

# **Basic Road Statistics of India (2016-2017)**



**GOVERNMENT OF INDIA**  
**MINISTRY OF ROAD TRANSPORT & HIGHWAYS**  
**TRANSPORT RESEARCH WING**  
IDA BUILDING, JAMNAGAR HOUSE,  
SHAHJAHAN ROAD, NEW DELHI-110011  
[www.morth.nic.in](http://www.morth.nic.in)

# **BASIC ROAD STATISTICS OF INDIA**

## **2016-17**



सत्यमेव जयते

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भारत सरकार / Government of India



## FOREWORD

A good road network is an essential requirement for the rapid growth of the economy. Roads provide connectivity to remote areas; open up of backward regions and facilitate access to markets, trade and investment. Roads should not be looked at in isolation, but as part of an integrated multi-modal system of transport system which provides crucial links with airports, railway stations, ports and other logistical hubs.

The Ministry of Road Transport & Highways is mandated with the development & maintenance of road network especially that of National Highways. There has been a consistent increase in the budgetary allocations for construction and maintenance as also in the expenditure incurred in the sector. The Ministry implements programmes like the Special Accelerated Development Programme in the North East (SARDP-NE), Development of the Left Wing Extremism, Bharatmala Pariyojna which aims to bridge the critical infrastructure gaps in areas of intense economic activity, places of religious and tourist interest, border areas, backward and tribal, coastal areas and trade routes.

To hasten the pace of construction of Highways, Ministry has introduced a proactive sector policy, including, process streamlining indicating approval authorities with enhanced delegation of approval limits, putting in place mechanisms for inter-ministerial coordination, detailing steps to be taken for languishing projects, introducing innovative project financing for leveraging both private and public funding, streamlining land acquisition processes, issue of explicit guidelines on standards of road construction in hill areas as also to do away with sub optimal alignments etc.

The present issue of “Basic Road Statistics of India 2016-17” provides comprehensive information in respect of the total road network in the country which stood at 58.98 lakh kms as on 31st March 2017. The country's road network comprises of national highways, state highways, district roads, rural roads, urban roads and project roads. The issue brings out different dimensions of Road development, growth and its financing in the country.

It is hoped that this publication is useful to administrators, policy makers and the academia especially those interested in infrastructure development. I gratefully acknowledge the cooperation of different agencies involved in road construction. Contribution of the officers and staff of the Transport Research Wing involved in the work related to this publication is also recognized and deeply appreciated.

  
(Yudhvir Singh Malik)

New Delhi  
Date : March, 2019



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## PREFACE

The Basic Road Statistics of India is an annual publication on the road sector, brought out by Transport Research Wing of the Ministry of Road Transport & Highways. The present issue 'Basic Road Statistics of India, 2016-17 provides detailed State/UT-wise data in respect of various categories of roads at national, state, district and local levels (municipal and panchayat).

As per the report, India's road network as on 31.3.2017 was 58.98 lakh kms of which National Highways constituted 1.94%, State Highways constituted 2.97%, District Roads constituted 9.94%, Rural Roads (including JRY) constituted 70.65%, Urban roads constituted 9.27% and Project Roads constituted 5.58%.

The publication presents, inter-alia, an overview of the composition and growth of the road sector over a period of time, State/UT-wise spread of different category of Roads, International comparisons positioning Indian Roads viz-a-viz other countries, a chapter on recent initiatives taken by Ministry of Road Transport and Highways for improving Road network in the country including also the budgetary provisions and expenditure incurred, the various sources of finance for Highway development etc. The same is presented in the nine sections of the publication as laid out in the list of contents.

The present document contains substantial upgradations over the previous versions. The chapter on International comparisons has been recast, additional information is available on sources of financing of Highway Construction and the document has tried to rationalize the trends in data wherever possible as may be seen in the case of decline in State Highways, falling private Investment etc.

The data given in this publication is based on the information sourced from various Agencies both Central and State Government viz National Highways, State Highways, District Roads, Rural Roads, Urban Roads & Project Roads. I express my deep gratitude to all data source agencies for sharing the valuable data / information in support of our efforts to bring out this Publication. The officers and staff of the Transport Research Wing deserve a special mention, for the considerable effort put in by them, leading to the finalisation of this publication.

Constructive suggestions from the users of this document in improving its quality and coverage are welcome.

*Babni Lal*  
(Babni Lal)

New Delhi, March, 2019

## LIST OF CONTENTS

### CONTENTS

<b>Sl. No.</b>	<b>Sections</b>	<b>Page No.</b>
1	Executive Summary	1-2
2	Section 1: Overview of Road Network in India	3-7
3	Section 2: National Highways in India	8-10
4	Section 3: State Highways in India	11-12
5	Section 4: District Roads in India	13-14
6	Section 5: Rural Roads in India	15-16
7	Section 6: Urban Roads in India	17-18
8	Section 7: Project Roads in India	19-20
9	Section 8: International Comparison of Road Network	21-22
10	Section 9: Initiatives taken by Ministry of Road Transport and Highways for improving road network in the country	23-26

## LIST OF TABLES

<b>Sl. No.</b>	<b>Tables</b>	<b>Page No.</b>
1	Table 1.1: Road Network by Categories (in kilometres) – 1950-51 to 2015-16 and 2016-17	3
2	Table 1.2: CAGR (in%) of Road Networks - 1951 to 2017	4
3	Table 1.3: Investment in Highways in both Public and Private 2006-07 to 2016-17 (in Crores)	5
4	Table 2.1: Lane-wise Break-up of National Highways - 2015-16 & 2016-17	9
5	Table 8.1: Major Road Indicators across Select Countries	21
6	Table 9.1: Information regarding the period 2014-15 to 2017 - 18	23
7	Table 9.2 : Central Road Sector Outlay (at RE Stage) and Expenditure (At Current Price) for the period 2014-15 to 2017-18	27
8	Table 9.3: Expenditure (actual) incurred in the Development and Maintenance of National Highways by MoRTH by source of funding in last 6 years	28
9	Table 9.4: the State/UT – wise details of fund allocation /utilized for the Development of NHs	29-30

## LIST OF CHARTS

<b>Sl. No.</b>	<b>Chart</b>	<b>Page No.</b>
1	Chart 1.1: Trend of Growth in Road Length by Categories: 1950-51 to 2016 -17	4
2	Chart 1.2: Snapshot of total and Surfaced Road length (in Lakh kms) in India: 1950-51 to 2016-17	6
3	Chart 1.3: Percentage share of Road length in total length by Categories: 2016-17	7
4	Chart 1.4: State/UT wise total length of Roads (in kms) in India (excluding JRY roads) as on 31.03.2017	7
5	Chart 2.1: Total length of National Highways (in kms) in India:1951 to 2017	8
6	Chart 2.2: State/UT-wise Length of National Highways (in kms): as on 31.03.2017	9
7	Chart 3.1: The length of State Highways (in kms) in India : 1970 to 2017	11
8	Chart 3.2: State/UT-wise Length of State Highway (in kms) as on 31.03.2017	12
9	Chart 4.1: State/UT-wise Length of District Roads (in kms) as on 31.03.2017	13
10	Chart 5.1: Total Length of Rural Roads in India: 1950-2017	15
11	Chart 5.2: State/UT-wise Length of Rural Roads in India (in kms)as on 31.03.2017	16
12	Chart 6.1: Total Length of Urban Roads in India: 1960-61 to 2016-17	17
13	Chart 6.2: State/UT-wise length of Urban Roads (in kms) as on 31.03.2017	18
14	Chart 7.1: Total Length of Project Roads in India: 1970-71 to 2016-17	19
15	Chart 7.2: State/UT-wise Length of Project Roads in India (in kms) as on 31.03.2017	20

## LIST OF ANNEXURE

<b>Annexure No.</b>	<b>Annexure</b>	<b>Page No.</b>
1.1	Total and Surfaced Road Length by Categories in India as on 31.03.2017	31
1.2	Road Length by Categories and by Type of Surface in India as on 31.03.2017	32
1.3	State/UT wise Total and Surfaced Length of Roads in India (excluding JRY Roads) as on 31.03.2017 (State/UT-wise)	33
1.4	Total Road Length and Percentage Share of Each Category of Road (1951-2017)	34
2.1	Length of National Highways in India as on 31.03.2017 (State/UT-wise)	35
2.2	Lane-wise Length of National Highways in India as on 31.03.2017 (State/UT-wise)	36
3.1	Total and Surfaced Length of State Highways in India as on 31.03.2017 (State/UT-wise)	37
3.2	Length of State Highways in India by Type of Surface as on 31.03.2017 (State/UT-wise)	38
4.1	Total and Surfaced Length of District Roads as on 31.03.2017 (State/UT-wise)	39
4.2	Length of District Roads as on 31.03.2017 (State/UT-wise)	40
5.1	Total and Surfaced Length of Rural Roads as on 31.03.2017 (State/UT-wise)	41
5.2	Length of Pradhan Mantri Gram Sadak Yojana Roads by Type of Surface as on 31.03.2017 (State/UT-wise)	42
5.3	Length of Rural Roads built by State PWD/RWD- by Type of Surface as on 31.03.2017 (State/UT-wise)	43
5.4	State/UT-wise Length of Panchayati Raj Roads by Type of Surface as on 31.03.2017	44
6.1	State/UT-wise Total and Surfaced Length of Urban Roads as on 31.03.2017	45
6.2	State/UT-wise Length of Municipal Roads by Type of Surface as on 31.03.2017	46
6.3	State/UT-wise Length of Military Engineering Service Roads by Type of Surface as on 31.03.2017	47

6.4	Length of Major Port Roads by Type of Surface as on 31.03.2017 (State/UT-wise)	48
6.5	Length of Minor Port Roads by Type of Surface as on 31.03.2017 (State/UT-wise)	49-50
6.6	Length of Railway Roads by Type of Surface in India as on 31.03.2017(State/UT-wise)	51
7.1	Total and Surfaced Length of Project Roads as on 31.03.2017 (State/UT-wise)	52
7.2	Length of Roads under Forest Department by Type of Surface as on 31.03.2017 (State/UT-wise)	53
7.3	Length of Roads under Border Roads Organisation- by Type of Surface in India as on 31.03.2017(State/UT-wise)	54
7.4	Length of Roads under Coalfields/Coal units of Coal India Limited by Type of Surface as on 31.03.2017(State-wise)	55-56
7.5	Length of Roads under Electricity Department by Type of Surface as on 31.03.2017(State/UT-wise)	57
7.6	Length of Roads under Irrigation Department of States by Type of Surface in India as on 31.03.2017(State-wise)	58
7.7	Length of Roads under Sugarcane Department of States by Type of Surface as on 31.03.2017(State/UT-wise)	59
7.8	Length of Roads under SAIL & NMDC by Type of Surface in India as on 31.03.2017(State-wise)	60
8.1	State/UT-Wise National Highways in the country as on 31.03.2017	61-62
Terms and Definitions		63-64

## EXECUTIVE SUMMARY

A good road network is essential for rapid growth of the economy. Roads should not be looked at in isolation but as a part of an integrated multi-model system of transport.

2. Various construction programmes for different classes of roads over the past two-and-a-half decades have yielded a significant expansion in network size in India. Efforts are being made for a balanced development of road network (primary, secondary and tertiary systems). Further, through recent initiatives, the development of the primary road network is being tied up with the railway's dedicated freight corridors/other segments of rail network, connectivity with ports, airports, logistic hubs, major tourist centres and linkage with neighbouring countries.
3. Development & maintenance of roads are undertaken by various agencies of both Central and State Governments. The main agencies are: State PWDs, National Highways Authority of India, National Highway Infrastructure Development Corporation, Border Roads Organisation, National Rural Development Agency of Ministry of Rural Development, State Forest Departments, Railways, Port Trusts, Municipal Corporations, PSUs etc.
4. The Ministry of Road Transport & Highways is primarily responsible for development and maintenance of National Highways. It has been making continuous efforts, through a pro-active sector policy, leveraging both public and private investment, to expand and upgrade the road network specially that of National Highways, which has increased from a length of 70,934 km in 2010-11 to 1,14,158 km as on 31.03.2017.
5. India's road network as on 31.03.2017 was 58.98 lakh km. The break-up category-wise is given below:

<b>Category of Road</b>	<b>Length of Roads (km)</b>	<b>% share of Total Roads</b>
National Highways (NHs)	1,14,158	1.94
State Highways (SHs)	1,75,036	2.97
District Roads	5,86,181	9.94
Rural Roads (including JRY Roads)	41,66,916	70.65
Urban Roads	5,26,483	8.93
Project Roads	3,28,897	5.58
<b>Total</b>	<b>58,97,671</b>	100

India's road network of 58.98 lakh kms is the second largest in the World after the United States of America which has a road network of 66.45 lakh kms.

6. Using Road length in India as on 31.3.2017, India's road density is estimated at 1.80 km per sq km which is equivalent to that of Germany.

7. Adjusted for its population as provided in Census 2011, India has approximately 4.87 km of roads per 1000 people in 2017 which is much lesser than Australia, Canada and US.

8. The paved/surfaced road length in India based on the data reported as on 31.3.17 is estimated 63.24 per cent of the total road length is much lesser than that of UK and France at 100%.

9. National Highways in India with a length of 1,14,158 kms (ranks second after Australia) and accounted for 1.94 % of the total length of Road Network in India as on 31st March, 2017 with Rural Roads accounting for 70.65%

## Section – 1

### Overview of Road Network in India

1.1 As on 31.3.2017, the existing stock of road length in India was 58.98 lakh kms.

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 with percentage share of different type of Highways given Table 1.1 and Chart 1.3.

1.3 The development and maintenance of roads in India are undertaken by various agencies of both Central and State Governments. The Ministry of Road Transport & Highways is primarily responsible for the development and maintenance of National Highways and executes the same through the agency of National Highways Authority of India Ltd, National Highway Infrastructure Development Corporation Ltd. (NHIDCL), State PWDs (2 lane NH), & Border Roads Organisation etc. 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 Road Development Agency (NRRDA) of Ministry of Rural Development.

1.4 Table 1.1 shows the progress of road length under different categories during the period 31st March, 1951 to 31st March, 2017.

**Table 1.1: Road Network by Categories (in kms) – 1950-51 to 2016-17**

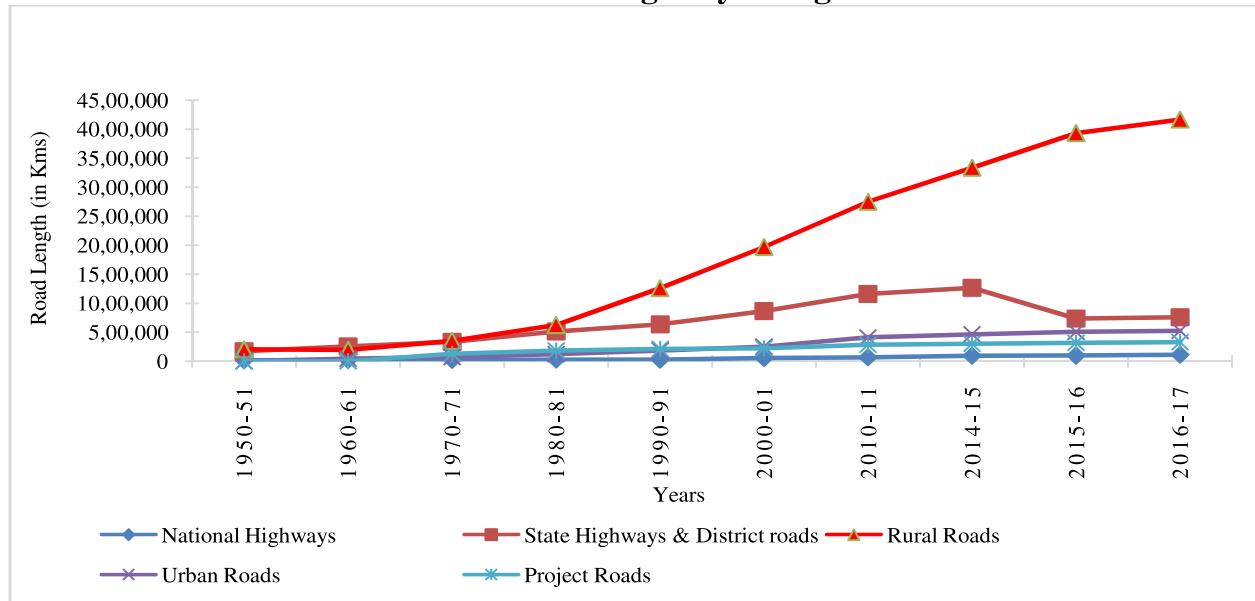
Road Category	1950-51	1960-61	1970-71	1980-81	1990-91	2000-01	2010-11	2013-14	2014-15	2015-16	2016-17
<b>National Highways</b>	19811 (4.95)	23798 (4.54)	23838 (2.61)	31671 (2.13)	33650 (1.45)	57737 (1.71)	70934 (1.52)	91287 (1.69)	97991 (1.79)	101011 (1.80)	114158 (1.94)
<b>State Highways</b>	^	^	56765 (6.20)	94359 (6.35)	127311 (5.47)	132100 (3.92)	163898 (3.50)	170818 (3.16)	167109 (3.05)	176166 (3.14)	175036 (2.97)
<b>District Roads</b>	173723 (43.44)	257125 (49.02)	276833 (30.26)	421895 (28.40)	509435 (21.89)	736001 (21.82)	998895 (21.36)	1082267 (20.03)	1101178 (20.12)	561940 (10.03)	586181 (9.94)
<b>Rural Roads(*)</b>	206408 (51.61)	197194 (37.60)	354530 (38.75)	628865 (42.34)	1260430 (54.16)	1972016 (58.46)	2749804 (58.80)	3304328 (61.16)	3337255 (60.99)	3935337 (70.23)	4166916 (70.65)
<b>Urban Roads</b>	0	46361 (8.84)	72120 (7.88)	123120 (8.29)	186799 (8.03)	252001 (7.47)	411679 (8.80)	457467 (8.47)	467106 (8.54)	509730 (9.10)	526483 (8.93)
<b>Project Roads</b>	0	0	130893 (14.31)	185511 (12.49)	209737 (9.01)	223665 (6.63)	281628 (6.02)	296319 (5.48)	301505 (5.51)	319109 (5.70)	328897 (5.58)
<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>54,02,486</b>	<b>54,72,144</b>	<b>56,03,293</b>	<b>58,97,671</b>

Note: Figures in parenthesis indicate percent to total road length.

(\*)- Total includes 9 lakh Km of Rural roads constructed under Jawahar Rozgar Yojana)

1.5 The total road length of the country increased significantly from 3.99 lakh km in 1951 to 58.98 lakh km in 2017, growing at a Compound Annual Growth Rate (CAGR) of 4.2%. The long run trend of growth in road length for the period 1951-2017 are presented in Chart 1.1 and CAGR for the period 1951-2017, along with decadal CAGRs, are given in Table 1.2.

**Chart 1.1 Trend of Growth in Road Length by Categories 1950-51 to 2016-17**



**Table 1.2 CAGR (in %) of Road Networks -1951 to 2017**

Period	NHs	SHs & District Roads	Rural Roads	Urban Roads	Project Roads	Total
2017/1951	2.7	2.3	4.7	NA	NA	4.2
1961/1951	1.9	4.0	-0.5	NA	NA	2.7
1971/1961	0.0	2.6	6.0	4.5	NA	5.7
1981/1971	2.9	4.5	5.9	5.5	2.1	5.0
1991/1981	0.6	2.1	7.2	4.3	1.2	4.6
2001/1991	5.5	3.1	4.6	3.0	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	5.0	1.5	3.7
2016/2006	4.3	-2.5	5.5	5.7	2.0	3.7
2017/2007	5.5	-2.6	5.7	5.8	2.0	3.9

\* 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

## **1.6 Decadal analysis:**

During the decade, 2007-2017, the highest CAGR was that of urban roads (5.8%) followed by rural roads (5.7%) and National Highways (5.5%). As seen from Table 1.1, the length of National Highways was 70,934 kms in 2010-2011 and has increased consistently to 114158 kms in 2016-17.

1.7 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 is given in Table 1.3.

1.8 The data reveals that the combined public and private investment has increased during 2012-13 to 2016-17 @ CAGR of 21.8%. However, the share of private sector Investment in the construction of National Highways has gone down from 48.35% in 2012-13 to 17.37% in 2016-17 while that of public sector Investment has increased from 51.65% in 2012-13 to 82.63% in 2016-17.

**Table1.3 Investment in Highways in both Public and Private from 2012-13 to 2017-18 (in Crores)**

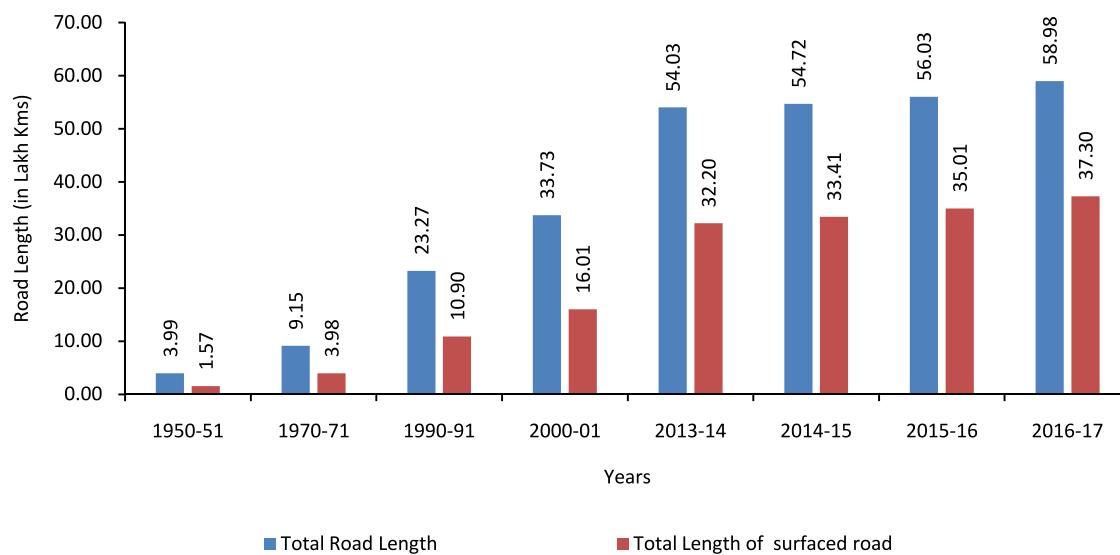
<b>Sr. No.</b>	<b>Year</b>	<b>Expenditure</b>		
		<b>Private Sector Investment</b>	<b>Public Sector Investment(including Plan, non plan and IEBR)</b>	<b>Total</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
1	2012-13	20304.66(48.35)	21693.74(51.65)	<b>41998.4</b>
2	2013-14	22515.05(42.56)	30385.64(57.44)	<b>52900.69</b>
3	2014-15	19232.44(38.83)	30295.26(61.17)	<b>49527.7</b>
4	2015-16	29770.00(30.97)	66369.14(69.03)	<b>96139.14</b>
5	2016-17	16028.64(17.37)	76275.26(82.63)	<b>92303.9</b>
<b>CAGR (2012-13/2016-17)</b>				<b>21.8</b>

Source: Calculation based on the Expenditure statement of Roads Wing (Annexure 8.1 at the end of the Report)  
Note: Figures in parenthesis indicates the percentage share in total

## 1.9 Details of Road Length and Road Categories – 2016-17

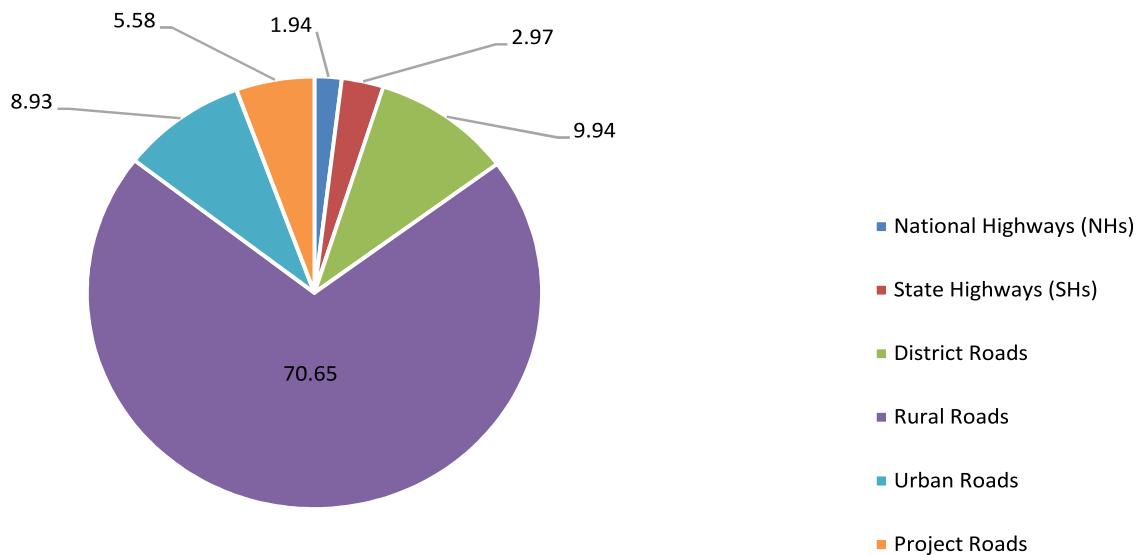
Along with the increase in the total road length, the paved/ surfaced road length has also increased. The latter grew from 1.57 lakh kms as on 31st March 1951 to 37.29 lakh kms as on 31st March 2017. Surfaced roads formed 39.26% of the total road length as on 31st March, 1951 which has increased over the years to 63.24% as on 31st March, 2017. The snap shot of total and surfaced road length (in Kms) during the period 1950-51 to 2016-17 has been graphically represented in Chart 1.2.

**Chart 1.2: Snap shot of Total and Surfaced Road Length (in Lakh Kms) in India - 1950-51 to 2016-17**



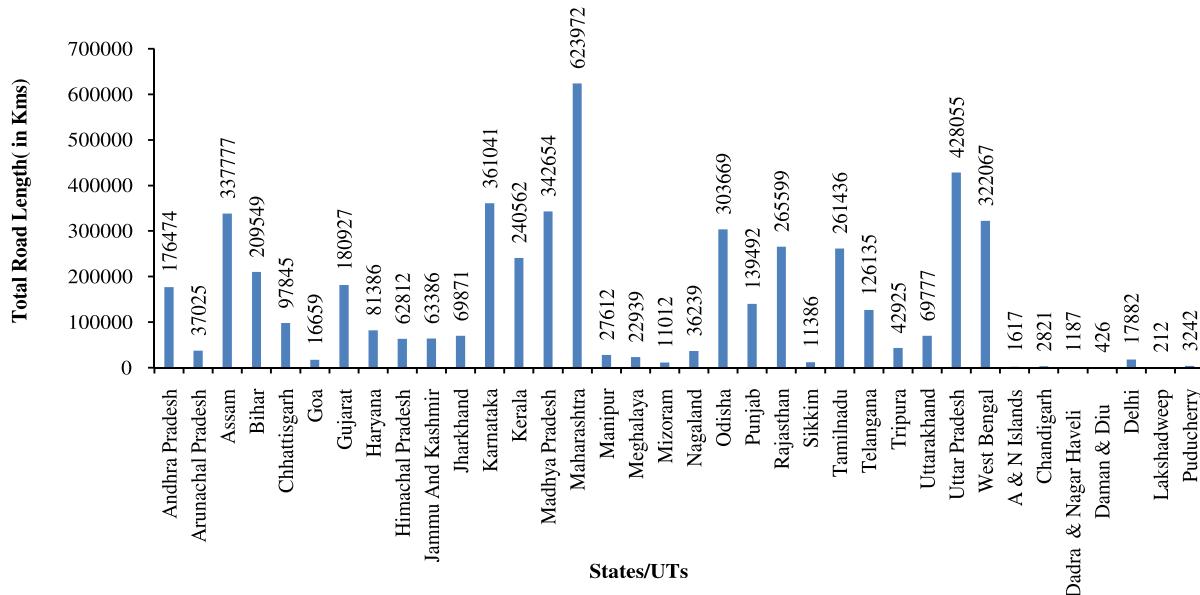
1.10 The data in Table 1.1 reveals that the share of rural roads (70.65%) was the highest in the total road length followed by district roads (9.94%) and urban roads (8.93%). The share a different category of roads in total road length is presented in Chart 1.3

**Chart 1.3: Percentage share of Road Length in total length by Categories:  
2016-17**



1.11 State wise break up total road length (excluding JRY roads) shows that for the period up to 31st March 2017, Maharashtra (623972Km) accounted for the largest share (12.49%) in total followed by Uttar Pradesh (8.57%), Karnataka (7.22%), Madhya Pradesh (6.86%) and Assam (6.76%) (chart 1.4 and Annexure 1.3 refers). These five states with the largest road networks accounted for a combined share of about 41.89%.

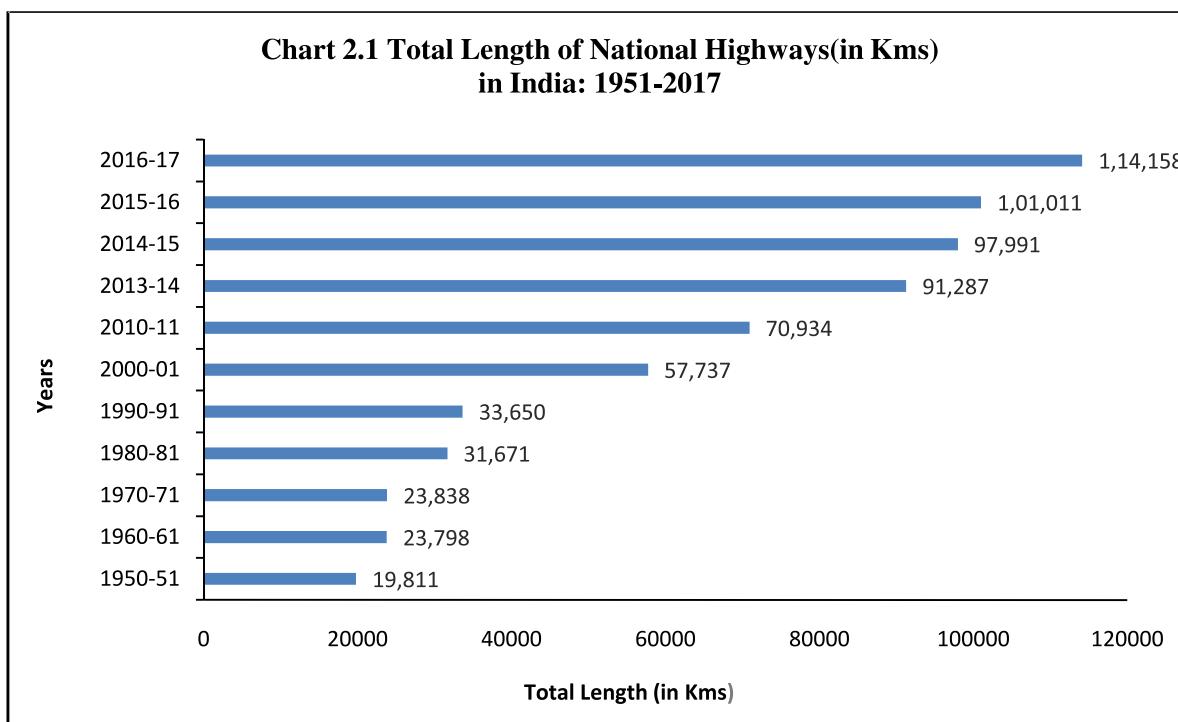
**Chart 1.4: Total Length of Roads (in Kms) in India (excluding JRY roads) as on 31.3.2017  
(State/UT wise)**



## Section – 2

### National Highways in India

2.1 National Highways constitute the primary system of road transportation in India. These are the main highways running through 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 neighboring countries. Ministry of Road Transport & Highways, Government of India, is responsible for the development and maintenance of NHs in India. The growth of National Highways since 1951 is depicted in Chart 2.1.



2.2 National Highways comprise of 1.94% of total road network in the country. The data in Chart 2.1 reveals that the total length of National Highways as on 31.03.2017 was 1,14,158 Kms which is an increase of about 13.02 percent over the year 2015-16 (1,01,011 kms).

2.3 National Highways can be classified into three categories depending upon the type of lane i.e Less than two lane, Two-Lane and four-Lane & above. Category wise comparison of the different types of Highways for the years 2015-16 and 2016-17 is present in Table 2.1.

**Table 2.1: Lane-wise Break-up of National Highways - 2015-16 & 2016-17**

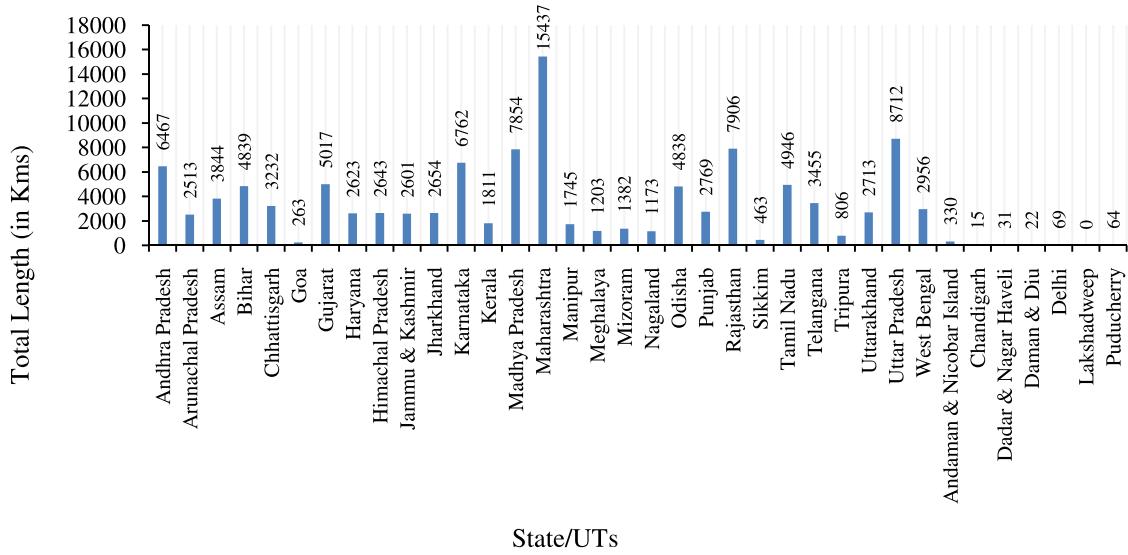
Lane wise Category of National Highways	As on 31 <sup>st</sup> March, 2016	As on 31 <sup>st</sup> March, 2017	Year on Year growth
Less than Two Lane	20,703 (20.49)	28,901 (25.32)	39.61
Two –Lane	55,603 (55.05)	58,910 (51.60)	5.95
Four- Lane & Above	24,705 (24.46)	26,347 (23.08)	6.65
	<b>1,01,011 (100)</b>	<b>1,14,158 (100)</b>	<b>13.02</b>

(Figures in parentheses indicate percentage share in total length of NH)

2.4 The data in Table 2.1 reveals that the biggest increase of 39.61 percent in 2016-17 has been in the category of less than two lanes as compared to 2015-16. The increase in 2016-17 in the other two categories of National Highways i.e. Two-Lane and Four-Lane & above has been 5.95 % and 6.65 %, respectively.

2.5 The State/UT wise length and share in National Highways is at Annexure 2.1 while the State/UT wise and Lane wise breakup of National Highways is at Annexure 2.2. Chart 2.2 is the pictorial presentation of State/UT wise length of national highways as on 31.3.2017.

**Chart 2.2 State /UT wise length of National Highway (in Kms) as on 31.03.2017**



2.6 The data in Annexure 2.1 and chart 2.2 reveals that Maharashtra accounted for the largest share (13.52%) in the total length of NHs as on 31st March 2017, followed by Uttar Pradesh (7.63%), Rajasthan (6.93%), Madhya Pradesh (6.88%) and Karnataka (5.92%). These five States accounted for about 40.88% of the total road length of Nhs.

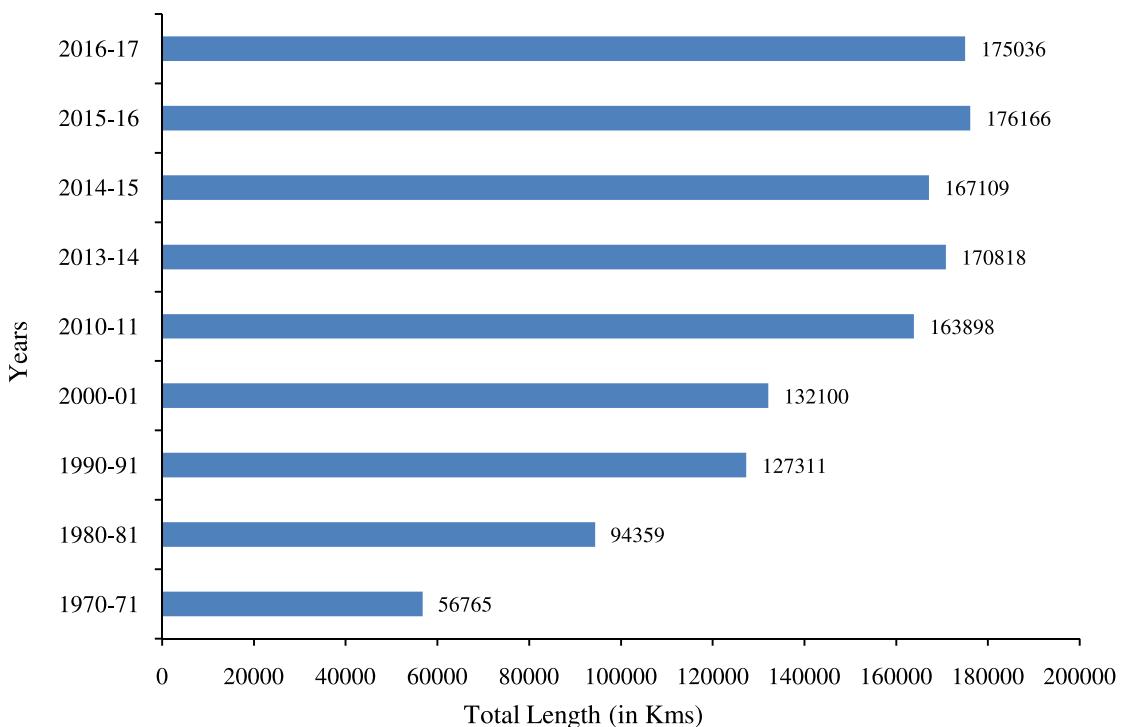
2.7 The data in Annexure 2.2 reveals that Maharashtra ranks first in two different categories of National Highways i.e in “less than two lane” with a total length of 8260 Km and in “Four-Lane and above” with a total of 3530 km. Uttar Pradesh with total 5480 kms takes the first place in “Two-Lane” category of National Highway.

## Section – 3

### State Highways in India

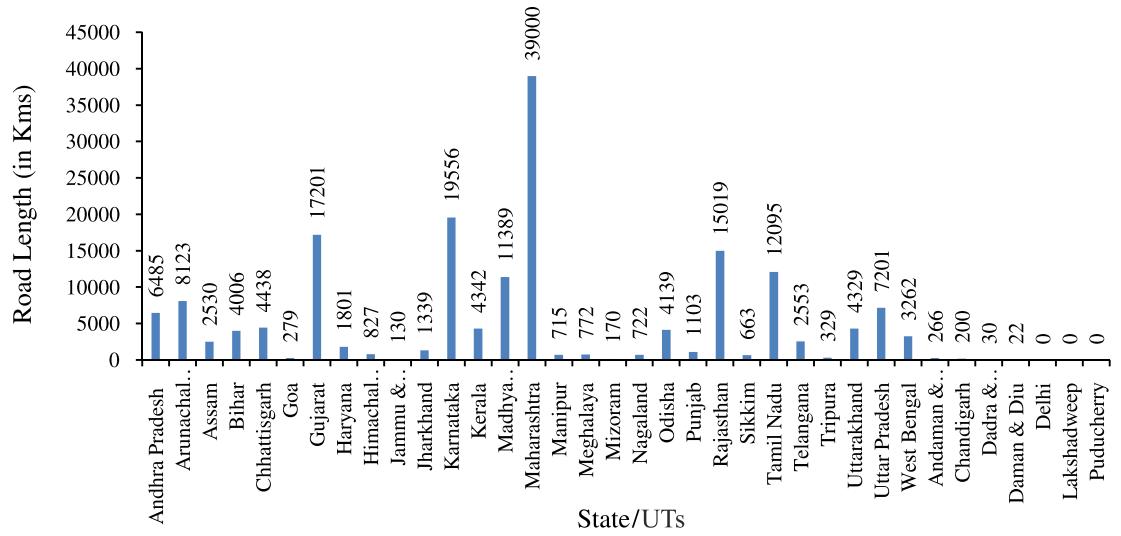
3.1 State Highways together with major district roads constitute the secondary system of road transportation in the country. These roads are administered and financed by State Governments through the State Public Works Departments (PWDs). The State Highways provide links with NHs, district headquarters of State, important towns, tourist centres and minor ports. The growth of SH since 1970-71 is depicted in Chart 3.1

**Chart 3.1 The Length of State Highways (in Kms) in India : 1970-2017**



3.2 The total length of State Highways as on 31<sup>st</sup> March, 2017 is 1,75,036 kms which is a decrease of about 0.64 percent as compared to 31<sup>st</sup> March, 2016. The reduction can be explained by the fact that the Ministry provides for conversion of State Highways into National Highways in the case of satisfaction of certain well established principles including requirements such as provision of connectivity with adjacent countries, national capital, state capitals, major ports, non-major ports, large industrial centers/tourist centers etc as also interse priority and availability of funds. The State wise breakup of State Highways is at Annexure 3.1. The details of type of surface of the State highways are at Annexure 3.2 and the pictorial presentation of state wise distribution of State highways is in Chart 3.2.

**Chart 3.2: State /UT wise length of Sate Highways (in Kms)  
as on 31.03.2017**



Note: Arunachal Pradesh has not classified its PWD roads into State Highways and District Roads. The total length of PWD Roads of 8123 kms. has been reflected under State Highways.

**3.3** The data in Chart 3.2 reveals and State/UT-wise break-up of State Highways at Annexure 3.2 reveals that as on 31st March, 2017 Maharashtra accounted for the largest share in the total length of SH roads (22.28%), followed by Karnataka (11.17%), Gujarat (9.83%), Rajasthan (8.58%) and Tamil Nadu (6.91%). These five States accounted for about 58.77% of the total length of SHs.

**3.4** The State/UT-wise details of State Highways at Annexure 3.2 also reveals that as on 31st March, 2017, out of total length of State Highways (175036 kms) around 96.61% of SH roads (169096 Kms) were surfaced. Out of total length of surfaced SHs, Bituminous Top (BT) and Cement Concrete (CC) roads accounted for about 98.45% and the remaining 1.55% were Water Bound Macadam (WBM) roads.

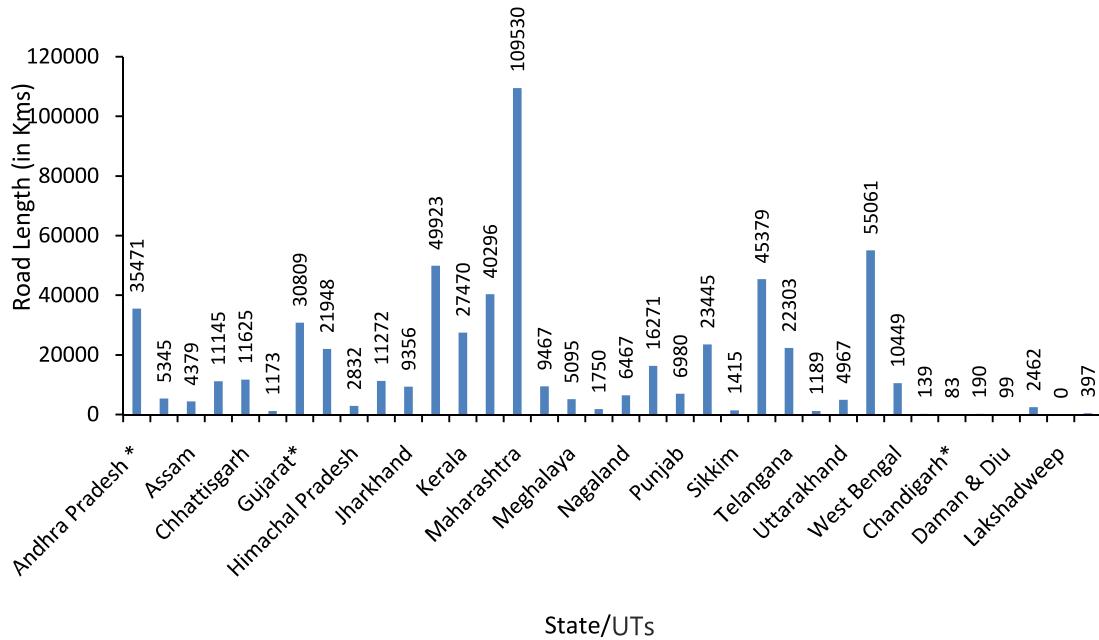
## Section – 4

### District Roads in India

4.1 District Roads constructed & maintained by Public Works Department of States and UTs, together with the State Highways, account for the secondary system of road transportation in the country. District Roads comprising of Major District Roads (MDRs), Other District Roads (ODRs) 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 5000 PCUs.

4.2 The details of State/UT-wise length of District Roads as on 31.03.2017 are at Annexure 4.1 and also presented in Chart 4.1, while the details of type of surface of district roads across different States is at Annexure 4.2..

**Chart 4.1: State/UT-wise Length of District Roads (in Kms) as on 31.03.2017**



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

4.3 The data in Annexure 4.1 and chart 4.1 reveals that the total length of District Roads as on 31st March, 2017 was 586181 kms out of which Maharashtra accounted for the largest share in the total length of District roads (18.69%), followed by U.P (9.39%), Karnataka (8.52%), Tamil Nadu (7.74%) and Madhya Pradesh (6.87%). These five States together account for about 51.21% of the total length of District Roads in India.

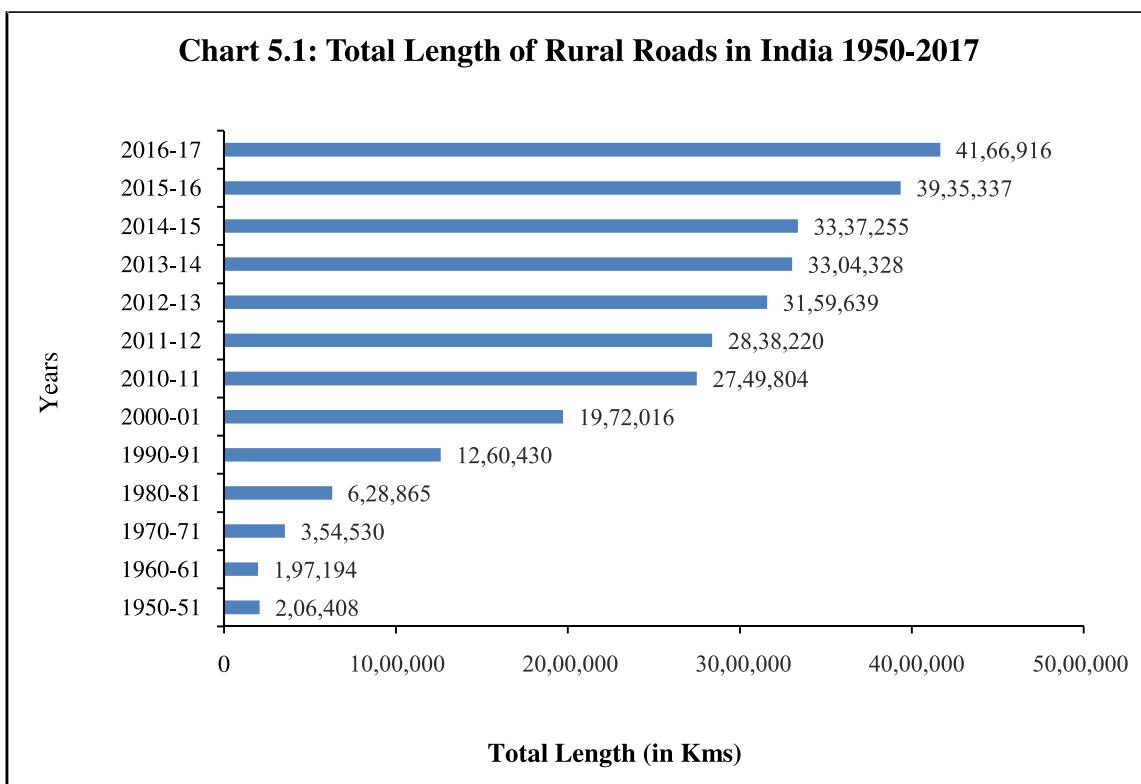
4.3 The details of State-wise and type of surface of District Roads at Annexure 4.2 reveals that 94.99 % of the total length of district roads is surfaced road. Out of the total surfaced length of 556794 km of District roads, Bituminous Top (BT) and Cement Concrete (CC) roads accounted for about 95.55% and the remaining 4.45% are Water Bound Macadam (WBM) roads.

## Section – 5

### Rural Roads in India

5.1 Rural Roads connectivity is 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.

5.2 Rural roads consist of Panchayati Raj roads, (Zilla Parishad, Panchayat Samiti, Gram Panchayat); roads of the Pradhan Mantri Gram Sadak Yojana (PMGSY) and those constructed by the State PWDs. The growth of rural roads since 1950-51 is presented in Chart 5.1



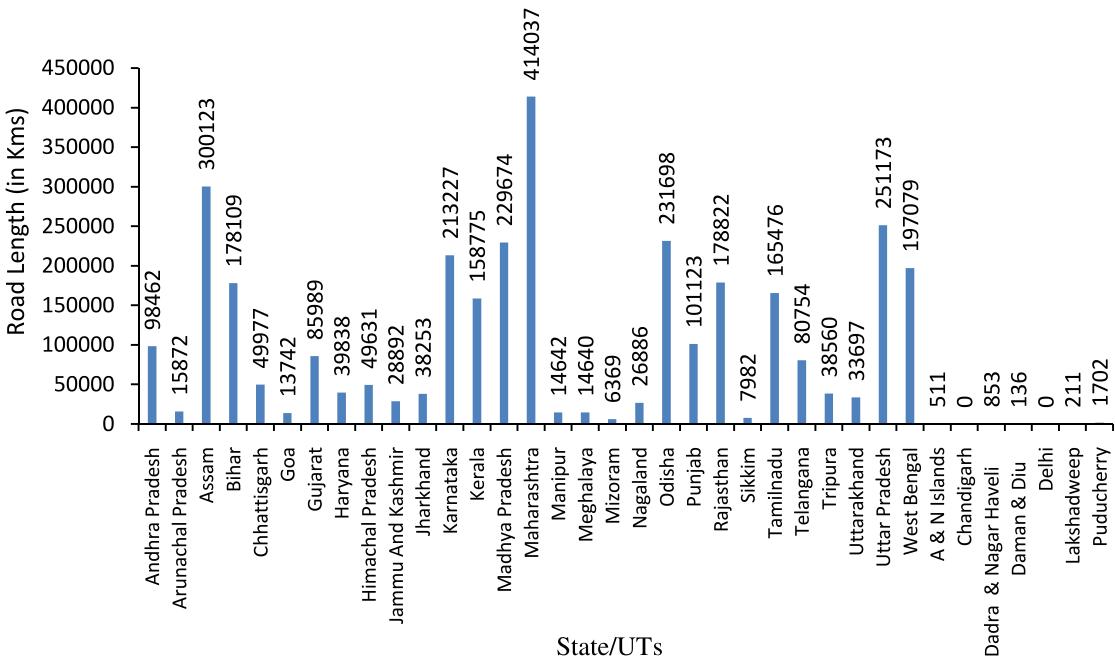
5.3 The data in Chart 5.1 reveals that the total length of Rural Roads as on 31st March, 2017, was 41,66,916 km as compared to 39,35,337 km in 2015-16 which is an increase of about 5.88 percent. It can also be seen from the data at Annexure 5.1 that in 2106-17 the percentage of surfaced rural roads to the total rural road length (excluding 9 lakh kms of JRY) was 66.23% which in absolute terms is 21,63,920 km.

5.4 The PMGSY of the Ministry of Rural Development a major scheme for providing all weather rural roads was launched in 2000 and the State/UT-wise details of PMGSY Roads

Rural Roads built by PWD/RWD and Panchayati Raj Roads are at Annexure 5.2, 5.3 and 5.4, respectively. It can be seen from data at Annexures 5.2 to 5.4 that out of a total length of 41,66,916km of rural roads 6,84,343 kms of PMGSY Roads have been reported by the National Rural Road Development Agency (NRRDA) of Ministry of Rural Development (annexure 5.2 refers), 6,46,880 km of road built by the State PWD/RWD departments (annexure 5.3 refers), 19,35,693 kms of Panchayati Raj Roads have been reported by the States/UT Panchayati Raj Departments (Annexure 5.4 refers) and the remaining 9 lakhs kms (nine lakh kms) of roads was constructed under the erstwhile Jawahar Rozgar Yojana (JRY) scheme.

5.5 The State/UT-wise break-up of Rural Roads (excluding 9 lakh kms of JRY) is at Annexure 5.1 and also depicted in Chart 5.2. The data in Annexure 5.1 reveals that Maharashtra accounted for the largest share (12.67%) in 2016-17 followed by Assam (9.19%), Uttar Pradesh (7.69%), Odisha (7.09%), and Madhya Pradesh (7.03%). These five States account for about 43.767% of the total length of Rural Roads.

**Chart 5.2: State/UT-wise Length of Rural Roads (in Kms) as on 31.03.2017**

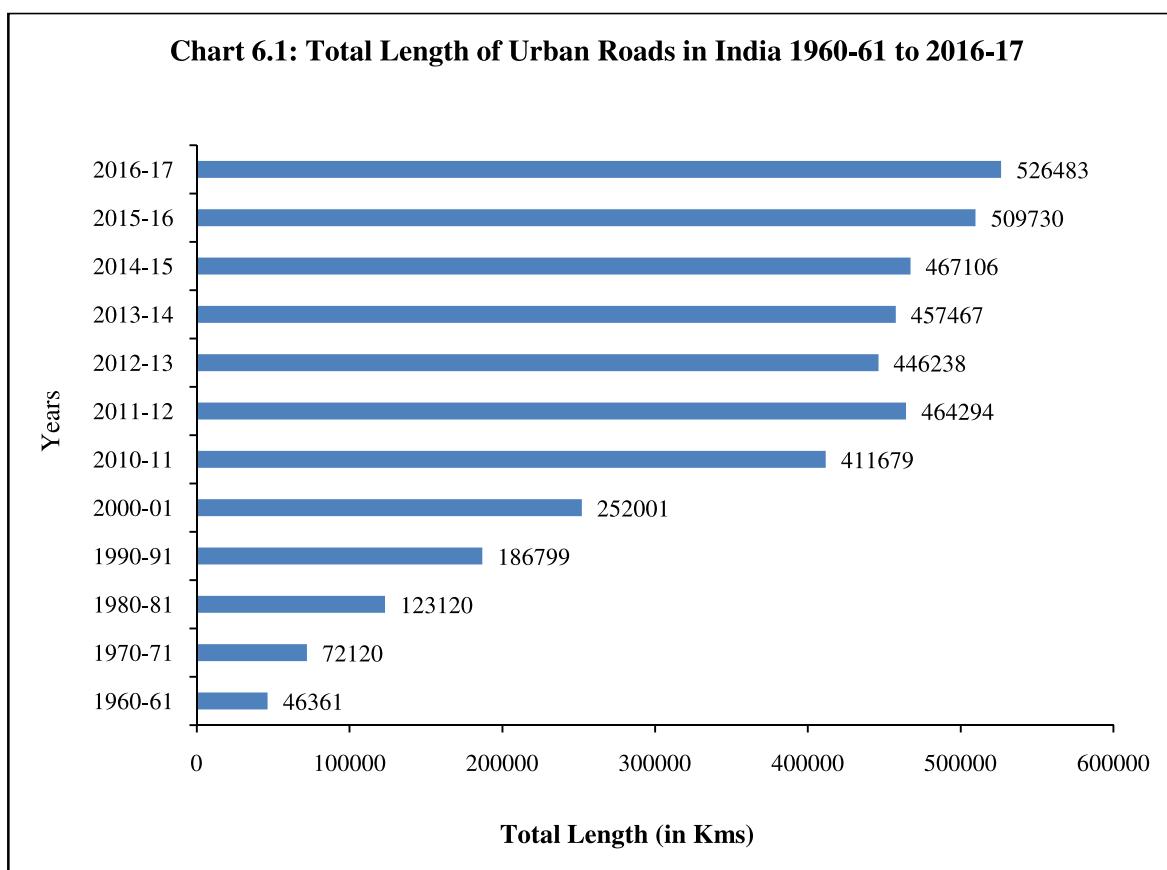


## Section – 6

### Urban Roads in India

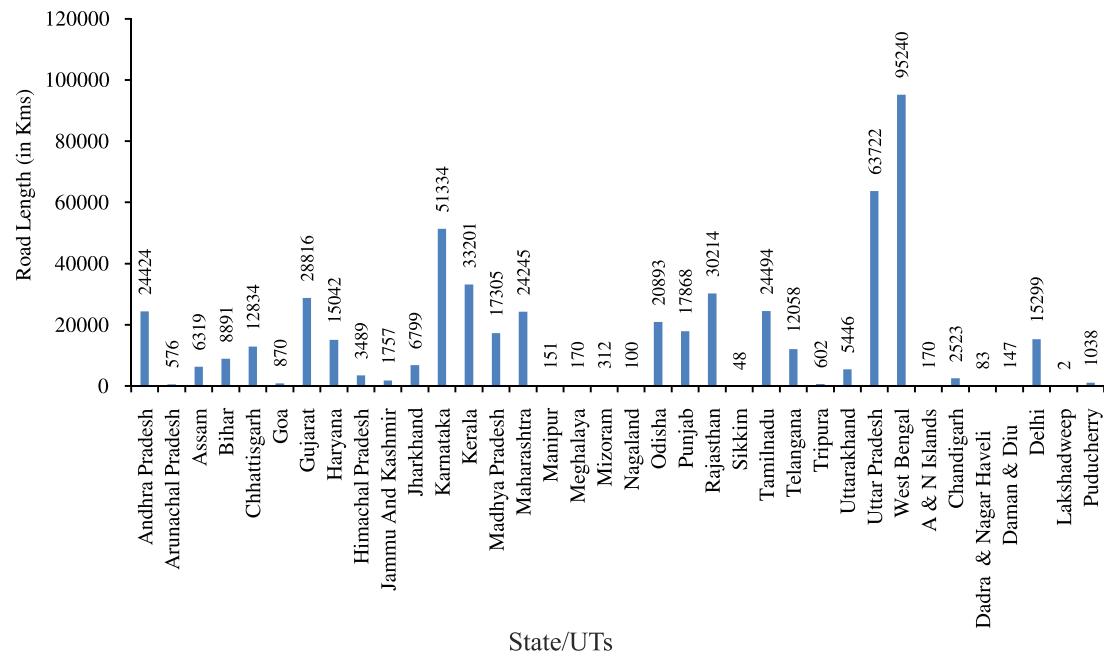
6.1 Urban Roads consist of Municipal Roads under Urban Development Departments of States and UTs; roads in Railway Zones; MES roads constructed by Military Engineering Services (MES) and Major and Minor Port Roads. The total length of urban roads increased from 509730 Kms on 31.03.2016 to 526483 Kms on 31.03.2017. Among the category of roads the share of Urban roads in the total road length has decreased from 9.10% 2015-2016 to 8.93% in 2016-17.

6.2 The details of length of urban roads since 1960-61 to 2016-17 is shown in Chart 6.1.



6.3 The data in Chart 6.1 reveals that the total length of urban roads increased from 509730 kms as on 31.03.2016 to 526483 kms. on 31.03.2017, which is an increase of about 3.29 %. The State/UT-wise details of urban roads is given in Annexure 6.1 and also presented in Chart 6.2.

**Chart 6.2: State/UT-wise Length of Urban Roads (in Kms) as on 31.03.2017**



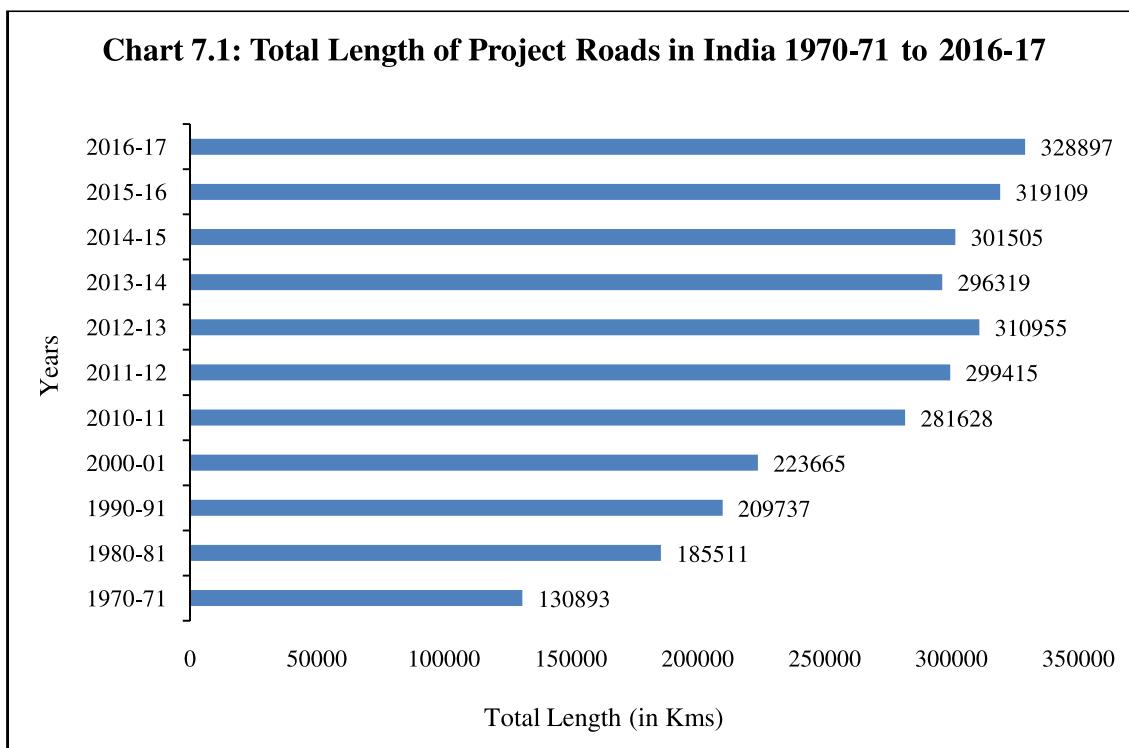
6.4 The State/UT-wise break-up of Urban Roads (Annexure 6.1 & Chart 6.2 refers) reveals that West Bengal accounted for the largest share (18.09%) in total length of Urban Roads as on 31st March 2017, followed by U.P. (12.10%), Karnataka (9.75%), Kerala (6.31%) and Rajasthan (5.74%). These five States accounted for about 51.99% of the total length of Urban Roads.

6.5 The details of different categories of roads considered under Urban road is given at Annexures 6.2 to Annexures 6.6. The details reveal that within the category of Urban Roads as on 31.03.2017, municipal roads accounted for the highest share of 93.70%, followed by MES roads (3.52%), railway roads (2.56%). Major and Minor port roads taken together account for a share of only 0.22%.

## Section – 7

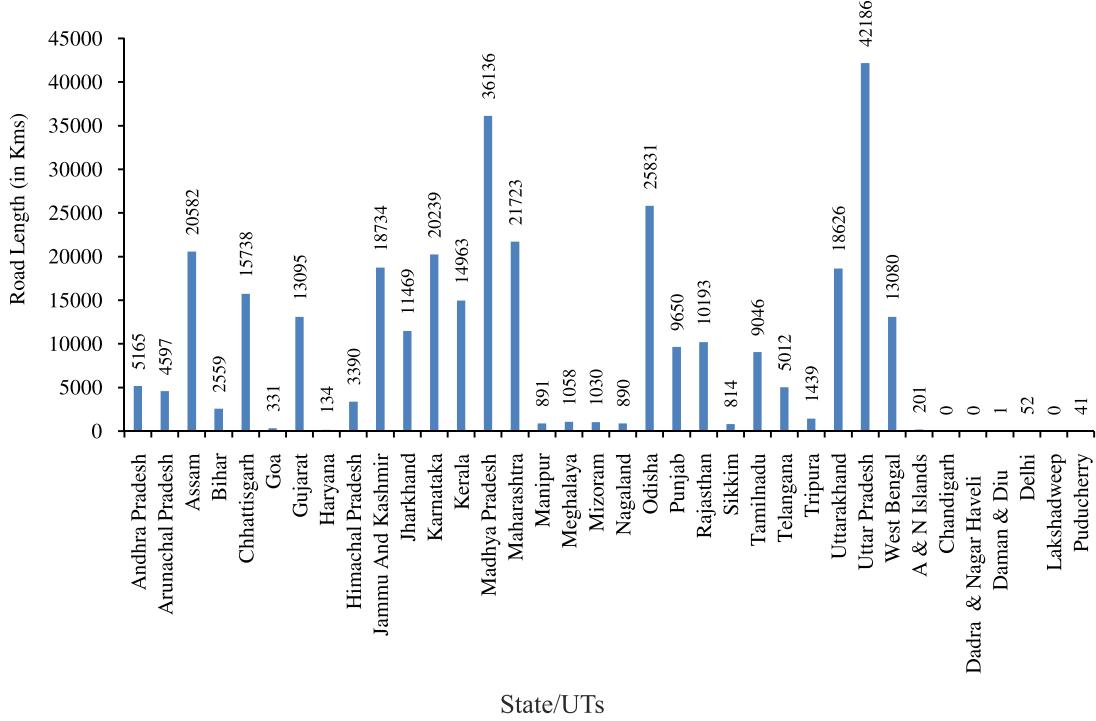
### Project Roads in India

7.1 Project Roads largely include roads built/coming under the purview of Central and State Government agencies and departments. These 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). The growth in the length of Project Roads since 1971 is depicted in Chart 7.1.



7.2 The data in chart 7.1 reveals that the total length of Project Roads increased from 319109 km in as on 31.3.2016 to 328897 kms as on 31.3.2017, which is an increase of about 3.09 %. The State/UT –wise details of Urban Roads are given at Annexure 7.1 and in Chart 7.2

**Chart 7.2: State/UT-wise Length of Project Roads (in Kms) as on 31.03.2017**



7.3 The State/UT-wise break-up of Project Roads in Annexure 7.1 and Chart 7.2 reveals that Uttar Pradesh accounted for the largest share (12.83%) in total length of Project Roads as on 31st March 2017, followed by Madhya Pradesh (10.99 %), Odisha (7.85%), Maharashtra (6.60%) and Karnataka (6.15%). These five States together account for about 44.53% of the total length of Project Roads as on 31.03.2017.

7.4 The details at Annexure 7.2 to 7.8 and the summary in Annexure 1.1 reveals that out of the total length of 3288966 km of Project Roads, as on 31st March, 2017 Forest Roads (1,74,825 km ) approximately account for about 53.16% followed by Irrigation Department Roads with a share of about 31.76% and BRO Roads having a share of about 5.98 %. The remaining 9 .10% 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.

7.5 Since forest roads run through reserved forest areas and wild life sanctuaries, only a small share (30.04%) are surfaced. Of the surfaced length of forest roads of 53072 km, the larger share is of Water Bound Macadam roads (69.39%) and the remaining (30.97%) are B.T./C.C. roads.

## Section – 8

### International Comparison of Road Network

8.1 The chapter on International comparison of Road network is based on data published in respect of 196 countries in the International Road Federation (IRF) Geneva publication titled, World Road Statistics for 2018. The data published in this document pertains to the year 2016 with small variations and positions India globally viz-a -viz other countries in respect of parameters such as total road length, road length per 1000 people, length and share of National Highways, share of paved roads, motorways, road density etc.

8.2 The major road related indicators, arranged in descending order of total road length across 15 top countries is given in Table 8.1 below:

**Table 8.1: Major Road Indicators across Select Countries**

Name of the Country	Total Road length		Population 2016	Roads (in KM) per '000 people	National Highways		Share of Paved road (%)	Motorways <sup>1</sup>		Road Density
	Road length in KM	World Ranking			Road length in KM	% share in total road length		Road length in KM	% share in total road length	
1	2	3	4	5	6	7	8	9	10	11
United States	6645709	1	323405935	20.55	29599	0.45	66.02	77002	1.16	0.68
India **	5897671	2	1210193422 <sup>\$</sup>	4.87	114158	1.94	63.24	NA(*)	NA(*)	1.8
China	4696263	3	1378655000	3.41	99152	2.11	75.9	130973	2.79	0.49
Brazil	1512371	4	207652865	7.28	76515	5.06	17.3	NA	NA	0.18
Russia	1498727	5	144342396	10.38	51959	3.47	70.3	1105	0.07	0.09
Canada	1126000	6	36264604	31.05	38049	3.38	39.9	NA	NA	0.11
France	1088089	7	66859768	16.27	8219	0.76	100	12356	1.14	1.98
Australia	873561	8	24210809	36.08	181688	20.8	NA	51540	5.9	0.11
Spain	666536	9	46484062	14.34	23856	3.58	NA	3039	0.46	1.32
Germany	642970	10	82348669	7.81	38068	5.92	NA	12996	2.02	1.8
Indonesia	537838	11	261115456	2.06	47017	8.74	60.7	NA	NA	0.28
Thailand	506538	12	68863514	7.36	70077	13.83	NA	208	0.04	0.99
United Kingdom	422097	13	65595565	6.43	48902	11.59	100	3764	0.89	1.73
Poland	420236	14	37970087	11.07	17751	4.22	70	1637	0.39	1.34
Mexico	393451	15	127540423	3.08	40681	10.34	41.8	9796	2.49	0.2

Source: IRF, World Road Statistics, published by International Road Federation Geneva

(\*): In India, as per information available in MORTH, 236.12 kms of Expressways have already been completed, another 73.33 kms of expressways are at different stages of completion and another 3264.34 kms are at different stages of planning.

(\*\*): Figures for India updated to 31.3.2017 as against 31.3.2016 given in WRS 2018.

\$: pertains to the year 2011.

<sup>1</sup>Motorway is a road specially designed and built for motor traffic, is specially sign-posted as a motorway, is reserved for specific categories of road motor vehicles and has no crossing at the same level with any road, railway or tramway track, or footpath

8.3 It will be observed that India, with a total road length of 58.97 lakhs ranks second out of 196 countries reported in the World Road Statistics, after US .

8.4 In terms of road length per thousand persons, India is positioned 96th in the world, with a road to per thousand persons ratio of 4.87 as against Australia which leads at 36.08 km per thousand people, followed by Canada at 31.05 km per thousand people and United States at 20.55 km per thousand population.

8.5 In terms of length of National Highways, India with a length of 1,14158 kms and share of 1.94% in total road length ranks 2nd after Australia with a length of 1,81, 688 kms and share of 20.8% in total road length and is followed by China with a length of 99,152 kms and share of 2.11% at the 3rd position.

8.6 The paved/surfaced road length in India was 63.24 per cent of the total road length which is much lower when compared with advanced countries like that of France (100 %), United Kingdom (100 %), China (75.9%) etc.

8.7 India's road density at 1.80 km/km<sup>2</sup> is equivalent to Germany (1.80 km/km<sup>2</sup>), higher than United Kingdom at (1.73km/km<sup>2</sup>) and China (0.49 km/km<sup>2</sup>), USA (0.68 km/km<sup>2</sup>) but is lesser than that compared to France (1.98 km/km<sup>2</sup>) which is geographically much smaller.

## Section – 9

### Initiatives taken by Ministry of Road Transport and Highways for improving National Highways in the country

9.1 The Ministry of Road Transport and Highways is primarily responsible for development and maintenance of National Highways and discharges this responsibility through the National Highways Authority of India ltd. (NHAI), the National Highways and Infrastructure Development Corporation Ltd. (NHIDCL), State PWDs and Border Roads Organisation on an agency basis. While projects involving widening to 4 lane or more and Expressways are handled by NHAI, NHIDCL handles projects in the North East, Hill States & Andaman & Nicobar Islands, State PWDs/ State road Construction Departments handle development of 2 lane NH configurations while BRO handles construction of NH in the Border areas.

9.2. The Ministry has been making constant efforts to expand and upgrade the network of National Highways in the country. It implements several Central sector schemes such as the Special Accelerated Development Programme in the North East (SARDP-NE) including Arunachal Package, Development of the Left Wing Extremism, the Vijaywada Ranchi corridor etc. **Bharatmala Pariyojna** is a new umbrella programme for the Highway sector, approved by the CCEA in October 2017 which aims to bridge the critical infrastructure gaps like development of Ring Roads, bypasses, elevated corridors etc in areas of intense economic activity, places of religious and tourist interest, border areas, backward and tribal, coastal areas and trade routes. The Phase I of the **Bharatmala Pariyojna** (2017-2022) envisages construction of 34,800 kms at a cost of Rs 535000 crores.

9.3. The year-wise details of Award of NHs/ Road projects and construction of NHs/ roads during 2014-15 to 2017-18 are given below:-

**Table 9.1**

(Length in km)				
Information regarding the period 2014 -15 to 2017-18				
	2014–15	2015–16	2016–17	2017-18
Award of NHs/ Road projects (km)	7,972	10,098	15,948	17055
Construction of NHs/ Roads (km)	4,410	6,061	8,231	9,829
Road construction in km per day	12	17	23	27

9.4. To begin with the following constraints were inter-alia faced in the expansion and up gradation of National Highways:

- Availability of funds for financing large projects
- Lengthy processes in acquisition of land and payment of compensation to the beneficiaries
- Environmental concerns
- Time and Cost overruns due to delays in project implementation due to multi stakeholder issues
- Procedural delays
- Lesser Traffic growth than expected, increasing the riskiness of the projects resulting in stalled and languishing projects
- Shortfall in funds for maintenance

9.5. The Ministry of Road Transport and Highways accordingly put in place a pro-active sector policy for the construction of Highways, leveraging both public and private funding; streamlining processes, introducing innovative financing measures; enhanced use of e-technology; continuous and systematic monitoring for streamlining the construction of Highways. Amongst the key initiatives taken are :

9.5.1 Process streamlining: MoRTH is now empowered to decide on mode of delivery of projects –PPP/EPC. It is also authorized to appraise projects up to Rs. 1,000 crores – both for PPP and EPC mode in place of earlier Rs. 500 crores. Under Bharat Mala Pariyojna, further appraisal and approval limits have been defined. All PPP projects (BOT) projects are to be appraised and approved by NHAI Board and all BOT(Annuity) / Ham projects with project cost upto 2000 crore are to be appraised by an SFC headed by Secretary and approved by Minister, MORTH. Other BOT Annuity projects would be appraised by Secretary, DEA and approved by CCEA.

9.5.2 Enhanced inter-Ministerial coordination: In order to overcome multi stakeholder issues and enhance inter-ministerial coordination, an Infrastructure Group has been created under the Ministry headed by the Hon'ble Minister (RT&H) to resolve multi-stakeholder issues.

9.5.3 Revival of languishing projectshas been undertaken through

- (i) 100% equity divestment two years from start of operations to enable developers to take out equity and reinvest the same in the sector,
- (ii) Premium deferment allowing rescheduling of premium committed by concessionaires at the bidding stage

- (iii) Extension of concession period for languishing to the extent of delay
- (iv) one time fund infusion by NHAI in languishing projects which are 50% complete.

9.5.4 Introduction of Innovative project Financing models through risk rebalancing as in the case of Hybrid Annuity Model (HAM) wherein Government starts by providing 40% construction support to the private developer with the balance 60% being paid by the Government to the developer as annuity payment over the operations period with interest on the outstanding amount. Then there is the Monetisation of Assets through Toll – Operate – Transfer (TOT) Model under which CCEA allowed monetisation of NH stretches where the right of collection of Toll fees for a public funded project is assigned to a concessionaire for a predetermined period against upfront payment of a lumpsum.

9.5.5 Streamlining of the Land Acquisition process through the Standard operating Procedure being announced under the Grand Challenge mechanism for Bharatmala Pariyojna. The Ministry has also developed a online portal (Bhoomi Rashi) for processing land acquisition notifications and payment of compensation to the rightful owner of land. A Land Acquisition Manual has been created and shared with all field offices. In line with the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement (RFCLARR) Act 2013 for LA of NH projects, guidelines have also been issued.

9.5.6 Further, explicit guidelines have issued in respect of standards for Road construction in hill areas to obviate prospects of hill-slope destabilization. To ameliorate environmental concerns, guidelines have also been issued that to the extent feasible, land for widening of an existing road should be acquired on one side so that tree-felling and utility shifting on the other side is avoided. To do away with sub optimal alignments, instructions have issued for using the concept of “as the crow flies” to design alignments so as to reduce the distance between two connected points the extent possible.

9.6. Details of Central Road Sector Outlay at the RE stage and Expenditure incurred are given in Table 9.2. It may be noted that the total budgetary support provided to MoRTH, Market Borrowings by NHAI and Expenditure incurred has been increasing consistently over the years with expenditure varying between 94% to 98% of the Budget at the RE stage in the last three years. Private sector Investments have slowed down somewhat due to difficulties in the market conditions i.e availability of finance from Banks in the face of growing NPAs, uncertainty in returns on account of projected traffic, investors preferring short term investment periods as against roads requiring long term financing etc .

9.7 The Expenditure (Actual) incurred in the Development and Maintenance of National

Highways by MoRTH by source of financing in the last 6 years is given in table 9.3 shows that Market Borrowing, Central Road Fund (CRF)Cess, and Permanent Bridge Fee Fund (PBFF) constitute important sources of financing for the maintenance and construction of Highways.

9.8 Development and maintenance of NHs of 2- lane and below are primarily assigned to State Governments viz. State PWDs for which Ministry provide funds from its budget to the respective States. Table 9.4 provides State-wise allocations and expenditure made by States for the period 2013-14to 2017-18 and shows an increasing trend in the total allocations and expenditure made to States for the construction of NH with the exception of the year 2017-18.

**Table 9.2**  
**Central Road Sector Outlay (at RE stage) and Expenditure (At Current Price) for**  
**the period 2014-15 to 2017-18**

Sl. No.	Scheme	Amount in Rs. crore							
		2014-15		2015-16		2016-17		2017-18	
RE	Expd	RE	Expd	RE	Expd	RE	Expd	RE	Expd
<b>Part A-Major Development Schemes</b>									
1	EAP- (a) Externally Aided (RW)	175.00	138.93	250.00	216.42	290.00	289.12	1,213.00	1,010.46
	EAP- (b) Counterpart Fund (RW)	101.00	101.00	550.00	547.00	820.00	819.76	613.00	548.31
	<b>Total EAP</b>	<b>276.00</b>	<b>239.93</b>	<b>800.00</b>	<b>763.42</b>	<b>1,110.00</b>	<b>1,108.88</b>	<b>1,826.00</b>	<b>1,558.77</b>
2	NH (O)	4,881.59	4,835.99	6,491.06	6,335.44	19,860.00	19,326.46	18,049.31	18,034.64
3	Works under BRDB incl. Strategic Roads under BRDB	292.00	268.79	0.00	0.00	0.00	0.00		
4	Other Charges & IT	7.00	3.71	6.50	5.42	8.00	6.93	7.00	4.74
5	R&D & Training and Quality Assurance	7.00	4.65	68.20	40.90	83.00	16.79	78.32	8.05
6	Charged Expd.	6.00	4.93	10.00	6.92	10.00	8.22	10.00	5.54
7	NHAI (Investment) (Cess)	9,565.81	9,565.42	21,020.09	21,017.77	7,476.60	7,410.47	15,429.45	15,429.45
8	Remittance of toll receipts (NHDP + non-NHDP)	5,448.00	5,448.00	6,500.00	6,500.00	7,500.00	7,500.00	8,462.14	8,462.14
9	E&I for States from CRF	150.00	93.11	355.35	267.09	805.00	746.35	759.20	677.56
10	<b>Special Packages</b>								
(i)	SARDP-NE	3,000.00	2,843.33	4,900.00	4,845.88	4,520.00	4,464.71	5,265.00	5,237.77
(ii)	LWE (including TSP) incl. Vijayawada-Ranchi Road	1,174.00	1,164.59	1,121.00	996.11	760.00	739.27	1,050.00	901.86
(A)	<b>Sub Total- Major schemes</b>	<b>24,807.40</b>	<b>24,472.45</b>	<b>41,272.20</b>	<b>40,778.95</b>	<b>42,132.60</b>	<b>41,328.08</b>	<b>50,936.42</b>	<b>50,320.52</b>
<b>Part B- M&amp;R, CRF(State Roads), Transport, Sectt.</b>									
1	Maintenance & Repairs (M&R) incl. Swachhata Activities	2,585.16	2,534.24	2,698.40	2,527.99	2,845.23	2,502.99	2,966.75	2,654.78
2	Central Road Fund(CRF)	2,646.81	2,094.78	2,880.90	2,398.10	7,175.00	5,069.82	<b>6,764.48</b>	6,367.11
3	Permanent Bridge Fee Fund(PBFF)	100.00	37.98	50.00	48.29	100.00	72.29	37.86	21.42
4	NH Tribunals, NHs Administration, PIARC	0.56	0.30	1.57	0.00	3.57	0.00	3.57	0.22
5	Transport Wing	180.50	123.31	150.00	133.45	143.50	127.23	<b>171.00</b>	144.36
6	Secretariat Expenses	77.61	75.39	83.74	80.64	103.03	100.04	<b>119.92</b>	111.08
(B)	<b>Sub Total- Part B</b>	<b>5,590.64</b>	<b>4,866.00</b>	<b>5,864.61</b>	<b>5,188.47</b>	<b>10,370.33</b>	<b>7,872.37</b>	<b>10,063.58</b>	<b>9,298.97</b>
	<b>Total (Gross Budgetary Support-MoRTH)</b>	<b>30,398.04</b>	<b>29,338.45</b>	<b>47,136.81</b>	<b>45,967.42</b>	<b>52,502.93</b>	<b>49,200.45</b>	<b>61,000.00</b>	<b>59,619.49</b>
(C)	IEBR / Borrowings by NHAI	7,611.11	3,343.40	42,694.50	23,281.00	59,279.00	33,118.00	59,279.00	50,533.00
(D)	<b>Grand Total (Budget)</b>	<b>38,009.15</b>	<b>32,681.85</b>	<b>89,831.31</b>	<b>69,248.42</b>	<b>1,11,781.93</b>	<b>82,318.45</b>	<b>1,20,279.00</b>	<b>1,10,152.49</b>
(E)	Total Private Sector Investments		19,232.44		29,770.00	26,850.00	16,028.64	32,400.00	16,500.64
(F)	<b>Grand Total</b>	<b>38,009.15</b>	<b>51,914.29</b>	<b>89,831.31</b>	<b>99,018.42</b>	<b>1,38,631.93</b>	<b>98,347.09</b>	<b>1,52,679.00</b>	<b>1,26,653.13</b>

Source: Planning Division, MoRTH

**Table 9.3**  
**Expenditure(Actual ) incurred in the Development and Maintenance of National Highways by MORTH by Source of Financing in the last 6 years**

Year	CRF Cess	Additional GBS	GBS-NER*	Toll		Market Borrowing	Pvt. Investment	Total	Amount in Rs crore
				TOT	PBFF				
2012-13	6,003.00	9,080.03	1,825.69	-	1,882.95	2,902.00	20,305.00	<b>41,998.67</b>	
2013-14	6,857.45	7,746.98	3,009.27	-	4,829.81	7,942.00	22,515.00	<b>52,900.51</b>	
2014-15	13,944.04	4,678.51	2,843.33	-	5,485.98	3,343.40	19,232.00	<b>49,527.26</b>	
2015-16	29,879.06	2,714.91	3,945.88	-	6,548.29	23,281.00	29,770.00	<b>96,139.14</b>	
2016-17	29,049.08	2,070.93	4,464.71	-	7,572.29	33,118.00	16,029.00	<b>92,304.01</b>	
2017-18	35,910.91	2,687.14	5,237.77	-	8,483.56	50,533.00	16,500.00	<b>119,352.38</b>	

Source: Planning Division, MoRTH

TOT: Toll Operate Transfer

PBFF: Permanent Bridge Fee Fund

\* exclusively under SARDP-NE, apart from this, NH works in NER is also taken up under NH(O) for which financing is from CRF cess and additional GBS.

**Table 9.4**  
**The State/UT-wise details of Fund Allocation/Utilized for Development of NHs)**

Sl. No.	States/UTs/ Schemes/Agency	Allocation					Expenditure					Amount in Rs. crore
		2013-14	2014-15	2015-16	2016-17	2017-18	2013-14	2014-15	2015-16	2016-17	2017-18	
1	Andhra Pradesh	188.04	221.45	1,039.42	2,010.31	1,781.18	187.62	221.45	1,000.43	2,014.50	1,780.70	
2	Arunachal Pradesh	1.09	0.50	2.40	100.00	62.05	1.09	0.50	1.83	90.66	62.05	
3	Assam	205.10	141.76	78.79	177.44	308.05	199.41	141.76	78.09	137.80	307.75	
4	Bihar	304.57	276.65	706.92	1,362.64	1,689.90	271.33	276.65	707.86	1,331.61	1,523.88	
5	Chhattisgarh	43.35	71.25	359.94	1,553.30	1,107.93	25.29	71.25	339.80	1,495.68	1,071.58	
6	Goa	20.66	17.72	120.00	400.00	527.48	20.66	17.72	119.98	434.51	527.48	
7	Gujarat	146.54	206.96	228.60	251.87	166.08	140.91	206.96	225.77	213.41	163.29	
8	Haryana	53.51	60.48	90.00	150.00	105.17	53.51	60.48	89.85	161.27	105.17	
9	Himachal Pradesh	100.44	134.57	140.00	210.95	307.14	99.74	134.57	139.96	182.14	305.69	
10	Jammu & Kashmir	0.00	0.00	25.00	40.06	35.44	0.00	0.00	22.86	23.16	35.44	
11	Jharkhand	70.32	63.83	35.00	200.00	260.88	70.32	63.83	38.08	212.50	260.88	
12	Karnataka	165.85	269.72	633.43	783.52	1,240.99	164.55	269.72	639.55	871.96	1,202.70	
13	Kerala	272.73	67.18	132.24	259.89	171.74	258.84	67.18	137.65	237.80	171.74	
14	Madhya Pradesh	155.01	239.23	937.76	1,760.00	854.79	150.67	239.23	928.29	1,558.90	854.79	
15	Maharashtra	177.23	190.04	431.20	1,371.92	2,966.03	177.01	190.04	423.28	1,154.00	2,964.15	
16	Manipur	54.72	32.60	40.00	25.25	75.85	54.39	32.60	40.00	18.65	75.47	
17	Meghalaya	35.70	43.30	15.00	41.27	30.22	33.61	43.30	15.00	28.44	28.28	
18	Mizoram	22.11	39.53	35.00	40.00	41.00	20.57	39.53	28.50	46.13	41.00	
19	Nagaland	44.65	46.20	50.00	50.00	38.27	44.65	46.20	46.27	38.84	38.27	
20	Odisha	233.22	322.99	591.44	925.55	708.40	231.51	322.99	592.24	951.35	717.08	
21	Punjab	113.78	2,328.04	1,852.26	2,740.50	746.02	113.24	2,328.04	1,855.24	2,702.48	745.80	
22	Rajasthan	215.50	107.16	849.95	964.83	888.27	213.85	107.16	849.56	1,012.99	886.08	
23	Sikkim	0.00	0.00	0.00	0.00	5.09	0.00	0.00	0.00	0.00	5.09	
24	Tamil Nadu	210.24	167.13	337.02	575.00	664.48	210.24	167.13	336.47	640.11	664.48	
25	Telangana	0.00	210.79	661.00	380.00	409.93	0.00	210.79	657.10	358.43	409.93	
26	Tripura	0.00	0.00	5.00	5.00	61.00	0.00	0.00	0.00	2.38	61.00	
27	Uttar Pradesh	289.54	493.81	1,530.34	1,849.02	1,110.79	284.35	493.81	1,527.74	1,820.85	1,106.96	
28	Uttarakhand	87.84	169.51	245.92	332.62	980.67	85.90	169.51	245.69	314.48	980.14	
29	West Bengal	134.10	283.61	808.95	1,333.62	1,229.89	134.10	283.61	811.98	1,223.19	1,184.69	
30	Andaman & Nicobar Islands	0.00	14.61	2.00	0.13	0.00	0.00	14.61	1.53	0.13	0.00	
31	Chandigarh	0.00	4.95	1.00	2.00	5.30	0.00	4.95	0.00	0.69	5.30	
32	Delhi	0.00	0.02	1.00	1.00	36.00	0.00	0.02	0.00	0.62	23.01	
33	Puducherry	0.00	12.73	20.00	20.00	13.63	0.00	12.73	18.10	14.28	13.63	
A	<b>Sub Total (Sr. 1 to 33)</b>	<b>3,345.84</b>	<b>6,238.32</b>	<b>12,006.58</b>	<b>19,917.68</b>	<b>18,629.66</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>	
34	Other projects under NH(O)*	341.42	761.17	515.00	781.38	214.00	341.30	715.68	445.55	779.72	211.92	
35	National Highways Authority of India (NHAI)- Cess*	6,857.45	6,885.89	15,420.00	2,326.50	12,429.45	6,857.45	6,885.89	15,420.00	2,326.50	12,429.45	
36	NHAI- Toll	4,770.00	5,448.00	6,500.00	7,500.00	8,462.14	4,770.00	5,448.00	6,500.00	7,500.00	8,462.14	
37	NHAI- NH(O)	944.84	600.00	370.27	5,389.02	3,900.00	944.82	600.00	370.27	5,389.02	3,900.00	
38	National Highways & Infrastructure Development Corporation Ltd. (NHIDCL) under NH(O)*	-	-	1.15	72.20	296.00	-	-	1.15	72.20	296.00	
39	Border Roads Organization (BRO)*	434.00	292.00	0.00	0.00	0.00	414.25	268.79	0.00	0.00	0.00	
40	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	3,009.27	2,843.33	4,803.07	4,464.71	4,837.77	

**Table 9.4**  
**The State/UT-wise details of Fund Allocation/Utilized for Development of NHs)**

contd...

Sl. No .	States/UTs/ Schemes/Agency	Allocation					Expenditure					Amount in Rs. crore
		2013-14	2014-15	2015-16	2016-17	2017-18	2013-14	2014-15	2015-16	2016-17	2017-18	
41	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	760.00	1,050.00	1,021.02	1,164.59	996.11	739.27	901.86	
42	Externally Aided Projects - Head Quarters#, NHAI, NHIDCL	42.50	276.00	45.83	59.38	316.00	0.00	239.93	9.25	56.72	283.41	
<b>B</b>	<b>Sub Total (Sr. 34 to 42)</b>	<b>17,419.21</b>	<b>18,437.06</b>	<b>28,873.25</b>	<b>21,408.48</b>	<b>31,532.59</b>	<b>17,358.11</b>	<b>18,166.21</b>	<b>28,545.40</b>	<b>21,328.14</b>	<b>31,322.55</b>	
	<b>Total (A+B)</b>	<b>20,765.05</b>	<b>24,675.38</b>	<b>40,879.83</b>	<b>41,326.16</b>	<b>50,162.25</b>	<b>20,605.47</b>	<b>24,404.53</b>	<b>40,464.10</b>	<b>40,622.08</b>	<b>49,646.05</b>	
43	IEBR / Borrowings by NHAI	8,000.00	7,611.11	42,694.50	59,279.00	59,279.00	7,942.13	3,343.40	23,281.00	33,118.00	50,533.00	

Source: Planning Division MoRTH

\*- State/UT wise allocations are not made.

#- State wise allocated funds under EAP have been added in the States

# **ANNEXURES**

# **Section - 1**

**OVERVIEW OF THE COMPOSITION OF ROADS,  
STATEWISE DISTRIBUTION AND TRENDS**

**Total and Surfaced Road Length By Categories in India as on 31.03.2017**

(in km)

<b>Sl. No.</b>	<b>Category</b>	<b>Sub Category</b>	<b>Category wise Road length (% share of Total Road length)</b>	<b>Category wise Surfaced road length (% age of col 4)</b>
<b>Col 1</b>	<b>Col 2</b>	<b>Col 3</b>	<b>Col 4</b>	<b>Col 5</b>
1	<b>National Highways</b>		<b>114158 (1.94)</b>	<b>114158(100)</b>
2	<b>State Highways</b>		<b>175036 (2.97)</b>	<b>169096(96.6)</b>
3	<b>District roads</b>		<b>586181 (9.94)</b>	<b>556794(95.0)</b>
4	<b>Rural Roads*</b>		<b>3266916 (55.39)</b>	<b>2163920 (66.2)</b>
		PMGSY Roads	684343	594927(86.9)
		PWD/RWD Roads	646880	547391 (84.6)
		Panchayati Raj Roads	1935693	1021602(52.8)
5	<b>Urban Roads</b>		<b>526483 (9.27)</b>	<b>406867 (77.3)</b>
		Municipal Roads	493328	375315 (76.1)
		MES Roads	18556	18002 (97.0)
		Major Port Roads	781	779 (99.8)
		Minor Port Roads	361	340 (94.2)
		Railway Roads	13457	12431 (92.4)
6	<b>Project Roads</b>		<b>328897 (5.58)</b>	<b>135743 (41.3)</b>
		Forest Department Roads	174825	53072(30.4)
		BRO Roads	19672	17551 (89.2)
		Coal Mine Roads	4695	4404 (93.8)
		Electricity Department Roads	7505	6979 (93.0)
		Irrigation Department Roads	104462	39779 (38.1)
		Sugarcane Authorities Roads	14899	11269 (75.6)
		SAIL & NMDC Roads	2839	2690(94.8)
7	<b>Total* (Excluding JRY Roads)</b>		<b>4997671</b>	<b>3546579 (71.0)</b>
8	<b>Total** (Including JRY Roads)</b>		<b>5897671 (100)</b>	<b>3729781(63.2)</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) from 1990-1999

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

**Road Length By Categories and By type of Surface in India  
as on 31.03.2017**

Sl. No.	Category	Sub Category	Total (6+7)	Surfaced			(in km) Un- surfaced
				WBM/WMM	BT/CC	Total (4+5)	
1	2	3	4	5	6	7	
1	National Highways	114158	0	114158	114158	0	
2	State Highways	175036	2628	166468	169096	5940	
3	District roads	586181	24774	532020	556794	29387	
4	Rural Roads* (excluding JRY)	3266916	509023	1654897	2163920	1102996	
	PMGSY Roads	684343	90112	504815	594927	89416	
	PWD/RWD Roads	646880	59389	488003	547391	99488	
	Panchayati Raj Roads	1935693	359523	662079	1021602	914092	
5	Urban Roads	526483	41093	365774	406867	119616	
	Municipal Roads	493328	39227	336088	375315	118013	
	MES Roads	18556	278	17724	18002	554	
	Major Port Roads	781	58	720	779	2	
	Minor Port Roads	361	24	316	340	21	
	Railway Roads	13457	1506	10925	12431	1026	
6	Project Roads	328897	57539	78204	135743	193153	
	Forest Department Roads	174825	36824	16248	53072	121753	
	BRO Roads	19672	736	16814	17551	2121	
	Coal Mine Roads	4695	588	3816	4404	291	
	Electricity Department Roads	7505	1682	5297	6979	525	
	Irrigation Department Roads	104462	17610	22169	39779	64684	
	Sugarcane Authorities Roads	14899	5	11264	11269	3630	
	SAIL & NMDC Roads	2839	94	2596	2690	149	
<b>Total* (Excluding JRY Roads)</b>		<b>4997671</b>	<b>635059</b>	<b>2911520</b>	<b>3546579</b>	<b>1451092</b>	
<b>Total** (Including JRY Roads)</b>		<b>5897671</b>	<b>818261</b>	<b>2911520</b>	<b>3729781</b>	<b>2167890</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) from 1990-1999.

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

**State/UT-wise, Total & Surfaced Length of Roads in India (excluding JRY Roads) as on 31.03.2017**

(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	<b>Andhra Pradesh</b>	176474	122848
2	<b>Arunachal Pradesh</b>	37025	21763
3	<b>Assam</b>	337777	63947
4	<b>Bihar</b>	209549	117573
5	<b>Chhattisgarh</b>	97845	80061
6	<b>Goa</b>	16659	11452
7	<b>Gujarat</b>	180927	163172
8	<b>Haryana</b>	81386	77127
9	<b>Himachal Pradesh</b>	62812	43209
10	<b>Jammu And Kashmir</b>	63386	40133
11	<b>Jharkhand</b>	69871	55564
12	<b>Karnataka</b>	361041	218467
13	<b>Kerala</b>	240562	170950
14	<b>Madhya Pradesh</b>	342654	267934
15	<b>Maharashtra</b>	623972	495362
16	<b>Manipur</b>	27612	15632
17	<b>Meghalaya</b>	22939	10813
18	<b>Mizoram</b>	11012	7680
19	<b>Nagaland</b>	36239	17111
20	<b>Odisha</b>	303669	268837
21	<b>Punjab</b>	139492	130345
22	<b>Rajasthan</b>	265599	214019
23	<b>Sikkim</b>	11386	7133
24	<b>Tamilnadu</b>	261436	217643
25	<b>Telangana</b>	126135	86111
26	<b>Tripura</b>	42925	22967
27	<b>Uttarakhand</b>	69777	52140
28	<b>Uttar Pradesh</b>	428055	383488
29	<b>West Bengal</b>	322067	136155
30	<b>A &amp; N Islands</b>	1617	1508
31	<b>Chandigarh</b>	2821	2821
32	<b>Dadra &amp; Nagar Haveli</b>	1187	1187
33	<b>Daman &amp; Diu</b>	426	426
34	<b>Delhi</b>	17882	17882
35	<b>Lakshadweep</b>	212	212
36	<b>Puducherry</b>	3242	2908
<b>Total *</b>		<b>4997671</b>	<b>3546579</b>

\* Excluding JRY Roads

**Total Road Length and Percentage Share of each category of Road during  
(1951-2017)**

(in km)

Year (as on 31st March)	National Highways	State Highways	Other PWD Roads	District Roads	Panchaya t 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)
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>1951</b>	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
<b>1961</b>	23,798	#	2,57,125		1,97,194	0		46,361	0	2,63,052	5,24,478
	4.54	0	49.02		37.6	0		8.84	0	50.16	100
<b>1971</b>	23,838	56,765	2,76,833		3,54,530	0		72,120	1,30,893	3,97,948	9,14,979
	2.61	6.2	30.26		38.75	0		7.88	14.31	43.49	100
<b>1981</b>	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	28.4		42.34	0		8.29	12.49	46.03	100
<b>1991</b>	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
<b>2001</b>	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	26.8		7.47	6.63	47.48	100
<b>2002</b>	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
	1.7	4.02	20.29		33.1	27.04		7.3	6.54	48.49	100
<b>2003</b>	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
<b>2004</b>	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
<b>2005</b>	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
<b>2006</b>	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	47.9	100
<b>2007</b>	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
<b>2008</b>	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
<b>2009</b>	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
<b>2010</b>	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	3.5	21.33		33.13	25.63		8.78	6.09	53.09	100
<b>2011</b>	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	3.5	21.36		32.72	26.07		8.8	6.02	53.98	100
<b>2012</b>	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	25.7		9.54	6.15	55.46	100
<b>2013</b>	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
<b>2014</b>	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
<b>2015</b>	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
<b>2016</b>	1,01,011	1,76,166		5,61,940	18,60,573	15,26,377	5,48,387	5,09,730	3,19,109	35,01,906	56,03,293
	1.8	3.14		10.03	33.2	27.24	9.78	9.1	5.7	62.49	100
<b>2017</b>	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

# Included in Other PWD Roads.

Totals may not add up because of rounding off of decimals. JRY road lengths for years since 1996-97 are the same as on 31.3.1996

Note: The second row of each year indicates the percentage share of each category of roads to the total road length.

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

## **Section - 2**

**NATIONAL HIGHWAYS - STATEWISE  
AND LANewise DISTRIBUTION**

**Length of National Highways in India  
as on 31.03.2017 (State/UT-wise)**

<b>Sl. No.</b>	<b>Name of State/ UT</b>	<b>Length of NH</b>	<b>%share of NH</b>
1	<b>Andhra Pradesh</b>	6467	5.7
2	<b>Arunachal Pradesh</b>	2513	2.2
3	<b>Assam</b>	3844	3.4
4	<b>Bihar</b>	4839	4.2
5	<b>Chhattisgarh</b>	3232	2.8
6	<b>Goa</b>	263	0.2
7	<b>Gujarat</b>	5017	4.4
8	<b>Haryana</b>	2623	2.3
9	<b>Himachal Pradesh</b>	2643	2.3
10	<b>Jammu &amp; Kashmir</b>	2601	2.3
11	<b>Jharkhand</b>	2654	2.3
12	<b>Karnataka</b>	6762	5.9
13	<b>Kerala</b>	1811	1.6
14	<b>Madhya Pradesh</b>	7854	6.9
15	<b>Maharashtra</b>	15437	13.5
16	<b>Manipur</b>	1745	1.5
17	<b>Meghalaya</b>	1203	1.1
18	<b>Mizoram</b>	1382	1.2
19	<b>Nagaland</b>	1173	1.0
20	<b>Odisha</b>	4838	4.2
21	<b>Punjab</b>	2769	2.4
22	<b>Rajasthan</b>	7906	6.9
23	<b>Sikkim</b>	463	0.4
24	<b>Tamil Nadu</b>	4946	4.3
25	<b>Telangana</b>	3455	3.0
26	<b>Tripura</b>	806	0.7
27	<b>Uttarakhand</b>	2713	2.4
28	<b>Uttar Pradesh</b>	8712	7.6
29	<b>West Bengal</b>	2956	2.6
30	<b>Andaman &amp; Nicobar Island</b>	330	0.3
31	<b>Chandigarh</b>	15	0.0
32	<b>Dadar &amp; Nagar Haveli</b>	31	0.0
33	<b>Daman &amp; Diu</b>	22	0.0
34	<b>Delhi</b>	69	0.1
35	<b>Lakshadweep</b>	0	0.0
36	<b>Puducherry</b>	64	0.1
<b>Total</b>		<b>114158</b>	<b>100</b>

Source : Roads Wing : Ministry of Road Transport & Highways  
Note: All National Highways are surfaced

**Lane wise Length of National Highways in India  
as on 31.03.2017**

<b>Sl. No.</b>	<b>Name of State/ UT</b>	<b>Total Length</b>	<b>Less than Two-Lane</b>	<b>Two- Lane</b>	<b>Four- Lane and above</b>
1	<b>Andhra Pradesh</b>	6467	1232	3357	1878
2	<b>Arunachal Pradesh</b>	2513	1917	577	19
3	<b>Assam</b>	3844	608	2603	633
4	<b>Bihar</b>	4839	690	3360	789
5	<b>Chhattisgarh</b>	3232	281	2585	366
6	<b>Goa</b>	263	32	194	37
7	<b>Gujarat</b>	5017	567	2057	2393
8	<b>Haryana</b>	2623	18	1432	1173
9	<b>Himachal Pradesh</b>	2643	1070	1538	35
10	<b>Jammu &amp; Kashmir</b>	2601	685	1714	202
11	<b>Jharkhand</b>	2654	193	2150	311
12	<b>Karnataka</b>	6762	1370	3486	1906
13	<b>Kerala</b>	1811	331	1348	132
14	<b>Madhya Pradesh</b>	7854	3050	3403	1401
15	<b>Maharashtra</b>	15437	8260	3647	3530
16	<b>Manipur</b>	1745	272	1442	31
17	<b>Meghalaya</b>	1203	660	486	57
18	<b>Mizoram</b>	1382	1117	265	0
19	<b>Nagaland</b>	1173	1085	88	0
20	<b>Odisha</b>	4838	40	3959	839
21	<b>Punjab</b>	2769	129	1565	1075
22	<b>Rajasthan</b>	7906	120	5093	2693
23	<b>Sikkim</b>	463	216	247	0
24	<b>Tamil Nadu</b>	4946	48	2740	2158
25	<b>Telangana</b>	3455	970	1564	921
26	<b>Tripura</b>	806	580	226	0
27	<b>Uttarakhand</b>	2713	1961	666	86
28	<b>Uttar Pradesh</b>	8712	706	5480	2526
29	<b>West Bengal</b>	2956	321	1588	1047
30	<b>Andaman &amp; Nicobar Island</b>	330	319	10	1
31	<b>Chandigarh</b>	15	0	0	15
32	<b>Dadar &amp; Nagar Haveli</b>	31	31	0	0
33	<b>Daman &amp; Diu</b>	22	22	0	0
34	<b>Delhi</b>	69	0	0	69
35	<b>Lakshadweep</b>	0			
36	<b>Puducherry</b>	64	0	40	24
<b>Total</b>		<b>114158</b>	<b>28901</b>	<b>58910</b>	<b>26347</b>

Source : Roads Wing Ministry of Road Transport & Highways

Note: All National Highways are surfaced.

# **Section - 3**

## **STATE HIGHWAYS**

**Total and Surfaced Length of State Highways in India  
as on 31.03.2017 (State/UT-wise)**

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	<b>Andhra Pradesh</b>	6485	6381
2	<b>Arunachal Pradesh</b>	8123	4043
3	<b>Assam</b>	2530	2202
4	<b>Bihar</b>	4006	4006
5	<b>Chhattisgarh</b>	4438	4353
6	<b>Goa</b>	279	279
7	<b>Gujarat</b>	17201	16983
8	<b>Haryana</b>	1801	1801
9	<b>Himachal Pradesh</b>	827	782
10	<b>Jammu &amp; Kashmir</b>	130	130
11	<b>Jharkhand</b>	1339	1339
12	<b>Karnataka</b>	19556	19483
13	<b>Kerala</b>	4342	4342
14	<b>Madhya Pradesh</b>	11389	11389
15	<b>Maharashtra</b>	39000	38134
16	<b>Manipur</b>	715	715
17	<b>Meghalaya</b>	772	737
18	<b>Mizoram</b>	170	170
19	<b>Nagaland</b>	722	722
20	<b>Odisha</b>	4139	4134
21	<b>Punjab</b>	1103	1103
22	<b>Rajasthan</b>	15019	14939
23	<b>Sikkim</b>	663	663
24	<b>Tamil Nadu</b>	12095	12095
25	<b>Telangana</b>	2553	2553
26	<b>Tripura</b>	329	329
27	<b>Uttarakhand</b>	4329	4310
28	<b>Uttar Pradesh</b>	7201	7201
29	<b>West Bengal</b>	3262	3262
30	<b>Andaman &amp; Nicobar Island</b>	266	266
31	<b>Chandigarh</b>	200	200
32	<b>Dadra &amp; Nagar Haveli</b>	30	30
33	<b>Daman &amp; Diu</b>	22	22
34	<b>Delhi</b>	0	0
35	<b>Lakshadweep</b>	0	0
36	<b>Puducherry</b>	0	0
	<b>Total</b>	<b>175036</b>	<b>169096</b>

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

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).

**Length of State Highways in India - By Type of Surface  
as on 31.03.2017 (State/UT-wise)**

SL. No.	Name of State/UT	Total Length (6+7)	Surfaced			(in km) Un-surfaced
			WBM/WMM	BT/CC	Total (4+5)	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh *</b>	6485	2	6379	6381	104
2	<b>Arunachal Pradesh \$</b>	8123	1286	2757	4043	4080
3	<b>Assam</b>	2530	0	2202	2202	328
4	<b>Bihar</b>	4006	0	4006	4006	0
5	<b>Chhattisgarh</b>	4438	249	4104	4353	86
6	<b>Goa</b>	279	6	274	279	0
7	<b>Gujarat*</b>	17201	29	16954	16983	218
8	<b>Haryana</b>	1801	0	1801	1801	0
9	<b>Himachal Pradesh</b>	827	0	782	782	45
10	<b>Jammu &amp; Kashmir</b>	130	0	130	130	0
11	<b>Jharkhand</b>	1339	0	1339	1339	0
12	<b>Karnataka</b>	19556	226	19257	19483	74
13	<b>Kerala</b>	4342	0	4342	4342	0
14	<b>Madhya Pradesh</b>	11389	0	11389	11389	0
15	<b>Maharashtra \$</b>	39000	517	37617	38134	865
16	<b>Manipur*</b>	715	60	655	715	0
17	<b>Meghalaya</b>	772	0	737	737	35
18	<b>Mizoram</b>	170	0	170	170	0
19	<b>Nagaland</b>	722	199	524	722	0
20	<b>Odisha</b>	4139	21	4113	4134	5
21	<b>Punjab</b>	1103	0	1103	1103	0
22	<b>Rajasthan</b>	15019	4	14935	14939	80
23	<b>Sikkim</b>	663	0	663	663	0
24	<b>Tamil Nadu</b>	12095	0	12095	12095	0
25	<b>Telangana</b>	2553	3	2550	2553	0
26	<b>Tripura</b>	329	0	329	329	0
27	<b>Uttarakhand</b>	4329	27	4283	4310	19
28	<b>Uttar Pradesh</b>	7201	0	7201	7201	0
29	<b>West Bengal</b>	3262	0	3262	3262	0
30	<b>Andaman &amp; Nicobar Island</b>	266	0	266	266	0
31	<b>Chandigarh*</b>	200	0	200	200	0
32	<b>Dadra &amp; Nagar Haveli</b>	30	0	30	30	0
33	<b>Daman &amp; Diu</b>	22	0	22	22	0
34	<b>Delhi</b>	0	0	0	0	0
35	<b>Lakshadweep</b>	0	0	0	0	0
36	<b>Puducherry</b>	0	0	0	0	0
<b>Total</b>		<b>175036</b>	<b>2628</b>	<b>166468</b>	<b>169096</b>	<b>5939</b>

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

**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).

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

\$ Figures is as on 31/03/2016-Data partially received.

# **Section - 4**

## **DISTRICT ROADS**

**Total & Surfaced Length of District Roads  
as on 31.03.2017 (State/UT-wise)**

(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	<b>Andhra Pradesh *</b>	35471	34732
2	<b>Arunachal Pradesh @</b>	5345	3685
3	<b>Assam</b>	4379	3457
4	<b>Bihar</b>	11145	11145
5	<b>Chhattisgarh</b>	11625	11216
6	<b>Goa</b>	1173	1172
7	<b>Gujarat*</b>	30809	30228
8	<b>Haryana</b>	21948	21859
9	<b>Himachal Pradesh</b>	2832	2781
10	<b>Jammu &amp; Kashmir</b>	11272	9376
11	<b>Jharkhand</b>	9356	9128
12	<b>Karnataka</b>	49923	48468
13	<b>Kerala</b>	27470	27470
14	<b>Madhya Pradesh</b>	40296	40296
15	<b>Maharashtra</b>	109530	99617
16	<b>Manipur*</b>	9467	4844
17	<b>Meghalaya</b>	5095	4016
18	<b>Mizoram</b>	1750	1541
19	<b>Nagaland</b>	6467	3691
20	<b>Odisha</b>	16271	15754
21	<b>Punjab</b>	6980	6980
22	<b>Rajasthan</b>	23445	22852
23	<b>Sikkim</b>	1415	660
24	<b>Tamil Nadu</b>	45379	45379
25	<b>Telangana</b>	22303	21797
26	<b>Tripura</b>	1189	1189
27	<b>Uttarakhand</b>	4967	4605
28	<b>Uttar Pradesh</b>	55061	55061
29	<b>West Bengal</b>	10449	10424
30	<b>Andaman &amp; Nicobar Island</b>	139	139
31	<b>Chandigarh*</b>	83	83
32	<b>Dadra &amp; Nagar Haveli</b>	190	190
33	<b>Daman &amp; Diu</b>	99	99
34	<b>Delhi</b>	2462	2462
35	<b>Lakshadweep</b>	0	0
36	<b>Puducherry</b>	397	397
	<b>Total</b>	<b>586181</b>	<b>556794</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).

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

Differences in sum on account of rounding off of decimals.

**Length of District Roads - By Type of Surface  
as on 31.03.2017 (State/UT-wise)**

(in km)

<b>S.No.</b>	<b>Name of State/UT</b>	<b>Total Length (6+7)</b>	<b>Surfaced</b>			<b>Un- surfaced</b>
			<b>WBM/WM M</b>	<b>BT/CC</b>	<b>Total (4+5)</b>	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh*</b>	35471	241	34491	34732	739
2	<b>Arunachal Pradesh @</b>	5345	1555	2130	3685	1659
3	<b>Assam</b>	4379	0	3457	3457	922
4	<b>Bihar</b>	11145	0	11145	11145	0
5	<b>Chhattisgarh</b>	11625	495	10721	11216	409
6	<b>Goa</b>	1173	1	1172	1172	1
7	<b>Gujarat*</b>	30809	293	29935	30228	581
8	<b>Haryana</b>	21948	49	21809	21859	89
9	<b>Himachal Pradesh</b>	2832	30	2752	2781	50
10	<b>Jammu &amp; Kashmir</b>	11272	670	8706	9376	1896
11	<b>Jharkhand</b>	9356	606	8522	9128	228
12	<b>Karnataka</b>	49923	1467	47001.1	48468	1455
13	<b>Kerala</b>	27470	0	27470	27470	0
14	<b>Madhya Pradesh</b>	40296	0	40296	40296	0
15	<b>Maharashtra \$</b>	109530	15764	83853	99617	9913
16	<b>Manipur*</b>	9467	904	3940	4844	4623
17	<b>Meghalaya</b>	5095	204	3812	4016	1079
18	<b>Mizoram</b>	1750	0	1541	1541	209
19	<b>Nagaland</b>	6467	1780	1911	3691	2776
20	<b>Odisha</b>	16271	324	15430	15754	517
21	<b>Punjab</b>	6980	0	6980	6980	0
22	<b>Rajasthan</b>	23445	17	22835	22852	593
23	<b>Sikkim</b>	1415	97	562	660	756
24	<b>Tamil Nadu</b>	45379	0	45379	45379	0
25	<b>Telangana</b>	22303	221	21576	21797	506
26	<b>Tripura</b>	1189	0	1189	1189	0
27	<b>Uttarakhand</b>	4967	56	4549	4605	362
28	<b>Uttar Pradesh</b>	55061	0	55061	55061	0
29	<b>West Bengal</b>	10449	0	10424	10424	25
30	<b>Andaman &amp; Nicobar Island</b>	139	0	139	139	0
31	<b>Chandigarh*</b>	83	0	82	83	0
32	<b>Dadra &amp; Nagar Haveli</b>	190	0	190	190	0
33	<b>Daman &amp; Diu</b>	99	0	99	99	0
34	<b>Delhi \$</b>	2462	0	2462	2462	0
35	<b>Lakshadweep</b>	0	0	0	0	0
36	<b>Puducherry</b>	397	1	396	397	0
<b>Total</b>		<b>586181</b>	<b>24774</b>	<b>532020</b>	<b>556794</b>	<b>29387</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 31/03/2016-Data not received.

\$ Figures is as on 31/03/2016-Data partially received.

# **Section - 5**

## **RURAL ROADS**

**Total & Surfaced Length of Rural Roads  
as on 31.03.2017 (State/UT-wise)**

(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	<b>Andhra Pradesh</b>	98462	53366
2	<b>Arunachal Pradesh</b>	15872	7681
3	<b>Assam</b>	300123	48817
4	<b>Bihar</b>	178109	93275
5	<b>Chhattisgarh</b>	49977	43026
6	<b>Goa</b>	13742	8798
7	<b>Gujarat</b>	85989	82204
8	<b>Haryana</b>	39838	39749
9	<b>Himachal Pradesh</b>	49631	33178
10	<b>Jammu And Kashmir</b>	28892	18958
11	<b>Jharkhand</b>	38253	31730
12	<b>Karnataka</b>	213227	99604
13	<b>Kerala</b>	158775	101874
14	<b>Madhya Pradesh</b>	229674	184175
15	<b>Maharashtra</b>	414037	314371
16	<b>Manipur</b>	14642	7381
17	<b>Meghalaya</b>	14640	4461
18	<b>Mizoram</b>	6369	3582
19	<b>Nagaland</b>	26886	10586
20	<b>Odisha</b>	231698	218700
21	<b>Punjab</b>	101123	101123
22	<b>Rajasthan</b>	178822	136235
23	<b>Sikkim</b>	7982	4597
24	<b>Tamilnadu</b>	165476	126840
25	<b>Telangana</b>	80754	47499
26	<b>Tripura</b>	38560	20178
27	<b>Uttarakhand</b>	33697	21524
28	<b>Uttar Pradesh</b>	251173	249375
29	<b>West Bengal</b>	197079	47914
30	<b>A &amp; N Islands</b>	511	491
31	<b>Chandigarh</b>	0	0
32	<b>Dadra &amp; Nagar Haveli</b>	853	853
33	<b>Daman &amp; Diu</b>	136	136
34	<b>Delhi</b>	0	0
35	<b>Lakshadweep</b>	211	211
36	<b>Puducherry</b>	1702	1427
<b>Total (Excluding JRY Roads)</b>		<b>3266916</b>	<b>2163920</b>
<b>Total (Including JRY Roads)</b>		<b>4166916</b>	<b>2347122</b>

Notes: The Rural Roads comprise of PMGSY, rural roads built by State PWD/RWD & those constructed by Panchayati Raj Roads

**Length of PMGSY Roads - By type of Surface  
as on 31st March 2017 (State/UT-wise)**

(in km)

1	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	<b>Andhra Pradesh</b>	19384	4824	13742	18566	818
2	<b>Arunachal Pradesh</b>	8201	23	5520	5544	2657
3	<b>Assam</b>	25429	0	16403	16403	9026
4	<b>Bihar</b>	55511	834	43001	43835	11676
5	<b>Chhattisgarh</b>	35048	3317	26990	30306	4742
6	<b>Goa</b>	207	26	155	181	26
7	<b>Gujarat</b>	18441	5813	12503	18316	125
8	<b>Haryana</b>	6974	1436	5538	6974	0
9	<b>Himachal Pradesh</b>	17774	1241	12202	13443	4331
10	<b>Jammu And Kashmir</b>	14881	887	7002	7890	6991
11	<b>Jharkhand</b>	23327	1733	15071	16804	6523
12	<b>Karnataka</b>	22847	4331	18515	22846	1
13	<b>Kerala</b>	3798	905	2825	3729	69
14	<b>Madhya Pradesh</b>	80337	6836	65782	72618	7719
15	<b>Maharashtra</b>	31012	4946	25489	30435	577
16	<b>Manipur</b>	9647	441	5578	6019	3628
17	<b>Meghalaya</b>	2484	25	1545	1570	914
18	<b>Mizoram</b>	3790	0	2622	2622	1168
19	<b>Nagaland</b>	3893	93	3461	3554	340
20	<b>Odisha</b>	60628	7481	40148	47630	12998
21	<b>Punjab</b>	8926	1811	7115	8926	0
22	<b>Rajasthan</b>	69846	4186	61637	65823	4023
23	<b>Sikkim</b>	4795	8	3204	3212	1582
24	<b>Tamilnadu</b>	17933	4160	13703	17862	70
25	<b>Telangana</b>	11254	761	9898	10659	595
26	<b>Tripura</b>	6479	1966	3860	5826	653
27	<b>Uttarakhand</b>	12040	160	7805	7965	4074
28	<b>Uttar Pradesh</b>	74113	22986	50295	73281	832
29	<b>West Bengal</b>	34995	8637	23138	31776	3219
30	<b>A &amp; N Islands</b>	61	43	0	43	19
31	<b>Chandigarh</b>	0	0	0	0	0
32	<b>Dadra &amp; Nagar Haveli</b>	182	182	0	182	0
33	<b>Daman &amp; Diu</b>	0	0	0	0	0
34	<b>Delhi</b>	0	0	0	0	0
35	<b>Lakshadweep</b>	0	0	0	0	0
36	<b>Puducherry</b>	107	19	69	88	19
<b>Total</b>		<b>684343</b>	<b>90112</b>	<b>504815</b>	<b>594927</b>	<b>89416</b>

**Length of Rural Roads built by State PWD/RWD - By Type of Surface  
as on 31.03.2017 (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	<b>Andhra Pradesh</b>					
2	<b>Arunachal Pradesh</b>	2426	451	468	919	1507
3	<b>Assam</b>	36933	0	20298	20298	16635
4	<b>Bihar</b>					
5	<b>Chhattisgarh</b>	14093	1574	10314	11888	2205
6	<b>Goa</b>	3328	34	2625	2659	669
7	<b>Gujarat*</b>	23114	499	21622	22121	993
8	<b>Haryana</b>	32864	0	32775	32775	89
9	<b>Himachal Pradesh</b>	30162	1639	17833	19472	10691
10	<b>Jammu &amp; Kashmir*</b>	11272	670	8706	9376	1896
11	<b>Jharkhand \$</b>	14926	0	14926	14926	0
12	<b>Karnataka</b>					
13	<b>Kerala</b>					
14	<b>Madhya Pradesh*</b>	26482	4980	18762	23742	2740
15	<b>Maharashtra \$</b>	146135	47151	53830	100981	45154
16	<b>Manipur</b>					
17	<b>Meghalaya</b>	2937	132	1616	1748	1189
18	<b>Mizoram</b>	2578	0	960	960	1618
19	<b>Nagaland</b>	3538	431	0	431	3107
20	<b>Odisha</b>					
21	<b>Punjab</b>	30761	0	30761	30761	0
22	<b>Rajasthan</b>	64689	202	62051	62253	2436
23	<b>Sikkim</b>					
24	<b>Tamil Nadu</b>					
25	<b>Telangana</b>					
26	<b>Tripura</b>	6835	847	5590	6437	398
27	<b>Uttarakhand</b>	21657	763	12795	13559	8098
28	<b>Uttar Pradesh</b>	169051	0	169004	169004	47
29	<b>West Bengal</b>	1468	0	1454	1454	14
30	<b>Andaman &amp; Nicobar Island</b>	449	14	435	449	1
31	<b>Chandigarh</b>					
32	<b>Dadra &amp; Nagar Haveli</b>	671	2	668	671	0
33	<b>Daman &amp; Diu</b>	44	0	44	44	0
34	<b>Delhi</b>					
35	<b>Lakshadweep</b>	211	0	211	211	0
36	<b>Puducherry</b>	254	0	254	254	0
	<b>Total</b>	<b>646880</b>	<b>59389</b>	<b>488003</b>	<b>547391</b>	<b>99488</b>

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

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

\$ Figures is as on 31/03/2016-Data partially received.

**Length of Panchayati Raj Roads - By Type of Surface  
as on 31.03.2017 (State/UT-wise)**

(in km)

<b>Sl. No.</b>	<b>Name of State/UT</b>	<b>Total Length (6+7)</b>	<b>Surfaced</b>			<b>Unsurfaced</b>
			<b>W.B.M.</b>	<b>BT/CC</b>	<b>Total (4+5)</b>	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh</b>	79078	10129	24671	34800	44278
2	<b>Arunachal Pradesh*</b>	5245	0	1219	1219	4026
3	<b>Assam*</b>	237761	8378	3738	12116	225645
4	<b>Bihar *</b>	122598	7240	42200	49440	73158
5	<b>Chhattisgarh</b>	835	76	757	832	3
6	<b>Goa</b>	10207	1060	4897	5957	4250
7	<b>Gujarat *</b>	44434	5640	36127	41767	2667
8	<b>Haryana</b>					
9	<b>Himachal Pradesh *</b>	1695	72	191	263	1432
10	<b>Jammu &amp; Kashmir*</b>	2740	1693	0	1693	1047
11	<b>Jharkhand</b>					
12	<b>Karnataka</b>	190380	26260	50498	76758	113622
13	<b>Kerala</b>	154977	14580	83564	98144	56833
14	<b>Madhya Pradesh *</b>	122855	0	87815	87815	35040
15	<b>Maharashtra \$</b>	236890	78635	104320	182955	53935
16	<b>Manipur</b>	4995	0	1362	1362	3633
17	<b>Meghalaya \$</b>	9219	460	683	1143	8076
18	<b>Mizoram</b>					
19	<b>Nagaland *</b>	19455	3141	3461	6602	12853
20	<b>Odisha*</b>	171070	171070	0	171070	0
21	<b>Punjab</b>	61436	0	61436	61436	0
22	<b>Rajasthan \$</b>	44287	3914	4245	8159	36128
23	<b>Sikkim</b>	3188	0	1385	1385	1802
24	<b>Tamil Nadu *</b>	147543	10155	98823	108978	38565
25	<b>Telangana</b>	69500	11751	25089	36840	32660
26	<b>Tripura</b>	25247	2227	5689	7916	17331
27	<b>Uttarakhand</b>					
28	<b>Uttar Pradesh</b>	8009	908	6182	7090	919
29	<b>West Bengal *</b>	160616	1910	12774	14684	145932
30	<b>A &amp; N Islands</b>					
31	<b>Chandigarh</b>					
32	<b>Dadra &amp; Nagar Haveli</b>					
33	<b>Daman &amp; Diu*</b>	92	1	91	92	0
34	<b>Delhi</b>					
35	<b>Lakshadweep</b>					
36	<b>Puducherry</b>	1341	224	862	1085	256
<b>Total</b>		<b>1935693</b>	<b>359523</b>	<b>662079</b>	<b>1021602</b>	<b>914092</b>

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

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

\$ Figures is as on 31/03/2016-Data partially received.

# **Section - 6**

## **URBAN ROADS**

**Total & Surfaced Length of Urban Roads  
as on 31.03.2017 (State/UT-wise)**

(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	Andhra Pradesh	24424	19767
2	Arunachal Pradesh	576	464
3	Assam	6319	4056
4	Bihar	8891	3801
5	Chhattisgarh	12834	10997
6	Goa	870	775
7	Gujarat	28816	23506
8	Haryana	15042	10961
9	Himachal Pradesh	3489	2922
10	Jammu And Kashmir	1757	1744
11	Jharkhand	6799	4642
12	Karnataka	51334	35629
13	Kerala	33201	26255
14	Madhya Pradesh	17305	13569
15	Maharashtra	24245	19273
16	Manipur	151	96
17	Meghalaya	170	166
18	Mizoram	312	265
19	Nagaland	100	98
20	Odisha	20893	15849
21	Punjab	17868	16163
22	Rajasthan	30214	25668
23	Sikkim	48	46
24	Tamilnadu	24494	22783
25	Telangana	12058	8237
26	Tripura	602	445
27	Uttarakhand	5446	3806
28	Uttar Pradesh	63722	48741
29	West Bengal	95240	66950
30	A & N Islands	170	153
31	Chandigarh	2523	2523
32	Dadra & Nagar Haveli	83	83
33	Daman & Diu	147	147
34	Delhi	15299	15299
35	Lakshadweep	2	2
36	Puducherry	1038	987
	<b>Total</b>	<b>526483</b>	<b>406867</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 31.03.2017 (State/UT-wise)**

(in km)

Sl. No.	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced Total
			WBM/WMM	BT/CC	Total (4+5)	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh</b>	23297	2202	16458	18660	4636
2	<b>Arunachal Pradesh</b>	478	19	350	368	110
3	<b>Assam</b>	4729	620	1890	2510	2219
4	<b>Bihar*</b>	8537	1112	2375	3487	5050
5	<b>Chhattisgarh</b>	12428	1024	9594	10618	1811
6	<b>Goa</b>	631	81	454	535	95
7	<b>Gujarat</b>	27558	2805	19446	22251	5307
8	<b>Haryana*</b>	13747	594	9114	9708	4039
9	<b>Himachal Pradesh</b>	1846	115	1208	1323	523
10	<b>Jammu &amp; Kashmir*</b>	441	2	439	441	0
11	<b>Jharkhand</b>	6074	513	3467	3980	2095
12	<b>Karnataka*</b>	50343	6837	27833	34670	15673
13	<b>Kerala</b>	32745	3129	22745	25874	6871
14	<b>Madhya Pradesh</b>	15886	2172	10032	12204	3682
15	<b>Maharashtra*</b>	20958	4095	12382	16477	4481
16	<b>Manipur*</b>	122	22	46	68	54
17	<b>Meghalaya*</b>	30	0	26	26	4
18	<b>Mizoram</b>	297	0	254	254	44
19	<b>Nagaland</b>	0	0	0	0	0
20	<b>Odisha</b>	19915	3923	10992	14915	5000
21	<b>Punjab</b>	15181	881	12628	13509	1672
22	<b>Rajasthan</b>	27695	2819	20469	23288	4407
23	<b>Sikkim*</b>	48	0	46	46	2
24	<b>Tamil Nadu*</b>	23350	773	20939	21712	1638
25	<b>Telangana</b>	10859	0	7039	7039	3820
26	<b>Tripura*</b>	518	115	257	372	146
27	<b>Uttarakhand</b>	4804	391	2786	3176	1628
28	<b>Uttar Pradesh*</b>	59960	0	45220	45220	14740
29	<b>West Bengal*</b>	92963	4831	59928	64759	28204
30	<b>Andaman &amp; Nicobar Islands</b>	68	0	52	52	16
31	<b>Chandigarh</b>	2334	0	2334	2334	0
32	<b>Dadra &amp; Nagar Haveli</b>	83	0	83	83	0
33	<b>Daman &amp; Diu</b>	46	0	46	46	0
34	<b>Delhi</b>	14336	0	14336	14336	0
35	<b>Lakshadweep</b>	0	0	0	0	0
36	<b>Puducherry</b>	1020	152	821	974	47
<b>Total</b>		<b>493328</b>	<b>39227</b>	<b>336088</b>	<b>375315</b>	<b>118013</b>

Source: State &amp; UT Urban Departments.

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

**Length of Military Engineering Service Roads - By Type of Surface  
as on 31.03.2017 (State/UT-wise)**

(in km)

<b>Sl. No.</b>	<b>Name of State/UT</b>	<b>Total Length (6+7)</b>	<b>Surfaced</b>			<b>Unsurfaced</b>
			<b>W.B.M.</b>	<b>B.T./C.C</b>	<b>Total (4+5)</b>	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh</b>	318	0	318	318	0
2	<b>Arunachal Pradesh</b>	94	0	94	94	0
3	<b>Assam</b>	976	1	969	970	6
4	<b>Bihar</b>	51	0	51	51	0
5	<b>Chhattisgarh</b>	2	2	0	2	0
6	<b>Goa</b>	124	0	124	124	0
7	<b>Gujarat</b>	999	0	999	999	0
8	<b>Haryana</b>	884	0	869	869	15
9	<b>Himachal Pradesh</b>	186	1	177	178	8
10	<b>Jammu &amp; Kashmir</b>	1171	2	1169	1171	0
11	<b>Jharkhand</b>	131	0	131	131	0
12	<b>Karnataka</b>	571	45	519	564	7
13	<b>Kerala</b>	308	0	235	235	72
14	<b>Madhya Pradesh</b>	742	0	742	742	0
15	<b>Maharashtra</b>	2239	141	1761	1902	337
16	<b>Manipur</b>	25	0	25	25	0
17	<b>Meghalaya</b>	138	10	129	138	0
18	<b>Mizoram</b>	7	0	7	7	0
19	<b>Nagaland</b>	88	0	88	88	0
20	<b>Odisha</b>	205	0	205	205	0
21	<b>Punjab</b>	2362	0	2361	2361	1
22	<b>Rajasthan</b>	1822	0	1723	1723	99
23	<b>Sikkim</b>	0	0	0	0	0
24	<b>Tamil Nadu</b>	488	37	448	485	3
25	<b>Telangana</b>	480	0	480	480	0
26	<b>Tripura</b>	21	0	21	21	0
27	<b>Uttarakhand</b>	592	14	575	589	3
28	<b>Uttar Pradesh</b>	1456	9	1447	1456	0
29	<b>West Bengal</b>	970	14	954	967	2
30	<b>Andaman &amp; Nicobar Islands</b>					
	<b>Islands</b>	91	0	91	91	0
31	<b>Chandigarh</b>	181	0	181	181	0
32	<b>Dadra Nagar Haveli</b>	0	0	0	0	0
33	<b>Daman &amp; Diu</b>	92	0	92	92	0
34	<b>Delhi</b>	740	2	738	740	0
35	<b>Lakshadweep</b>	2	0	2	2	0
36	<b>Puducherry</b>	0	0	0	0	0
<b>Total</b>		<b>18556</b>	<b>278</b>	<b>17724</b>	<b>18002</b>	<b>554</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 31.03.2017 (State/UT-wise)**

(in km)

Sl.No.	States/UTs	Major Port Trusts	Total Length (6+7)	Surfaced			Unsurfaced
				W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7	8
1	<b>Andhra Pradesh</b>	Visakhapatnam	73	0	72	73	0
2	<b>Goa</b>	Mormugoa	25	0	25	25	0
3	<b>Gujarat</b>	Kandla *	97	0	97	97	0
4	<b>Karnataka</b>	New Mangalore	47	3	44	47	0
5	<b>Kerala</b>	Cochin	36	4	32	36	0
6	<b>Maharashtra</b>	Jawaharlal Nehru Port Trust	40	0	40	40	0
		Mumbai Port Trust	67	0	67	67	0
7	<b>Odisha</b>	Paradeep	121	4	115	119	2
8	<b>Tamil Nadu</b>	Chennai Port	29	0	29	29	0
		Kamrajar Port (Ennore Port Trust)	14	0	14	14	0
		Tuticorin*	78	0	78	78	0
9	<b>West Bengal</b>	Kolkata Port	50	47	3	50	0
		Haldia Dock	104	0	104	104	0
		<b>Total</b>	<b>781</b>	<b>58</b>	<b>720</b>	<b>779</b>	<b>2</b>

Source: Individual Port Trusts

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

**Length of Roads in Minor Ports - By Type of surface  
as on 31/03/2017 (State/UT-wise)**

(in km)

Sl.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
1	<b>Andhra Pradesh</b>	Bhavanapadu	17	0	17	17	0
		Kakinada					
		Machilipatnam					
		Nizampatnam					
2	<b>Goa *</b>	Tiracol	80	0	80	80	0
		Chapora					
		Panajim					
		Betul					
		Talpona					
3	<b>Gujarat *</b>	Jakhau	154	7	147	154	0
		Mandavi					
		Mundra					
		Navalakhi					
		Okha					
		Bedi					
		Rozi					
		Porbandar					
		Veraval					
		Jafrabad					
		Victor					
		Alang Ship Breaking Yard					
		Bhavnagar					
		Dahej					
		Surat					
		Madalla					
		Dumas					
		Dholai					
		Onjal					
		Kosamba					
4	<b>Kerala*</b>	Vizhinjam	12	0	12	12	0
		Valiyathura					
		Kollam					
		Kochupilamoodu					
		Neendakara					
		Sakthikulangara					
		Pullikkada					
		Alappuzha					
		Kodungallur					
		Kayamkulam					
		Ponnani					
		Thalassery					
		Azhikkal					
		Kasaragod					
		Beypore					
		Kannur					

contd...

Sl.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	<b>Karnataka</b>	Karwar	15	0	15	15	0
		Old Mangalore					
		Belekeri					
		Honnavar					
		Bhatkal					
		Hangarakatta					
		Malpe					
		Tadadi					
		Padubidri					
		Kundapura					
6	<b>Odisha*</b>	Gopalpur	46	13	16	29	17
		Dhamara					
7	<b>A &amp; N Islands</b>	Port Blair	11	3	7	10	1
		Campbell Bay					
		Hut Bay					
		Rangat Bay					
		Car nicobar					
8	<b>Daman &amp; Diu</b>	Daman	8	0	8	8	0
		Diу					
9	<b>Puducherry</b>	Puducherry	17	1	13	13	4
		Karaikal					
10	<b>Tamil Nadu *</b>	Cuddalore	0	0	0	0	0
		Nagapattinam					
		Rameswaram					
		Colachel					
		<b>Total</b>	<b>361</b>	<b>24</b>	<b>316</b>	<b>340</b>	<b>21</b>

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 31/03/2016-Data not received.

**Length of Roads in Railway Zones - By Type of Surface in India  
as on 31.03.2017 (State/UT-wise)**

(in kms)

Sl. No.	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh</b>	719	45	653	698	21
2	<b>Arunachal Pradesh</b>	4	0	2	2	2
3	<b>Assam</b>	615	36	540	576	39
4	<b>Bihar</b>	302	11	252	262	40
5	<b>Chhattisgarh</b>	404	38	339	377	27
6	<b>Goa</b>	10	0	10	10	0
7	<b>Gujarat</b>	8	1	4	5	3
8	<b>Haryana</b>	411	15	369	384	27
9	<b>Himachal Pradesh</b>	1457	8	1413	1421	36
10	<b>Jammu &amp; Kashmir</b>	145	0	132	132	12
11	<b>Jharkhand</b>	594	100	432	532	62
12	<b>Karnataka</b>	358	48	285	333	24
13	<b>Kerala</b>	101	12	85	97	4
14	<b>Madhya Pradesh</b>	676	99	524	623	54
15	<b>Maharashtra</b>	941	197	590	787	154
16	<b>Manipur</b>	4	1	1	2	1
17	<b>Meghalaya</b>	2	0	2	2	0
18	<b>Mizoram</b>	8	3	3	5	3
19	<b>Nagaland</b>	12	1	9	10	2
20	<b>Odisha</b>	605	58	523	581	25
21	<b>Punjab</b>	325	22	271	293	32
22	<b>Rajasthan</b>	697	82	575	657	40
23	<b>Sikkim</b>	0	0	0	0	0
24	<b>Tamil Nadu</b>	535	83	381	464	71
25	<b>Telangana</b>	720	51	667	718	2
26	<b>Tripura</b>	63	24	27	52	12
27	<b>Uttarakhand</b>	50	2	39	41	9
28	<b>Uttar Pradesh</b>	2306	340	1725	2065	241
29	<b>West Bengal</b>	1153	166	903	1069	84
30	<b>Andaman &amp; Nicobar Islands</b>	0	0	0	0	0
31	<b>UT Chandigarh</b>	9	0	9	9	0
32	<b>Dadra &amp; Nagar Haveli</b>	0	0	0	0	0
33	<b>Daman &amp; Diu</b>	0	0	0	0	0
34	<b>Delhi</b>	223	64	159	223	0
35	<b>Lakshadweep</b>	0	0	0	0	0
36	<b>Puducherry</b>	1	0	1	1	0
<b>Total</b>		<b>13457</b>	<b>1506</b>	<b>10925</b>	<b>12431</b>	<b>1026</b>

Source: Data based on Railway Zones which had reported.

# **Section - 7**

## **PROJECT ROADS**

**Total & Surfaced Length of Project Roads  
as on 31.03.2017 (State/UT-wise)**

(in km)

S.No.	Name of State/UT	Total	Surfaced
1	2	3	4
1	<b>Andhra Pradesh</b>	5165	2135
2	<b>Arunachal Pradesh</b>	4597	3377
3	<b>Assam</b>	20582	1571
4	<b>Bihar</b>	2559	508
5	<b>Chhattisgarh</b>	15738	7237
6	<b>Goa</b>	331	164
7	<b>Gujarat</b>	13095	5235
8	<b>Haryana</b>	134	134
9	<b>Himachal Pradesh</b>	3390	904
10	<b>Jammu And Kashmir</b>	18734	7324
11	<b>Jharkhand</b>	11469	6071
12	<b>Karnataka</b>	20239	8520
13	<b>Kerala</b>	14963	9198
14	<b>Madhya Pradesh</b>	36136	10652
15	<b>Maharashtra</b>	21723	8530
16	<b>Manipur</b>	891	851
17	<b>Meghalaya</b>	1058	229
18	<b>Mizoram</b>	1030	740
19	<b>Nagaland</b>	890	840
20	<b>Odisha</b>	25831	9562
21	<b>Punjab</b>	9650	2207
22	<b>Rajasthan</b>	10193	6419
23	<b>Sikkim</b>	814	703
24	<b>Tamilnadu</b>	9046	5599
25	<b>Telangana</b>	5012	2570
26	<b>Tripura</b>	1439	20
27	<b>Uttarakhand</b>	18626	15181
28	<b>Uttar Pradesh</b>	42186	14398
29	<b>West Bengal</b>	13080	4648
30	<b>A &amp; N Islands</b>	201	128
31	<b>Chandigarh</b>	0	0
32	<b>Dadra &amp; Nagar Haveli</b>	0	0
33	<b>Daman &amp; Diu</b>	1	1
34	<b>Delhi</b>	52	52
35	<b>Lakshadweep</b>	0	0
36	<b>Puducherry</b>	41	33
<b>Total</b>		<b>328897</b>	<b>135743</b>

Notes: 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.

**Length of Roads under Forest Departments - By Type of Surface in India  
as on 31.03.2017 (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	<b>Andhra Pradesh</b>	4047	1133	64	1197	2849
2	<b>Arunachal Pradesh*</b>	1034	7	40	47	987
3	<b>Assam*</b>	18589	419	692	1111	17478
4	<b>Bihar</b>	2030	0	0	0	2030
5	<b>Chhattisgarh</b>	10868	5055	0	5055	5813
6	<b>Goa</b>	181	17	49	66	115
7	<b>Gujarat *</b>	3878	578	2052	2630	1248
8	<b>Haryana</b>	3	0	3	3	0
9	<b>Himachal Pradesh*</b>	2254	0	26	26	2228
10	<b>Jammu &amp;kashmir</b>	11501	1308	35	1342	10158
11	<b>Jharkhand</b>	9442	1729	2470	4199	5243
12	<b>Karnataka</b>	9004	503	391	895	8109
13	<b>Kerala</b>	4759	875	476	1351	3408
14	<b>Madhya Pradesh *</b>	29798	2208	4946	7154	22644
15	<b>Maharashtra</b>	13592	4495	405	4900	8692
16	<b>Manipur</b>					
17	<b>Meghalaya</b>	746	66	33	99	647
18	<b>Mizoram</b>	42	6	12	18	24
19	<b>Nagaland</b>	249	0	249	249	0
20	<b>Odisha</b>	7575	1074	117	1190	6384
21	<b>Punjab</b>	707	0	0	0	707
22	<b>Rajasthan *</b>	5259	341	1578	1919	3340
23	<b>Sikkim</b>	6	0	4	4	3
24	<b>Tamil Nadu *</b>	3351	833	799	1632	1719
25	<b>Telangana *</b>	2252	611	160	771	1481
26	<b>Tripura *</b>	1345	0	11	11	1334
27	<b>Uttarakhand</b>	17332	13671	476	14148	3185
28	<b>Uttar Pradesh</b>	8601	1035	741	1775	6826
29	<b>West Bengal</b>	6203	751	400	1151	5052
30	<b>Andaman &amp; Nicobar Islands*</b>	177	110	18	128	49
31	<b>UT Chandigarh</b>					
32	<b>Dadra &amp; Nagar Haveli</b>					
33	<b>Daman &amp; Diu</b>	1	1	0	1	0
34	<b>Delhi</b>					
35	<b>Lakshadweep</b>					
36	<b>Puducherry</b>					
	<b>Total</b>	<b>174825</b>	<b>36824</b>	<b>16248</b>	<b>53072</b>	<b>121753</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 31/03/2016-Data not received.

**Length of Roads under Border Roads Organisation - By Type of Surface in India  
as on 31.03.2017 (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)	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh</b>	0	0	0	0	0
2	<b>Arunachal Pradesh</b>	3563	69	3261	3330	233
3	<b>Assam</b>	298	21	236	257	41
4	<b>Bihar</b>	0	0	0	0	0
5	<b>Chhattisgarh</b>	0	0	0	0	0
6	<b>Goa</b>	0	0	0	0	0
7	<b>Gujarat</b>	0	0	0	0	0
8	<b>Haryana</b>	0	0	0	0	0
9	<b>Himachal Pradesh</b>	1037	20	783	803	234
10	<b>Jammu &amp; Kashmir</b>	6811	509	5339	5849	963
11	<b>Jharkhand</b>	0	0	0	0	0
12	<b>Karnataka</b>	0	0	0	0	0
13	<b>Kerala</b>	0	0	0	0	0
14	<b>Madhya Pradesh</b>	0	0	0	0	0
15	<b>Maharashtra</b>	0	0	0	0	0
16	<b>Manipur</b>	891	0	851	851	40
17	<b>Meghalaya</b>	0	0	0	0	0
18	<b>Mizoram</b>	853	21	676	697	156
19	<b>Nagaland</b>	641	50	541	591	50
20	<b>Odisha</b>	0	0	0	0	0
21	<b>Punjab</b>	251	0	251	251	0
22	<b>Rajasthan</b>	3642	24	3537	3562	80
23	<b>Sikkim</b>	808	23	676	700	109
24	<b>Tamil Nadu</b>	0	0	0	0	0
25	<b>Telangana</b>	0	0	0	0	0
26	<b>Tripura</b>	12	0	0	0	12
27	<b>Uttarakhand</b>	719	0	539	539	180
28	<b>Uttar Pradesh</b>	0	0	0	0	0
29	<b>West Bengal</b>	122	0	122	122	0
30	<b>Andaman &amp; Nicobar Islands</b>	24	0	0	0	24
31	<b>UT Chandigarh</b>	0	0	0	0	0
32	<b>Dadra &amp; Nagar Haveli</b>	0	0	0	0	0
33	<b>Daman &amp; Diu</b>	0	0	0	0	0
34	<b>Delhi</b>	0	0	0	0	0
35	<b>Lakshadweep</b>	0	0	0	0	0
36	<b>Puducherry</b>	0	0	0	0	0
	<b>Total</b>	<b>19672</b>	<b>736</b>	<b>16814</b>	<b>17551</b>	<b>2121</b>

Source : DG Border Roads

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

**Length of Roads under coal fields/ coal units of Coal India Limited - By Type of Surface  
as on 31.03.2017 (State/UT-wise)**

(in km)

Sl. No.	Name of States/UTs (Names of Coal Fields)	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	<b>Andhra Pradesh</b>					
2	<b>Arunachal Pradesh</b>					
3	<b>Assam</b>					
	<b>i. North Eastern Coalfields, Margherita- Tinsukia</b>	51	2	42	44	7
4	<b>Bihar</b>					
5	<b>Chhattisgarh</b>					
	<b>i. South Eastern Coal Fields, Bilaspur</b>	801	76	692	768	33
6	<b>Goa</b>					
7	<b>Gujarat</b>					
8	<b>Haryana</b>					
9	<b>Himachal Pradesh</b>					
10	<b>Jammu &amp; Kashmir</b>					
11	<b>Jharkhand</b>					
	<b>i. Bharat Coking Coal Ltd., Dhanbad</b>	546	48	415	463	82
	<b>ii. Eastern Coal Fields Ltd.</b>	52	14	26	40	12
	<b>iii. Central Coal Fields, Ranchi</b>	697	41	646	687	10
12	<b>Karnataka</b>					
13	<b>Kerala</b>					
14	<b>Madhya Pradesh</b>					
	<b>i. Western Coal Fields</b>	207	11	196	207	0
	<b>ii. Northern Coal fields Ltd. Singrauli</b>	301	26	212	238	64
15	<b>Maharashtra</b>					
	<b>i. Western Coal Fields Ltd, Nagpur</b>	536	172	319	492	44

**Length of Roads under coal fields/ coal units of Coal India Limited - By Type of Surface  
as on 31.03.2017 (State/UT-wise)**

(in km)

Sl. No.	Name of States/UTs (Names of Coal Fields)	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
16	<b>Manipur</b>					
17	<b>Meghalaya</b>					
18	<b>Mizoram</b>					
19	<b>Nagaland</b>					
20	<b>Odisha</b>					
	<b>i. Mahanadi Coal Fields. Sambalpur</b>	315	96	200	297	18
21	<b>Punjab</b>					
22	<b>Rajasthan</b>					
23	<b>Sikkim</b>					
24	<b>Tamil Nadu</b>					
25	<b>Telangana</b>					
	<b>i. Singareni Coal field, Kothagudem, Bhadradri Dist.</b>	906	70	833	903	3
26	<b>Tripura</b>					
27	<b>Uttarakhand</b>					
28	<b>Uttar Pradesh</b>					
29	<b>West Bengal</b>					
	<b>i. Eastern Coalfields Limited, Burdwan</b>	284	32	234	266	18
30	<b>Andaman &amp; Nicobar Islands</b>					
31	<b>UT Chandigarh</b>					
32	<b>Dadra &amp; Nagar Haveli</b>					
33	<b>Daman &amp; Diu</b>					
34	<b>Delhi</b>					
35	<b>Lakshadweep</b>					
36	<b>Puducherry</b>					
<b>Total</b>		<b>4695</b>	<b>588</b>	<b>3816</b>	<b>4404</b>	<b>291</b>

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

Eastern Coal Fields are located in Jharkhand &amp; in West Bengal.

**Length of Roads under Electricity Departments of States/UTs - By Type of Surface in India  
as on 31.03.2017**

(in km)

S.No	Name of State/UT	Total Length (6+7)	Surfaced			Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
<b>1</b>	<b>2</b>	<b>6</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>7</b>
1	<b>Andhra Pradesh</b>	261	65	183	248	13
2	<b>Arunachal Pradesh</b>					1
3	<b>Assam</b>	113	21	77	98	15
4	<b>Bihar</b>	529	148	360	508	21
5	<b>Chhattisgarh</b>	169	27	140	167	2
6	<b>Goa</b>	0	0	0	0	0
7	<b>Gujarat</b>	449	234	206	440	9
8	<b>Haryana</b>	131	9	122	131	0
9	<b>Himachal Pradesh</b>	99	35	40	75	24
10	<b>Jammu &amp; Kashmir</b>	0	0	0	0	0
11	<b>Jharkhand</b>	181	26	153	179	2
12	<b>Karnataka *</b>	1,255	107	1,138	1,245	10
13	<b>Kerala</b>	252	47	186	233	19
14	<b>Madhya Pradesh</b>	1,127	421	652	1,073	55
15	<b>Maharashtra *</b>	343	183	124	307	36
16	<b>Manipur</b>	0	0	0	0	0
17	<b>Meghalaya</b>	132	6	111	117	15
18	<b>Mizoram *</b>	135	3	21	25	110
19	<b>Nagaland</b>	0	0	0	0	0
20	<b>Odisha *</b>	70	37	31	68	2
21	<b>Punjab</b>	449	28	393	421	28
22	<b>Rajasthan</b>	388	11	375	386	2
23	<b>Sikkim</b>	0	0	0	0	0
24	<b>Tamil Nadu</b>	837	239	523	762	75
25	<b>Telangana *</b>	128	22	89	111	17
26	<b>Tripura</b>	0	0	0	0	0
27	<b>Uttarakhand *</b>	164	4	143	147	17
28	<b>Uttar Pradesh</b>	23	0	18	18	5
29	<b>West Bengal</b>	216	8	161	169	47
30	<b>Andaman &amp; Nicobar Islands</b>	0	0	0	0	0
31	<b>UT Chandigarh</b>	0	0	0	0	0
32	<b>Dadra &amp; Nagar Haveli</b>	0	0	0	0	0
33	<b>Daman &amp; Diu</b>	0	0	0	0	0
34	<b>Delhi</b>	52	1	51	52	0
35	<b>Lakshadweep</b>	0	0	0	0	0
36	<b>Puducherry</b>	0	0	0	0	0
	<b>Total</b>	<b>7,505</b>	<b>1,682</b>	<b>5,297</b>	<b>6,979</b>	<b>525</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 31/03/2016-Data not received.

**Length of Roads under Irrigation Departments of States/UTs - By Type of Surface in India  
as on 31.03.2017**

S.No	Name of State/UT	Total Length (6+7)	Surfaced			(in km) Unsurfaced Total
			W.B.M.	B.T./C.C	Total (4+5)	
1	2	3	4	5	6	7
1	<b>Andhra Pradesh</b>	848	434	249	683	165
2	<b>Arunachal Pradesh</b>					
3	<b>Assam *</b>	1,531	51	10	61	1,470
4	<b>Bihar</b>					
5	<b>Chhattisgarh</b>	3,023	111	296	407	2,616
6	<b>Goa</b>	151	18	80	98	53
7	<b>Gujarat</b>	8,768	1,340	825	2,165	6,603
8	<b>Haryana</b>	0	0	0	0	0
9	<b>Himachal Pradesh</b>	0	0	0	0	0
10	<b>Jammu &amp; Kashmir *</b>	422	133	0	133	289
11	<b>Jharkhand</b>					
12	<b>Karnataka</b>	9,731	4,425	1,825	6,250	3,481
13	<b>Kerala *</b>	9,952	1,260	6,354	7,614	2,338
14	<b>Madhya Pradesh</b>	4,671	1,243	715	1,959	2,712
15	<b>Maharashtra</b>	7,234	1,804	1,017	2,821	4,413
16	<b>Manipur</b>					
17	<b>Meghalaya *</b>	180	6	7	14	166
18	<b>Mizoram</b>					
19	<b>Nagaland *</b>					
20	<b>Odisha</b>	17,387	4,429	3,113	7,542	9,845
21	<b>Punjab</b>	8,243	66	1,469	1,535	6,708
22	<b>Rajasthan *</b>	904	138	415	552	352
23	<b>Sikkim</b>					
24	<b>Tamil Nadu</b>	3,086	322	1,111	1,433	1,653
25	<b>Telangana *</b>	1,726	203	582	785	941
26	<b>Tripura</b>	82	0	9	9	72
27	<b>Uttarakhand *</b>	406	18	325	343	63
28	<b>Uttar Pradesh</b>	20,492	0	3,049	3,049	17,443
29	<b>West Bengal</b>	5,625	1,608	716	2,325	3,301
30	<b>Andaman &amp; Nicobar Islands</b>					
31	<b>UT Chandigarh</b>					
32	<b>Dadra &amp; Nagar Haveli</b>					
33	<b>Daman &amp; Diu</b>					
34	<b>Delhi</b>					
35	<b>Lakshadweep</b>					
36	<b>Puducherry</b>					
	<b>Total</b>	<b>1,04,462</b>	<b>17,610</b>	<b>22,169</b>	<b>39,779</b>	<b>64,684</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 31/03/2016-Data not received.

**Length of Roads under Sugarcane Departments of States/UTs - By Type of Surface in India  
as on 31.03.2017**

(in km)

<b>S.No</b>	<b>Name of State/UT</b>	<b>Total Length (6+7)</b>	<b>Surfaced</b>			<b>Unsurfaced</b>
			<b>W.B.M.</b>	<b>B.T./C.C</b>	<b>Total (4+5)</b>	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh</b>					
2	<b>Arunachal Pradesh</b>					
3	<b>Assam</b>					
4	<b>Bihar</b>					
5	<b>Chhattisgarh</b>					
6	<b>Goa</b>					
7	<b>Gujarat</b>					
8	<b>Haryana</b>					
9	<b>Himachal Pradesh</b>					
10	<b>Jammu &amp; Kashmir</b>					
11	<b>Jharkhand</b>					
12	<b>Karnataka</b>	108	0	0	0	108
13	<b>Kerala</b>					
14	<b>Madhya Pradesh</b>					
15	<b>Maharashtra</b>					
16	<b>Manipur</b>					
17	<b>Meghalaya</b>					
18	<b>Mizoram</b>					
19	<b>Nagaland</b>					
20	<b>Odisha</b>					
21	<b>Punjab</b>					
22	<b>Rajasthan</b>					
23	<b>Sikkim</b>					
24	<b>Tamil Nadu*</b>	1,676	0	1,676	1,676	0
25	<b>Telangana</b>					
26	<b>Tripura</b>					
27	<b>Uttarakhand</b>	4	0	4	4	0
28	<b>Uttar Pradesh</b>	13,069	0	9,555	9,555	3,514
29	<b>West Bengal</b>					
30	<b>Andaman &amp; Nicobar Islands</b>					
31	<b>UT Chandigarh</b>					
32	<b>Dadra &amp; Nagar Haveli</b>					
33	<b>Daman &amp; Diu</b>					
34	<b>Delhi</b>					
35	<b>Lakshadweep</b>					
36	<b>Puducherry</b>	41	5	28	33	8
	<b>Total</b>	<b>14,899</b>	<b>5</b>	<b>11,264</b>	<b>11,269</b>	<b>3,630</b>

Source : State Sugarcane Departments

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

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

**Length of Roads under SAIL & NMDC - By Type of Surface in India  
as on 31.03.2017**

S.No	Name of State/UT	Total Length (6+7)	Surfaced			(in km) Unsurfaced
			W.B.M.	B.T./C.C	Total (4+5)	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
1	<b>Andhra Pradesh*</b>	8	1	6	7	2
2	<b>Arunachal Pradesh</b>					
3	<b>Assam</b>					
4	<b>Bihar</b>					
5	<b>Chhattisgarh*</b>	877	11	830	840	37
6	<b>Goa</b>					
7	<b>Gujarat</b>					
8	<b>Haryana</b>					
9	<b>Himachal Pradesh</b>					
10	<b>Jammu &amp; Kashmir</b>					
11	<b>Jharkhand*</b>	551	12	491	502	49
12	<b>Karnataka*</b>	142	14	117	131	11
13	<b>Kerala</b>					
14	<b>Madhya Pradesh*</b>	33	10	12	22	10
15	<b>Maharashtra*</b>	18	3	8	11	7
16	<b>Manipur</b>					
17	<b>Meghalaya</b>					
18	<b>Mizoram</b>					
19	<b>Nagaland</b>					
20	<b>Odisha*</b>	484	13	453	465	19
21	<b>Punjab</b>					
22	<b>Rajasthan</b>					
23	<b>Sikkim</b>					
24	<b>Tamil Nadu*</b>	96	0	96	96	0
25	<b>Telangana</b>					
26	<b>Tripura</b>					
27	<b>Uttarakhand</b>					
28	<b>Uttar Pradesh</b>					
29	<b>West Bengal*</b>	630	30.4	584.91	615	14.3
30	<b>Andaman &amp; Nicobar Islands</b>					
31	<b>UT Chandigarh</b>					
32	<b>Dadra &amp; Nagar Haveli</b>					
33	<b>Daman &amp; Diu</b>					
34	<b>Delhi</b>					
35	<b>Lakshadweep</b>					
36	<b>Puducherry</b>					
	<b>Total</b>	<b>2,839</b>	<b>94</b>	<b>2,596</b>	<b>2,690</b>	<b>149</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.

# **Section - 8**

## **MISCELLANEOUS**

**State/UT-wise details of NHs in country  
as on 31.03.2017**

<b>Sl. No.</b>	<b>Name of State</b>	<b>National Highway No.</b>	<b>Total Length (in km)</b>
1	<b>Andhra Pradesh</b>	4, 5, 7, 9, 16, 18, 18A, 26 New, 42 New, 63, 163 New, 67 Ext. New, 150 New, 167 New, 167A New, 167B New, 205, 214, 214A, 219, 221, 222, 234, 326 New, 326A New, 67 New, 71 New, 161 New, 340 New, 340C New, 353 New, 363 New, 365 New, 365B New, 516D New, 516E New, 544D New, 563 New, 565 New, 716 New, 765 New	6,468
2	<b>Arunachal Pradesh</b>	52, 52A, 153, 229, 52B Ext, 37 Ext., 315A New, 713 New, 513 New, 313 New, 113 New & 713A New	2,513
3	<b>Assam</b>	6 New, 31, 31B, 31C, 36, 37, 37A, 38, 39, 44, 51, 52, 52A, 52B, 53, 54, 61, 62, 117A New, 127B New, 127E New, 151, 152, 153, 154, 315A New, 127C New & 127D New, 208A New, 329 New, 329A New, 427 New, 627 New, 702 New, 702B New, 702C New 702D, 715A New	3,845
4	<b>Bihar</b>	2, 2C, 19, 20Ext New 28, 28A, 28B, 30, 30A, 31, 57, 57A, 77, 80, 81, 82, 83, 84, 85, 98, 99, 101, 102, 103, 104, 105, 106, 107, 110, 120 New, 122A New, 131A New, 133 New, 133B New, 219 New, 227 A New, 327A New, 327 Ext. New, 333 New, 333A New, 333B New, 527A New, 527C New, 727 A New, 766C New, 120 New	4,839
5	<b>Chandigarh</b>	5 New	15
6	<b>Chhattisgarh</b>	6, 12A, 16, 43, 45Ext New, 78, 111, 130A New, 130B New, 130C New, 130D New, 149B New, 163A New, 200, 202, 216, 217, 221, 343 New, 930New	3,232
7	<b>Delhi</b>	9 New, 19 New, 44 New, 48 New, 148 New	69
8	<b>Goa</b>	748 New, 66 New, 366 New & 566 New	262
9	<b>Gujarat</b>	NE-I, 6, 8, 8A, 8B, 8C, 8D, 8E, 14, 15, 56 New, 58 New, 58 Ext New, 59, 113 228, 251 New, 753B New, 848 & 848A New, 848B New, 341 New, 68Ext. New, 147 New, 147A New, 168 New, 168A New, 351 New, 927D New & 953 New	5,017
10	<b>Haryana</b>	1, 2, 8, 10, 11 New, 21A, 22, 54 New, 64, 65, 71, 71A, 72, 73, 73A , 71B, 148B New, 236, 248 A New, 254 New, 334B New, 352A, 444A New, 703 New, 709 Ext New, 709A New, NE-II	2,622
11	<b>Himachal Pradesh</b>	1A, 3 New, 20, 20A, 21, 21A, 22, 70, 72, 72B, 88, 73A , 154A New, 305 New, 503 New, 503A New, 503 Ext. New, 505 New, 505A New705 New, 907 A New	2,642
12	<b>Jammu &amp; Kashmir</b>	1A, 1B, 1C, 1D, 3 New, 144 New, 144A New, 301 New, 444 New, 501 New, 701 New, 244 New	2,601
13	<b>Jharkhand</b>	2, 6, 20 Ext New, 23, 31, 32, 33, 43 New, 75, 78, 80, 98, 99, 100, 114A New, 133 New, 133A New, 133B New, 143 New, 143A New, 220 New, 333 New, 333A New, 343 New & 419 New	2,654
14	<b>Karnataka</b>	4, 4A, 7, 9, 13, 17, 48, 50 New, 63, 67, 67 New, 150 New, 150 Ext. New, 150A New, 160 New, 161A New, 166E New, 167 New, 169A New, 173 New, 206, 207, 209, 212, 218, 234, 275 New, 367 New, 548B New, 561A New, 752K New, 766C New	6,761
15	<b>Kerala</b>	17, 47, 47A, 47C, 49, 183A New, 185 New, 208, 212, 213, 220	1,812
16	<b>Madhya Pradesh</b>	3, 7, 12, 12A, 25, 26, 26A, 26B, 27 New, 34 New, 43Ext. New, 45 Ext. New, 56 New, 59, 59A, 69, 69A, 75, 76, 78, 86, 92, 135B New, 146B New, 161G New, 339B New, 346 New, 347A New, 347B New, 347C New, 543 New, 548C New, 552Ext. New, 752B New, 752C New, 752G New, 753L New, 927A New, 943 New	7,864

**Annexure 8.1 (contd.)**

17	<b>Maharashtra</b>	3, 4, 4B, 4C, 6, 7, 8, 9, 13, 16, 17, 26B, 50, 50New, 63 New, 69, 130D New, 150 Ext. New, 161 New, 161A New, 161E New, 161G New, 161H New, 204, 211, 222, 247 New, 348 New, 848 New, 160 New, 166 New, 166A New, 166E New, 266 New, 339B New, 347A New, 347C, 348 New, 348A New, 353B New, 353C New, 353D New, 353E New, 353I New, 353J New, 353K New, 361 New, 361B New, 361C New, 363 New, 361H New, 516A New, 543 New, 547E New, 548 New, 548A New, 548B New, 548C New, 548CC New, 548D New, 548E New, 561 New, 752E New, 752G New, 752H New, 752I New, 752K New, 753 New, 753A New, 753B New, 753E New, 753F New, 753J New, 753L New, 753M New, 848A, 930 New, 930D New, 953 New, 965 New, 965C New, 965G New	15,437
18	<b>Manipur</b>	39, 53, 102 New, 102A New, 102B New, 102 C New, 129A new, 108A New, 129 New, 137 New, 137A New, 150, 155, 702A New	1,746
19	<b>Meghalaya</b>	40, 44, 217 New & 127B New	1,204
20	<b>Mizoram</b>	6 New, 44A, 54, 54A, 54B, 102B New, 150, 154, 302 New, 306 A New, 502A New	1,381
21	<b>Nagaland</b>	36, 39, 61, 150, 155, 129 New, 229 New, 329A New, 702 New, 702A New & 702B New, 702D New	1,173
22	<b>Odisha</b>	5, 5A, 6, 20 New, 23, 43, 55 New, 60, 130C New, 153B New, 157 New, 200, 201, 203, 203A, 215, 217, 220 New, 224, 326 New, 326 A New	4,838
23	<b>Puducherry</b>	45A, 66	64
24	<b>Punjab</b>	1, 1A, 10, 15, 20, 21, 22, 64, 70, 71, 72, 95, 103 A New, 154A New, 205A New, 254 New, 344A New, 344B New, 503 Ext. New , 503A New, 703 New 703A New, 754 New & 148B New	2,769
25	<b>Rajasthan</b>	3, 11New, 123 New, 8, 11, 11A, 11B, 11C, 12, 14, 15, 25 Ext. New, 54 New, 65, 458 New, 71B, 76, 58 Ext New, 758 New, 79, 79A, 89, 90, 113, 112, 114 , 116,148B New,148D New, 158 New, 162A New, 162 Ext. New, 168 New, 168A New, 248A New, 325 New, 709 Ext. New, 927A New	7,906
26	<b>Sikkim</b>	10 New, 310 New, 310A New, 510 New, 710 New, 717A New, 717B New	463
27	<b>Tamil Nadu</b>	4, 5, 7, 7A, 45, 45A, 45B, 45C, 46, 47, 47B, 49, 66, 67, 68, 205, 207, 208, 209, 210, 219, 220, 226, 226Ext., 227, 230, 234, 381 New, 532 New	5,006
28	<b>Telangana</b>	7, 9, 16, 63 New, 221, 216A New, 222, 326 New, 161 New, 161B New, 163 New, 167 New, 150 New, 353B New, 363 New, 365 New, 365B New, 565 New, 765 New, 50 New, 563 New, 365A New	3,395
29	<b>Tripura</b>	8 New, 108 New, 108A New, 208 New, 208A New, 108B New	806
31	<b>Uttar Pradesh</b>	2, 2A, 3, 123 New (3A Old), 7, 11, 12A, 19, 21 New, 24, 24A, 24B, 25, 25A, 26, 27, 28, 28B, 28C, 29, 34 New, 56, 56A, 56B, 58, 72A, 73, 74, 75, 76, 86, 87, 91, 91A, 92, 93 ,96, 97 , 119, 135B New, 219 New, 227 A New, 231, 232, 232A, 233, 235, 330 New, 330A New, 330 B New, 334 New, 334B New, 334C New, 552 Ext. New, 709 A New, 727 A New, 730 New, 730A New, 731 A New, 931 New, 931A New & NE-II	8,701
30	<b>Uttarakhand</b>	9 New, 34 New, 58, 72, 72A, 72B, 73, 74, 87, 94,107A New, 108, 109, 123, 119, 121 , 125, 309A New, 309B New, 334A, 707A New	2,714
32	<b>West Bengal</b>	2, 2B, 6, 10 New, 31, 31A, 31C, 31D, 32, 34, 35, 41, 55, 60, 60A, 80, 81, 114A New, 116B New, 117, 131A New, 133A New, 317A New, 327B, 419 New, 512 New, 717 New.	2,956
33	<b>A &amp; N Islands</b>	4 New	331
34	<b>Dadra &amp; Nagar Haveli</b>	848A New	31
35	<b>Daman &amp; Diu</b>	848B New, 251 New	22
		<b>Total</b>	<b>114,158</b>

## TERMS AND DEFINITIONS

<b>Sl. No.</b>	<b>Terms</b>	<b>Definitions</b>
<b>A. ROADS</b>		
1.	<b>Track</b>	A path on the land much trodden by persons and animals.
2.	<b>Cart Track</b>	A land way for use by carts.
3.	<b>Road</b>	A way on land with a right of way for the public.
4.	<b>Urban Road</b>	A road within the limits of the area of Municipality, Military Cantonment, Port or Railway Authority.
5.	<b>Project Road</b>	A road within the limits of the area of a development project of a public authority for the exploitation of resources such as forest, irrigation, electricity, coal, sugarcane, steel, etc.
<b>B. HIGHWAY CLASSES BY FUNCTION</b>		
1.	<b>Expressways</b>	Expressways offer superior highway facility with higher specifications. It provides for more lanes, better surface, divided carriageway, controlled access grade separations at cross-roads and fencing etc. Expressways permits only fast moving vehicles and are meant to carry through traffic. The Expressway may be owned by the Central Government or State Government depending upon whether the route is a National Highway or a State Road.
2.	<b>National Highways</b>	The arterial roads of the country for inter-state movements of goods and passengers. They traverse the length and width of the country connecting the National and State capitals, major ports and rail junctions and link up with border roads and foreign highways.
3.	<b>State Highways</b>	The arterial roads in a State for inter-district movements. They traverse the length and width of a state connecting the state capital, district headquarters and important towns and cities and link up with the National Highways and adjacent State Highways.
4.	<b>District Roads</b>	The branch roads of the State and National Highways to serve as the main roads for intra-district movements. They traverse the length and breadth of a district to connect the area of production and marketing in the district to one another and to the National Highways.
5.	<b>Village Roads</b>	These roads serve as the feeder roads as well as the roads for inter village movements. They pass through rural areas connecting the village to one another and to the nearest road of higher category viz. District Roads, State Highways, National Highways, etc.

## TERMS AND DEFINITIONS

<b>C. HIGHWAY CLASSES BY WIDTH</b>		
1.	<b>Below Standard Single Lane(BSSL)</b>	Surfaced roads having clear carriageway width of below 3.75 M.
2.	<b>Standard Single Lane(SSL)</b>	Surfaced roads having clear carriageway width between 3.75 M and below 7.0 M.
3.	<b>Standard Double Lane (SDL)</b>	Surfaced roads having clear carriageway width between 7.0 M and below 10.5 M.
4.	<b>Standard Multi Lane (SML)</b>	Surfaced roads having clear carriageway width of 10.5 M and above.
<b>D. ROAD SURFACE</b>		
1.	<b>Bitumen or Tar Macadam</b>	A type of construction in which the fragments of coarse aggregate are bound together by bitumen applied either premix or grouting method.
2.	<b>Bitumen Concrete Surfacing</b>	A type of construction in which coarse and fine mineral aggregates are mixed with bitumen and laid not to the desired thickness.
3.	<b>Black Top Surface</b>	The surface of roads made with bitumen as a binder.
4.	<b>Brick Paving</b>	A paving composed of bricks laid in regular courses.
5.	<b>Cement Bound Macadam</b>	A surface in which a matrix of a cement sand mixture is interposed between two layers of road metal spread on the road and the whole mass watered and consolidated so that the matter works into the interstices of the road metal to produce a compact mass.
6.	<b>Cement Concrete</b>	A surface obtained by placing and consolidating cement concrete to required thickness.
7.	<b>Earth Road</b>	A road with the carriageway composed of natural soil.
8.	<b>Gravel Road</b>	A road with the carriageway composed of a consolidated layer of gravel.
9.	<b>Water Bound Macadam</b>	A type of surfacing in which stone fragments are first inter locked by rolling and then bound with smaller stone gravel etc. which enforced into the intersection by brimming, watering and rolling.
10.	<b>Motorable</b>	<ul style="list-style-type: none"> <li>(i) For Plain Areas: Surfaced or unsurfaced road of minimum 3.0 M Carriageway width is motorable.</li> <li>(ii) For Hilly Areas: Surfaced or unsurfaced road of minimum 3.0 M Carriageway width having no horizontal curve of radii less than 14 M and grade not steeper than 7% is motorable. A bridle path is non motorable.</li> </ul>



सत्यमेव जयते

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