roads constitute about 96.05% of total district road network (i.e. 5,92,587 Km). There has been consistent increase in the construction of District Roads till 2014-15, thereafter, it declined to 5,61,940 Km in 2015-16. However, total length constructed has taken upturn since 2016-17. The year 2019-20 registered an increase in construction of districts roads compared to 2018-19, road construction has increased from 6,12,778 Km in 2018-19 to 6,16,964 Km in 2019-20, registered an increase of 0.68% in 2019-20 relative to same period last year. However, per cent share of District Roads in total road length has been on decline since 1960-61 (Table 4.1). District Roads shared about 43.4%

and 49.0% of total road network in the country respectively during 1950-51 and 1960-61 (Table 4.1) and in 2020 it was 9.70%. The declining share of District Roads is due to Other PWD Roads which was part of District Roads have been divided into District Roads and Rural Roads built by State PWD/RWD. State wise details are presented at **Annexure 4.1**.

**Table 4.1: Districts Roads network (1950-51 to 2019-20)**

Year	Length(Km)	% Share in Total Roads
1950-51	1,73,723	43.4
1960-61	2,57,125	49
1970-71	2,76,833	30.3
1980-81	4,21,895	28.4
1990-91	5,09,435	21.9
2000-01	7,36,001	21.8
2010-11	9,98,895	21.4
2014-15	11,01,178	20.1
2015-16	5,61,940	10
2016-17	5,86,181	9.9
2017-18	6,11,268	9.8
2018-19	6,12,778	9.7
2019-20	6,16,964	9.7

**Chart 4.1: Construction of District Roads- (2001 to 2020)**



*Note: The declining share of District Roads from the year 2015-16 is due to the Other PWD Roads which was part of District Roads have been merged in Rural Roads built by State PWD/RWD.*

## STATE/UT WISE DISTRIBUTION OF DISTRICT ROADS

4.4 The total length of District Roads as on 31<sup>st</sup> March, 2020 was 6,16,964 Km. State-wise distribution of total Districts Roads and surfaced District Roads are presented in Table 4.2. For the second consecutive year

in 2019-20, Maharashtra topped the States in the total length of District Roads in the country with 1,10,362 Km (17.89%) followed Uttar Pradesh 55,026 Km (8.92 %), Madhya Pradesh 50,714 Km (8.22 %),

Karnataka 49,526 Km (8.03 %) and Tamil Nadu 48,236 (7.82 %) (Chart 4.2). These five States together account for 50.87 % of the total length of District Roads in India.

The details of State/UT-wise length of District Roads as on 31.03.2020 are at **Annexure 4.1**

**Table 4.2: State/UTs-wise distribution of District Road on 31<sup>st</sup> March, 2020**

Sl.No.	Name of State/UT	Total Length (Km)	Surfaced (Km)	% of Surfaced Road
1	Andhra Pradesh	32,735	31,296	95.6
2	Arunachal Pradesh	9,278	5,061	54.55
3	Assam	6,118	5,686	92.94
4	Bihar	13,475	13,475	100
5	Chhattisgarh	12,300	11,997	97.54
6	Goa	1,243	1,243	99.96
7	Gujarat	31,088	30,709	98.78
8	Haryana	22,563	22,563	100
9	Himachal Pradesh	3,738	3,696	98.88
10	Jharkhand	11,504	11,504	100
11	Karnataka	49,526	48,864	98.66
12	Kerala	25,419	25,419	100
13	Madhya Pradesh	50,714	50,714	100
14	Maharashtra	1,10,362	1,01,258	91.75
15	Manipur	3,095	2,164	69.91
16	Meghalaya	4,661	3,941	84.54
17	Mizoram	2,084	1,918	92.01
18	Nagaland	5,129	2,913	56.79
19	Odisha	21,622	20,791	96.16
20	Punjab	7,208	7,208	100
21	Rajasthan	24,704	24,227	98.07
22	Sikkim	1,469	732	49.87
23	Tamil Nadu	48,236	48,236	100
24	Telangana	26,000	25,281	97.23
25	Tripura	461	461	100
26	Uttarakhand	4,811	4,523	94.01
27	Uttar Pradesh	55,026	55,026	100
28	West Bengal	10,441	10,435	99.94
29	Andaman & Nicobar Island	180	180	100
30	Chandigarh	83	83	100
31	Dadra & Nagar Haveli	190	190	100
32	Daman & Diu	59	59	100
33	Delhi	1,384	1,384	100
34	Jammu & Kashmir#	19,695	18,990	96.42
35	Ladakh	0	0	0
36	Lakshadweep	0	0	0
37	Puducherry	363	363	100
	<b>All India</b>	<b>6,16,964</b>	<b>5,92,587</b>	<b>96.05</b>

*Notes: The District Roads comprise Major District Roads & Other District Roads constructed and maintained by State PWD/ Roads & Bridges Depts.*

*@ Arunachal Pradesh has not yet made official classification of State Roads into State Highways, Major District Roads (MDR) and Other District Roads (ODR) Differences in sum on account of rounding off of decimals.*

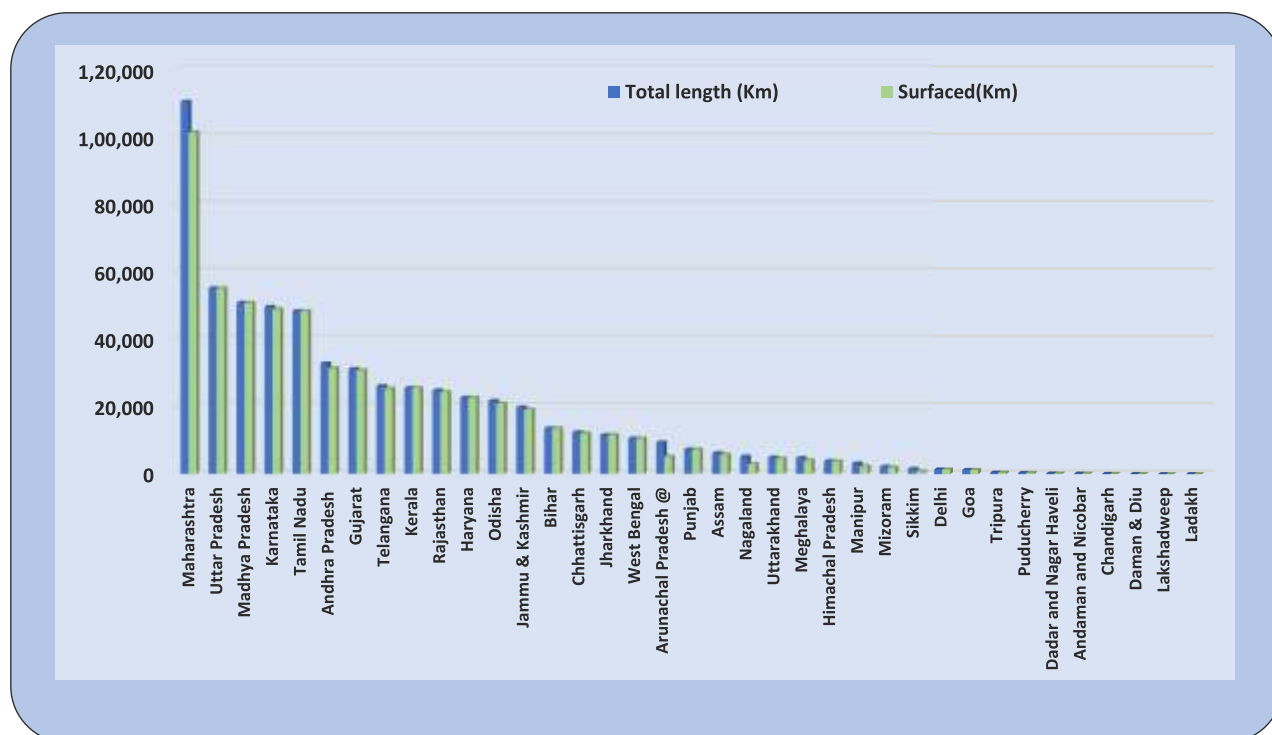
*# Data as on 31.03.2018*

4.5. State-wise distribution of type of surface of District Roads indicates that about 96.05% of the total District Roads are surfaced as of 31<sup>st</sup> March, 2020. Out of the total surfaced District Roads length of 5,66,167 Km, Bituminous Top (BT) and Cement Concrete (CC) roads together accounted for about 95.54% and the remaining 4.46% are Water Bound Macadam (WBM) roads. Chart 4.2 depicts that most of the States have surfaced district roads. The State/UT-wise break up of length of District Roads by type of surface is at **Annexure 4.2**.

4.6. In respect of surfaced district road length seen in Chart 4.2, again Maharashtra topped the States with 1,01,258 Km followed by Uttar Pradesh (55,026 Km), Madhya Pradesh (50,714 Km), Karnataka

(48,864 Km) and Tamil Nadu (48,236 Km). These five States together account for about 51.32% of the total surfaced District Roads in the country. In majority of the States, Districts Roads are fully surfaced. In Maharashtra, about 91.75% of District Roads are surfaced where as in Karnataka this is about 98.66%. In States of Uttar Pradesh, Madhya Pradesh, Tamil Nadu, Kerala, Haryana, Jharkhand, Bihar, Punjab, Goa and Tripura districts roads are fully surfaced. In Union Territories also districts roads are fully surfaced. North Eastern States like Sikkim (49.87%), Arunachal Pradesh (54.55%) and Nagaland (56.79%) are at the bottom in respect of surfaced district roads.

**Chart 4.2: State/UT-wise break-up of District Roads as on 31.03.2020**



*Note: Arunachal Pradesh has not classified PWD roads into State Highways, District Roads and Other Roads. The length of PWD roads in the State have been reflected under State Highways.*

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# Section - 5



## Section - 5

### RURAL ROADS

5.1 In India, Rural Roads consists of roads built and constructed by of Panchayati Raj Institutions, (Zila Parishad, Panchayat Samiti, Gram Panchayat), Pradhan Mantri Gram Sadak Yojana (PMGSY) and State PWDs. Rural Roads though defined as low traffic volume roads are a key component of rural development, since it promotes

access to economic and social services, thereby generating increased agricultural productivity, non-agriculture employment as well as non-agricultural productivity, which in turn expands rural growth opportunities and real income through which poverty can be reduced.

#### RURAL ROADS IN INDIA

5.2 India has rural road network of 44,95,948 Km (including JRY Roads) as on 31<sup>st</sup> March 2020 (**Annexure 1.4**). Rural Roads constitute 70.69 % of total road network in the country as of 31<sup>st</sup> March, 2020 (Table 1.1). Length of Rural Road excluding JRY road has decreased from 36, 22,228 Km in 2018-19 to 35,95,948 Km in 2019-20, registered decline of 0.73% on an average relative to same period last year (Table 5.1 and Chart 5.1).

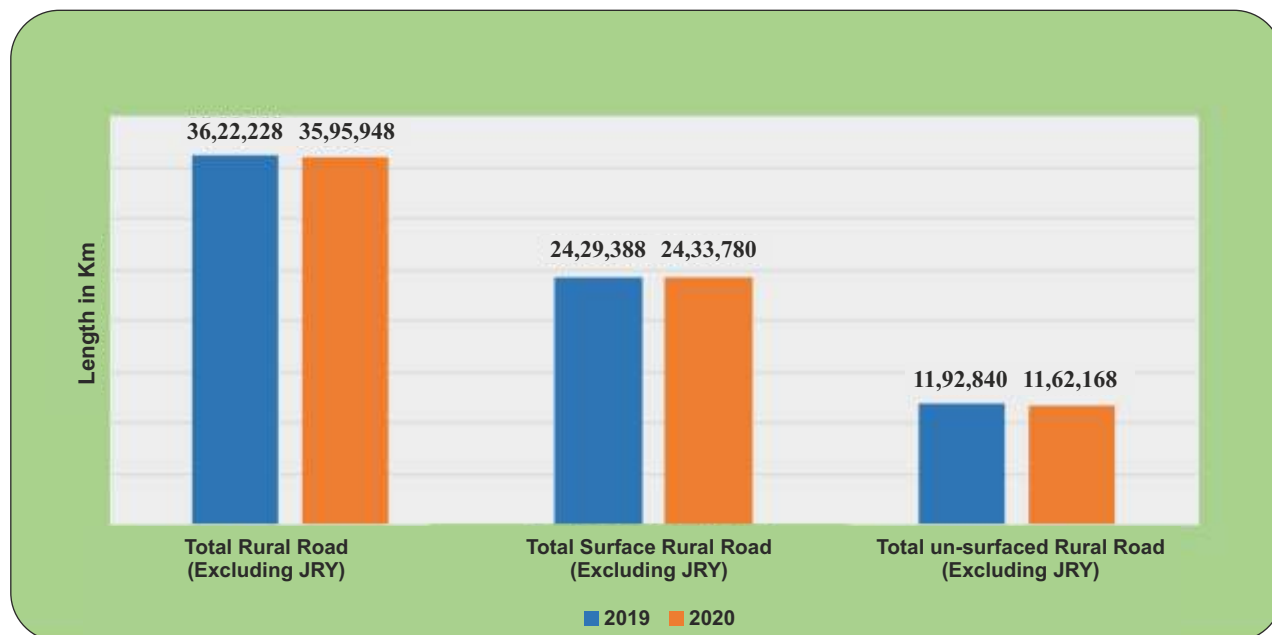
5.3 The total rural road (excluding JRY road) constructed as on 31<sup>st</sup> March, 2020 was at

35,95,948 Km of which 24,33,780 Km are surfaced road (67.68 %). The unsurfaced rural road shares 76.77% of total unsurfaced roads and surfaced rural road shares 61.67 % of total surfaced roads in the country as on 31<sup>st</sup>, March 2020 (Table 5.1). Out of the total surfaced rural road, Bituminous Top (BT) and Cement Concrete (CC) roads together accounted for about 87.4% (21,27,327 Km) and the remaining 12.6% (3,06,453) are Water Bound Macadam (WBM) roads. Details are given at **Annexure 1.2**

**Table 5.1: Profile of Rural Road in 2020 vis-à-vis 2019**

Category	Length as on 31 <sup>st</sup> March (in Km)		% change over previous year
	2019	2020	
Total Rural Road(exclude JRY)	36,22,228	35,95,948	-0.73
Total Road(excluding JRY)	54,31,757	54,60,004	0.52
% share in Total Road	66.7	65.85	
Total Surfaced Rural Road(exclude JRY)	24,29,388	24,33,780	0.18
Total Surfaced Road (exclude JRY)	39,12,523	39,46,246	0.86
% share in total surfaced road	62.1	61.67	
Total Un-surfaced Rural Road(exclude JRY)	11,92,840	11,62,168	-2.57
Total Un-surfaced Road (exclude JRY)	15,19,234	15,13,758	-0.36
% share in total un-surfaced road	78.5	76.77	

**Chart 5.1: Rural Road network in 2020 vis-à-vis 2019**



## RURAL ROAD NETWORK

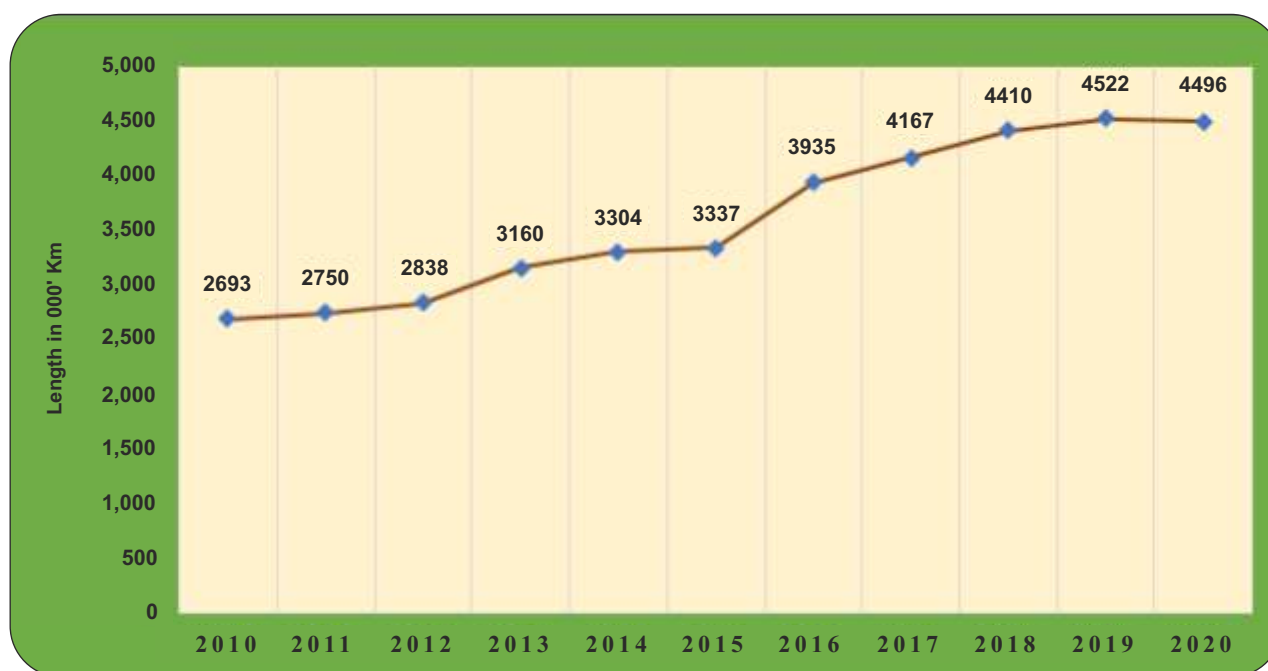
5.4 Despite some marginal fluctuations, there has been a clear increase in construction of rural roads since 1950-51 (Table 5.2). Subsequently, its percentage share in total road has been consistently increased during the period 1950-51 to 2019-20. Rural Road constructed has increased from 2.06 lakh

Km in 1950-51 to 44.95 lakh Km in 2019-20, recorded almost 22 times increase in 69 years (Chart 5.2). There has been significant increase in the construction of Rural Road since 1990-91. Rural Road constitutes 70.69% of countries total road network in 2019-20.

**Table 5.2: Rural Roads Network (1950-51 to 2019-20)**

Year	Length (Km)	% Share in Total Roads
1950-51	2,06,408	51.61
1960-61	1,97,194	37.6
1970-71	3,54,530	38.75
1980-81	6,28,865	42.34
1990-91	12,60,430	54.16
2000-01	19,72,016	58.46
2010-11	27,49,804	58.8
2014-15	33,37,255	60.99
2015-16	39,35,337	70.23
2016-17	41,66,916	70.65
2017-18	44,09,582	70.94
2018-19	45,22,228	71.42
2019-20	44,95,948	70.69

**Chart 5.2: Trends in the construction of Rural Roads from 2010 to 2020**



## COMPONENTS OF RURAL ROADS

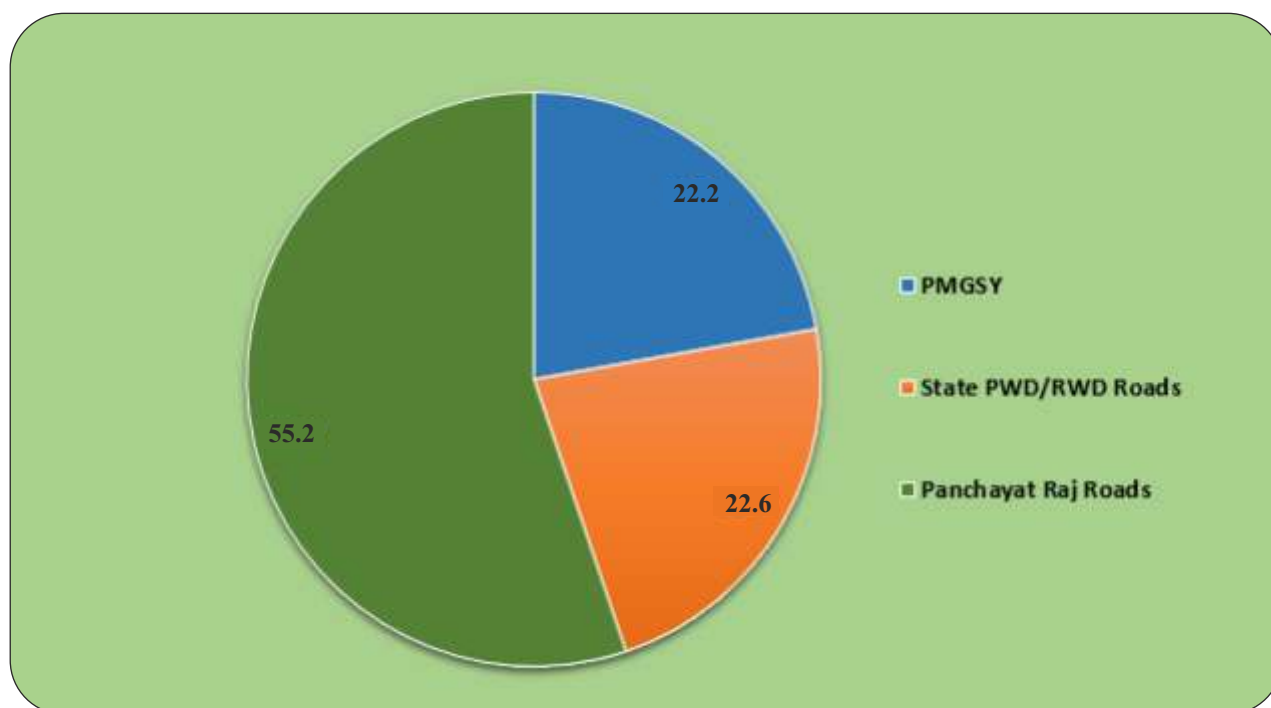
5.5 Rural Roads consisted of roads built and constructed by of Panchayati Raj Institutions, (Zilla Parishad, Panchayat Samiti, Gram Panchayat), Pradhan Mantri Gram Sadak Yojana (PMGSY) and State PWDs. Details are given at **Annexures 5.2 to 5.4**. The total length of Rural Road (excluding JRY road) as on 31<sup>st</sup> March, 2020 is at 35,95,948 Km, out of which, 7,98,690 Km (22.2%) of PMGSY Roads have been constructed by the National Rural Infrastructure Development Agency

(NRIDA) of Ministry of Rural Development (**annexure 5.2**), 8,11,438 Km (22.5%) of road built by the State PWD/RWD Departments (**Annexure 5.3**), 19,85,820 Km (55.2 %) of Panchayat Raj Roads have been built by the States/UT Panchayati Raj Departments (**Annexure 5.4**) and the remaining 9 lakhs Km of roads was constructed under the erstwhile Jawahar Rozgar Yojana (JRY) Scheme as of 31<sup>st</sup> March, 2020 (**Table 5.3 & Chart 5.3**).

**Table 5.3: Components wise profile of Rural Road as on 31<sup>st</sup> March, 2020**

Components	Total (Km)	Surfaced (Km)	% of surfaced road
PMGSY Roads	7,98,690	6,53,254	81.79
State PWD/RWD Roads	8,11,438	6,58,363	81.13
Panchayat Raj Roads	19,85,820	11,22,163	56.5
<b>Rural Roads(excluding JRY)</b>	<b>35,95,948</b>	<b>24,33,780</b>	<b>67.68</b>

**Chart 5.3: Component wise profile of Rural Roads as on 31<sup>st</sup> March, 2020**



5.6 As compared to the previous year 2019, there has been a decrease in the construction of Rural Road, which has decreased from 36,22,228 Km in 2019 to 35,95,948 in 2020, registering a decline of 0.73% . Panchayati raj road constitute more than fifty percent of Rural Road, however, its length has increased from 19,78,794 Km in 2019 to 19,85,820 Km in 2020, i.e. marginal increase in growth of about 0.4%

over previous year. Other categories like PMSGY showed increase in length in 2020 as compared to 2019 while PWD Roads showed decline of 7% as compared to previous year. (Table 5.4). Surfaced Rural Road (excluding JRY) constitutes 61.7% of total surfaced road network in the country in 2020.

**Table 5.4: Components wise profile of Rural Road in 2020 vis-à-vis 2019**

Components	Length of Rural road as on 31 <sup>st</sup> March (Km)		
	2019	2020	% change in 2020 over 2019
PMGSY Roads	7,70,904	7,98,690	
% share	21.3	22.2	3.6
PWD/RWD Roads	8,72,530	8,11,438	
% share	24.1	22.6	-7
Panchayati Raj Roads	19,78,794	19,85,820	
% share	54.6	55.2	0.4
Rural Roads (excluding JRY)	36,22,228	35,95,948	
% share in total road (excluding JRY)	66.7	65.9	-0.7

5.7 Surfaced rural road length excluding JRY road has increased from 24,29,388 Km in 2019 to 24,33,780 Km in 2020, recorded growth of 0.2% on average over previous period (Table 5.5). Length of surfaced rural road has increased for all categories in 2020 as compared to 2019 except for PWD roads

as seen in Table 5.5. Surfaced rural road (excluding JRY) constitutes 61.7% of total surfaced road network in the country in 2020. Category wise profile of Rural Road as on 31<sup>st</sup> March, 2020 is presented at Table 5.6.

**Table 5.5: Components wise profile of Surfaced Rural Road in 2020 vis-à-vis 2019**

Components	Surfaced Rural Road as on 31 <sup>st</sup> March (Km)		% change in 2020 over 2019
	2019	2020	
PMGSY Roads	6,25,973	6,53,254	4.4
% share	25.8	26.8	
PWD/RWD Roads	7,13,977	6,58,363	-7.8
% share	29.4	27.1	
Panchayati Raj Roads	10,89,439	11,22,163	3
% share	44.8	46.1	
Rural Roads (excluding JRY)	24,29,388	24,33,780	0.2
% share in total surfaced (excluding JRY)	62.1	61.7	

**Table 5.6: Components wise Profile of Rural Road as on 31st March, 2020**

Components	Total Length	WBM/WMM	BT/CC	Total Surfaced	Un-surfaced
PMGSY Roads	7,98,690	27,151	6,26,103	6,53,254	1,45,436
% share	22.2	8.9	29.4	26.8	12.5
PWD/RWD Roads	8,11,438	65,715	5,92,648	6,58,363	1,53,075
% share	22.6	21.4	27.9	27.1	13.2
Panchayati Raj Roads	19,85,820	2,13,587	9,08,576	11,22,163	8,63,657
% share	55.2	69.7	42.7	46.1	74.3
<b>Rural Roads (excluding JRY)</b>	<b>35,95,948</b>	<b>3,06,453</b>	<b>21,27,327</b>	<b>24,33,780</b>	<b>11,62,168</b>

## RURAL ROADS - STATE/UT WISE DISTRIBUTION

5.8 The State/UT-wise break-up of length of Rural Road is presented at Table 5.7. Surfaced Rural Road (including JRY) constitutes 58.21% of total rural road network in the country as on 31<sup>st</sup> March, 2020. Assam (Table 5.7) accounted for the largest share of Rural Roads with 4,03,027 Km (11.21%) followed by Maharashtra

3,97,158 Km with (11.04 %), Uttar Pradesh 2,70,812 Km (7.53%), Bihar 2,60,171 Km (7.24%) and Madhya Pradesh 2,33,817 Km (6.50%). These five States account for about 43.52 % of the total length of Rural Roads in the country (Excluding JRY). The State/UT-wise break-up of Rural Road is given at **Annexure 5.1**

5.9 In States/UTs of Uttar Pradesh, Punjab, Delhi and Puducherry more than 90% of Rural Roads are surfaced (Table 5.7), whereas in Karnataka, Meghalaya, Nagaland, Ladakh and Assam more than half of the rural roads are un-surfaced. Assam is largest in respect of total length of rural road in the country, however lies at the

bottom in respect of surfaced rural roads (23.23%) followed by Ladakh (32.96 %), Meghalaya (39.75%) and Nagaland (42.98%). In UTs like Dadra and Nagar Haveli, Daman and Diu, Delhi and Lakshadweep 100% roads are surfaced. The State/UT-wise break-up of Rural Road is at **Annexure 5.1**.

**Table 5.7: State/UTs-wise distribution of Rural Road on 31<sup>st</sup> March, 2020**

Sl.No.	Name of State/UT	Total	Surfaced	% of Surfaced Rural Road
1	Andhra Pradesh	1,02,009	53,419	52.37
2	Arunachal Pradesh	22,891	12,712	55.53
3	Assam	4,03,027	93,606	23.23
4	Bihar	2,60,171	1,97,828	76.04
5	Chhattisgarh	62,278	45,983	73.83
6	Goa	15,910	11,230	70.58
7	Gujarat	1,34,069	1,17,862	87.91
8	Haryana	7,027	5,614	79.9
9	Himachal Pradesh	48,350	33,904	70.12
10	Jharkhand	46,568	40,786	87.58
11	Karnataka	2,23,405	1,05,289	47.13
12	Kerala	1,88,931	1,19,372	63.18
13	Madhya Pradesh	2,33,817	2,09,713	89.69
14	Maharashtra	3,97,158	2,73,632	68.9
15	Manipur	25,664	13,409	52.25
16	Meghalaya	36,370	14,455	39.75
17	Mizoram	14,414	7,233	50.18
18	Nagaland	28,266	12,148	42.98
19	Odisha	2,27,019	1,55,895	68.67
20	Punjab	1,04,565	1,03,919	99.38
21	Rajasthan	1,71,909	1,50,998	87.84
22	Sikkim	8,550	6,871	80.36
23	Tamil Nadu	1,71,290	1,32,245	77.21

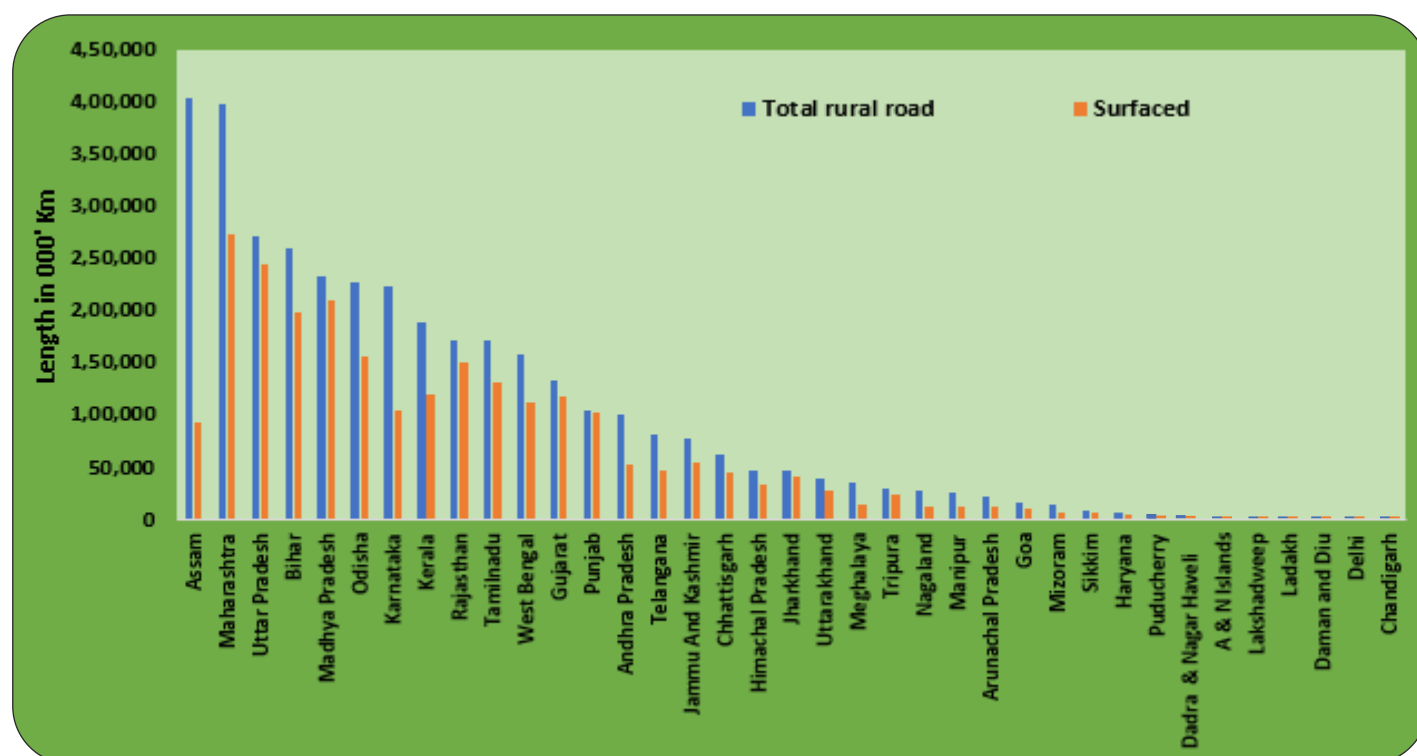
*table contd...*



table 5.7 contd...

Sl.No.	Name of State/UT	Total	Surfaced	% of Surfaced Rural Road
24	Telangana	80,955	46,872	57.9
25	Tripura	30,446	24,976	82.03
26	Uttarakhand	39,692	27,382	68.99
27	Uttar Pradesh	2,70,812	2,45,081	90.5
28	West Bengal	1,57,849	1,11,916	70.9
29	A & N Islands	626	541	86.35
30	Chandigarh	0	0	0
31	Dadra & Nagar Haveli	798	798	100
32	Daman & Diu	116	116	100
33	Delhi	19	19	100
34	Jammu And Kashmir	78,095	55,381	70.91
35	Ladakh	132	44	32.96
36	Lakshadweep	218	218	100
37	Puducherry	2,530	2,311	91.32
<b>Total (Excluding JRY Roads)</b>		<b>35,95,948</b>	<b>24,33,780</b>	<b>67.68</b>
<b>Total (Including JRY Roads)</b>		<b>44,95,948</b>	<b>26,16,982</b>	<b>58.2</b>

Chart 5.4 - The State/UT-wise break-up of Rural Roads as on 31<sup>st</sup> March, 2020.



5.10 In respect of total surfaced rural road as seen in Chart 5.4, again Maharashtra topped amongst the States with 2,73,632 Km of road followed by Uttar Pradesh (2,45,081 Km), Madhya Pradesh (2,09,713 Km), Bihar (1,97,828 Km) and Odisha (1,55,895 Km). In Maharashtra, 68.90% of rural roads are surfaced where as in Uttar Pradesh 90.50% of rural roads

are surfaced and in Rajasthan 87.84% of rural roads are surfaced. In Odisha only 68.67% of rural roads are surfaced. North Eastern States like Assam (23.23%), Arunachal Pradesh (55.53 %), Meghalaya (39.75%) and Nagaland (42.98 %) are at the bottom in respect of surfaced rural roads.

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## Section - 6

## Section - 6

### URBAN ROADS

6.1 Urban Roads consist of Municipal Roads under Urban Development Departments of States and UTs, roads in Railway Zones, MES roads constructed by Military Engineering Services (MES) and Major and Minor Port Roads. Details on categories of Urban Road is presented at **Annexures 6.1 to 6.5**.

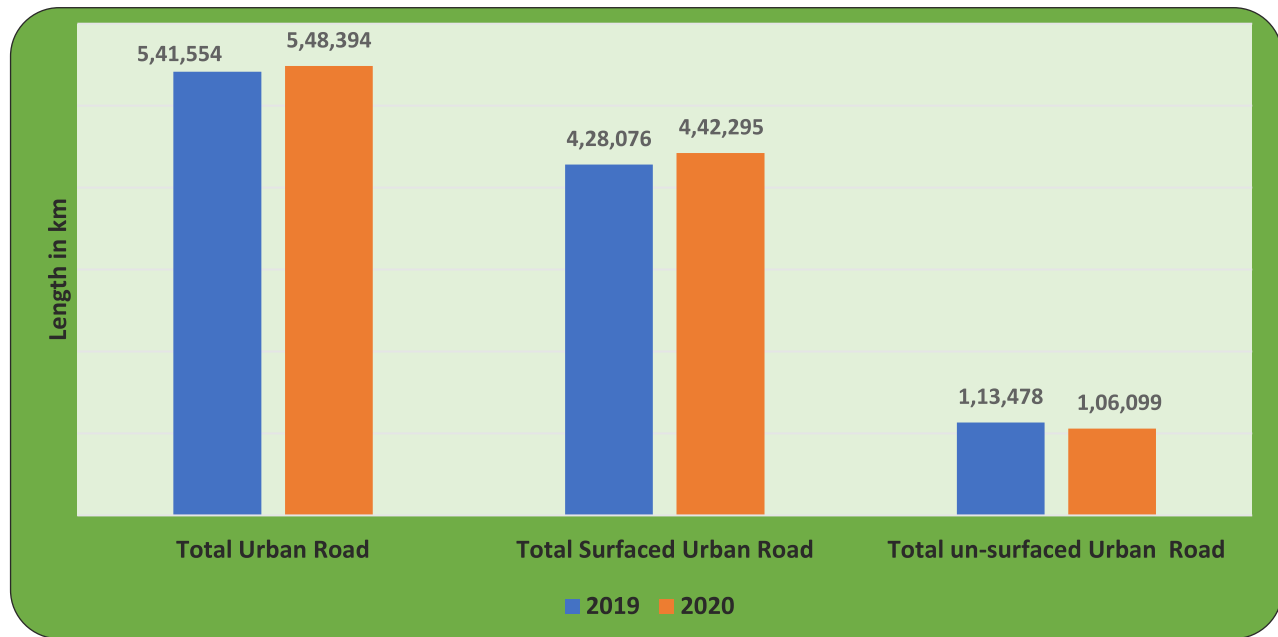
6.2 The total length of Urban Road as on 31<sup>st</sup> March, 2020 was at 5,48,394 Km, of which surfaced road constitute about 80.65% (4,42,295 Km) of total Urban Roads. The Construction of Urban Road has increased from 5,41,554 Km in 2018-19 to 5,48,394 Km in 2019-20, registered growth of 1.26% relative to the same period last year. (Table 6.1 and Chart 6.1). Urban Road shares about 8.62% of total road network in the country as on 31<sup>st</sup> March, 2020.

6.3 The total length of surfaced urban road increased from 4,28,076 Km in 2018-19 to 4,42,295 Km in 2019-20, registering an increase of 3.32% in 2020 corresponding to same period in 2019. Around 80.65% of total urban roads in the country are surfaced road (4,42,295 Km). Urban road constitutes 10.75% of total surfaced road and 4.76% (1,06,099 Km) of total unsurfaced road in the country as on 31<sup>st</sup>, March 2020 (Table 6.1). Out of the total surfaced urban road, Bituminous Top (BT) and Cement Concrete (CC) roads together accounted for 90.43% (3,99,959 Km) and the remaining 9.57% (42,336 Km) are Water Bound Macadam (WBM) roads (**Annexure 1.2**).

**Table 6.1: Urban Road network in 2020 vis-à-vis 2019**

Category	Length as on 31 <sup>st</sup> , March (Km)		% change in 2020 over 2019
	2019	2020	
Total Urban Road	5,41,554	5,48,394	1.26
Total Road(include JRY )	63,31,757	63,60,004	0.45
% share in Total Road	8.55	8.62	
Total Surfaced Urban Road	4,28,076	4,42,295	3.32
Total Road surfaced (include JRY )	40,95,725	41,29,448	0.82
% share in total surfaced road	10.45	10.71	
Total un-surfaced Urban Road	1,13,478	1,06,099	-6.5
Total Road un-surfaced (include JRY )	22,36,032	22,30,556	-0.24
% share in total un-surfaced road	5.07	4.76	

**Chart 6.1: Urban Road Network**



## TRENDS OF URBAN ROAD

6.4 Despite some marginal fluctuations, there has been a clear increasing trend in total length of Urban Roads since 1960-61 (Table 6.2 and Chart 6.2). The share of Urban Road in total road has stabilised marginal variations during the period 1960-

61 to 2019-20. The construction of Urban Road has increased from 46 thousand Km in 1960-61 to 548 thousand Km in 2019-20, marked an almost 12 times increase (Chart 6.2).

**Table 6.2: Trend of Urban Roads: 1960-61 to 2019-20**

Category	Urban Roads (Km)	% Share to Total Roads
1960-61	46,361	8.84
1970-71	72,120	7.88
1980-81	1,23,120	8.29
1990-91	1,86,799	8.03
2000-01	2,52,001	7.47
2010-11	4,11,679	8.8
2014-15	4,67,106	8.54
2015-16	5,09,730	9.1
2016-17	5,26,483	8.93
2017-18	5,34,142	8.59
2018-19	5,41,554	8.55
2019-20	5,48,394	8.62

**Chart 6.2: Trend in construction of Urban Roads from 2010 to 2020**



## CATEGORY WISE DISTRIBUTION OF URBAN ROADS

6.5 Urban Roads consist of Municipal Roads under Urban Development Departments of States/UTs, roads in Railway Zones, MES roads constructed by Military Engineering Services (MES) and Major and Minor Port Roads. Details on categories of Urban Road are presented at **Annexures 6.1 to 6.5**.

6.6 The total length of Urban Road as on 31<sup>st</sup> March, 2020 was at 5,48,394 Km, out of which, 5,15,593 Km (94.02 %) has constructed by Municipalities (**Annexure 6.2**), 18,140 Km (3.31 %) built by Military Engineering Services (**Annexure 6.3**), 674 Km (0.12%) built by Major Ports (**Annexure 6.4**), 927 Km (0.17%) constructed by Minor Port (**Annexure 6.5**), and the remaining 13,060 Km (2.38%) constructed by Railways (**Annexure 6.6**).

6.7 Category wise distribution of Urban Road reveals Municipal Roads with 5,15,593 Km constitute 94.02% of total Urban Roads in the country in 2020 followed by MES road with 18,140 Km (3.31%) (Table 6.3).



**Table 6.3: Category wise profile of Urban Road as on 31<sup>st</sup> March, 2020**

Category	Total Length(Km)	WBM/WMM	BT/CC	Total Surfaced	Un-surfaced
Municipal Roads	5,15,593	39,552	3,70,983	4,10,534	1,05,059
% share	94.02	93.42	92.76	92.82	99.02
MES Roads	18,140	1,365	16,662	18,027	113
% share	3.31	3.22	4.17	4.08	0.11
Major Port Roads	674	54	619	673	0.24
% share	0.12	0.13	0.15	0.15	0
Minor Port Roads	927	66	802	868	59
% share	0.17	0.16	0.2	0.2	0.06
Railway Roads	13,060	1,299	10,893	12193	867
% share	2.38	3.07	2.72	2.76	0.82
<b>Urban Roads</b>	<b>5,48,394</b>	<b>42,336</b>	<b>3,99,959</b>	<b>4,42,295</b>	<b>1,06,099</b>

## STATE/UT-WISE DETAILS OF URBAN ROADS

6.8 The State/UT-wise break-up of Urban Roads (**Annexure 6.1**) shows, for the second consecutive time in 2020, West Bengal accounted for the largest share with 95,061 Km (17.33 %) followed by Uttar Pradesh with 71,602 Km (13.06%), Karnataka 43,541 Km (7.94 %), Madhya Pradesh 34,093 Km (6.22%) Rajasthan 32,881 Km (6.00 %). These five States account for 50.54 % of the total length of urban Roads in the country.

6.9 In respect of surfaced urban road length as seen in Table 6.4, again same set of States topped the list. West Bengal accounted for the largest share of surfaced urban road in 2020 with 66,786 Km (15.10%) followed by Uttar Pradesh with 56,236 Km

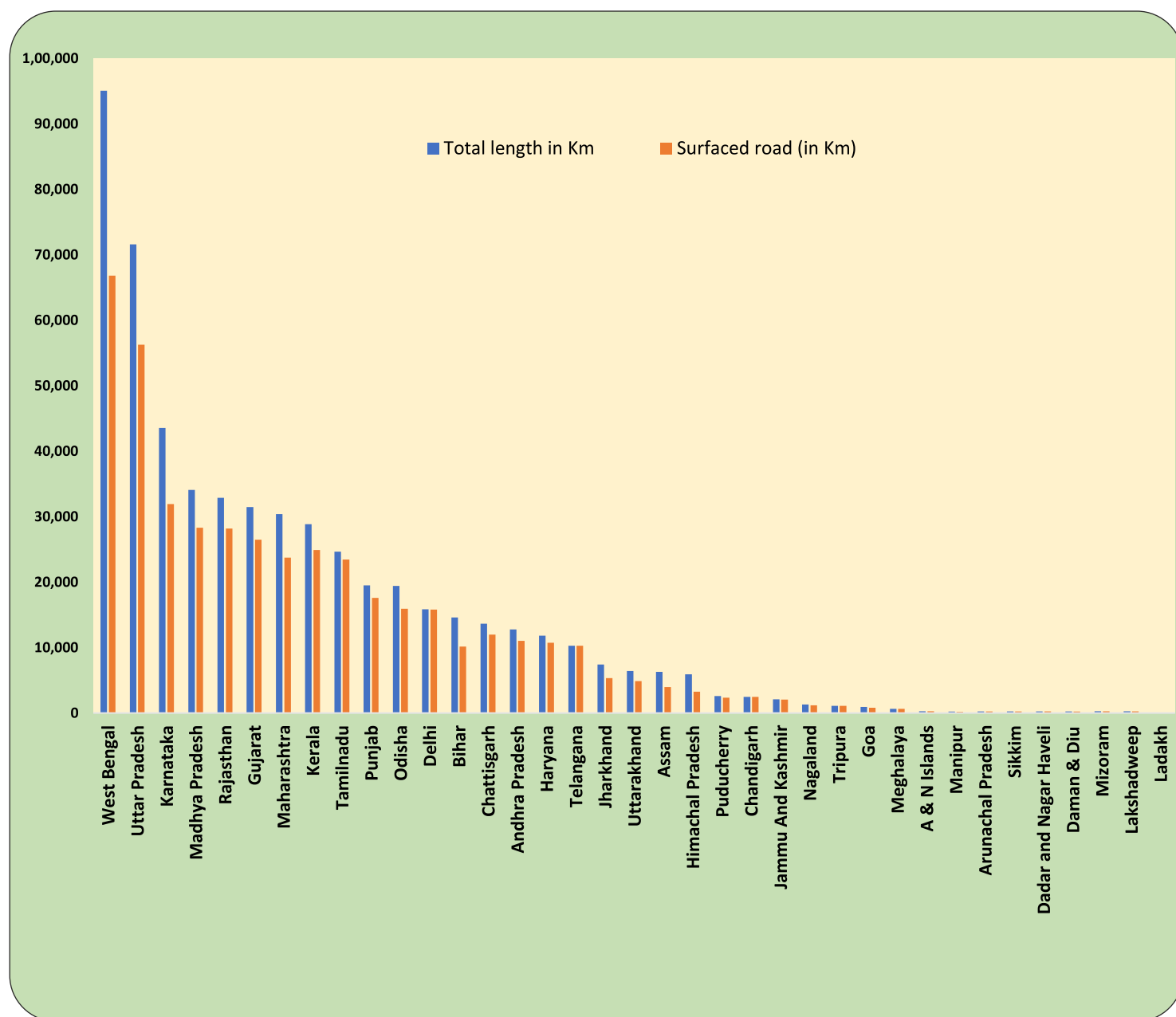
(12.71%), Karnataka 31,925 Km(7.22 %), Madhya Pradesh 28,296 Km (6.40 %) and Rajasthan 28,163 Km (6.37%).

6.10 In West Bengal, 70.26% of urban roads are surfaced where as in Uttar Pradesh 78.54% of urban roads are surfaced and in Karnataka 73.32% of urban roads are surfaced. In Telangana, 99.98% of urban roads are surfaced. In North Eastern States like Arunachal Pradesh (98.16%), Meghalaya (98.84%) and Tripura (98.95%) more than 98% of urban roads are surfaced. In UTs like Chandigarh, Dadra & Nagar Haveli, Daman & Diu and Lakshadweep 100% of urban roads are surfaced.

**Table 6.4: State/UT-wise distribution of Urban Roads as on 31<sup>st</sup> March, 2020**

S. No.	Name of State/UT	Total	Surfaced	% age of Surfaced Road
1	2	3	4	5
1	Andhra Pradesh	12,758	11,006	86.26
2	Arunachal Pradesh	109	107	98.16
3	Assam	6,268	3,978	63.46
4	Bihar	14,599	10,155	69.56
5	Chhattisgarh	13,638	11,977	87.82
6	Goa	913	817	89.53
7	Gujarat	31,471	26,476	84.13
8	Haryana	11,794	10,747	91.12
9	Himachal Pradesh	5,902	3,264	55.3
10	Jharkhand	7,419	5,321	71.73
11	Karnataka	43,541	31,925	73.32
12	Kerala	28,859	24,891	86.25
13	Madhya Pradesh	34,093	28,296	83
14	Maharashtra	30,386	23,749	78.16
15	Manipur	236	181	76.64
16	Meghalaya	640	633	98.84
17	Mizoram	22	13	59.51
18	Nagaland	1,287	1,191	92.54
19	Odisha	19,404	15,925	82.08
20	Punjab	19,501	17,602	90.26
21	Rajasthan	32,881	28,163	85.65
22	Sikkim	98	96	97.95
23	Tamil Nadu	24,648	23,430	95.06
24	Telangana	10,291	10,290	99.98
25	Tripura	1,096	1,084	98.95
26	Uttarakhand	6,425	4,858	75.6
27	Uttar Pradesh	71,602	56,236	78.54
28	West Bengal	95,061	66,786	70.26
29	A & N Islands	281	266	94.71
30	Chandigarh	2,485	2,485	100
31	Dadra & Nagar Haveli	84	84	100
32	Daman & Diu	53	53	100
33	Delhi	15,843	15,783	99.62
34	Jammu And Kashmir	2,096	2,069	98.72
35	Ladakh	0	0	0
36	Lakshadweep	4	4	100
37	Puducherry	2,607	2,354	90.28
	<b>All India</b>	<b>5,48,394</b>	<b>4,42,295</b>	<b>80.65</b>

Chart 6.3 State/UT wise distribution of Length of Urban Roads as on March 31<sup>st</sup>, 2020.



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## Section - 7

## Section - 7

### PROJECT ROADS

7.1 Project Roads largely include roads built/coming under the purview of Central and State Government agencies and departments. Roads under this category include roads of Forest Departments, Irrigation Departments, Electricity Departments, roads in coal fields and coal mines of Coal India Ltd., roads under the plant areas of Steel Authority of India Limited (SAIL), National Mineral Development Corporation (NMDC), Sugarcane Departments of States/UT and Border Roads Organisation (BRO). Details on categories of Project Road is presented at **Annexures 7.1 to 7.8**.

7.2 The Total length of Project Roads as on 31<sup>st</sup> March, 2020 was at 3,86,954 Km, of which surfaced road constitute about 43.12% (1,66,879 Km) of total Projects Roads. Construction of Project Road has increased from 3,43,163 Km in 2018-19 to 3,86,954 Km in 2019-20, registered a

growth of about 12.76% on an average over previous period (Table 7.1). Project Road shares 6.08% of total road network in the country as on 31<sup>st</sup> March, 2020.

7.3 The total length of Project Road as on 31<sup>st</sup> March, 2020 is at 3,86,954 Km, of which surfaced road constitute about 43.1% (1,66,879 Km). Total Surfaced Project Road constitutes 4.04% of total surfaced road in the country (**Table 7.1**). Out of the total surfaced Project Road, Bituminous Top (BT) and Cement Concrete (CC) roads together accounted for 59.98% (1,00,088 Km) and the remaining 40.02% (66,791 Km) were Water Bound Macadam (WBM) roads. However, Un-Surfaced Project Road share 9.87% (2,20,075 Km) of total unsurfaced road in the country as on 31<sup>st</sup>, March 2020 (**Table 7.1**). (**Annexure 1.2**).

**Table 7.1: Profile of Project Road in 2020 vis-à-vis 2019**

Category	Length as on 31 <sup>st</sup> , March (Km)		% change over previous year
	2019	2020	
Total Project Road	3,43,163	3,86,954	12.76
Total Road(include JRY )	63,31,757	63,60,004	0.45
% share in Total Road	5.42	6.08	
Total Surfaced Project Road	1,57,171	1,66,879	6.18
Total Road surfaced (include JRY )	40,95,725	41,29,448	0.82
% share in total surfaced road	3.84	4.04	
Total un-surfaced Project Road	1,85,992	2,20,075	18.32
Total Road un-surfaced (include JRY )	22,36,032	22,30,556	-0.24
% share in total un-surfaced road	8.32	9.87	

7.4 The construction of Project Roads has increased during the period 1970-71 to 2017-18, however shown marginal decrease during 2018-19 (Table 7.2) but again in 2019-20, Project Road showed an increase. Project Road shares 6.08% of total roads network in the country in 2019-20.

The total length of Project Roads has increased from 3,43,163 Km as on 31.03.2019 to 3,86,954 Km as on 31.03.2020, registering an increase of 12.76 % in 2020 relative to same period in 2019 (Table 7.2).

**Table 7.2: Project Roads Network (1970-71 to 2019-20)**

Category	Projects Roads	% Share in Total Roads
1970-71	1,30,893	14.3
1980-81	1,85,511	12.5
1990-91	2,09,737	9
2000-01	2,23,665	6.6
2010-11	2,81,628	6
2014-15	3,01,505	5.5
2015-16	3,19,109	5.7
2016-17	3,28,897	5.6
2017-18	3,47,547	5.6
2018-19	3,43,163	5.4
2019-20	3,86,954	6.08

**Chart 7.1: The trends of construction of Project Roads from 2010 to 2020**



#### The State/UT-wise break-up of Project Roads

7.5 It may be seen from the Chart 7.2 that Uttar Pradesh accounted for the largest share (10.95%) in total Project Roads as on 31<sup>st</sup>

March 2020, followed by Gujarat (10.48 %), Madhya Pradesh (7.88%), Assam (7.35%) and Karnataka (6.83%).

These five States together account for about 43.48 % of the total length of Project Roads as on 31.03.2020. The State/UT-

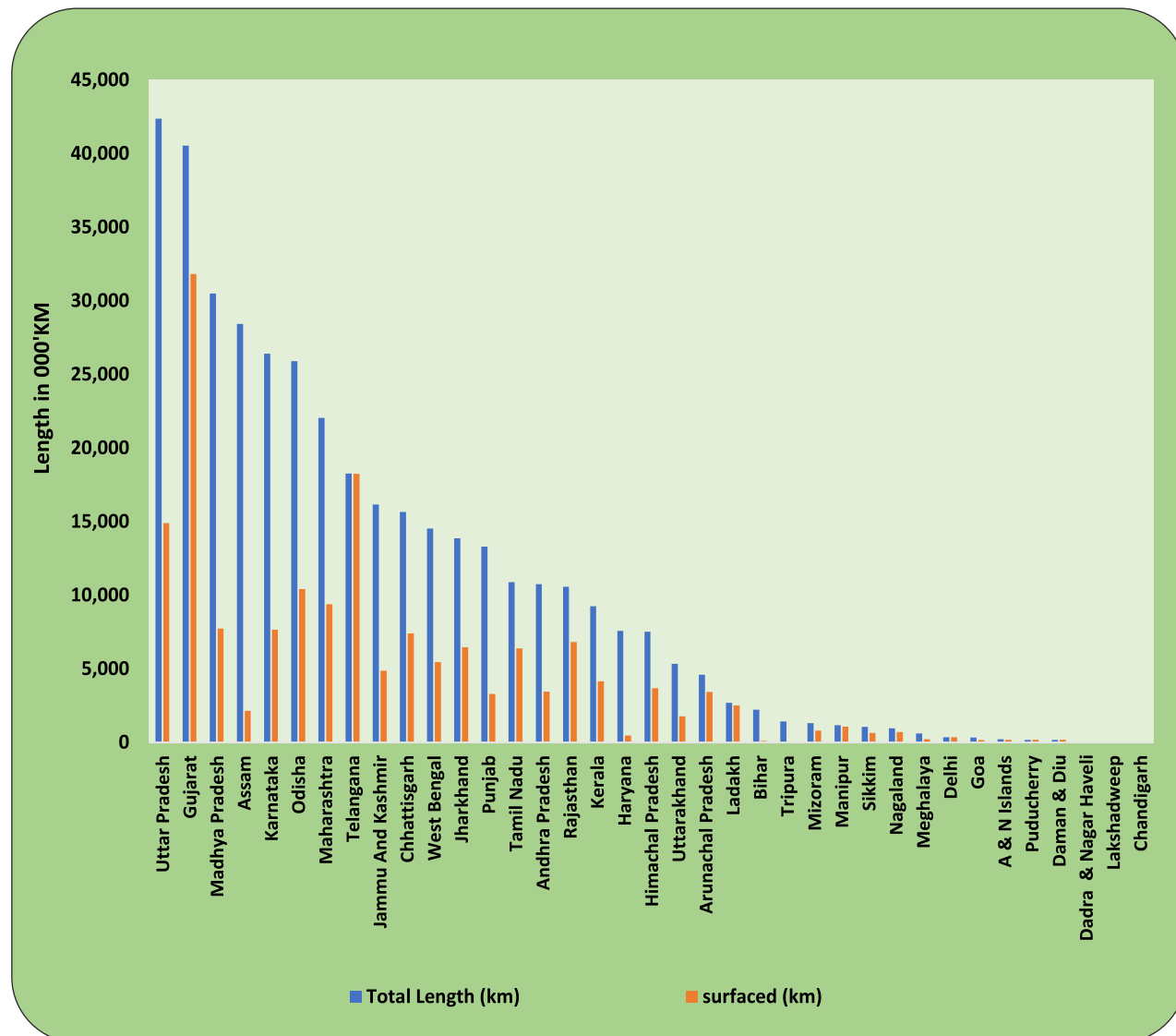
wise break-up of Project Roads is given in the **Annexure 7.1**.

**Table 7.3: State/UT - wise distribution of Project Roads as on 31<sup>st</sup> March, 2020**

Sl.No.	Name of State/UT	Total	Surfaced	%age of surfaced road
1	2	3	4	5
1	Andhra Pradesh	10,760	3,449	32.1
2	Arunachal Pradesh	4,601	3,439	74.8
3	Assam	28,439	2,141	7.5
4	Bihar	2,230	107	4.8
5	Chhattisgarh	15,665	7,397	47.2
6	Goa	334	165	49.5
7	Gujarat	40,541	31,812	78.5
8	Haryana	7,587	472	6.2
9	Himachal Pradesh	7,519	3,686	49
10	Jharkhand	13,872	6,478	46.7
11	Karnataka	26,413	7,664	29
12	Kerala	9,257	4,150	44.8
13	Madhya Pradesh	30,486	7,744	25.4
14	Maharashtra	22,043	9,393	42.6
15	Manipur	1,167	1,084	92.9
16	Meghalaya	606	229	37.7
17	Mizoram	1,305	799	61.3
18	Nagaland	964	705	73.1
19	Odisha	25,906	10,432	40.3
20	Punjab	13,312	3,295	24.8
21	Rajasthan	10,587	6,825	64.5
22	Sikkim	1,053	647	61.5
23	Tamilnadu	10,890	6,396	58.7
24	Telangana	18,272	18,257	99.9
25	Tripura	1,427	20	1.4
26	Uttarakhand	5,333	1,770	33.2
27	Uttar Pradesh	42,375	14,892	35.1
28	West Bengal	14,534	5,464	37.6
29	A & N Islands	218	178	81.7
30	Chandigarh	0	0	0
31	Dadra & Nagar Haveli	0	0	0
32	Daman & Diu	1	1	100
33	Delhi	350	350	100
34	Jammu And Kashmir	16,172	4,879	30.2
35	Ladakh	2,694	2,521	93.6
36	Lakshadweep	0	0	0
37	Puducherry	44	36	81
<b>Total</b>		<b>3,86,954</b>	<b>1,66,879</b>	<b>43.1</b>



**Chart 7.2: State/UT-wise Length of Project Roads (in KM) as on 31<sup>st</sup> March, 2020**



7.6 The details at **Annexure 7.2** to **7.8** and the summary in **Annexure 7.1** reveals that out of the total of 3,86,954 Km of Project Roads, as on 31<sup>st</sup> March, 2020, Forest Roads (2,04,217 Km) approximately account for 52.78 % followed by Irrigation Department Roads (1,35,792 Km) with a share of about 35.09 % and BRO Roads (19,165 Km) with a share of 4.95 %. The remaining 7.18 % of Project Roads come under the purview of coal fields and mines

of Coal India Ltd.; SAIL and NMDC; Sugarcane and Electricity Departments of States and UTs.

7.7 Since Forest Roads run through reserved forest areas and wild life sanctuaries, only a small share (38.47%) are surfaced. Out of total surfaced forest roads of length 78,564 Km, B.T. / C.C. roads constitute about 48.26% and the remaining 51.74% is constituted by the Water Bound Macadam roads.

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## Section - 8

## Section - 8

### Major Schemes/Initiatives of Ministry of Road Transport and Highways

#### 8.1 NATIONAL HIGHWAYS (NHs)

The Ministry of Road Transport & Highways is primarily responsible for development and maintenance of National Highways. National Highways comprise only 2.2% of total road network. National Highways carry about 40% of the road traffic.

- 8.1.1** The development and maintenance works are being implemented on the agency basis. The State Government (State PWDs), Border Roads Organisation (BRO), National Highways Authority of India (NHAI) and National Highway and Infrastructure Development Corporation Limited (NHIDCL) are implementing the development and maintenance works of NHs. At present, projects of widening to 4-lane NH configurations or more and Expressways under various phases of the National Highways Development Project (NHDP) and other Schemes are being assigned to NHAI. The projects of development to 2-lane NH configurations with or without paved shoulders under NHDP or other Schemes are primarily being assigned to the State Governments, viz. State PWDs, State Road Construction Departments / Corporations, etc. The Projects under Special Accelerated Road Development Programme for North-Eastern Region (SARDP-NE) including Arunachal Pradesh Package of Roads are

now being primarily assigned to NHIDCL; further NHIDCL is, also, being assigned projects under other Schemes in hill States including States in the North East Region and Andaman & Nicobar Islands.

- 8.1.2** Major Programmes/ Schemes being implemented by the Ministry include the following:

- (i) National Highway Development Programme (through 7 phases) 1998 to 2017—about 55,000 Km.
- (ii) Bharatmala Phase-I – about 35,000 Km.
- (iii) SARDP-NE and Arunachal Package – about 10,000 Km.
- (iv) Left Wing Extremism affected areas – about 5,500 Km.
- (v) Char-Dham Project – 890 Km.

#### 8.2 MAJOR SCHEMES OF THE MINISTRY

##### 8.2.1 Bharatmala Pariyojana

###### 8.2.1.1 Bharatmala Phase-I

**(including subsumed National Highways Development Project (NHDP))**

The Ministry has taken up detailed review of NHs network with a view to develop the road connectivity to Border areas, development of Coastal roads including road connectivity for Non-Major ports, improvement in the efficiency of National Corridors, development of Economic Corridors, Inter Corridors and Feeder Routes along with integration with

Sagarmala, etc., under Bharatmala Pariyojana. The Bharatmala Pariyojana envisages development of about 26,000 Km length of Economic Corridors, which along with Golden Quadrilateral (GQ) and North-South and East-West (NS-EW) Corridors are expected to carry majority of the Freight Traffic on roads. Further, about 8,000 Km of Inter Corridors and about 7,500 Km of Feeder Routes have been identified for improving effectiveness of Economic Corridors, GQ and NS-EW Corridors. The programme envisages development of Ring Roads / bypasses and elevated corridors to decongest the traffic passing through cities and enhance logistic efficiency; 28 cities have been identified for Ring Roads; 125 choke points and 66 congestion points have been identified for their improvements. Further, in order to reduce congestion on proposed Corridors, enhance logistic efficiency and reduce logistics costs of freight movements, 35 locations have been identified for development of Multimodal Logistics Parks.

The Public Investment Board (PIB) has recommended the proposal during its meeting held on 16.06.2017. Cabinet Committee on Economic Affairs (CCEA) has approved the Bharatmala Pariyojana Phase-I. The minutes of the meeting were circulated vide Cabinet Secretariat's letter dated 26.10.2017.

#### 8.2.1.2 Sources of funding for Bharatmala Phase-I

The Bharatmala (approved for estimated cost of Rs. 6,92,324 crore including other ongoing schemes) is to be funded from Cess (Rs. 2,37,024 crore) collected from Petrol & Diesel (as per Central Road & Infrastructure Fund Act, 2000, erstwhile CRF Act, 2000), amount collected from toll (Rs. 46,048 crore) apart from additional budgetary support (Rs. 59,973 crore), Expected monetisation of NHs through TOT (Toll-Operate-Transfer) (Rs. 34,000 crore), Internal & Extra Budgetary Resources (IEBR) (Rs. 2,09,279 crore) and Private Sector Investment (Rs. 1,06,000 crore) as per Financing Plan upto 2021-22.

#### Phase-I of Bharatmala Pariyojana includes development of:-

Sl. No.	Scheme	Length (Km)	Cost (Rs. crore)
1.	Economic Corridors	9,000	1,20,000
2.	Inter-Corridors & feeder roads	6,000	80,000
3.	National Corridor Efficiency improvement	5,000	1,00,000
4.	Border & International connectivity roads	2,000	25,000
5.	Coastal & port connectivity roads	2,000	20,000
6.	Expressways	800	40,000
<b>Sub Total</b>		<b>24,800</b>	<b>3,85,000</b>
7	Ongoing Projects, including NHDP*	10,000	1,50,000
<b>Total</b>		<b>34,800</b>	<b>5,35,000</b>

*\*-balance works under various phases of National Highways Development Project (NHDP) shall be fully subsumed under the proposed Bharatmala Pariyojana, to remove overlap and undertake comprehensive development. Balance works under NH(O), SARDP-NE, EAP & LWE schemes would continue under relevant schemes*

### 8.2.1.3. Expenditure / Release during the last six years and current year for NHDP/ Bharatmala Phase-I:-

Amount in Rs. Crore

Year	CRF Cess	Toll Remittances	TOT Remittances	BMP	Total (GBS)	IEBR Raised	Total Budgetary	Others	Total	Pvt. Sector Investment Actual	Grand Total
2014-15	9,565	5,448			15,013	3,343	18,356		18,356	19,232	37,588
2015-16	21,018	6,500			27,518	23,281	50,799		50,799	29,770	80,569
2016-17	7,410	7,500			14,910	33,118	48,028		48,028	16,029	64,057
2017-18	15,429	8,462			23,892	50,533	74,425		74,425	16,501	90,926
2018-19	16,567	9,570	9,682		35,819	61,217	97,036		97,036	20,618	1,17,654
2019-20	15,733	10,600	5,000		31,333	74,988	1,06,321		1,06,321	21,926	1,28,247

*\*-balance works under various phases of National Highways Development Project (NHDP) shall be fully subsumed under the proposed Bharatmala Pariyojana, to remove overlap and undertake comprehensive development. Balance works under NH(O), SARDP-NE, EAP & LWE schemes would continue under relevant schemes*

#### 8.2.1.4 Status of appraisal and award of Projects:-

##### (a) Status of appraisal and award – Mode of Implementation-wise:-

In Bharatmala Pariyojana, 60% projects on Hybrid Annuity Mode, 10% projects on BOT(Toll) Mode and 30% projects on EPC mode have been envisaged respectively.

Total of 660 nos. road projects with an aggregate length of 22,624 Km have been approved & awarded till date under Bharatmala Pariyojana (including 150 nos.

of residual NHDP works of aggregate length of 5,762 Km) with Total Capital Cost as Rs. 6,93,186 cr. Out of the total approved 660 nos. projects, 415 nos. of projects covering an aggregate length of 12,215 Km have been approved on EPC mode, 239 nos. of projects covering an aggregate length of 9,935 Km on HAM mode and 6 Nos. of projects covering an aggregate length of 473 Km on BOT (Toll) mode [EPC: HAM: BOT:: 54%:44%:2%].

Details are as follows (31.03.2022): - Overall

S. No.	Mode of Implementation	Bharatmala & Residual NHDP - Awarded		Bharatmala & Residual NHDP – Approved – To be Awarded		Bharatmala & Residual NHDP – Awarded and Approved		Capital Cost (Rs. Cr.)	% Length
		No. of Projects	Length (Km)	No. of Projects	Length (Km)	No. of Projects	Length (Km)		
1	EPC	410	12,131	5	84	415	12,215	3,12,569	54%
2	HAM	233	9,708	6	227	239	9,935	3,68,016	44%
3	BOT Toll	5	408	1	66	6	473	12,600	2%
<b>Total</b>		<b>648</b>	<b>22,247</b>	<b>12</b>	<b>377</b>	<b>660</b>	<b>22,624</b>	<b>6,93,186</b>	<b>100%</b>

**(b) Status of appraisal and award - Overall:**

Out of the 24,800 Km approved under Bharatmala Pariyojana Phase-I, total of 500 projects of length 16,509 Km have been awarded till date. Similarly, out of the

residual NHDP component to be completed Bharatmala Phase-I, a total of 148 projects covering 5,738 Km length have been awarded till date. The details are as under:

**Overall**

As on 31.03.2022

Sr No.	Type of Corridor (approved length & amount)	Awarded		Appraised but Pending for Award		Total		Completed Length (Km)
		No. of Projects	Length (Km)	No. of Projects	Length (Km)	No. of Projects	Length (Km)	
1	Economic Corridors	211	6,588	4	133	215	6,721	2,104
2	Inter Corridor Routes	65	2,496	4	137	69	2,633	743
3	Feeder Routes	20	727	1	17	21	744	181
4	National Corridor	65	1,839	1	66	66	1,904	858
5	National Corridor Efficiency Improvement	27	738	0	0	27	738	417
6	Expressway	84	2,412	0	0	84	2,412	613
7	Border Roads & International Connectivity	17	1,441	0	0	17	1,441	1,134
8	Coastal Roads	2	77	0	0	2	77	54
9	Port Connectivity	9	193	0	0	9	193	15
Bharatmala Total		500	16,509	10	353	510	16,862	6,120
10	NHDP	148	5,738	2	25	150	5,762	2,868
Grand Total		648	22,247	12	377	660	22,624	8,988

**8.2.2 Improvement of road connectivity in Left Wing Extremism (LWE) affected areas**

**8.2.2.1** The Government has approved a scheme for development of about 1,177 Km of NHs and 4,276 Km of State Roads in Left Wing Extremism (LWE) affected areas as a Special Project with an estimated cost of about Rs. 7,300 Crore. As on 30<sup>th</sup> March,

2022, the detailed estimates for 5,422 Km length have been sanctioned at an estimated cost of Rs. 8,946 Crore, out of which, works on 5,422 Km length costing Rs. 8,996 Crore have been awarded. Development in 5,081 Km length has been completed and cumulative expenditure incurred so far is Rs. 8,466 Crore.

### 8.2.2.2 Development of Vijayawada Ranchi route

Out of 1,622 Km long LWE affected Vijayawada - Ranchi route, development of 600 Km (net length 592 Km) of State Roads in Odisha (549 Km Newly declared NH and 43 Km SH), not covered in any Central or State Scheme has been approved by the Government at a cost of Rs 1,200 crore on 4<sup>th</sup> November, 2010.

So far, the detailed estimates for all the 9 packages in an aggregate length of 592 Km have been sanctioned at an estimated cost of Rs. 1,347 crore and works were awarded. The development on 592 Km has been completed at a cumulative expenditure of Rs. 1,112 crore.

### 8.2.3 Special Accelerated Road Development Programme for North-Eastern region (SARDP-NE)

The scheme has been envisaged to be taken up under three parts as under:

- (i) **Phase 'A'** of SARDP-NE approved by the Government envisages improvement of about 4,099 Km length of roads (3,014 Km of NH and 1,085 Km of State roads). However actual length as per DPR is 4,007 Km. Out of 4,007 Km 3,654 Km roads has been approved for execution and balance 353 Km is yet to be awarded. Till March, 2022, 2,970 Km of road has been completed. The SARDP-NE Phase 'A' is expected to be completed by March, 2024.
- (ii) **Phase 'B'** of SARDP-NE, covers 3,723 Km (2,210 Km NHs and 1,513 Km of State

roads) of road. Phase 'B' SARDP-NE shall be taken up after completion of Phase 'A'.

- (iii) **Arunachal Pradesh Package:** The Arunachal Pradesh Package for Road & Highways involving development of about 2,319 Km length of road (2,205 Km of NHs & 114 Km of State / General Staff / Strategic Roads) has also been approved by the Government. Projects on 776 Km are to be taken up on BOT (Annuity) mode and the remaining are to be developed on EPC mode / Item Rate Contract as per Ministry's extant policy. However actual length as per DPR is 1,991 Km. Till March, 2022, projects in total length of about 1,991 Km have been awarded out of which 1,244 Km has been completed. The entire Arunachal Pradesh package is targeted for completion by March, 2024.

An amount of Rs. 45,840 crore has been spent in SARDP-NE including Arunachal Pradesh Package of roads.

### 8.2.4. Externally Aided Projects

#### 8.2.4.1 National Highway Interconnectivity Improvement Programme (NHIIP) by World Bank Loan Assistance

- (i) About 1,120 Km approved length [aggregate length- 1,087 Km at an revised cost of Rs. 6,461 Km] of NHs are to be improved to 2-lane NH standards following corridor development approach under the World Bank Loan Assistance in Phase-I. Loan Agreement for Phase-I (1,120 Km under first tranches of Loan Assistance of US\$ 500 Million) was signed with World Bank on 1<sup>st</sup> July, 2014.



- (ii) For the proposed execution of projects under World Bank Loan Assistance as mentioned above, the cost of LA and utility shifting are to be borne by the Government of India as per the policy of the World Bank. Till March 2022, 1,020 Km of length has been completed with total expenditure of Rs. 5,600 crore.

- (iii) NHIIP loan has been closed on 30.09.2020 and balance works of NHIIP scheme have been transferred in Green National Highways Corridor Project (GNHCP) scheme with the Loan Assistance of World Bank.

#### **8.2.4.2 Green National Highways Corridor Project (GNHCP) with the Loan Assistance of World Bank**

- (i) The project aims at up-gradation and rehabilitation to 2-lane/2-lane with paved shoulders/4-lane configuration, and strengthening of stretches of various National Highways covering a total length of 781.38 Km in the States of Himachal Pradesh, Rajasthan, Uttar Pradesh and Andhra Pradesh, with loan assistance of the World Bank with a total loan amount of US \$ 500 Million and total project cost of Rs. 7,662.47 crores. Till March - 2022, projects in a length of 704 Km has been awarded and projects in about 288 Km length has been started and 45 Km length has been completed.
- (ii) For the proposed execution of projects under World Bank Loan Assistance as mentioned above, the cost of LA and utility

shifting are to be borne by the Government of India as per policy of the World Bank. The loan agreement for the project is signed on 22.12.2020.

#### **8.2.4.3 Japan International Cooperation Agency (JICA) Loan Assistance**

- (i) 24 projects (on 8 NH stretches) having NH length of about 807 Km amounting to about Rs. 19508 crore are to be improved under the Loan Assistance from JICA. For the proposed execution of projects the cost of LA and utility shifting are to be borne by the Government of India. Out of these 24 projects, 22 projects are to be executed by NHIDCL, 1 project each is being executed by the Ministry through State PWD (BSRDCL) and by NHAI.
- (ii) The Ministry has awarded 92.935 Km, Gaya- Rajgir - Nalanda – Bihar Sharif section of NH 82 in the State of Bihar at sanctioned cost of Rs. 2,138 crore. The loan component of this project is JP¥ 21.426 billion (Rs. 1,410 crore). About 65 Km of length has already been completed of this stretch. Initially work was delayed due to non-availability of land & slow progress of Contractor. Now, encumbrance free land is available. The overall progress of the project is 75% achieved till March, 2022. It is expected that work is expected to complete till 31.12.2022.
- (iii) NHAI awarded 127 Km, Patna – Gaya - Dhobi section of NH 22 in the State of Bihar with sanctioned cost of Rs. 1,795 crore. The loan component of this project is

JP¥22.903 billion (Rs. 1, 552.95 cr). Due to poor performance of the Company as well as Company going to NCLT, the project has been foreclosed. Work has been re-awarded in 3 packages & the overall progress of the project is 25% achieved. It is expected that work is expected to complete till 31.12.2022.

- (iv) Remaining 22 nos. projects (on 6 NH stretches) are with NHIDCL in a length of 588 Km amounting to Rs. 15,575 crore. Although, all 22 projects above are in progress and one project (Widening to 2-lane Tura Dalu) having 45% physical progress is likely to be completed during FY 2022-23.

#### **8.2.4.4 Asian Development Bank (ADB) Loan Assistance**

- (i) The Ministry awarded 2 projects of about 127.84 Km length in the State of West Bengal at revised cost of Rs. 1,659 crore. The loan component of this project is US\$ 145 Million. 100% work has been completed in July/November, 2019.
- (ii) 3 projects with NHIDCL [length 67 Km, Rs.1,789 crore] – Two Projects i.e., (Mehi Bridge) and (2 Laning Imphal-Moreh section from Km 350 to 395.68) have been completed in FY 2021-22 whereas (2/4 L Imphal-Moreh section from Km 330 to 350) is in progress with physical progress of 56.51%.

#### **8.2.5 Char Dham Pariyojana**

- (i) The Ministry has taken up the connectivity Improvement Program for Char-Dham (Kedarnath, Badrinath, Yamunotri & Gangotri) in Uttarakhand. The program includes projects of improvement /development of 827 Km length of NHs at total estimated cost of about Rs. 12,070 crore. The projects include provisions like widening of existing narrow & geometrically deficient NHs to 2-Lane NH standards with paved shoulders, protection of landslide prone zones, construction of bypasses, long bridges, tunnels, bus /truck lay bye /rest area and elevated corridors.
- (ii) Out of total 53 civil works covering the entire length under Char Dham project, 41 civil works of total project cost amounting to Rs. 9,733 crore (including cost of pre-construction works amounting to Rs. 491 cr.) in a length of 678 Km have been sanctioned. 38 works in a length of 647 Km amounting to Rs. 8,379 cr. have been awarded out of which 19 works amounting to Rs. 5,590 cr. in length of 384 Km are ongoing and 19 works amounting to Rs. 2,788 cr. in a length of 262 Km have been completed. Regarding the balance 3 no. of sanctioned works, 1 work in length of 2.52 Km and cost of Rs. 143.78 crores has been de-sanctioned, DPR of one work in length of 22.647 Km is to be revised as per Orders dated 14.12.2021 of Hon'ble Supreme Court and one work in length of 6.35 Km & cost of Rs. 258.85 Cr. is in Tender Stage. For the remaining 12 works which are yet to be sanctioned, DPRs are being finalised as

per decision of the Hon'ble Supreme Court dated 14.12.2021. Physical progress of ongoing works is 87.43%, total length of 567 Km has been completed out of awarded length of 647 Km. The program is targeted for completion by December 2024.

**8.2.6** In addition to above, works for strengthening, widening, geometric improvements and works on missing link of existing NHs are taken up under National Highways (Original) [NH(O)] as per availability of fund, inter-se priority, traffic density, committed spill over liabilities of previous years' sanctions and available allocation for the year.

### 8.3 Rectification of Accident Black Spots

High priority has been accorded for identification and rectification of black spots (accidents prone spots on National Highways). Concerted efforts towards improvement of road safety through engineering measures on National Highways have been made. So far 5,803 no of black spots have been identified and out of this, 3,709 no of black spots have been rectified so far. Identification and rectification of Black Spots is a continuous process.

**Table 8.1 Award and Construction of NH from 2014-15 to 2019-20**

(Length in Km)

Information regarding the period 2014 -15 to 2019-20						
	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Award of NHs/ Road projects (Km)	7,972	10,098	15,948	17,055	5,494	8,948
Construction of NHs/ Roads (Km)	4,410	6,061	8,231	9,829	10,855	10,237
Road construction in Km per day	12.08	16.6	22.55	26.92	29.73	28.04

Source : Planning Division, MoRTH

**Table 8.2: Central Road Sector Outlay (at RE stage) and Expenditure (At Current Price)  
for the period 2014-15 to 2019-20**

Amount in Rs. Crore

Sl. No.	Particular	2014-15		2015-16		2016-17		2017-18		2018-19		2019-20	
		RE	Expd	RE	Expd	RE	Expd	RE	Expd	RE	Expd	RE	Expd
	<b>Central Sector Roads</b>												
1	Capital	24,709	24,433	40,897	40,520	41,289	40,609	50,137	49,673	68,070	66,796	72,627	66,630
2	Revenue	2,607	2,539	2,770	2,569	2,933	2,520	3,049	2,663	2,672	1,806	2,139	1,680
3	<b>Total (Central Sector Roads) [= (1)+(2)]</b>	<b>27,316</b>	<b>26,972</b>	<b>43,667</b>	<b>43,089</b>	<b>44,222</b>	<b>43,129</b>	<b>53,185</b>	<b>52,336</b>	<b>70,742</b>	<b>68,601</b>	<b>74,767</b>	<b>68,310</b>
4	CRIF(State Roads)	2,636	2,095	2,852	2,369	7,175	5,070	6,764	6,367	6,999	6,785	7,422	6,869
5	EI&ISC for State Roads – Capital	150	93	355	267	805	746	759	678	500	475	400	400
6	Road Transport	150	123	150	133	144	127	171	144	258	159	273	143
7	Secretariat Expd.	78	75	84	81	102	100	120	111	127	117	155	136
8	<b>Total (Budget) [= (3) to (7)]</b>	<b>30,329</b>	<b>29,359</b>	<b>47,108</b>	<b>45,940</b>	<b>52,447</b>	<b>49,172</b>	<b>61,000</b>	<b>59,636</b>	<b>78,626</b>	<b>76,137</b>	<b>83,016</b>	<b>75,857</b>
	<b>Other Resources</b>												
9	IEBR	7,611	3,343	42,695	23,281	59,279	33,118	59,279	50,533	62,000	61,217	75,000	74,988
10	Other Sources (Project based Finacing, InvIT)	0	0	0	0	0	0	0	0	0	0	0	0
11	<b>Grand Total (Budget + Other Resources) [= (8)+(9)+(10)]</b>	<b>37,940</b>	<b>32,702</b>	<b>89,803</b>	<b>69,221</b>	<b>1,11,726</b>	<b>82,290</b>	<b>1,20,279</b>	<b>1,10,169</b>	<b>1,40,626</b>	<b>1,37,354</b>	<b>1,58,016</b>	<b>1,50,845</b>
12	Private Sector Investment	19,232	19,232	29,770	29,770	26,850	16,029	32,400	16,501	25,000	21,605	25,000	21,926
13	<b>Total Investment [= (11)+(12)]</b>	<b>57,172</b>	<b>51,935</b>	<b>1,19,573</b>	<b>98,991</b>	<b>1,38,576</b>	<b>98,319</b>	<b>1,52,679</b>	<b>1,26,670</b>	<b>1,65,626</b>	<b>1,58,959</b>	<b>1,83,016</b>	<b>1,72,771</b>

**Table 8.3**  
**The State/UT-wise details of Fund Allocation/Utilized for Development of NHs**

Amount in Rs. crore

Sl. No.	States/UTs/ Schemes/ Agency	Allocation								Expenditure					
		2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
1	Andhra Pradesh	188.04	221.45	1,039.42	2,010.31	1,781.18	2,260.26	1,808.90	187.62	221.45	1,000.43	2,014.50	1,780.70	2,054.04	2,010.60
2	Arunachal Pradesh	1.09	0.5	2.4	100	62.05	90	80.66	1.09	0.5	1.83	90.66	62.05	88.96	80.66
3	Assam	205.1	141.76	78.79	177.44	308.05	413.99	430.47	199.41	141.76	78.09	137.8	307.75	421.27	428.35
4	Bihar	304.57	276.65	706.92	1,362.64	1,689.90	1,598.31	1,899.14	271.33	276.65	707.86	1,331.61	1,523.88	1,554.30	1,552.55
5	Chhattisgarh	43.35	71.25	359.94	1,553.30	1,107.93	1,831.32	709.16	25.29	71.25	339.8	1,495.68	1,071.58	1,341.81	697.1
6	Goa	20.66	17.72	120	400	527.48	940	1,003.78	20.66	17.72	119.98	434.51	527.48	973.24	976
7	Gujarat	146.54	206.96	228.6	251.87	166.08	391.55	544.9	140.91	206.96	225.77	213.41	163.29	389.91	719
8	Haryana	53.51	60.48	90	150	105.17	330	104.89	53.51	60.48	89.85	161.27	105.17	374.8	108.41
9	Himachal Pradesh	100.44	134.57	140	210.95	307.14	350.8	160.18	99.74	134.57	139.96	182.14	305.69	327.65	98.77
10	Jammu & Kashmir	0	0	25	40.06	35.44	45	49.95	0	0	22.86	23.16	35.44	44.44	26.48
11	Jharkhand	70.32	63.83	35	200	260.88	320	163.35	70.32	63.83	38.08	212.5	260.88	319.96	181.72
12	Karnataka	165.85	269.72	633.43	783.52	1,240.99	1,630.02	1,360.69	164.55	269.72	639.55	871.96	1,202.70	1,560.90	1,292.80
13	Kerala	272.73	67.18	132.24	259.89	171.74	280.45	293.84	258.84	67.18	137.65	237.8	171.74	300.76	326.92
14	Madhya Pradesh	155.01	239.23	937.76	1,760.00	854.79	1,665.00	2,279.38	150.67	239.23	928.29	1,558.90	854.79	1,887.28	2,535.25
15	Maharashtra	177.23	190.04	431.2	1,371.92	2,966.03	7,050.88	10,340.82	177.01	190.04	423.28	1,154.00	2,964.15	7,445.16	10,997.57
16	Manipur	54.72	32.6	40	25.25	75.85	260.21	397	54.39	32.6	40	18.65	75.47	259.65	392
17	Meghalaya	35.7	43.3	15	41.27	30.22	70.97	35.3	33.61	43.3	15	28.44	28.28	57.76	20.3
18	Mizoram	22.11	39.53	35	40	41	80	84.96	20.57	39.53	28.5	46.13	41	79.91	84.96
19	Nagaland	44.65	46.2	50	50	38.27	200	445.25	44.65	46.2	46.27	38.84	38.27	199.76	413.72
20	Odisha	233.22	322.99	591.44	925.55	708.4	790.47	451.26	231.51	322.99	592.24	951.35	717.08	773.93	462.24
21	Punjab	113.78	2,328.04	1,852.26	2,740.50	746.02	786.18	882.84	113.24	2,328.04	1,855.24	2,702.48	745.8	808.34	1,020.44
22	Rajasthan	215.5	107.16	849.95	964.83	888.27	1,295.87	1,123.66	213.85	107.16	849.56	1,012.99	886.08	1,290.32	1,061.50
23	Sikkim	0	0	0	0	5.09	0.73	0	0	0	0	0	5.09	0.09	0
24	Tamil Nadu	210.24	167.13	337.02	575	664.48	870	530.43	210.24	167.13	336.47	640.11	664.48	883.95	423.1
25	Telangana	0	210.79	661	380	409.93	1,220.00	1,515.19	0	210.79	657.1	358.43	409.93	1,212.83	1,494.45
26	Tripura	0	0	5	5	61	50	65	0	0	0	2.38	61	50.42	62.39
27	Uttar Pradesh	289.54	493.81	1,530.34	1,849.02	1,110.79	2,040.05	1,838.27	284.35	493.81	1,527.74	1,820.85	1,106.96	1,995.79	1,755.07
28	Uttarakhand	87.84	169.51	245.92	332.62	980.67	1,000.49	964.35	85.9	169.51	245.69	314.48	980.14	1,010.76	1,053.90
29	West Bengal	134.1	283.61	808.95	1,333.62	1,229.89	991	805.99	134.1	283.61	811.98	1,223.19	1,184.69	980.37	792.02
30	Andaman & Nicobar Islands	0	14.61	2	0.13	0	0	0.42	0	14.61	1.53	0.13	0	0	0

table contd...

Table 8.3 Contd..

Sl. No.	States/UTs/ Schemes/ Agency	Allocation								Expenditure					
		2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
31	Chandigarh	0	4.95	1	2	5.3	1.5	5	0	4.95	0	0.69	5.3	1.49	0
32	Dadar & Nagar Haveli						2	11.78						0	0
33	Daman & Diu						2	8						0	0
34	Delhi	0	0.02	1	1	36	3	3	0	0.02	0	0.62	23.01	0	0
	Ladakh														
35	Puducherry	0	12.73	20	20	13.63	30	1.5	0	12.73	18.1	14.28	13.63	12.64	0.94
	First Come first served for State/UT under NH(O) 2019-20 (Expd. Included in States/UTs)														
36								1,513.14							
<b>A</b>	<b>Sub Total (Sr. 1 to 33)</b>	<b>3,345.84</b>	<b>6,238.32</b>	<b>12,006.58</b>	<b>19,917.69</b>	<b>18,629.66</b>	<b>28,892.05</b>	<b>31,912.45</b>	<b>3,247.36</b>	<b>6,238.32</b>	<b>11,918.70</b>	<b>19,293.94</b>	<b>18,323.50</b>	<b>28,702.49</b>	<b>31,069.21</b>
37	Other projects under NH(O)*	341.42	761.17	515	781.38	214	2.75	4	341.3	715.68	445.55	779.72	211.92	2.36	2.3
38	National Highways Authority of India (NHAI)- Cess*	6,857.45	6,885.89	15,420.00	2,326.50	12,429.45	11,569.00	11,091.00	6,857.45	6,885.89	15,420.00	2,326.50	12,429.45	11,569.00	11,091.00
39	NHAI- Toll	4,770.00	5,448.00	6,500.00	7,500.00	8,462.14	9,570.13	10,600.00	4,770.00	5,448.00	6,500.00	7,500.00	8,462.14	9,570.13	10,600.00
40	NHAI- NH(O)	944.84	600	370.27	5,389.02	3,900.00	0	1,000.00	944.82	600	370.27	5,389.02	3,900.00	0	1,000.00
41	NHAI-TOT						9,681.50	10,000.00						9,681.50	5,000.00
	National Highways & Infrastructure														
42	Development Corporation Ltd. (NHIDCL) under NH(O)*	-	-	1.15	72.2	296	1,000.00	2,165.00	-	-	1.15	72.2	296	1,000.00	2,165.00
43	Border Roads Organization (BRO)*	434	292	0	0	0	135	355.92	414.25	268.79	0	0	0	135	353.88

table contd...

Table 8.3 Concltd..

Sl. No.	States/UTs/ Schemes/ Agency	Allocation								Expenditure					
		2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
44	Special Accelerated Road Development Programme for North-East Region (SARDP-NE) including Arunachal Package*	2,994.00	3,000.00	4,900.00	4,520.00	4,865.00	5,610.00	3,680.00	3,009.27	2,843.33	4,803.07	4,464.71	4,837.77	5,345.00	3,592.08
45	Special Programme for development of Roads In Left Wing Extremism affected Area (LWE) including Development of Vijayawada-Ranchi Road	1,035.00	1,174.00	1,121.00	760	1,050.00	905	480	1,021.02	1,164.59	996.11	739.27	901.86	552.03	409.05
46	Externally Aided Projects - Head Quarters#, NHAI, NHIDCL	42.5	276	45.83	59.38	316	222	1,322.00	0	239.93	9.25	56.72	283.41	219.23	1,303.59
B	Sub Total (Sr. 34 to 42)	17,419.21	18,437.06	28,873.25	21,408.48	31,532.59	38,695.38	40,697.92	17,358.11	18,166.21	28,545.40	21,328.14	31,322.55	38,074.25	35,516.90
	Total (A+B)	20,765.05	24,675.38	40,879.83	41,326.16	50,162.25	67,587.43	72,610.37	20,605.47	24,404.53	40,464.10	40,622.08	49,646.05	66,776.74	66,586.11
47	IEBR / Borrowings by NHAI	8,000.00	7,611.11	42,694.50	59,279.00	59,279.00	62,000.00	75,000.00	7,942.13	3,343.40	23,281.00	33,118.00	50,533.00	61,217.00	74,988.00

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# ANNEXURES

## Total and Surfaced Road Length By Categories in India as on 31.03.2020 (in km)

S. No.	Category	Sub Category	Category wise Total Road length (% share of Total Road length)	Percent	Category wise Surfaced road length (% age of col. 4)
1	2	3	4	5	6
1	<b>National Highways</b>		<b>1,32,995</b>	<b>2.09</b>	<b>1,32,995</b>
2	<b>State Highways</b>		<b>1,78,749</b>	<b>2.81</b>	<b>1,77,710</b>
3	<b>District roads</b>		<b>6,16,964</b>	<b>9.70</b>	<b>5,92,587</b>
4	<b>Rural Roads*</b>		<b>35,95,948</b>	<b>56.54</b>	<b>24,33,780</b>
		PMGSY Roads	7,98,690		6,53,254
		PWD/RWD Roads	8,11,438		6,58,363
		Panchayati Raj Roads	19,85,820		11,22,163
5	<b>Urban Roads</b>		<b>5,48,394</b>	<b>8.62</b>	<b>4,42,295</b>
		Municipal Roads	5,15,593		4,10,534
		MES Roads	18,140		18,027
		Major Port Roads	674		673
		Minor Port Roads	927		868
		Railway Roads	13,060		12,193
6	<b>Project Roads</b>		<b>3,86,954</b>	<b>6.08</b>	<b>1,66,879</b>
		Forest Department Roads	2,04,217		78,564
		BRO Roads	19,165		17,319
		Coal Mine Roads	4,777		4,379
		Electricity Department Roads	4,651		4,088
		Irrigation Department Roads	1,35,792		47,951
		Sugarcane Authorities Roads	15,404		11,760
		SAIL & NMDC Roads	2,950		2,819
<b>Total* (Excluding JRY Roads)</b>			<b>54,60,004</b>		<b>39,46,246</b>
<b>Total** (Including JRY Roads)</b>			<b>63,60,004</b>		<b>41,29,448</b>

Note : (1) Totals may not add up due to rounding off of decimals.

(2) \* Excludes 9 lakh km length of rural roads constructed under Jawahar Rozgar Yojana (JRY)

(3) \*\* Includes 9 lakh km length of rural roads constructed under Jawahar Rozgar Yojana (JRY) from 1990-1999.

## Road Length By Categories and by type of Surface in India as on 31.03.2020

S. No.	Category	Sub Category	Total (6+7)	Surfaced			Un-surfaced
				WBM/WMM	BT/CC	Total (4+5)	
1	2	3	4	5	6	7	
1	National Highways	1,32,995	0	1,32,995	1,32,995	0	
2	State Highways	1,78,749	845	1,76,865	1,77,710	1,039	
3	District roads	6,16,964	26,420	5,66,167	5,92,587	24,377	
4	Rural Roads* (excluding JRY)	35,95,948	3,06,453	21,27,327	24,33,780	11,62,168	
	PMGSY Roads	7,98,690	27,151	6,26,103	6,53,254	1,45,436	
	PWD/RWD Roads	8,11,438	65,715	5,92,648	6,58,363	1,53,075	
	Panchayati Raj Roads	19,85,820	2,13,587	9,08,576	11,22,163	8,63,657	
5	Urban Roads	5,48,394	42,336	3,99,959	4,42,295	1,06,099	
	Municipal Roads	5,15,593	39,552	3,70,983	4,10,534	1,05,059	
	MES Roads	18,140	1,365	16,662	18,027	113	
	Major Port Roads	674	54	619	673	0	
	Minor Port Roads	927	66	802	868	59	
	Railway Roads	13,060	1,299	10,893	12,193	867	
6	Project Roads	3,86,955	66,791	1,00,088	1,66,879	2,20,075	
	Forest Department Roads	2,04,217	40,648	37,916	78,564	1,25,653	
	BRO Roads	19,165	688	16,631	17,319	1,846	
	Coal Mine Roads	4,777	707	3,671	4,379	398	
	Electricity Department Roads	4,651	913	3,174	4,088	563	
	Irrigation Department Roads	1,35,792	23,741	24,211	47,951	87,840	
	Sugarcane Authorities Roads	15,404	5	11,755	11,760	3,643	
	SAIL & NMDC Roads	2,950	89	2,730	2,819	131	
Total* (Excluding JRY Roads)		54,60,004	4,42,845	35,03,401	39,46,246	15,13,758	
Total** (Including JRY Roads)		63,60,004	6,26,047	35,03,401	41,29,448	22,30,556	

Note : (1) Totals may not add up due to rounding off of decimals.

(2) \* Excludes 9 lakh km length of rural roads constructed under Jawahar Rozgar Yojana (JRY)

(3) \*\* Includes 9 lakh km length of rural roads constructed under Jawahar Rozgar Yojana (JRY) from 1990-1999.

## State/UT wise Total &amp; Surfaced Length of Roads in India

as on 31.03.2020

(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	Andhra Pradesh	1,78,676	1,19,584
2	Arunachal Pradesh	52,916	37,357
3	Assam	4,50,290	1,11,771
4	Bihar	2,99,576	2,30,666
5	Chhattisgarh	1,11,624	85,019
6	Goa	18,972	14,027
7	Gujarat	2,60,627	2,30,249
8	Haryana	53,738	44,165
9	Himachal Pradesh	68,116	47,157
10	Jharkhand	83,962	68,688
11	Karnataka	3,69,687	2,20,524
12	Kerala	2,58,375	1,79,741
13	Madhya Pradesh	3,69,271	3,16,628
14	Maharashtra	6,09,872	4,57,357
15	Manipur	32,694	19,249
16	Meghalaya	44,241	21,221
17	Mizoram	19,418	11,557
18	Nagaland	37,844	19,155
19	Odisha	3,03,923	2,13,016
20	Punjab	1,48,768	1,36,207
21	Rajasthan	2,65,588	2,35,683
22	Sikkim	12,296	9,473
23	Tamilnadu	2,72,974	2,28,217
24	Telangana	1,41,400	1,06,581
25	Tripura	35,340	28,452
26	Uttarakhand	63,679	45,914
27	Uttar Pradesh	4,59,846	3,91,265
28	West Bengal	2,85,197	2,01,912
29	A & N Islands	1,892	1,752
30	Chandigarh	2,592	2,592
31	Dadra & Nagar Haveli	1,161	1,161
32	Daman & Diu	251	251
33	Delhi	17,786	17,726
34	Jammu And Kashmir	1,18,791	84,052
35	Ladakh	2,826	2,565
36	Lakshadweep	223	223
37	Puducherry	5,572	5,090
<b>Total *</b>		<b>54,60,004</b>	<b>39,46,246</b>

\* Excludes JRY Roads

**Total Road Length and Percentage Share of Each Category of Road to total road length (1951-2020)**  
(in km)

Year (as on 31 <sup>st</sup> March)	National Highways	State Highways	Other PWD Roads	District Roads	Panchayat Raj Roads	JRY & PMGSY Roads*	Rural Roads built by State PWD / RWD	Urban Roads	Project Roads	Surfaced	Total (Col. 2+3+4 +5+6+7+8+ 9+10)
1	2	3	4	5	6	7	8	9	10	11	12
1951	19,811	#	1,73,723		2,06,408	0		0	0	1,57,019	3,99,942
	4.95	0	43.44		51.61	0		0	0	39.26	100
1961	23,798	#	2,57,125		1,97,194	0		46,361	0	2,63,052	5,24,478
	4.54	0	49.02		37.60	0		8.84	0	50.16	100
1971	23,838	56,765	2,76,833		3,54,530	0		72,120	1,30,893	3,97,948	9,14,979
	2.61	6.20	30.26		38.75	0		7.88	14.31	43.49	100
1981	31,671	94,359	4,21,895		6,28,865	0		1,23,120	1,85,511	6,83,676	14,85,421
	2.13	6.35	28.40		42.34	0		8.29	12.49	46.03	100
1991	33,650	1,27,311	5,09,435		9,31,288	3,29,142		1,86,799	2,09,737	10,90,167	23,27,362
	1.45	5.47	21.89		40.01	14.14		8.03	9.01	46.84	100
2001	57,737	1,32,100	7,36,001		10,68,020	9,03,996		2,52,001	2,23,665	16,01,745	33,73,520
	1.71	3.92	21.82		31.66	26.80		7.47	6.63	47.48	100
2002	58,112	1,37,711	6,95,335		11,34,326	9,26,697		2,50,295	2,24,124	16,61,555	34,26,600
	1.70	4.02	20.29		33.10	27.04		7.30	6.54	48.49	100
2003	58,112	1,34,807	6,96,960		11,55,491	9,26,697		2,97,259	2,59,328	17,01,258	35,28,654
	1.65	3.82	19.75		32.75	26.26		8.42	7.35	48.21	100
2004	65,569	1,33,177	7,19,257		11,89,058	9,51,511		3,01,310	2,61,625	17,60,768	36,21,507
	1.81	3.68	19.86		32.83	26.27		8.32	7.22	48.62	100
2005	65,569	1,44,396	7,86,230		12,99,463	9,66,976		2,86,707	2,59,815	17,95,298	38,09,156
	1.72	3.79	20.64		34.11	25.39		7.53	6.82	47.13	100
2006	66,590	1,48,090	8,03,669		13,18,258	9,89,867		2,91,991	2,62,186	18,58,684	38,80,651
	1.72	3.82	20.71		33.97	25.51		7.52	6.76	47.90	100
2007	66,590	1,52,235	8,35,003		13,72,867	10,20,621		3,00,580	2,68,505	19,44,758	40,16,401
	1.66	3.79	20.79		34.18	25.41		7.48	6.69	48.42	100
2008	66,754	1,54,522	8,63,241		13,88,750	10,61,809		3,04,327	2,70,189	20,36,063	41,09,592
	1.62	3.76	21.01		33.79	25.84		7.41	6.57	49.54	100
2009	70,548	1,58,497	9,62,880		15,14,952	11,14,213		3,73,802	2,76,617	23,24,504	44,71,510
	1.58	3.54	21.53		33.88	24.92		8.36	6.19	51.98	100
2010	70,934	1,60,177	9,77,414		15,18,205	11,74,330		4,02,448	2,78,931	24,32,813	45,82,439
	1.55	3.50	21.33		33.13	25.63		8.78	6.09	53.09	100
2011	70,934	1,63,898	9,98,895		15,30,366	12,19,438		4,11,679	2,81,628	25,24,682	46,76,838
	1.52	3.50	21.36		32.72	26.07		8.80	6.02	53.98	100
2012	76,818	1,64,360	10,22,287		15,87,787	12,50,433		4,64,294	2,99,415	26,98,590	48,65,394
	1.58	3.38	21.01		32.63	25.70		9.54	6.15	55.46	100
2013	79,116	1,69,227	10,66,747		17,25,318	14,34,321		4,46,238	3,10,955	31,71,002	52,31,922
	1.51	3.23	20.39		32.98	27.41		8.53	5.94	60.61	100
2014	91,287	1,70,818	10,82,267		18,00,747	15,03,581		4,57,467	2,96,319	25,335	54,02,486
	1.69	3.16	20.03		33.33	27.83		8.47	5.48	0.47	100
2015	97,991	1,67,109	11,01,178		18,31,043	15,06,212		4,67,106	3,01,505	33,41,008	54,72,144
	1.79	3.05	20.25		33.46	27.53		8.54	5.51	61.05	100
2016	1,01,011	1,76,166.00		5,61,940	18,60,573	15,26,377	5,48,387	5,09,730	3,19,109	35,01,906	56,03,293
	1.80	3.14		10.03	33.20	27.24	9.78	9.10	5.70	62.49	100
2017	1,14,158	1,75,036		5,86,181	19,35,693	15,84,343	6,46,880	5,26,483	3,28,897	37,29,781	58,97,671
	1.94	2.97		9.94	32.82	26.86	10.97	8.93	5.58	63.63	100
2018	1,26,350	1,86,908		6,11,268	20,02,379	16,31,234	7,75,970	5,34,142	3,47,547	37,48,291	62,15,797
	2.03	3.01		9.83	32.02	26.33	13.00	8.59	5.59	63.25	100
2019	132499	179535		612778	1978794	1670904	872530	541554	343163	4095725	6331757
	2.09	2.83		9.67	31.25	26.38	13.78	8.55	5.42	67.00	100
2020	1,32,995	1,78,749		6,16,964	19,85,820	16,98,690	8,11,438	5,48,394	3,86,954	41,29,448	63,60,004
	2.09	2.81		9.70	31.22	26.71	12.76	8.62	6.08	64.93	100

Note : (1) # Included in Other PWD Roads.

(2) Totals may not add up due to rounding off of decimals.

(3) The second row of each year indicates the percentage share of each category of roads to the total road length.

(4) \* Includes roads constructed under PMGSY launched in December 2000 and JRY launched in 1989-90.

(5) JRY road lengths for years since 1996-97 are the same as on 31.3.1996.

**Length of National Highways in India as on 31.03.2020 (State/UT-Wise)**  
(in km)

S. No.	Name of State/ UT	Length of NH
1	2	3
1	Andhra Pradesh	6,913
2	Arunachal Pradesh	2,537
3	Assam	3,909
4	Bihar	5,387
5	Chhattisgarh	3,606
6	Goa	293
7	Gujarat	6,900
8	Haryana	3,166
9	Himachal Pradesh	2,607
10	Jharkhand	3,367
11	Karnataka	7,335
12	Kerala	1,782
13	Madhya Pradesh	8,772
14	Maharashtra	17,931
15	Manipur	1,750
16	Meghalaya	1,156
17	Mizoram	1,423
18	Nagaland	1,548
19	Odisha	5,762
20	Punjab	3,324
21	Rajasthan	10,342
22	Sikkim	463
23	Tamil Nadu	6,742
24	Telangana	3,795
25	Tripura	854
26	Uttarakhand	2,949
27	Uttar Pradesh	11,708
28	West Bengal	3,664
29	Andaman & Nicobar Island	331
30	Chandigarh	15
31	Dadar & Nagar Haveli	59
32	Daman & Diu	0
33	Delhi	157
34	Jammu & Kashmir	2,423
35	Ladakh	0
36	Lakshadweep	0
37	Puducherry	27
<b>Total</b>		<b>1,32,995</b>

Source : Roads Wing : Ministry of Road Transport & Highways

Note: All National Highways are surfaced

**Total and Surfaced Length of State Highways in India as on 31.03.2020 (State/UT-wise)**  
(in km)

S.No.	Name of State / UT	Total	Surfaced
1	2	3	4
1	Andhra Pradesh	13,500	13,500
2	Arunachal Pradesh <sup>s</sup>	13,500	13,500
3	Assam	2,530	2,452
4	Bihar	3,714	3,714
5	Chhattisgarh	4,137	4,059
6	Goa	279	279
7	Gujarat	16,557	16,490
8	Haryana	1,602	1,602
9	Himachal Pradesh	0	0
10	Jharkhand	1,232	1,232
11	Karnataka	19,469	19,446
12	Kerala	4,128	4,128
13	Madhya Pradesh	11,389	11,389
14	Maharashtra	31,992	31,394
15	Manipur	781	661
16	Meghalaya	809	809
17	Mizoram	170	170
18	Nagaland	650	650
19	Odisha	4,211	4,211
20	Punjab	859	859
21	Rajasthan	15,165	15,128
22	Sikkim	663	663
23	Tamil Nadu	11,169	11,169
24	Telangana	2,087	2,085
25	Tripura	1,057	1,057
26	Uttarakhand	4,469	4,432
27	Uttar Pradesh	8,322	8,322
28	West Bengal	3,646	3,646
29	Andaman & Nicobar Island	257	257
30	Chandigarh	9	9
31	Dadra & Nagar Haveli	30	30
32	Daman & Diu	22	22
33	Delhi	34	34
34	Jammu & Kashmir <sup>#</sup>	310	310
35	Ladakh	0	0
36	Lakshadweep	0	0
37	Puducherry	0	0
<b>Total</b>		<b>1,78,749</b>	<b>1,77,710</b>

*State Highways are constructed by State PWD/ Roads & Bridges Depts.*

*Note: \$ Clarification pending from state*

*# Data as on 31.03.2018*



**Length of State Highways in India - By Type of Surface as on 31.03.2020 (State/UT-wise)**  
(in km)

S.No.	Name of State/UT	Total Length (6+7)	Surfaced			Un-surfaced
			WBM/WMM	BT/CC	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh **	13,500	0	13,500	13,500	0
2	Arunachal Pradesh \$	13,500	0	13,500	13,500	0
3	Assam	2,530	0	2,452	2,452	78
4	Bihar	3,714	0	3,714	3,714	0
5	Chhattisgarh	4,137	148	3,911	4,059	78
6	Goa	279	6	274	279	0
7	Gujarat	16,557	39	16,451	16,490	67
8	Haryana	1,602	0	1,602	1,602	0
9	Himachal Pradesh	0	0	0	0	0
10	Jharkhand	1,232	0	1,232	1,232	0
11	Karnataka	19,469	22	19,425	19,446	22
12	Kerala	4,128	0	4,128	4,128	0
13	Madhya Pradesh	11,389	0	11,389	11,389	0
14	Maharashtra	31,992	368	31,026	31,394	598
15	Manipur**	781	20	641	661	120
16	Meghalaya	809	26	782	809	0
17	Mizoram	170	0	170	170	0
18	Nagaland	650	199	452	650	0
19	Odisha	4,211	1	4,210	4,211	0
20	Punjab	859	0	859	859	0
21	Rajasthan	15,165	4	15,124	15,128	37
22	Sikkim	663	0	663	663	0
23	Tamil Nadu	11,169	0	11,169	11,169	0
24	Telangana	2,087	0	2,085	2,085	2
25	Tripura	1,057	0	1,057	1,057	0
26	Uttarakhand	4,469	12	4,421	4,432	37
27	Uttar Pradesh	8,322	0	8,322	8,322	0
28	West Bengal	3,646	0	3,646	3,646	0
29	Andaman & Nicobar Island	257	0	257	257	0
30	Chandigarh	9	0	9	9	0
31	Dadra & Nagar Haveli **	30	0	30	30	0
32	Daman & Diu *	22	0	22	22	0
33	Delhi	34	0	34	34	0
34	Jammu & Kashmir#	310	0	310	310	0
35	Ladakh	0	0	0	0	0
36	Lakshadweep	0	0	0	0	0
37	Puducherry	0	0	0	0	0
<b>Total</b>		<b>1,78,749</b>	<b>845</b>	<b>1,76,865</b>	<b>1,77,710</b>	<b>1,039</b>

State Highways are constructed by State PWD/ Roads & Bridges Depts.

\* Figures is as on 31/03/2018-Data not received.

\*\* Figures is as on 31/03/2019-Data not received.

Note: \$ Clarification pending from state

# Data as on 31.03.2018

**Total & Surfaced Length of District Roads as on 31.03.2020 (State/UT-Wise)**  
(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	Andhra Pradesh	32,735	31,296
2	Arunachal Pradesh	9,278	5,061
3	Assam	6,118	5,686
4	Bihar	13,475	13,475
5	Chhattisgarh	12,300	11,997
6	Goa	1,243	1,243
7	Gujarat	31,088	30,709
8	Haryana	22,563	22,563
9	Himachal Pradesh	3,738	3,696
10	Jharkhand	11,504	11,504
11	Karnataka	49,526	48,864
12	Kerala	25,419	25,419
13	Madhya Pradesh	50,714	50,714
14	Maharashtra	1,10,362	1,01,258
15	Manipur	3,095	2,164
16	Meghalaya	4,661	3,941
17	Mizoram	2,084	1,918
18	Nagaland	5,129	2,913
19	Odisha	21,622	20,791
20	Punjab	7,208	7,208
21	Rajasthan	24,704	24,227
22	Sikkim	1,469	732
23	Tamil Nadu	48,236	48,236
24	Telangana	26,000	25,281
25	Tripura	461	461
26	Uttarakhand	4,811	4,523
27	Uttar Pradesh	55,026	55,026
28	West Bengal	10,441	10,435
29	Andaman & Nicobar Island	180	180
30	Chandigarh	83	83
31	Dadra & Nagar Haveli	190	190
32	Daman & Diu	59	59
33	Delhi	1,384	1,384
34	Jammu & Kashmir#	19,695	18,990
35	Ladakh	0	0
36	Lakshadweep	0	0
37	Puducherry	363	363
<b>Total</b>		<b>6,16,964</b>	<b>5,92,587</b>

*Notes: The District Roads comprise Major District Roads & Other District Roads constructed and maintained by State PWD/Roads & Bridges Depts.*

*@ Arunachal Pradesh has not yet made official classification of State Roads into State Highways, Major District Roads (MDR) and Other District Roads (ODR).*

*Differences in sum on account of rounding-off of decimals.*

*# Data as on 31.03.2018*

**Total and Surfaced Length of District Roads - By Type of Surface as on 31.03.2020 (State/UT-wise)**  
(in km)

S.No.	Name of State/UT	Total Length (6+7)	Surfaced			Un-Surfaced
			WBM/WMM	BT/CC	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	32,735	0	31,296	31,296	1,440
2	Arunachal Pradesh	9,278	2,059	3,002	5,061	4,217
3	Assam	6,118	0	5,686	5,686	432
4	Bihar	13,475	0	13,475	13,475	0
5	Chhattisgarh	12,300	223	11,774	11,997	303
6	Goa	1,243	1	1,242	1,243	1
7	Gujarat	31,088	119	30,590	30,709	379
8	Haryana	22,563	0	22,563	22,563	0
9	Himachal Pradesh	3,738	31	3,665	3,696	42
10	Jharkhand	11,504	0	11,504	11,504	0
11	Karnataka	49,526	797	48,067	48,864	662
12	Kerala	25,419	0	25,419	25,419	0
13	Madhya Pradesh	50,714	700	50,014	50,714	0
14	Maharashtra	1,10,362	10,852	90,406	1,01,258	9,105
15	Manipur	3,095	338	1,826	2,164	931
16	Meghalaya	4,661	226	3,715	3,941	721
17	Mizoram	2,084	0	1,918	1,918	166
18	Nagaland	5,129	1,780	1,133	2,913	2,217
19	Odisha	21,622	351	20,439	20,791	831
20	Punjab	7,208	0	7,208	7,208	0
21	Rajasthan	24,704	19	24,208	24,227	477
22	Sikkim	1,469	38	694	732	736
23	Tamil Nadu	48,236	0	48,236	48,236	0
24	Telangana	26,000	615	24,666	25,281	719
25	Tripura	461	0	461	461	0
26	Uttarakhand	4,811	33	4,490	4,523	288
27	Uttar Pradesh	55,026	0	55,026	55,026	0
28	West Bengal	10,441	33	10,402	10,435	6
29	Andaman & Nicobar Island	180	0	180	180	0
30	Chandigarh*	83	0	83	83	0
31	Dadra & Nagar Haveli	190	0	190	190	0
32	Daman & Diu*	59	0	59	59	0
33	Delhi	1,384	67	1,317	1,384	0
34	Jammu & Kashmir#	19,695	8,141	10,849	18,990	705
35	Ladakh	0	0	0	0	0
36	Lakshadweep	0	0	0	0	0
37	Puducherry	363	0	363	363	0
<b>Total</b>		<b>6,16,964</b>	<b>26,420</b>	<b>5,66,167</b>	<b>5,92,587</b>	<b>24,377</b>

Notes: The District Roads comprise Major District Roads & Other District Roads constructed and maintained by State PWD/ Roads & Bridges Depts.

\* Figures is as on 31/03/2018-Data not received.

\$ Figures is as on 31/03/2017-Data partially received.

# Data as on 31.03.2018

**Total & Surfaced Length of Rural Roads as on 31.03.2020 (State/UT-wise)**  
(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	Andhra Pradesh	1,02,009	53,419
2	Arunachal Pradesh	22,891	12,712
3	Assam	4,03,027	93,606
4	Bihar	2,60,171	1,97,828
5	Chhattisgarh	62,278	45,983
6	Goa	15,910	11,230
7	Gujarat	1,34,069	1,17,862
8	Haryana	7,027	5,614
9	Himachal Pradesh	48,350	33,904
10	Jharkhand	46,568	40,786
11	Karnataka	2,23,405	1,05,289
12	Kerala	1,88,931	1,19,372
13	Madhya Pradesh	2,33,817	2,09,713
14	Maharashtra	3,97,158	2,73,632
15	Manipur	25,664	13,409
16	Meghalaya	36,370	14,455
17	Mizoram	14,414	7,233
18	Nagaland	28,266	12,148
19	Odisha	2,27,019	1,55,895
20	Punjab	1,04,565	1,03,919
21	Rajasthan	1,71,909	1,50,998
22	Sikkim	8,550	6,871
23	Tamilnadu	1,71,290	1,32,245
24	Telangana	80,955	46,872
25	Tripura	30,446	24,976
26	Uttarakhand	39,692	27,382
27	Uttar Pradesh	2,70,812	2,45,081
28	West Bengal	1,57,849	1,11,916
29	A & N Islands	626	541
30	Chandigarh	0	0
31	Dadra & Nagar Haveli	798	798
32	Daman & Diu	116	116
33	Delhi	19	19
34	Jammu And Kashmir	78,095	55,381
35	Ladakh	132	44
36	Lakshadweep	218	218
37	Puducherry	2,530	2,311
<b>Total (Excluding JRY Roads)</b>		<b>35,95,948</b>	<b>24,33,780</b>
<b>Total (Including JRY Roads)</b>		<b>44,95,948</b>	<b>26,16,982</b>

*Note: The Rural Roads comprises PMGSY, rural roads built by State PWD/RWD & those constructed by Panchayati Raj Roads*

**Length of Pradhan Mantri Gram Sadak Yojana Roads - By type of Surface as on 31.03.2020  
(State/UT-wise)**

(in km)

S. No.	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M	BT/CC	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	22,373	346	14,520	14,865	7,507
2	Arunachal Pradesh	14,514	755	9,673	10,428	4,086
3	Assam	29,201	1,730	25,667	27,397	1,804
4	Bihar	65,119	2,853	51,852	54,705	10,414
5	Chhattisgarh	48,710	410	33,815	34,226	14,485
6	Goa	207	2	155	157	50
7	Gujarat	18,482	79	12,568	12,647	5,835
8	Haryana	7,027	33	5,581	5,614	1,412
9	Himachal Pradesh	23,457	2,949	16,085	19,034	4,424
10	Jharkhand	31,642	1,462	24,398	25,860	5,782
11	Karnataka	26,073	24	18,575	18,599	7,474
12	Kerala	7,450	229	3,636	3,865	3,585
13	Madhya Pradesh	84,480	1,460	77,293	78,753	5,727
14	Maharashtra	32,157	516	26,441	26,957	5,200
15	Manipur	12,376	326	7,855	8,182	4,194
16	Meghalaya	4,788	1,546	2,181	3,727	1,061
17	Mizoram	4,538	194	3,470	3,665	874
18	Nagaland	4,391	284	3,886	4,170	221
19	Odisha	67,727	1,777	60,366	62,143	5,584
20	Punjab	8,926	38	8,242	8,280	646
21	Rajasthan	73,828	696	67,234	67,930	5,898
22	Sikkim	5,506	129	4,027	4,156	1,350
23	Tamilnadu	22,740	595	18,631	19,226	3,514
24	Telangana	12,708	180	10,713	10,893	1,814
25	Tripura	6,978	415	4,425	4,840	2,138
26	Uttarakhand	19,769	962	13,161	14,123	5,646
27	Uttar Pradesh	80,446	1,228	56,379	57,607	22,838
28	West Bengal	41,822	3,017	33,626	36,643	5,179
29	A & N Islands	132	79	0	79	53
30	Chandigarh	0	0	0	0	0
31	Dadra & Nagar Haveli	182	182	0	182	0
32	Daman & Diu	0	0	0	0	0
33	Delhi	0	0	0	0	0
34	Jammu And Kashmir	20,835	2,633	11,581	14,213	6,622
35	Ladakh	0	0	0	0	0
36	Lakshadweep	0	0	0	0	0
37	Puducherry	107	19	69	88	19
<b>Total</b>		<b>7,98,690</b>	<b>27,151</b>	<b>6,26,103</b>	<b>6,53,254</b>	<b>1,45,436</b>

**Length of Rural Roads built by State PWD/RWD - By Type of Surface as on 31.03.2020 (State/UT-wise)**  
(in km)

S.No.	Name of State/UT	Total Length (6+7)	Surfaced			Un-surfaced
			WBM/WMM	BT/CC	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	0	0	0	0	0
2	Arunachal Pradesh#	2,426	451	468	919	1,507
3	Assam	46,344	0	29,570	29,570	16,774
4	Bihar*	74,857	7,599	33,723	41,322	33,534
5	Chhattisgarh	13,060	1,065	10,272	11,337	1,723
6	Goa	5,073	0	4,788	4,788	285
7	Gujarat	71,153	2,848	60,600	63,448	7,705
8	Haryana	0	0	0	0	0
9	Himachal Pradesh	21,447	1,536	12,847	14,383	7,064
10	Jharkhand *	14,926	0	14,926	14,926	0
11	Karnataka	0	0	0	0	0
12	Kerala	0	0	0	0	0
13	Madhya Pradesh*	26,482	4,980	18,762	23,742	2,740
14	Maharashtra	1,47,130	39,324	59,346	98,670	48,460
15	Manipur*	6,187	263	1,945	2,207	3,980
16	Meghalaya	2,763	193	1,532	1,726	1,037
17	Mizoram	3,425	0	1,836	1,836	1,589
18	Nagaland	4,421	0	1,376	1,376	3,044
19	Odisha	0	0	0	0	0
20	Punjab*	30,761	0	30,761	30,761	0
21	Rajasthan	75,274	576	72,448	73,024	2,250
22	Sikkim	0	0	0	0	0
23	Tamil Nadu	0	0	0	0	0
24	Telangana	0	0	0	0	0
25	Tripura	11,734	0	10,068	10,068	1,666
26	Uttarakhand	18,471	491	11,600	12,091	6,379
27	Uttar Pradesh	1,80,135	0	1,80,135	1,80,135	0
28	West Bengal	5,827	39	5,630	5,669	158
29	Andaman & Nicobar Island	494	2	460	462	32
30	Chandigarh	0	0	0	0	0
31	Dadra & Nagar Haveli	616	0	616	616	0
32	Daman & Diu	24	0	24	24	0
33	Delhi	19	0	19	19	0
34	Jammu & Kashmir**	47,878	6,348	28,383	34,731	13,147
35	Ladakh	0	0	0	0	0
36	Lakshadweep	218	0	218	218	0
37	Puducherry	293	0	293	293	0
<b>Total</b>		<b>8,11,438</b>	<b>65,715</b>	<b>5,92,648</b>	<b>6,58,363</b>	<b>1,53,075</b>

*Note: This category of roads are built by State PWD/Rural Works Department of States/UTs.*

*\* Figures is as on 31/03/2018-Data not received.*

*# Figure as on 31.03.2017- Data not received*

*\*\* Data as on 31.03.2018*

**Length of Panchayati Raj Roads - By Type of Surface as on 31.03.2020 (State/UT-wise)**  
(in km)

S. No.	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	BT/CC	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	79,636	8,970	29,584	38,554	41,082
2	Arunachal Pradesh***	5,951	0	1,365	1,365	4,586
3	Assam	3,27,482	16,127	20,512	36,639	2,90,843
4	Bihar *	1,20,195	7,977	93,823	1,01,800	18,395
5	Chhatisgarh	508	5	416	420	88
6	Goa	10,630	1,071	5,214	6,285	4,345
7	Gujarat *	44,434	5,640	36,127	41,767	2,667
8	Haryana	0	0	0	0	0
9	Himachal Pradesh	3,446	65	422	487	2,959
10	Jharkhand	0	0	0	0	0
11	Karnataka	1,97,332	25,969	60,721	86,690	1,10,642
12	Kerala	1,81,481	17,917	97,590	1,15,507	65,974
13	Madhya Pradesh #	1,22,855	19,403	87,815	1,07,218	15,637
14	Maharashtra	2,17,871	50,756	97,250	1,48,006	69,865
15	Manipur**	7,101	0	3,020	3,020	4,081
16	Meghalaya	28,819	2,338	6,664	9,002	19,817
17	Mizoram	6,451	354	1,379	1,733	4,718
18	Nagaland *	19,455	3,141	3,461	6,602	12,853
19	Odisha	1,59,292	22,915	70,837	93,752	65,540
20	Punjab	64,878	0	64,878	64,878	0
21	Rajasthan	22,807	1,264	8,779	10,043	12,763
22	Sikkim**	3,044	344	2,372	2,715	329
23	Tamil Nadu	1,48,550	10,862	1,02,157	1,13,019	35,531
24	Telangana**	68,247	11,098	24,881	35,979	32,268
25	Tripura	11,734	0	10,068	10,068	1,666
26	Uttarakhand**	1,452	5	1,163	1,168	284
27	Uttar Pradesh	10,232	329	7,009	7,338	2,893
28	West Bengal **	1,10,200	3,962	65,641	69,603	40,597
29	A & N Islands	0	0	0	0	0
30	Chandigarh	0	0	0	0	0
31	Dadra & Nagar Haveli	0	0	0	0	0
32	Daman & Diu*	92	1	91	92	0
33	Delhi	0	0	0	0	0
34	Jammu & Kashmir	9,382	2,593	3,844	6,437	2,945
35	Ladakh	132	4	39	44	89
36	Lakshadweep	0	0	0	0	0
37	Puducherry	2,131	476	1,454	1,930	201
<b>Total</b>		<b>19,85,820</b>	<b>2,13,587</b>	<b>9,08,576</b>	<b>11,22,163</b>	<b>8,63,657</b>

*Note: Panchayati Raj Roads include Gram Panchayat, Panchayat Samiti & Zilla Parishad Roads*

*\* Figures is as on 31/03/2018-Data not received.*

*\*\* Figures is as on 31/03/2019-Data not received.*

*# Figures is as on 31/03/2018-Data not received from MPRRDA for BT/CC & Unsurfaced Road*

*\*\*\*Figures as on 31.03.2017-Data not received*

**Total & Surfaced Length of Urban Roads as on 31.03.2020 (State/UT-wise)**  
(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	Andhra Pradesh	12,758	11,006
2	Arunachal Pradesh	109	107
3	Assam	6,268	3,978
4	Bihar	14,599	10,155
5	Chhattisgarh	13,638	11,977
6	Goa	913	817
7	Gujarat	31,471	26,476
8	Haryana	11,794	10,747
9	Himachal Pradesh	5,902	3,264
10	Jharkhand	7,419	5,321
11	Karnataka	43,541	31,925
12	Kerala	28,859	24,891
13	Madhya Pradesh	34,093	28,296
14	Maharashtra	30,386	23,749
15	Manipur	236	181
16	Meghalaya	640	633
17	Mizoram	22	13
18	Nagaland	1,287	1,191
19	Odisha	19,404	15,925
20	Punjab	19,501	17,602
21	Rajasthan	32,881	28,163
22	Sikkim	98	96
23	Tamilnadu	24,648	23,430
24	Telangana	10,291	10,290
25	Tripura	1,096	1,084
26	Uttarakhand	6,425	4,858
27	Uttar Pradesh	71,602	56,236
28	West Bengal	95,061	66,786
29	A & N Islands	281	266
30	Chandigarh	2,485	2,485
31	Dadra & Nagar Haveli	84	84
32	Daman & Diu	53	53
33	Delhi	15,843	15,783
34	Jammu And Kashmir	2,096	2,069
35	Ladakh	0	0
36	Lakshadweep	4	4
37	Puducherry	2,607	2,354
<b>Total</b>		<b>5,48,394</b>	<b>4,42,295</b>

*Notes: The Urban Roads comprise of Municipal Roads; (coming under purview of Municipal Corporation under the Urban Development Department of States/Uts), Military Engineering Service Roads; Major & Minor Port roads and roads in Railways Zones.*



## Length of Municipal Roads - By Type of Surface as on 31.03.2020 (State/UT-wise)

(in km)

S. No.	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			WBM/WMM	BT/CC	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	11,503	1,060	8,712	9,772	1,731
2	Arunachal Pradesh	0	0	0	0	0
3	Assam*	4,824	612	1,970	2,583	2,241
4	Bihar	13,854	240	9,224	9,463	4,391
5	Chhattisgarh	13,175	1,148	10,394	11,542	1,633
6	Goa	682	79	508	587	95
7	Gujarat	30,082	2,847	22,283	25,131	4,951
8	Haryana	10,687	468	9,184	9,652	1,035
9	Himachal Pradesh	5,648	894	2,121	3,015	2,633
10	Jharkhand	6,696	485	4,163	4,648	2,048
11	Karnataka	42,459	5,699	25,180	30,879	11,580
12	Kerala	28,543	2,263	22,315	24,578	3,965
13	Madhya Pradesh	32,055	4,586	21,733	26,318	5,737
14	Maharashtra**	27,502	5,688	15,272	20,960	6,542
15	Manipur*	122	22	46	68	54
16	Meghalaya**	399	26	366	392	7
17	Mizoram	7	0	0	0	7
18	Nagaland	1,107	633	380	1,013	94
19	Odisha	18,163	2,656	12,093	14,749	3,413
20	Punjab	16,935	776	14,296	15,071	1,864
21	Rajasthan **	30,503	2,963	22,863	25,826	4,677
22	Sikkim	68	0	66	66	2
23	Tamil Nadu**	23,465	592	21,716	22,309	1,156
24	Telangana	9,013	0	9,013	9,013	0
25	Tripura	1,010	0	1,010	1,010	0
26	Uttarakhand	5,755	461	3,738	4,199	1,556
27	Uttar Pradesh	68,313	0	53,143	53,143	15,170
28	West Bengal*	92,963	4,831	59,928	64,759	28,204
29	Andaman & Nicobar Islands	93	0	79	79	14
30	Chandigarh*	2,334	0	2,334	2,334	0
31	Dadra & Nagar Haveli*	84	0	84	84	0
32	Daman & Diu	45	2	43	45	0
33	Delhi*	14,317	0	14,317	14,317	0
34	Jammu & Kashmir*	600	20	570	590	10
35	Ladakh	0	0	0	0	0
36	Lakshadweep	0	0	0	0	0
37	Puducherry	2,588	502	1,837	2,339	249
Total		5,15,593	39,552	3,70,983	4,10,534	1,05,059

Source: State &amp; UT Urban Departments.

\* Figure is as on 31/03/2018- Data not received.

\*\* Figure is as on 31.03.2019- Data not received

**Length of Military Engineering Service Roads - By Type of Surface as on 31.03.2020 (State/UT-wise)**  
(in km)

S. No.	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	337	0	337	337	0
2	Arunachal Pradesh	105	51	54	105	0
3	Assam	829	134	685	819	10
4	Bihar	58	0	58	58	0
5	Chhattisgarh	30	0	30	30	0
6	Goa	120	0	120	120	0
7	Gujarat	332	0	332	332	0
8	Haryana	746	0	746	746	0
9	Himachal Pradesh	234	4	227	231	3
10	Jharkhand	163	0	163	163	0
11	Karnataka	586	54	524	579	8
12	Kerala	170	26	144	170	0
13	Madhya Pradesh	1,255	192	1,063	1,255	0
14	Maharashtra	1,630	221	1,408	1,629	1
15	Manipur	111	0	111	111	0
16	Meghalaya	239	98	141	239	0
17	Mizoram	8	0	8	8	0
18	Nagaland	86	29	58	86	0
19	Odisha	103	0	103	103	0
20	Punjab	2,222	259	1,964	2,222	0
21	Rajasthan	1,631	82	1,536	1,618	13
22	Sikkim	29	0	29	29	0
23	Tamil Nadu	568	37	529	566	3
24	Telangana	558	0	558	558	0
25	Tripura	23	23	0	23	0
26	Uttarakhand	622	60	558	618	3
27	Uttar Pradesh	1,599	0	1,593	1,593	6
28	West Bengal	751	23	726	749	2
29	Andaman & Nicobar Islands	177	68	109	177	0
30	Chandigarh	144	0	144	144	0
31	Dadra Nagar Haveli	0	0	0	0	0
32	Daman & Diu	0	0	0	0	0
33	Delhi	1,318	5	1,253	1,258	60
34	Jammu & Kashmir	1,351	0	1,347	1,347	4
35	Ladakh	0	0	0	0	0
36	Lakshadweep	4	0	4	4	0
37	Puducherry	0	0	0	0	0
<b>Total</b>		<b>18,140</b>	<b>1,365</b>	<b>16,662</b>	<b>18,027</b>	<b>113</b>

Source : Directorate of Works, Engineering in Chief's Branch, Integrated HQ of MoD (Army).

**Length of Roads in Major Ports - By Type of Surface as on 31.03.2020 (State/UT-wise)**  
(in km)

S. No.	States/UTs	Major Port Trusts	Total Length (7+8)	Surfaced			Unsurfaced
				W.B.M.	B.T./C.C	Total (5+6)	
1	2	3	4	5	6	7	8
1	Andhra Pradesh	Visakhapatanam	83	0	83	83	0
2	Goa	Mormugoa	25	0	25	25	0
3	Gujarat	Kandla	95	0	95	95	0
4	Karnataka	New Mangalore	45	2	43	45	0
5	Kerala	Cochin	37	4	33	37	0
6	Maharashtra	Total	109	0	109	109	0
		Jawaharlal Nehru Port Trust*	40	0	40	40	0
		Mumbai Port Trust	69	0	69	69	0
7	Odisha	Paradeep	121	0	121	121	0
8	Tamil Nadu	Total	53	0	53	53	0
		Chennai Port	31	0	31	31	0
		Kamrajar Port (Ennore Port Trust)	22	0	22	22	0
9	West Bengal	Total	105	47	58	105	0
		Kolkata Port (SM Mookherji)	50	47	3	50	0
		Haldia Dock (SM Mookherji)	55	0	55	55	0
Total			674	54	619	673	0

Source: Individual Port Trusts

\* Figures is as on 31/03/2018-Data not received.

## Length of Roads in Minor Ports - By Type of surface as on 31/03/2020 (State/UT-wise)

(in km)

S.No.	Name of State/UT	Name of the Ports	Total Length (7+8)	Surfaced			Unsurfaced
				W.B.M.	B.T./C.C	Total (5+6)	
1	2	3	4	5	6	7	8
1	Andhra Pradesh	Bhavanapadu	130	17	113	130	0
		Kakinada					
		Machilipatnam					
		Nizampatnam					
		gangavaram port					
		Kaki.deep water port					
		Krishnapatnam port					
2	Goa*	Tiracol	80	0	80	80	0
		Chapora					
		Panajim					
		Betul					
		Talpona					
3	Gujarat	Jakhau	143	5	131	135	8
		Mandavi					
		Mundra					
		Navalakhi					
		Okha					
		Bedi					
		Rozi					
		Porbandar					
		Veraval					
		Jafrabad					
		Victor					
		Alang Ship Breaking Yard					
		Bhavnagar					
		Dahej					
		Surat					
		Madalla					
		Dumas					
		Dholai					
		Onjal					
		Kosamba					
4	Kerala*	Vizhinjam	11	1	10	11	0
		Valiyathura					
		Kollam					
		Kochupilamoodu					
		Neendakara					
		Sakthikulangara					
		Pulikkada					
		Alappuzha					
		Kodungallur					
		Kayamkulam					
		Ponnani					
		Thalassery					
		Azhikkal					
		Kasaragod					
		Beypore					
		Kannur					

Contd...

S.No.	Name of State/UT	Name of the Ports	Total Length (6+7)	Surfaced			Unsurfaced
				W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7	8
5	Karnataka	Karwar	144	5	131	136	8
		Old Mangalore					
		Belekeri					
		Honnavar					
		Bhatkal					
		Hangarakatta					
		Malpe					
		Tadadi					
		Padubidri					
		Kundapura					
6	Odisha *	Gopalpur	354	32	289	321	33
		Dhamara					
7	Maharashtra		27	1	20	21	5
8	A&N Islands	Port Blair	11	3	7	10	1
		Campbell Bay					
		Hut Bay					
		Rangat Bay					
		Car Nicobar					
9	Daman & Diu*	Daman	8	0	8	8	0
		Diu					
10	Puducherry	Puducherry	19	1	14	15	4
		Karaikal					
11	Tamil Nadu *	Cuddalore	0	0	0	0	0
		Nagapattinam					
		Rameswaram					
		Colachel					
Total			927	66	802	868	59

Source: State Maritime Boards incharge of Minor Ports

The roads under minor ports in Tamil Nadu are not under the purview of the state maritime boards but are under National Highways and State Highways.

\* Figures is as on 31/03/2018-Data not received.

**Length of Roads in Railway Zones - By Type of Surface in India as on 31.03.2020 (State/UT-wise)**  
(in km)

S. No.	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	705	44	640	684	21
2	Arunachal Pradesh	4	0	2	2	2
3	Assam	615	36	540	576	39
4	Bihar	688	32	603	634	54
5	Chhattisgarh	433	33	373	406	27
6	Goa	5	0	5	5	0
7	Gujarat	819	52	731	783	36
8	Haryana	361	10	339	349	12
9	Himachal Pradesh	21	8	10	18	2
10	Jharkhand	560	70	440	510	50
11	Karnataka	306	45	241	286	20
12	Kerala	98	10	85	95	4
13	Madhya Pradesh	783	107	616	723	60
14	Maharashtra	1,118	185	845	1,030	88
15	Manipur	4	1	1	2	1
16	Meghalaya	2	0	2	2	0
17	Mizoram	8	3	3	5	3
18	Nagaland	94	1	91	92	2
19	Odisha	662	51	579	630	32
20	Punjab	344	20	289	308	36
21	Rajasthan	747	64	655	719	28
22	Sikkim	0	0	0	0	0
23	Tamil Nadu	561	64	439	502	59
24	Telangana*	720	52	666	719	2
25	Tripura	63	22	30	52	12
26	Uttarakhand	48	7	33	40	8
27	Uttar Pradesh	1,690	158	1,342	1,500	190
28	West Bengal	1,242	192	981	1,173	69
29	Andaman & Nicobar Islands	0	0	0	0	0
30	UT Chandigarh	6	0	6	6	0
31	Dadra & Nagar Haveli	0	0	0	0	0
32	Daman & Diu	0	0	0	0	0
33	Delhi	208	33	175	208	0
34	Jammu & Kashmir	145	0	132	132	12
35	Ladakh	0	0	0	0	0
36	Lakshadweep	0	0	0	0	0
37	Puducherry	0	0	0	0	0
<b>Total</b>		<b>13,060</b>	<b>1,299</b>	<b>10,893</b>	<b>12,193</b>	<b>867</b>

Source : Data based on Railway Zones which had reported.

\* Figures is as on 31/03/2018-Data not received.

**Total & Surfaced Length of Project Roads as on 31.03.2020 (State/UT-wise)****(in km)**

S.No.	Name of State/UT	Total	Surfaced	%age of surfaced road
1	2	3	4	5
1	Andhra Pradesh	10,760	3,449	32.1
2	Arunachal Pradesh	4,601	3,439	74.8
3	Assam	28,439	2,141	7.5
4	Bihar	2,230	107	4.8
5	Chhattisgarh	15,665	7,397	47.2
6	Goa	334	165	49.5
7	Gujarat	40,541	31,812	78.5
8	Haryana	7,587	472	6.2
9	Himachal Pradesh	7,519	3,686	49
10	Jharkhand	13,872	6,478	46.7
11	Karnataka	26,413	7,664	29
12	Kerala	9,257	4,150	44.8
13	Madhya Pradesh	30,486	7,744	25.4
14	Maharashtra	22,043	9,393	42.6
15	Manipur	1,167	1,084	92.9
16	Meghalaya	606	229	37.7
17	Mizoram	1,305	799	61.3
18	Nagaland	964	705	73.1
19	Odisha	25,906	10,432	40.3
20	Punjab	13,312	3,295	24.8
21	Rajasthan	10,587	6,825	64.5
22	Sikkim	1,053	647	61.5
23	Tamilnadu	10,890	6,396	58.7
24	Telangana	18,272	18,257	99.9
25	Tripura	1,427	20	1.4
26	Uttarakhand	5,333	1,770	33.2
27	Uttar Pradesh	42,375	14,892	35.1
28	West Bengal	14,534	5,464	37.6
29	A & N Islands	218	178	81.7
30	Chandigarh	0	0	0
31	Dadra & Nagar Haveli	0	0	0
32	Daman & Diu	1	1	100
33	Delhi	350	350	100
34	Jammu And Kashmir	16,172	4,879	30.2
35	Ladakh	2,694	2,521	93.6
36	Lakshadweep	0	0	0
37	Puducherry	44	36	81
<b>Total</b>		<b>3,86,954</b>	<b>1,66,879</b>	<b>43.1</b>

*Note: The Project Roads comprise of Forest Roads, roads of Border Roads Organisation, Coal Departments, Electricity, Irrigation, Sugarcane Department and of Steel Authority of India Limited and National Mineral Development Corporation.*

## Annexure 7.2

**Length of Roads under Forest Departments - By Type of Surface in India as on 31.03.2020 (State/UT-wise)**  
(in km)

S.No	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh*	4,047	1,133	64	1,197	2,849
2	Arunachal Pradesh	1,213	232	45	276	936
3	Assam	26,604	1,825	0	1,825	24,779
4	Bihar*	2,030	0	0	0	2,030
5	Chhattisgarh*	10,868	5,055	0	5,055	5,813
6	Goa	164	0	49	49	115
7	Gujarat*	22,112	0	22,112	22,112	0
8	Haryana	25	22	3	25	0
9	Himachal Pradesh	1,983	0	168	168	1,815
10	Jharkhand*	9,442	1,729	2,470	4,199	5,243
11	Karnataka	10,196	619	391	1,010	9,185
12	Kerala	4,846	885	514	1,398	3,447
13	Madhya Pradesh*	29,798	2,208	4,946	7,154	22,644
14	Maharashtra*	13,575	4,669	913	5,582	7,993
15	Manipur	0	0	0	0	0
16	Meghalaya	155	75	22	97	58
17	Mizoram	275	0	56	56	219
18	Nagaland*	288	0	102	102	187
19	Odisha	7,651	1,404	641	2,045	5,606
20	Punjab	707	0	0	0	707
21	Rajasthan*	5,343	512	1,600	2,113	3,231
22	Sikkim*	6	0	4	4	3
23	Tamil Nadu *	3,351	833	799	1,632	1,719
24	Telangana	17,117	17,117	0	17,117	0
25	Tripura *	1,345	0	11	11	1,334
26	Uttarakhand	3,770	0	482	482	3,288
27	Uttar Pradesh	8,349	890	951	1,841	6,508
28	West Bengal	6,972	50	1,451	1,500	5,472
29	Andaman & Nicobar Islands*	194	81	86	167	27
30	UT Chandigarh	0	0	0	0	0
31	Dadra & Nagar Haveli	0	0	0	0	0
32	Daman & Diu*	1	1	0	1	0
33	Delhi	0	0	0	0	0
34	Jammu & Kashmir	11,791	1,309	35	1,344	10,447
35	Ladakh	0	0	0	0	0
36	Lakshadweep	0	0	0	0	0
37	Puducherry	0	0	0	0	0
<b>Total</b>		<b>2,04,217</b>	<b>40,648</b>	<b>37,916</b>	<b>78,564</b>	<b>1,25,653</b>

Source : State Departments of Forests

Blank cells refer to States and UTs who have not furnished data or have insignificant or nil forest roads

\* Figures is as on 31/03/2018-Data not received.



**Length of Roads under Border Roads Organisation - By Type of Surface in India as on 31.03.2020**  
(State/UT-wise)  
(in km)

S.No	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	0	0	0	0	0
2	Arunachal Pradesh	3388	120	3043	3163	225
3	Assam	195	0	159	159	36
4	Bihar	0	0	0	0	0
5	Chhattisgarh	0	0	0	0	0
6	Goa	0	0	0	0	0
7	Gujarat	0	0	0	0	0
8	Haryana	0	0	0	0	0
9	Himachal Pradesh	992	33	789	822	170
10	Jharkhand	0	0	0	0	0
11	Karnataka	0	0	0	0	0
12	Kerala	0	0	0	0	0
13	Madhya Pradesh	0	0	0	0	0
14	Maharashtra	0	0	0	0	0
15	Manipur	1,167	39	1045	1084	83
16	Meghalaya	0	0	0	0	0
17	Mizoram	896	26	694	719	177
18	Nagaland	676	17	587	604	72
19	Odisha	0	0	0	0	0
20	Punjab	296	27	259	285	10
21	Rajasthan	3,212	54	3,115	3,169	43
22	Sikkim	1,047	34	610	644	403
23	Tamil Nadu	0	0	0	0	0
24	Telangana	0	0	0	0	0
25	Tripura*	0	0	0	0	0
26	Uttarakhand	982	19	767	786	197
27	Uttar Pradesh	0	0	0	0	0
28	West Bengal	161	0	161	161	0
29	Andaman & Nicobar Islands	24	2.46	8.9	11	12.571
30	UT Chandigarh	0	0	0	0	0
31	Dadra & Nagar Haveli	0	0	0	0	0
32	Daman & Diu	0	0	0	0	0
33	Delhi	0	0	0	0	0
34	Jammu & Kashmir	3,436	198.809	2,992.394	3,191	245.1
35	Ladakh	2,694	119.954	2,401.231	2,521	172.325
36	Lakshadweep	0	0	0	0	0
37	Puducherry	0	0	0	0	0
<b>Total</b>		<b>19,165</b>	<b>688</b>	<b>16,631</b>	<b>17,319</b>	<b>1,846</b>

Source : DG Border Roads

Blank Cells refer to States and UTs who have nil BRO roads

\* Figures is as on 31/03/2018-Data not received.

**Length of Roads under coal fields/ coal units of Coal India Limited - by Type of Surface  
as on 31.03.2020 (State/UT-wise)**

(in km)

S. No.	Name of States/UTs	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	0			0	
2	Arunachal Pradesh	0			0	
3	Assam	51	2	42	44	7
4	Bihar	0			0	
5	Chhattisgarh*	793	78	681	759	34
6	Goa	0			0	
7	Gujarat	0			0	
8	Haryana	0			0	
9	Himachal Pradesh	0			0	
10	Jharkhand*	1,271	181	893	1,074	197
11	Karnataka	0			0	
12	Kerala	0			0	
13	Madhya Pradesh	516	39	412	452	64
14	Maharashtra	610	194	368	562	48
15	Manipur	0			0	
16	Meghalaya	0			0	
17	Mizoram	0			0	
18	Nagaland	0			0	
19	Odisha*	314	96	200	296	18
20	Punjab	0			0	
21	Rajasthan	0			0	
22	Sikkim	0			0	
23	Tamil Nadu	0			0	
24	Telangana*	906	70	833	903	3
25	Tripura	0			0	
26	Uttarakhand	0			0	
27	Uttar Pradesh	0			0	
28	West Bengal*	316	47	242	289	27
29	Andaman & Nicobar Islands	0			0	
30	UT Chandigarh	0			0	
31	Dadra & Nagar Haveli	0			0	
32	Daman & Diu	0			0	
33	Delhi	0			0	
34	Jammu & Kashmir	0			0	
35	Ladakh					
36	Lakshadweep	0			0	
37	Puducherry	0			0	
<b>Total</b>		<b>4,777</b>	<b>707</b>	<b>3,671</b>	<b>4,379</b>	<b>398</b>

*Note: Western Coal fields are located in Maharashtra and in Madhya Pradesh.*

*Eastern Coal Fields are located in Jharkhand & in West Bengal.*

*\* Figures is as on 31/03/2018-Data not received.*

**Length of Roads under Electricity Departments of States/UTs - By Type of Surface in India  
as on 31.03.2020**

(in km)

S.No	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	237	29	178	207	30
2	Arunachal Pradesh	0	0	0	0	0
3	Assam	76	15	53	69	8
4	Bihar	200	41	66	107	92
5	Chhattisgarh	11	1	10	11	0
6	Goa	11	3	7	10	1
7	Gujarat	208	42	148	191	17
8	Haryana	131	9	122	131	0
9	Himachal Pradesh	93	24	40	64	29
10	Jharkhand	3	0	3	3	0
11	Karnataka	201	26	160	185	15
12	Kerala	316	54	231	284	32
13	Madhya Pradesh	60	12	27	39	21
14	Maharashtra*	343	183	124	307	36
15	Manipur	0	0	0	0	0
16	Meghalaya	132	6	111	117	15
17	Mizoram *	134	3	21	24	110
18	Nagaland	0	0	0	0	0
19	Odisha*	70	37	31	68	2
20	Punjab*	449	28	393	421	28
21	Rajasthan	566	3	562	565	1
22	Sikkim	0	0	0	0	0
23	Tamil Nadu	893	370	461	831	62
24	Telangana	67	14	53	67	0
25	Tripura	0	0	0	0	0
26	Uttarakhand*	165	4	145	149	15
27	Uttar Pradesh	13	0	13	13	0
28	West Bengal*	216	8	161	169	47
29	Andaman & Nicobar Islands	0	0	0	0	0
30	UT Chandigarh	0	0	0	0	0
31	Dadra & Nagar Haveli	0	0	0	0	0
32	Daman & Diu	0	0	0	0	0
33	Delhi*	52	1	51	52	0
34	Jammu & Kashmir	0	0	0	0	0
35	Ladakh	0	0	0	0	0
36	Lakshadweep	0	0	0	0	0
37	Puducherry	3	0	2	3	0
<b>Total</b>		<b>4,651</b>	<b>913</b>	<b>3,174</b>	<b>4,088</b>	<b>563</b>

Source : State Departments of Electricity

Blank cells refer to States and UTs who have not furnished data or have insignificant or nil electricity roads

\* Figures is as on 31/03/2018-Data not received.

**Length of Roads under Irrigation Departments of States/UTs - By Type of Surface in India  
as on 31.03.2020**

(in km)

S.No	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	6,467	1,305	733	2,038	4,429
2	Arunachal Pradesh	0	0	0	0	0
3	Assam	1,512	33	11	44	1,468
4	Bihar					
5	Chhattisgarh	3,012	270	358	628	2,384
6	Goa	159	22	84	106	53
7	Gujarat	18,222	5,338	4,172	9,509	8,712
8	Haryana	7,431	133	184	317	7,114
9	Himachal Pradesh*	4,452	764	1,868	2,632	1,820
10	Jharkhand*	2,604	566	133	700	1,904
11	Karnataka	15,722	5,079	1,201	6,281	9,441
12	Kerala	4,095	562	1,905	2,467	1,628
13	Madhya Pradesh	72	8	64	72	0
14	Maharashtra*	7,497	1,871	1,059	2,931	4,567
15	Manipur	0	0	0	0	0
16	Meghalaya	319	6	9	15	304
17	Mizoram	0	0	0	0	0
18	Nagaland	0	0	0	0	0
19	Odisha*	17,388	4,430	3,113	7,542	9,845
20	Punjab	11,860	188	2,401	2,589	9,271
21	Rajasthan	1,466	590	388	978	488
22	Sikkim	0	0	0	0	0
23	Tamil Nadu	4,873	291	1,870	2,161	2,712
24	Telangana	181	0	170	170	12
25	Tripura	82	0	9	9	72
26	Uttarakhand	406	18	325	343	63
27	Uttar Pradesh*	20,492	0	3,049	3,049	17,443
28	West Bengal	6,238	1,878	852	2,730	3,508
29	Andaman & Nicobar Islands	0	0	0	0	0
30	UT Chandigarh	0	0	0	0	0
31	Dadra & Nagar Haveli	0	0	0	0	0
32	Daman & Diu	0	0	0	0	0
33	Delhi	298	298	0	298	0
34	Jammu & Kashmir	944	90	253	343	601
35	Ladakh	0	0	0	0	0
36	Lakshadweep	0	0	0	0	0
37	Puducherry	0	0	0	0	0
<b>Total</b>		<b>1,35,792</b>	<b>23,741</b>	<b>24,211</b>	<b>47,951</b>	<b>87,840</b>

Source : State Departments of Irrigation

Blank cells refer to States and UTs who have not furnished data or have insignificant or nil irrigation roads

\* Figures is as on 31/03/2018-Data not received.

**Length of Roads under Sugarcane Departments of States/Uts - By Type of Surface in India as on  
31.03.2020  
(in km)**

S.No	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh					
2	Arunachal Pradesh					
3	Assam					
4	Bihar					
5	Chhattisgarh					
6	Goa					
7	Gujarat					
8	Haryana					
9	Himachal Pradesh					
10	Jharkhand					
11	Karnataka*	156	0	52	52	104
12	Kerala					
13	Madhya Pradesh					
14	Maharashtra					
15	Manipur					
16	Meghalaya					
17	Mizoram					
18	Nagaland					
19	Odisha					
20	Punjab					
21	Rajasthan					
22	Sikkim					
23	Tamil Nadu*	1,676	0	1,676	1,676	0
24	Telangana					
25	Tripura					
26	Uttarakhand	10	0	10	10	0
27	Uttar Pradesh	13,520	0	9,989	9,989	3,531
28	West Bengal					
29	Andaman & Nicobar Islands					
30	UT Chandigarh					
31	Dadra & Nagar Haveli					
32	Daman & Diu					
33	Delhi					
34	Jammu & Kashmir					
35	Ladakh					
36	Lakshadweep					
37	Puducherry	41	5	28	33	8
<b>Total</b>		<b>15,404</b>	<b>5</b>	<b>11,755</b>	<b>11,760</b>	<b>3,643</b>

Source : State Departments of Irrigation

Blank cells refer to States and UTs who have not furnished data or have insignificant or nil irrigation roads

\* Figures is as on 31/03/2018-Data not received.

**Length of Roads under SAIL & NMDC - By Type of Surface in India as on 31.03.2020**  
(in km)

S.No	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	Andhra Pradesh	9	1	6	7	2
2	Arunachal Pradesh	0	0	0	0	0
3	Assam	0			0	
4	Bihar	0			0	
5	Chhattisgarh	981	17	928	944	37
6	Goa	0			0	
7	Gujarat	0			0	
8	Haryana	0			0	
9	Himachal Pradesh	0			0	
10	Jharkhand	552	12	491	503	50
11	Karnataka	139	10	126	136	3
12	Kerala	0			0	
13	Madhya Pradesh	41	11	17	27	13
14	Maharashtra	18	3	8	12	6
15	Manipur	0			0	
16	Meghalaya	0			0	
17	Mizoram	0			0	
18	Nagaland	0			0	
19	Odisha	483	3	476	480	3
20	Punjab	0			0	
21	Rajasthan	0			0	
22	Sikkim	0			0	
23	Tamil Nadu	96	0	96	96	0
24	Telangana	0			0	
25	Tripura	0			0	
26	Uttarakhand	0			0	
27	Uttar Pradesh	0			0	
28	West Bengal	632	32.4	582.31	615	17.3
29	Andaman & Nicobar Islands	0			0	
30	UT Chandigarh	0			0	
31	Dadra & Nagar Haveli	0			0	
32	Daman & Diu	0			0	
33	Delhi	0			0	
34	Jammu & Kashmir	0			0	
35	Ladakh	0			0	
36	Lakshadweep	0			0	
37	Puducherry	0			0	
<b>Total</b>		<b>2,950</b>	<b>89</b>	<b>2,730</b>	<b>2,819</b>	<b>131</b>

Sources: 1. Steel Authority of India Limited

2. National Mineral Development Corporation

Blank cells refer to States and UTs who have not furnished data or have insignificant or nil SAIL/NMDC roads

\* Figures is as on 31/03/2016-Data not received.

Road Density per 1000 Sq. Km of Roads in Rural and Urban area

Name of the States	Area	Rural Area (2011 census)	Urban Area (2011 census)	Rural Pop (2011 census)	Urban Pop (2011 census)	Total Population	Rural Road length	Urban Road	Total Road Length	Urban Road density	Rural Road density	All India Road Density per 1000 Sq. Km.	Urban Road length per 1000 pop	Rural Road length per 1000 pop	Entire State Road length per 1000 pop
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Andhra Pradesh	2,75,045	2,67,191	7,855	5,63,61,702	2,82,19,075	8,45,80,777	1,82,963	23,050	3,20,076	2,935	685	1,164	0.82	3.25	3.78
Arunachal Pradesh	83,743			10,66,358	3,17,369	13,83,727	22,891	109	52,916			632	0.34	21.47	38.24
Assam	78,438	77,178	1,260	2,68,07,034	43,98,542	3,12,05,576	4,03,027	6,268	4,50,290	4,975	5,222	5,741	1.42	15.03	14.43
Bihar	94,163	91,838	2,325	9,23,41,436	1,17,58,016	10,40,99,452	2,60,171	14,599	2,99,576	6,280	2,833	3,181	1.24	2.82	2.88
Chhattisgarh	1,35,192	1,31,940	3,252	1,96,07,961	59,37,237	2,55,45,198	62,278	13,638	1,11,624	4,194	472	826	2.30	3.18	4.37
Goa	3,702	2,937	765	5,51,731	9,06,814	14,58,545	15,910	913	18,972	1,193	5,417	5,125	1.01	28.84	13.01
Gujarat	1,96,244	1,88,839	7,405	3,46,94,609	2,57,45,083	6,04,39,692	1,34,069	31,471	2,60,627	4,250	710	1,328	1.22	3.86	4.31
Haryana	44,212	42,236	1,976	1,65,09,359	88,42,103	2,53,51,462	7,027	11,794	53,738	5,969	166	1,215	1.33	0.43	2.12
Himachal Pradesh	55,673	55,402	271	61,76,050	6,88,552	68,64,602	48,350	5,902	68,116	21,794	873	1,224	8.57	7.83	9.92
Jammu & Kashmir (1) ++	2,22,236	2,20,990	1,246	91,08,060	34,33,242	1,25,41,302	78,228	2,096	1,21,617	1,682	354	547	0.61	8.59	9.70
Jharkhand	79,716	77,292	2,424	2,50,55,073	79,33,061	3,29,88,134	46,568	7,419	83,962	3,061	602	1,053	0.94	1.86	2.55
Karnataka	1,91,791	1,85,777	6,014	3,74,69,335	2,36,25,962	6,10,95,297	2,23,405	43,541	3,69,687	7,239	1,203	1,928	1.84	5.96	6.05
Kerala	38,852	31,253	7,599	1,74,71,135	1,59,34,926	3,34,06,061	1,88,931	28,859	2,58,375	3,798	6,045	6,650	1.81	10.81	7.73
Madhya Pradesh	3,08,252	3,00,506	7,746	5,25,57,404	2,00,69,405	7,26,26,809	2,33,817	34,093	3,69,271	4,401	778	1,198	1.70	4.45	5.08
Maharashtra	3,07,713	2,98,619	9,094	6,15,56,074	5,08,18,259	11,23,74,333	3,97,158	30,386	6,09,872	3,341	1,330	1,982	0.60	6.45	5.43
Manipur	22,327	22,148	180	20,21,640	8,34,154	28,55,794	25,664	236	32,694	1,316	1,159	1,464	0.28	12.69	11.45
Meghalaya	22,429	22,146	283	23,71,439	5,95,450	29,66,889	36,370	640	44,241	2,262	1,642	1,972	1.07	15.34	14.91
Mizoram	21,081	20,494	587	5,25,435	5,71,771	10,97,206	14,414	22	19,418	38	703	921	0.04	27.43	17.70
Nagaland	16,579	16,336	243	14,07,536	5,70,966	19,78,502	28,266	1,287	37,844	5,286	1,730	2,283	2.25	20.08	19.13
Odisha	1,55,707	1,52,355	3,352	3,49,70,562	70,03,656	4,19,74,218	2,27,019	19,404	3,03,923	5,789	1,490	1,952	2.77	6.49	7.24
Punjab	50,362	47,847	2,515	1,73,44,192	1,03,99,146	2,77,43,338	1,04,565	19,501	1,48,768	7,755	2,185	2,954	1.88	6.03	5.36
Rajasthan	3,42,239	3,35,606	6,633	5,15,00,352	1,70,48,085	6,85,48,437	1,71,909	32,881	2,65,588	4,957	512	776	1.93	3.34	3.87
Sikkim	7,096	7,058	38	4,56,999	1,53,578	6,10,577	8,550	98	12,296	2,550	1,211	1,733	0.64	18.71	20.14
Tamil Nadu	1,30,060	1,16,424	13,636	3,72,29,590	3,49,17,440	7,21,47,030	1,71,290	24,648	2,72,974	1,808	1,471	2,099	0.71	4.60	3.78
Tripura	10,486	10,094	392	27,12,464	9,61,453	36,73,917	30,446	1,096	35,340	2,797	3,016	3,370	1.14	11.22	9.62
Uttar Pradesh	2,40,928	2,33,366	7,562	1,53,17,278	4,44,95,063	19,98,12,341	2,70,812	71,602	4,59,846	9,468	1,160	1,909	1.61	1.74	2.30
Uttarakhand	53,483	52,581	902	70,36,954	30,49,338	1,00,86,292	39,692	6,425	63,679	7,124	755	1,191	2.11	5.64	6.31
West Bengal	88,752	83,626	5,126	6,21,83,113	2,90,93,002	9,12,76,115	1,57,849	95,061	2,85,197	18,546	1,888	3,213	3.27	2.54	3.12
A. & N. Islands	8,249	8,211	38	2,37,093	1,43,488	3,80,581	626	281	1,892	7,409	76	229	1.96	2.64	4.97
Chandigarh	114	4	110	28,991	10,26,459	10,55,450	0	2,485	2,592	22,684	0	22,734	2.42	0.00	2.46
D. & N. Haveli	491	445	46	1,83,114	1,60,595	3,43,709	798	84	1,161	1,834	1,792	2,364	0.52	4.36	3.38
Daman & Diu	111	62	49	60,396	1,82,851	2,43,247	116	53	251	1,087	1,863	2,258	0.29	1.93	1.03
Delhi	1,483	326	1,157	4,19,042	1,63,68,899	1,67,87,941	19	15,843	17,786	13,698	59	11,994	0.97	0.05	1.06
Lakshadweep	30	9	21	14,141	50,332	64,473	218	4	223	209	23,818	7,425	0.09	15.45	3.46
Puducherry	490	335	155	3,95,200	8,52,753	12,47,953	2,530	2,607	5,572	16,870	7,544	11,370	3.06	6.40	4.46
INDIA (1) ++	32,87,469	31,01,474	1,02,252	83,37,48,852	37,71,06,125	1,21,08,54,977	35,95,948	5,48,394	54,60,004	5,363	1,159	1,661	1.45	4.31	4.51

Note : Andhra prdesh includes the road length of Telengana

Total length excludes JRY roads

Road Density per 1000 Sq. Km for different Categories of Roads

Name of the States	National Highways	State Highways	District Roads	Rural Roads	Urban Roads	Project Roads	Total Road Length	Total Area	Total Population	Road Density	Road Density per 1000 Sq. Km					
											National Highways	State Highways	District Roads	Rural Roads	Urban Roads	Project Roads
1	2	3	4	5	6	7	8	9	10	10	11	12	13	14	15	16
Andhra Pradesh*	10,709	15,587	58,735	1,82,963	23,050	29,032	3,20,076	2,75,045	8,45,80,777	1,164	38.9	56.7	214	665.21	83.80	105.55
Arunachal Pradesh	2,537	13,500	9,278	22,891	109	4,601	52,916	83,743	13,83,727	632	30.3	161.2	111	273.35	1.30	54.94
Assam	3,909	2,530	6,118	4,03,027	6,268	28,439	4,50,290	78,438	3,12,05,576	5,741	49.8	32.3	78	5,138.16	79.90	362.56
Bihar	5,387	3,714	13,475	2,60,171	14,599	2,230	2,99,576	94,163	10,40,99,452	3,181	57.2	39.4	143	2,762.99	155.04	23.68
Chhattisgarh	3,606	4,137	12,300	62,278	13,638	15,665	1,11,624	1,35,192	2,55,45,198	826	26.7	30.6	91	460.66	100.88	115.87
Goa	293	279	1,243	15,910	913	334	18,972	3,702	14,58,545	5,125	79.1	75.5	336	4,297.61	246.52	90.29
Gujarat	6,900	16,557	31,088	1,34,069	31,471	40,541	2,60,627	1,96,244	6,04,39,692	1,328	35.2	84.4	158	683.18	160.37	206.59
Haryana	3,166	1,602	22,563	7,027	11,794	7,587	53,738	44,212	2,53,51,462	1,215	71.6	36.2	510	158.93	266.77	171.60
Himachal Pradesh	2,607	0	3,738	48,350	5,902	7,519	68,116	55,673	68,64,602	1,224	46.8	0	67	868.47	106.02	135.05
Jammu & Kashmir	2,423	310	19,695	78,228	2,096	18,865	1,21,617	2,22,236	1,25,41,302	547	10.9	1.4	89	352.00	9.43	84.89
Jharkhand	3,367	1,232	11,504	46,568	7,419	13,872	83,962	79,716	3,29,88,134	1,053	42.2	15.5	144	584.17	93.07	174.02
Karnataka	7,335	19,469	49,526	2,23,405	43,541	26,413	3,69,687	1,91,791	6,10,95,297	1,928	38.2	101.5	258	1,164.84	227.02	137.72
Kerala	1,782	4,128	25,419	1,88,931	28,859	9,257	2,58,375	38,852	3,34,06,061	6,650	45.9	106.2	654	4,862.84	742.78	238.26
Madhya Pradesh	8,772	11,389	50,714	2,33,817	34,093	30,486	3,69,271	3,08,252	7,26,26,809	1,198	28.5	36.9	165	758.53	110.60	98.90
Maharashtra	17,931	31,992	1,10,362	3,97,158	30,386	22,043	6,09,872	3,07,713	11,23,74,333	1,982	58.3	104	359	1,290.68	98.75	71.64
Manipur	1,750	781	3,095	25,664	236	1,167	32,694	22,327	28,55,794	1,464	78.4	35	139	1,149.45	10.58	52.27
Meghalaya	1,156	809	4,661	36,370	640	606	44,241	22,429	29,66,889	1,972	51.5	36.1	208	1,621.55	28.53	27.01
Mizoram	1,423	170	2,084	14,414	22	1,305	19,418	21,081	10,97,206	921	67.5	8.1	99	683.74	1.06	61.88
Nagaland	1,548	650	5,129	28,266	1,287	964	37,844	16,579	19,78,502	2,283	93.4	39.2	309	1,704.94	77.63	58.17
Odisha	5,762	4,211	21,622	2,27,019	19,404	25,906	3,03,923	1,55,707	4,19,74,218	1,952	37.0	27.0	139	1,457.99	124.62	166.38
Punjab	3,324	859	7,208	1,04,565	19,501	13,312	1,48,768	50,362	2,77,43,338	2,954	66.0	17.1	143	2,076.26	387.22	264.32
Rajasthan	10,342	15,165	24,704	1,71,909	32,881	10,587	2,65,588	3,42,239	6,85,48,437	776	30.2	44.3	72	502.31	96.08	30.94
Sikkim	463	663	1,469	8,550	98	1,053	12,296	7,096	6,10,577	1,733	65.2	93.4	207	1,204.95	13.74	148.39
Tamil Nadu	6,742	11,169	48,236	1,71,290	24,648	10,890	2,72,974	1,30,060	7,21,47,030	2,099	51.8	85.9	371	1,317.01	189.51	83.73
Tripura	854	1,057	461	30,446	1,096	1,427	35,340	10,486	36,73,917	3,370	81.4	100.8	44	2,903.47	104.51	136.06
Uttar Pradesh	11,708	8,322	55,026	2,70,812	71,602	42,375	4,59,846	2,40,928	19,98,12,341	1,909	48.6	34.5	228	1,124.04	297.19	175.88
Uttarakhand	2,949	4,469	4,811	39,692	6,425	5,333	63,679	53,483	1,00,86,292	1,191	55.1	83.6	90	742.13	120.13	99.72
West Bengal	3,664	3,646	10,441	1,57,849	95,061	14,534	2,85,197	88,752	9,12,76,115	3,213	41.3	41.1	118	1,778.54	1,071.09	163.76
A. & N. Islands	331	257	180	626	281	218	1,892	8,249	3,80,581	229	40.1	31.1	22	75.94	34.06	26.41
Chandigarh	15	9	83	0	2,485	0	2,592	114	10,55,450	22,734	134	78.0	728	0	21,794.30	0
D. & N. Haveli	59	30	190	798	84	0	1,161	491	3,43,709	2,364	120.2	60.7	387	1,625.17	170.74	0
Daman & Diu	0	22	59	116	53	1	251	111	2,43,247	2,258	0	198.2	527	1,048.65	475.36	9.01
Delhi	157	34	1,384	19	15,843	350	17,786	1,483	1,67,87,941	11,994	105.9	23	933	12.97	10,682.88	235.68
Lakshadweep	0	0	0	218	4	0	223	30	64,473	7,425	0	0	0	7,280.33	145.00	0
Puducherry	27	0	363	2,530	2,607	44	5,572	490	12,47,953	11,370	54.8	0	740	5,164.21	5,321.26	89.83
INDIA (1) ++	1,32,995	1,78,749	6,16,964	35,95,948	5,48,394	3,86,954	54,60,004	32,87,469	1,21,08,54,977	1,661	40.5	54.4	188	1,093.83	166.81	117.71

Note : \* Andhra Pradesh also includes the road length of Telengana

Excluding JRY roads



## Road length per 1000 population

Name of the States	National Highways	State Highways	District Roads	Rural Roads	Urban Roads	Project Roads	Total Road Length	Total Population	Road length per '000 pop	Road length per '000 Population				
										National Highways	State Highways	District Roads	Rural Roads	Urban roads
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Andhra Pradesh*	10,709	15,587	58,735	1,82,963	23,050	29,032	3,20,076	8,45,80,777	3.78	0.13	0.18	0.69	2.16	0.27
Arunachal Pradesh	2,537	13,500	9,278	22,891	109	4,601	52,916	13,83,727	38.24	1.83	9.76	6.71	16.54	0.08
Assam	3,909	2,530	6,118	4,03,027	6,268	28,439	4,50,290	3,12,05,576	14.43	0.13	0.08	0.20	12.92	0.20
Bihar	5,387	3,714	13,475	2,60,171	14,599	2,230	2,99,576	10,40,99,452	2.88	0.05	0.04	0.13	2.50	0.14
Chhattisgarh	3,606	4,137	12,300	62,278	13,638	15,665	1,11,624	2,55,45,198	4.37	0.14	0.16	0.48	2.44	0.53
Goa	293	279	1,243	15,910	913	334	18,972	14,58,545	13.01	0.20	0.19	0.85	10.91	0.63
Gujarat	6,900	16,557	31,088	1,34,069	31,471	40,541	2,60,627	6,04,39,692	4.31	0.11	0.27	0.51	2.22	0.52
Haryana	3,166	1,602	22,563	7,027	11,794	7,587	53,738	2,53,51,462	2.12	0.12	0.06	0.89	0.28	0.47
Himachal Pradesh	2,607	0	3,738	48,350	5,902	7,519	68,116	68,64,602	9.92	0.38	0.00	0.54	7.04	0.86
Jammu & Kashmir	2,423	310	19,695	78,228	2,096	18,865	1,21,617	1,25,41,302	9.70	0.19	0.02	1.57	6.24	0.17
Jharkhand	3,367	1,232	11,504	46,568	7,419	13,872	83,962	3,29,88,134	2.55	0.10	0.04	0.35	1.41	0.22
Karnataka	7,335	19,469	49,526	2,23,405	43,541	26,413	3,69,687	6,10,95,297	6.05	0.12	0.32	0.81	3.66	0.71
Kerala	1,782	4,128	25,419	1,88,931	28,859	9,257	2,58,375	3,34,06,061	7.73	0.05	0.12	0.76	5.66	0.86
Madhya Pradesh	8,772	11,389	50,714	2,33,817	34,093	30,486	3,69,271	7,26,26,809	5.08	0.12	0.16	0.70	3.22	0.47
Maharashtra	17,931	31,992	1,10,362	3,97,158	30,386	22,043	6,09,872	11,23,74,333	5.43	0.16	0.28	0.98	3.53	0.27
Manipur	1,750	781	3,095	25,664	236	1,167	32,694	28,55,794	11.45	0.61	0.27	1.08	8.99	0.08
Meghalaya	1,156	809	4,661	36,370	640	606	44,241	29,66,889	14.91	0.39	0.27	1.57	12.26	0.22
Mizoram	1,423	170	2,084	14,414	22	1,305	19,418	10,97,206	17.70	1.30	0.16	1.90	13.14	0.02
Nagaland	1,548	650	5,129	28,266	1,287	964	37,844	19,78,502	19.13	0.78	0.33	2.59	14.29	0.65
Odisha	5,762	4,211	21,622	2,27,019	19,404	25,906	3,03,923	4,19,74,218	7.24	0.14	0.10	0.52	5.41	0.46
Punjab	3,324	859	7,208	1,04,565	19,501	13,312	1,48,768	2,77,43,338	5.36	0.12	0.03	0.26	3.77	0.70
Rajasthan	10,342	15,165	24,704	1,71,909	32,881	10,587	2,65,588	6,85,48,437	3.87	0.15	0.22	0.36	2.51	0.48
Sikkim	463	663	1,469	8,550	98	1,053	12,296	6,10,577	20.14	0.76	1.09	2.41	14.00	0.16
Tamil Nadu	6,742	11,169	48,236	1,71,290	24,648	10,890	2,72,974	7,21,47,030	3.78	0.09	0.15	0.67	2.37	0.34
Tripura	854	1,057	461	30,446	1,096	1,427	35,340	36,73,917	9.62	0.23	0.29	0.13	8.29	0.30
Uttar Pradesh	11,708	8,322	55,026	2,70,812	71,602	42,375	4,59,846	19,98,12,341	2.30	0.06	0.04	0.28	1.36	0.36
Uttarakhand	2,949	4,469	4,811	39,692	6,425	5,333	63,679	1,00,86,292	6.31	0.29	0.44	0.48	3.94	0.64
West Bengal	3,664	3,646	10,441	1,57,849	95,061	14,534	2,85,197	9,12,76,115	3.12	0.04	0.04	0.11	1.73	1.04
A & N Islands	331	257	180	626	281	218	1,892	3,80,581	4.97	0.87	0.67	0.47	1.65	0.74
Chandigarh	15	9	83	0	2,485	0	2,592	10,55,450	2.46	0.01	0.01	0.08	0.00	2.35
D & N Haveli	59	30	190	798	84	0	1,161	3,43,709	3.38	0.17	0.09	0.55	2.32	0.24
Daman & Diu	0	22	59	116	53	1	251	2,43,247	1.03	0.00	0.09	0.24	0.48	0.22
Delhi	157	34	1,384	19	15,843	350	17,786	1,67,87,941	1.06	0.01	0.00	0.08	0.00	0.94
Lakshadweep	0	0	0	218	4	0	223	64,473	3.46	0.00	0.00	0.00	3.39	0.07
Puducherry	27	0	363	2,330	2,607	44	5,572	12,47,953	4.46	0.02	0.00	0.29	2.03	2.09
INDIA (1) ++	1,32,995	1,78,749	6,16,964	35,95,948	5,48,394	3,86,954	54,60,004	1,21,08,54,977	4.51	0.11	0.15	0.51	2.97	0.45

Note: \* Andhra Pradesh also includes the road length of Telengana

Excluding JRY roads





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