

BASIC ROAD STATISTICS OF INDIA 2015-16



सत्यमेव जयते

**GOVERNMENT OF INDIA
MINISTRY OF ROAD TRANSPORT AND HIGHWAYS
TRANSPORT RESEARCH WING
NEW DELHI
www.morth.nic.in**

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Foreword

A good road network is a critical infrastructure requirement for rapid growth of the economy – providing connectivity to remote areas; opening up of backward regions and ensuring accessibility to markets, trade and investment. Increasingly, roads are not looked at in isolation, but as part of an integrated multi-modal system of transport establishing links with airports, railway stations, ports and logistic hubs.

India's road network length was 56.03 lakh km as on 31.03.2016. The country's road network comprises of national highways, state highways, district roads, rural roads, urban roads and project roads.

The Ministry of Road Transport & Highways is responsible for the development & maintenance of road network of national highways. There has been consistent increase in the budgetary allocations for construction & maintenance of roads in the recent years. Further, through a pro-active sector policy - leveraging both public and private funding; increased assistance to State PWDs; changes in delegation of authorities; enhanced use of e-technology; continuous and systematic monitoring, etc., efforts are being made to hasten the pace of construction of highways.

The Ministry has undertaken a detailed review of NH network during the last two-three years, with a view to developing the road connectivity to Border areas, development of coastal roads including road connectivity for minor ports, development & improvement in the efficiency of national corridors, economic corridors and feeder routes under the Bharatmala Pariyojana.

The present issue of "Basic Road Statistics of India" contains comprehensive information on the total road network of the country as on 31st March 2016. In view of the importance of the road network of a country, disaggregated State/ UT-wise data, on each of the categories of roads constructed by different agencies is essential. The data would assist in policy, planning and investment decisions.

I hope this publication would be 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 deeply appreciated.


(Yudhvir Singh Malik)

New Delhi
December, 2017



सत्यमेव जयते

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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, 2015-16 provides detailed State/UT-wise (by type of surface) data on various categories of roads at national, state, district and local levels (municipal and panchayat). As per the report the stock of India's road network was 56.03 lakh kms as on 31.03.2016.

In addition to above, a write up on recent initiatives taken by Ministry of Road Transport & Highways for expansion in road network; data on plan outlay and expenditure incurred by the Ministry and a chapter on international comparison of road networks has been provided in this publication. The detailed information is presented in nine sections of the publication.

I would like to thank all the departments and agencies of Central and State governments for furnishing data to the Transport Research Wing. The officers and staff of the Transport Research Wing deserve special mention, for the considerable effort put in by them, leading to the finalisation of the publication.

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

Kirti Saxena
(Kirti Saxena)

New Delhi
December, 2017

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EXECUTIVE SUMMARY

A good road network is a critical infrastructure requirement for rapid growth of the economy. Roads should not be looked at in isolation but as 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 railways' 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 1,01,011 km as on 31.03.2016.

5. India's road network as on **31.03.2016** was **56.03 lakh km**. The break-up category-wise is given below :

| Category of Road | Length of Roads (km) |
|-------------------------|----------------------|
| National Highways (NHs) | 1,01,011 |
| State Highways (SHs) | 1,76,166 |
| District Roads | 5,61,940 |
| Rural Roads | 39,35,337 |
| Urban Roads | 5,09,730 |
| Project Roads | 3,19,109 |
| Total | 56,03,293 |

6. As on 31st March 2016, India's road density at 170 km of roads per 100 sq km was higher than that of Japan (0.91 km/ sq km), USA (0.68 km/ sq km), China (0.47 km/ sq. km), Brazil (0.18 km/sq.km) and Russian Federation (0.08 km/ sq km).

7. Adjusted for its large population, India has approximately 4.63 km of roads per 1000 people (Census 2011).

8. The paved/surfaced road length in India was 62.5 per cent of the total road length which was lower as compared to United Kingdom (100.00), Korea (84.9) and Russian Federation (70.60). NHs in India, which accounted for 1.76 % of the total length as on 31st March, 2016 was much lower than that of some of the developed countries of the world such as Japan, Korea Republic, UK and Brazil.

Section – 1

Overview of Road Network in India

1.1 As on 31.3.2016 the existing stock of road length in India was 56.03 lakh kms. The road network of the country consists of National Highways (NH), State Highways (SH) District Roads, Rural Roads, Urban Roads and Project Roads. The development and maintenance of roads in India are undertaken by various agencies of both Central and State governments. State PWDs, National Highways Authority of India Ltd., Border Roads Organisation, National Highway Infrastructure Development Corporation Ltd. (NHIDCL), National Rural Road Development Agency (NRRDA) are the main agencies. The Ministry of Road Transport & Highways is primarily responsible for the development and maintenance of National Highways. All roads other than the National Highways are with the State Governments.

1.2 Table 1.1 shows the progress of road length under different categories during the period 31st March, 1951 to 31st March, 2016.

Table 1.1: Road Network by Categories (in kilometres) – 1950-51 to 2015-16

| Road Category | 1950-51 | 1960-61 | 1970-71 | 1980-81 | 1990-91 | 2000-01 | 2010-11 | 2013-14 | 2014-15 | 2015-16 |
|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| National Highways | 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) |
| State Highways | ^ | ^ | 56765 (6.20) | 94359 (6.35) | 127311 (5.47) | 132100 (3.92) | 163898 (3.50) | 170818 (3.16) | 167109 (3.05) | 176166 (3.14) |
| District Roads | 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) |
| Rural Roads | 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) |
| Urban Roads | 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) |
| Project Roads | 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) |
| Total | 3,99,942 | 5,24,478 | 9,14,979 | 14,85,421 | 23,27,362 | 33,73,520 | 46,76,838 | 54,02,486 | 54,72,144 | 56,03,293 |

Note: Total includes 9 lakh Km of Rural roads constructed under JawaharRozgarYojana)

Figures in parenthesis indicate percent to total road length.

1.3 The total road length of the country increased significantly from 3.99 lakh km in 1951 to 56.03 lakh km in 2016, growing at a Compound Annual Growth Rate (CAGR) of 4.1% during the year 1951 to 2016. The long run trend of growth in road length for the period 1951-2016 is depicted in Chart 1.1 and CAGR for 1951-2016, along with decadal CAGRs, are given in Table 1.2.

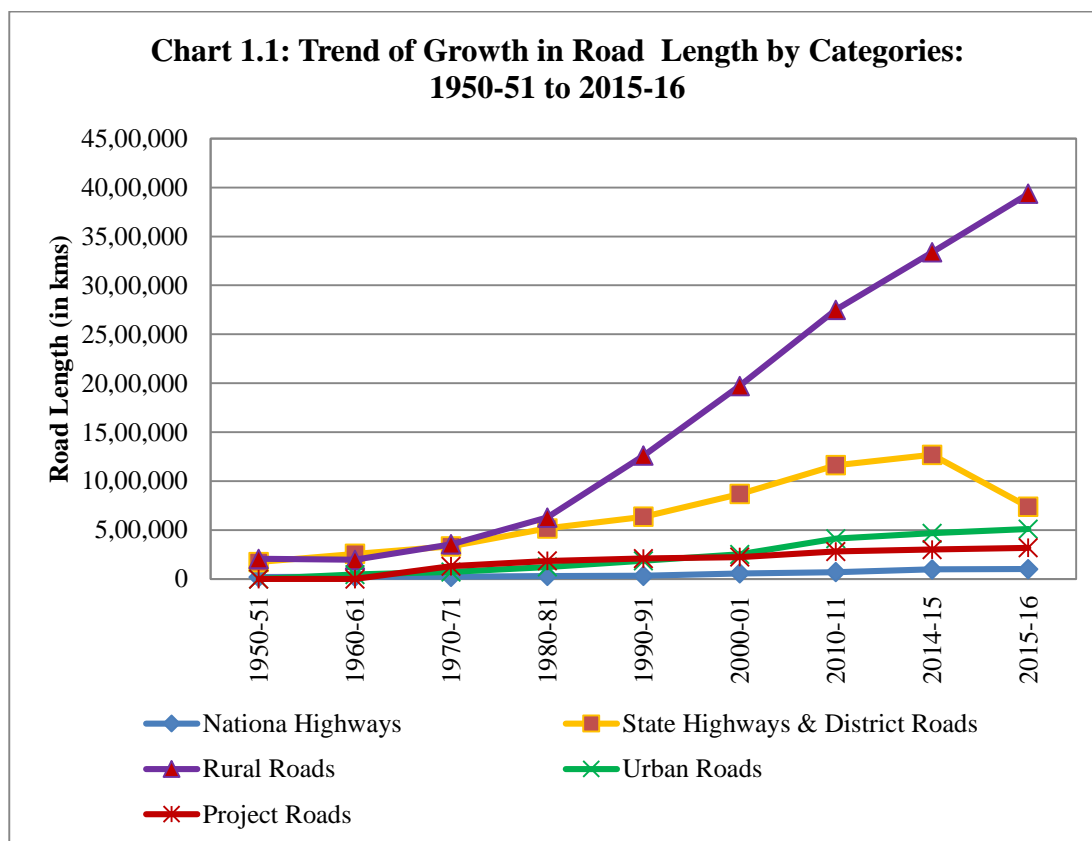


Table 1.2 CAGR (in %) of Road Networks -1951 to 2016

| Period | NHs | SHs & District Roads | Rural Roads | Urban Roads | Project Roads | Total |
|-----------|-----|----------------------|-------------|-------------|---------------|-------|
| 2016/1951 | 2.5 | 3.2 | 4.4 | | | 4.1 |
| 1961/1951 | 1.9 | 4 | -0.5 | | | 2.7 |
| 1971/1961 | 0 | 2.6 | 6 | 4.5 | | 5.7 |
| 1981/1971 | 2.9 | 4.5 | 5.9 | 5.5 | 2.1 | 5 |
| 1991/1981 | 0.6 | 2.1 | 7.2 | 4.3 | 1.2 | 4.6 |
| 2001/1991 | 5.5 | 3.1 | 4.6 | 3 | 0.6 | 3.8 |
| 2014/2004 | 3.4 | 3.9 | 4.4 | 4.3 | 1.3 | 4.1 |
| 2015/2005 | 4.1 | 3.1 | 3.9 | 5 | 1.5 | 3.7 |
| 2016/2006 | 4.3 | * | * | 5.7 | 2.0 | 3.7 |

* Note: During the year 2015-16 Other PWD Road (OPWD) category 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

1.4 Decadal analysis

During the decade, 2005-06 to 2015-16, the highest CAGR was that of urban roads (5.7%) followed by rural roads (5.5%), NH (4.3%) and project roads (2.0%). As seen from Table 1.1 while the length of national Highways was 70,934 kms in 2010-2011 it increased rapidly to 101011 kms in 2015-16. The proactive policy steps, leveraging of private and public Investment, innovative financing models, have resulted in increase in pace of NH development in recent years. The Table 1.3 on Investment in National Highways shows that the combined public and private investment increased by over 7 times during the decade 2005-06 to 2015-16. The CAGR of Investment during the period 2005-06 to 2015-16 is 21.52%. The details of allocation of fund and expenditure is at **Annexure 8.1**

Table 1.3 Investment in Highways in both Public and private 2005-06 to 2016-17 (in Crores)

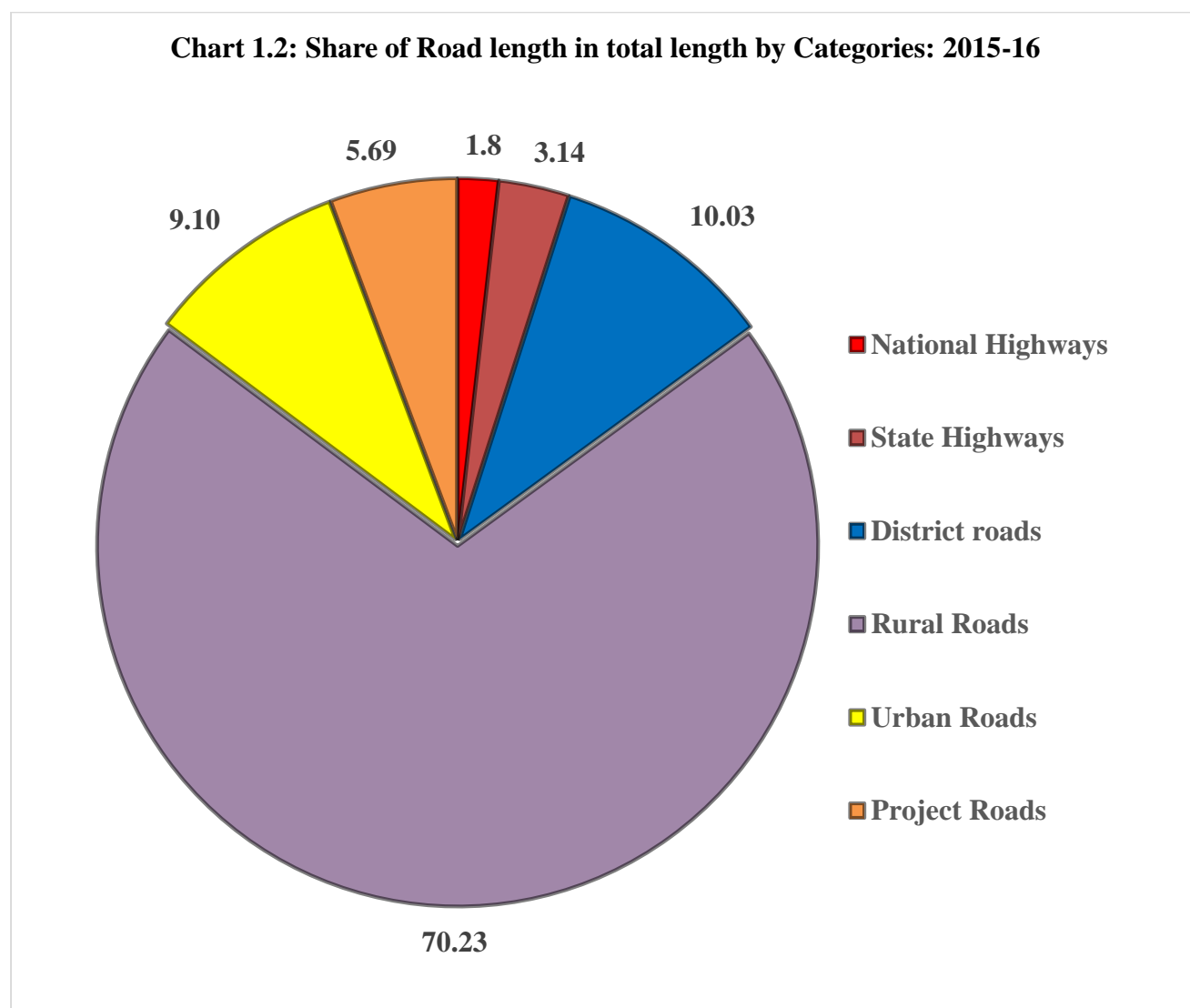
| Sl. No. | Year | Expenditure | | |
|------------------------|---------|---------------------------|--------------------------|------------------|
| | | Private Sector Investment | Public Sector Investment | Total |
| (1) | (2) | (3) | (4) | (9) |
| 1 | 2005-06 | 649.08(4.60) | 13,446.79(95.40) | 14,095.87 |
| 2 | 2006-07 | 1,578.28(8.92) | 16,116.59(91.08) | 17,694.87 |
| 3 | 2007-08 | 7,062.40(30.25) | 16,281.22(69.75) | 23,343.62 |
| 4 | 2008-09 | 8,184.73(29.06) | 19,983.24(70.94) | 28,167.97 |
| 5 | 2009-10 | 8,572.54(30.36) | 19,661.87(69.64) | 28,234.41 |
| 6 | 2010-11 | 15,354.37(36.13) | 27,140.50(63.87) | 42,494.87 |
| 7 | 2011-12 | 25,998.56(41.97) | 35,951.71(58.03) | 61,950.27 |
| 8 | 2012-13 | 20,304.66(42.70) | 27,245.53(57.30) | 47,550.19 |
| 9 | 2013-14 | 22,515.05(38.07) | 36,619.48(61.93) | 59,134.53 |
| 10 | 2014-15 | 19,232.44(35.01) | 35,702.27(64.99) | 54,934.71 |
| 11 | 2015-16 | 29,770.00(30.07) | 69,218.06(69.93) | 98,988.06 |
| CAGR(2015-2016) | | | | 21.52 |

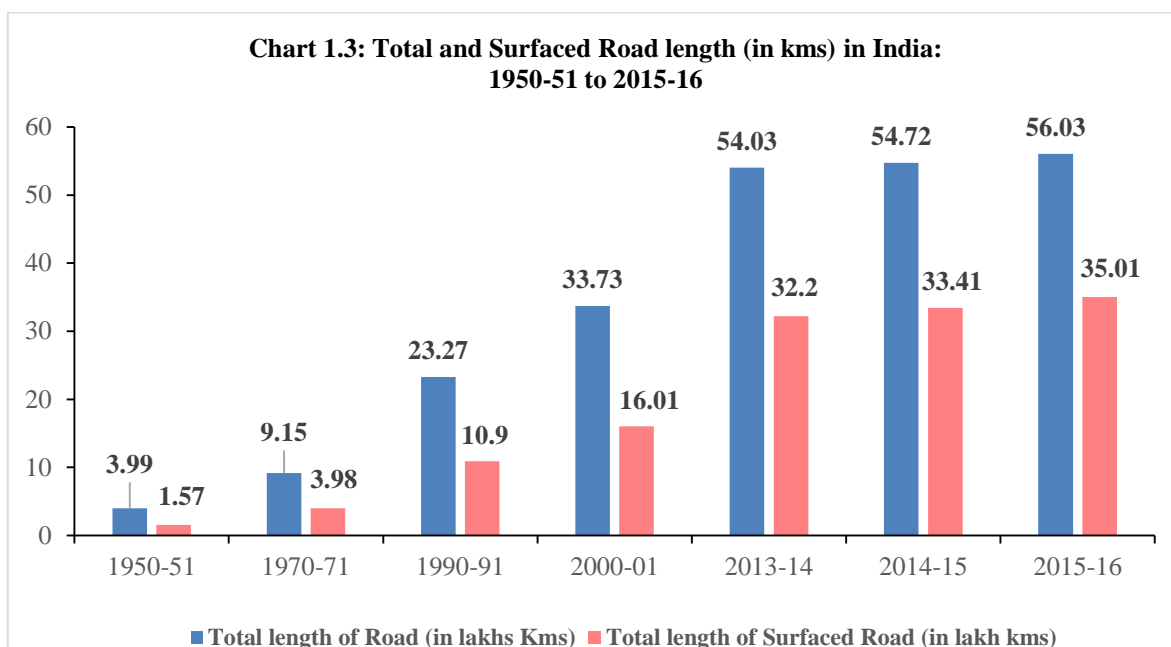
Source: Calculation based on the Expenditure statement of Roads Wing (Annexure 8.1 at the end of the Report)

1.5 Along with the increase in the total road length the paved/ surfaced road length too increased. The latter grew from 1.57 lakh kms as on 31st March 1951 to 35.01 lakh kms as on 31st March 2016. Surfaced roads formed 39.26% of the total road length as on 31st March, 1951 which increased to 62.5% as on 31st March, 2016

Details of Road Length and Road Categories – 2015-16

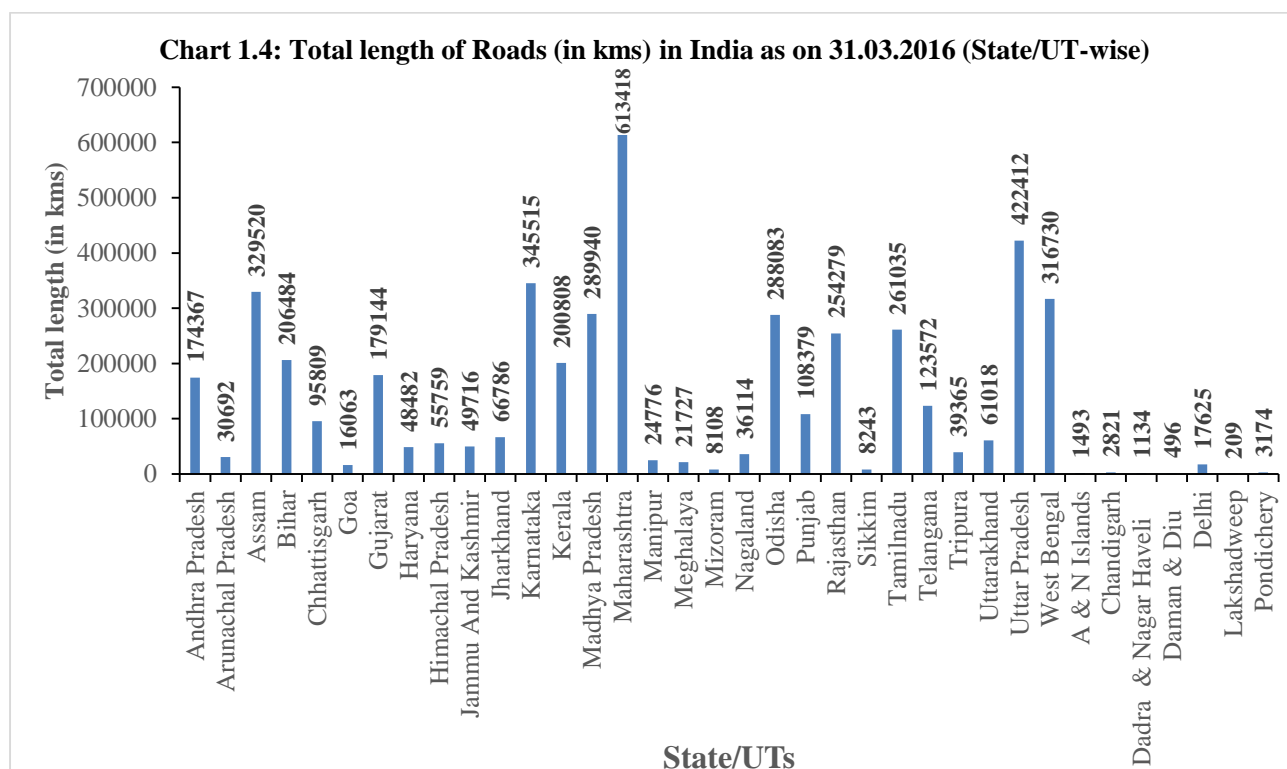
1.6As seen from Table 1.1, the share of rural roads was the highest in the total road length (70.23%) followed by District roads (10.03%) and Urban roads (9.10%). This can be seen from chart 1.2 below





1.7 The State wise break up shows that Maharashtra (613418 Km) accounted for the largest share (13.04%) in total network of roads for the year up to the period 31st March 2016 excluding JRY roads, followed by Uttar Pradesh (8.98%), Karnataka (7.35%), Assam (7.01%) and West Bengal (6.73%)(Chart 1.4). The State wise details are at Annexure 1.3

1.8 The five states with the largest road networks (excluding Jawahar Rozgar Yojana roads), viz. Maharashtra, Uttar Pradesh, Karnataka, Assam and West Bengal accounted for about a share of 43.11% of total road length of the country, as given in Chart 1.4

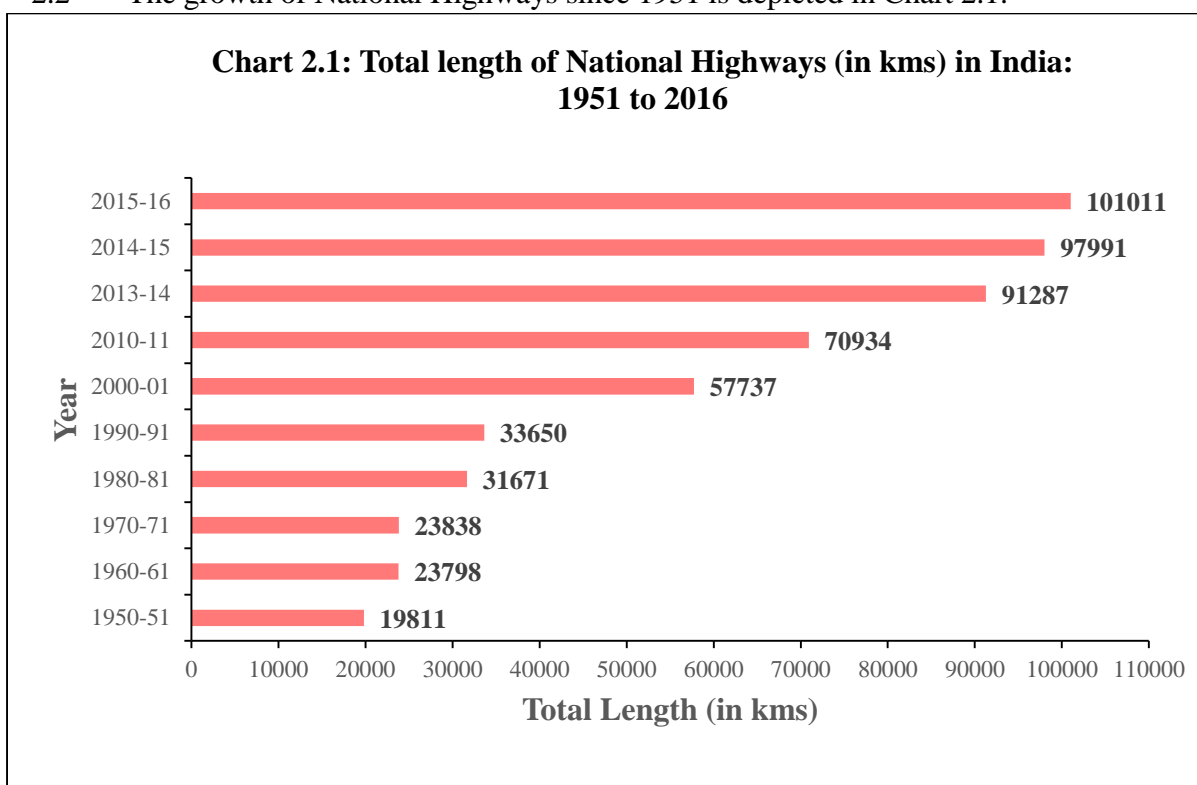


Section – 2

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 list of State-wise National Highways in the country as on 31.03.2016 is at Table 2.2 at the end of the Chapter.

2.2 The growth of National Highways since 1951 is depicted in Chart 2.1.



2.3 Totalling at 101011 kms. as on 31.03.2016, National Highways comprised of 1.80 % of total road network in the country. All NHs are surfaced.

2.4 As on 31st March 2016, two-lane NHs constituted the largest share of NHs, i.e. 55.05% in the total length of NHs. This was followed by four lane & above NHs (comprising of 24.46% of the total length of NH). The share of less than two lane NHs during 2015-16 was 20.49%(Table 2.1).

Table 2.1: Lane-wise Break-up of National Highways - 2014-2015; &2015-16

| Number of Lanes | As on 31 st March, 2015 | As on 31 st March, 2016 |
|--------------------|------------------------------------|------------------------------------|
| Less than Two Lane | 31,089 (31.73) | 20,703 (20.49) |
| Two –Lane | 45,701 (46.64) | 55,603 (55.05) |
| Four- Lane & Above | 21,201 (21.63) | 24,705 (24.46) |
| Total | 97,991 (100) | 1,01,011 (100) |

(Figures in parentheses are proportion of total length of NHs)

2.5 From the Table 2.1, it is seen that the length of NHs was 97991 km as on 31.03.2015. It increased by 3.08% to 101011 km as on 31.3.2016. Compared to 2014-15 the less than two lane NH have decreased in 2015-16. However, there has been 21.6% increase in the two lane NH and 16.53% increase in the four lane above NH over previous year.

2.6 Uttar Pradesh accounted for the largest share (8.4%) in the total length of NHs as on 31st March 2016, followed by Rajasthan (7.8%), Maharashtra (7.4%), Karnataka (6.4%) and Andhra Pradesh (5.4%). These five States accounted for about 35.4% of the total road length of NHs. This is illustrated in chart 2.2. [State/UT wise details are at Annexures 2.1 and 2.2].

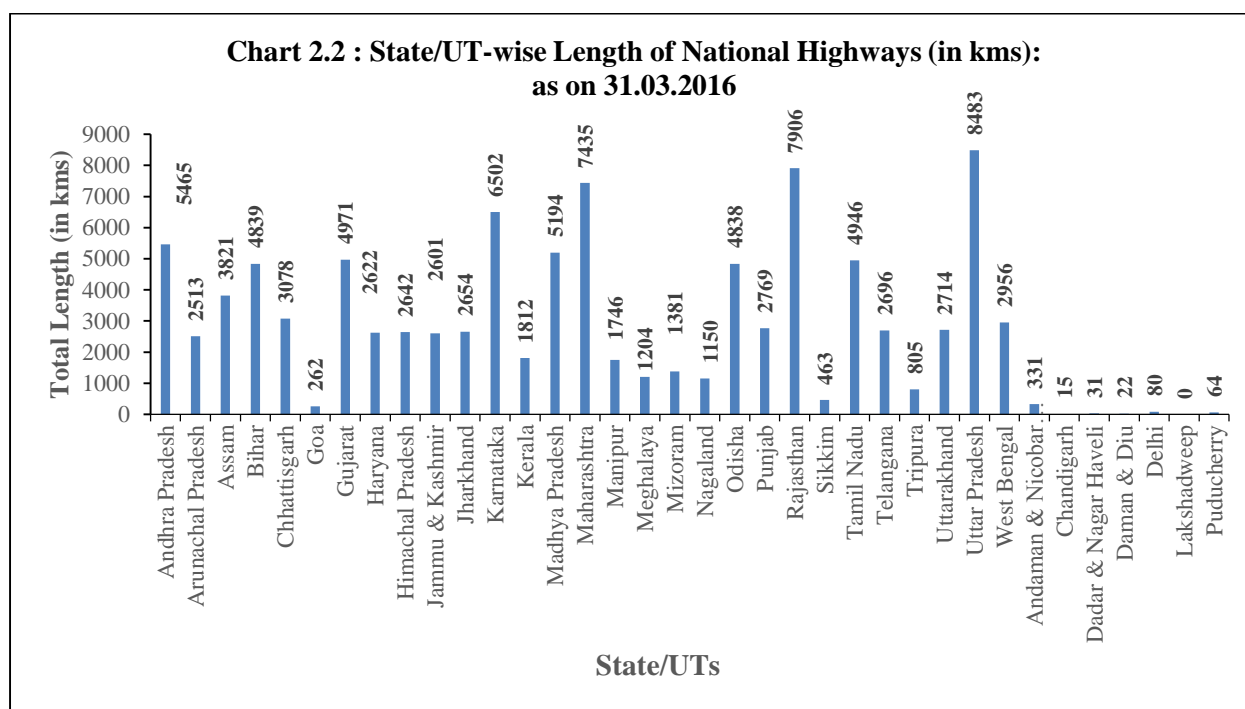


Table 2.2**LIST OF STATE-WISE NATIONAL HIGHWAYS IN THE COUNTRY AS ON 31.03.2016**

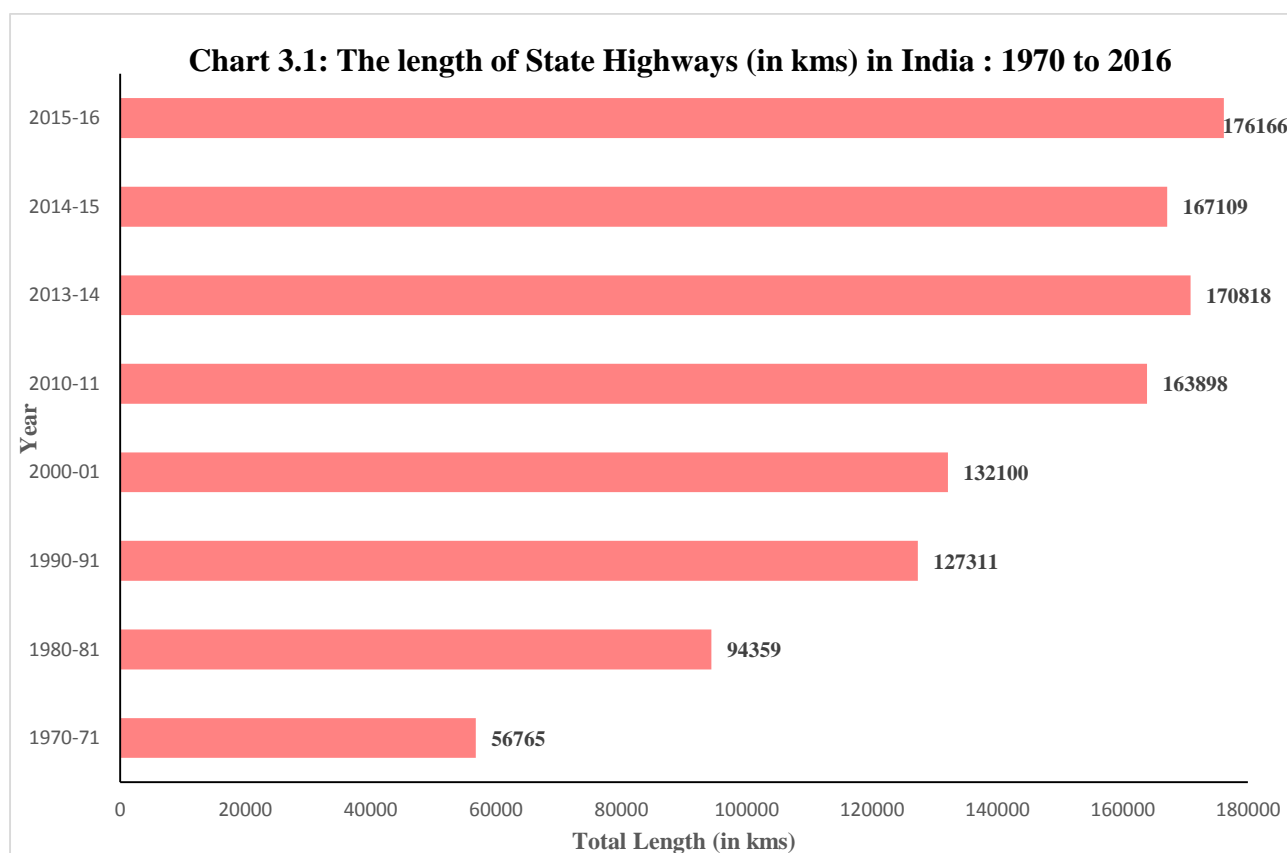
| Sl. No. | Name of State | National Highway No. | Total Length (in km) |
|----------------|----------------------|--|-----------------------------|
| 1 | Andhra Pradesh | 4, 5, 7, 9, 16, 18, 18A, 42 New, 43, 63, 67Ext. New, 150 New, 167 New, 202, 205, 214, 214A, 216, 219, 221, 222, 234, 326, 326A, 67 New, 71 New, 161 New, 340 New, 340C New, 353 New, 363 New, 365 New, 544D New, 563 New, 565 New, 765 New | 5,465 |
| 2 | Arunachal Pradesh | 52, 52A, 153, 229, 52B Ext, 37 Ext., 315A, 713 New, 513 New, 313 New, 113 New & 713A New | 2,513 |
| 3 | Assam | 6 New, 31, 31B, 31C, 36, 37, 37A, 37E, 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, 427 New, 627 New, 702 New, 702B New, 702C New 702D & 715A New | 3,821 |
| 4 | Bihar | 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, & 120 New | 4,839 |
| 5 | Chandigarh | 21 | 15 |
| 6 | Chhattisgarh | 6, 12A, 16, 43, 78, 111, 130A New, 130B New, 130C New, 130D New, 149B New, 163A New, 200, 202, 216, 217, 221, 343 New, 930New | 3,078 |
| 7 | Delhi | 1, 2, 8, 10, 24 & 236 | 80 |
| 8 | Goa | 4A, 17, 17A & 17B | 262 |
| 9 | Gujarat | NE-I, 6, 8, 8A, 8B, 8D, 8E, 14, 15, 56, 58 New, 58 Ext New, 59, 113 228, 251 New, 753B New, 848 & 848A New, 848B New, 341 New, 68Ext. New, 147A New, 168 New, 168A New, 351 New, 927D New & 953 New | 4,971 |
| 10 | Haryana | 1, 2, 8, 10, 11 New, 21A, 22, 54 New, 64, 65, 71, 71A, 72, 73, 73A, 71B, 148BNew, 236, 248 A New, 254 New, 334B New, 352A, 444A New, 703 New, 709 Ext New, 709A New & NE-II | 2,622 |
| 11 | Himachal Pradesh | 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 New 705 New, 907 A New | 2,642 |
| 12 | Jammu & Kashmir | 1A, 1B, 1C, 1D, 3 New, 144 New, 144A New, 301 New, 444 New, 501 New, 701 New, 244 New | 2,601 |
| 13 | Jharkhand | 2, 6, 20 Ext New, 23, 31, 32, 33, 43 New, 75, 78, 80, 98, 99, 100, 114A New, 133 New, 133A New, 133B, 143 New, 143A New, 220 New, 333 New, 333A New, 343 New & 419 New | 2,654 |
| 14 | Karnataka | 4, 4A, 7, 9, 13, 17, 48, 50 New, 63, 67, 67New, 150, 150 Ext. New, 150A New, 167 New, 169A New, 173 New, 206, 207, 209, 212, 218, 234, 275 New, 367 New, 766C | 6,502 |
| 15 | Kerala | 17, 47, 47A, 47C, 49, 183A New, 185 New, 208, 212, 213, & 220 | 1,812 |
| 16 | Madhya Pradesh | 3, 7, 12, 12A, 25, 26, 26A, 26B, 27, 34 New, 56 New, 59, 59A, 69, 69A, 75, 76, 78, 86, 92, 927A New & 339B | 5,194 |
| 17 | Maharashtra | 3, 4, 4C, 6, 7, 8, 9, 13, 16, 17, 26B, 50, 50New, 69, 150 Ext. New, 161 New, 204, 211, 222, 348 New, 848 New, 160 New, 166 New, 166A New, 339B New, 348 New, 348A New, 353C New, 353D New, 353E New, 361 New, 363 New, 547E New, 548 New, 753 New, 753A New, 753B New, 848A, 930 New & 953 New, 965 New | 7,435 |
| 18 | Manipur | 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 | Meghalaya | 40, 44, 51, 62 & 127B New | 1,204 |
| 20 | Mizoram | 6 New, 44A, 54, 54A, 54B, 102B New, 150, 154, 302 New, 306 A New & 502A | 1,381 |

| | | | |
|----|---------------------------|--|-----------------|
| | | New | |
| 21 | Nagaland | 36, 39, 61, 129 New, 150, 155, 702 New, 702A New & 702B New, 702D | 1,150 |
| 22 | Odisha | 5, 5A, 6, 20 Ext, 23, 42, 43, 55 Ext New, 60, 75, 130C New, 153B New, 157 New, 200, 201, 203, 203A, 215, 217, 220 New, 224, 326 New & 326 A New | 4,838 |
| 23 | Puducherry | 45A & 66 | 64 |
| 24 | Punjab | 1, 1A, 10, 15, 20, 21, 22, 64, 70, 71, 72, 95, 103 A New, 154A, 205A New, 254 New, 344A New, 344B New, 503 Ext. New, 503A New, 703 New 703A New, 754 New & 148B New | 2,769 |
| 25 | Rajasthan | 3, 11New, 123 New (3A Old), 8, 11, 11A, 11B, 11C, 12, 14, 15, 25 Ext. New, 54 New, 65, 458 New & 65A Old, 71B, 76, 58 Ext New & 76A Old, 758 New & 76B Old, 79, 79A New, 89, 90, 113, 112, 114, 116, 148B New, 148D New & 116A Old, 158 New, 162A New, 162 Ext. New, 168 New, 168A New, 248A New, 325 New, 709 Ext. New, 927A New, | 7,906 |
| 26 | Sikkim | 31A, 310, 310A New, 510 New, 563 New, 710 New, 717A New, 717B New | 463 |
| 27 | Tamil Nadu | 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 | Tripura | 44, 44A, 108A, 208 New, 208A New, & 108B New | 805 |
| 29 | Telangana | 7, 9, 16 202, 221, 216A New, 222, 326 New, 167 New, 150 New, 363 New, 365 New, 565 New, 161, 765 New, 50 New, 563 New & 365A New | 2,636 |
| 30 | Uttarakhand | 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 |
| 31 | Uttar Pradesh | 2, 2A, 3, 123 New (3A Old), 7, 11, 12A, 19, 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, 219 New, 227 A New, 231, 232, 232A, 233, 235, 330, 330A New, 330 B New, 334 New, 334B New, 334C New, 709 A, 727 A New, 730 New, 730A New, 731 A New, 931 New, 931A New & NE-II | 8,483 |
| 32 | West Bengal | 2, 2B, 6, 10, 31, 31A, 31C, 31D, 32, 34, 35, 41, 55, 60, 60A, 80, 81, 114A New, 116B New, 117, 131A, 133A New, 317A, 327B, 419 New, 512 New & 717. | 2,956 |
| 33 | Andaman & Nicobar Islands | 4 New | 331 |
| 34 | Dadra & Nagar Haveli | 848A New | 31 |
| 35 | Daman & Diu | 848B New & 251 New | 22 |
| | | Total | 1,01,010 |

Section – 3

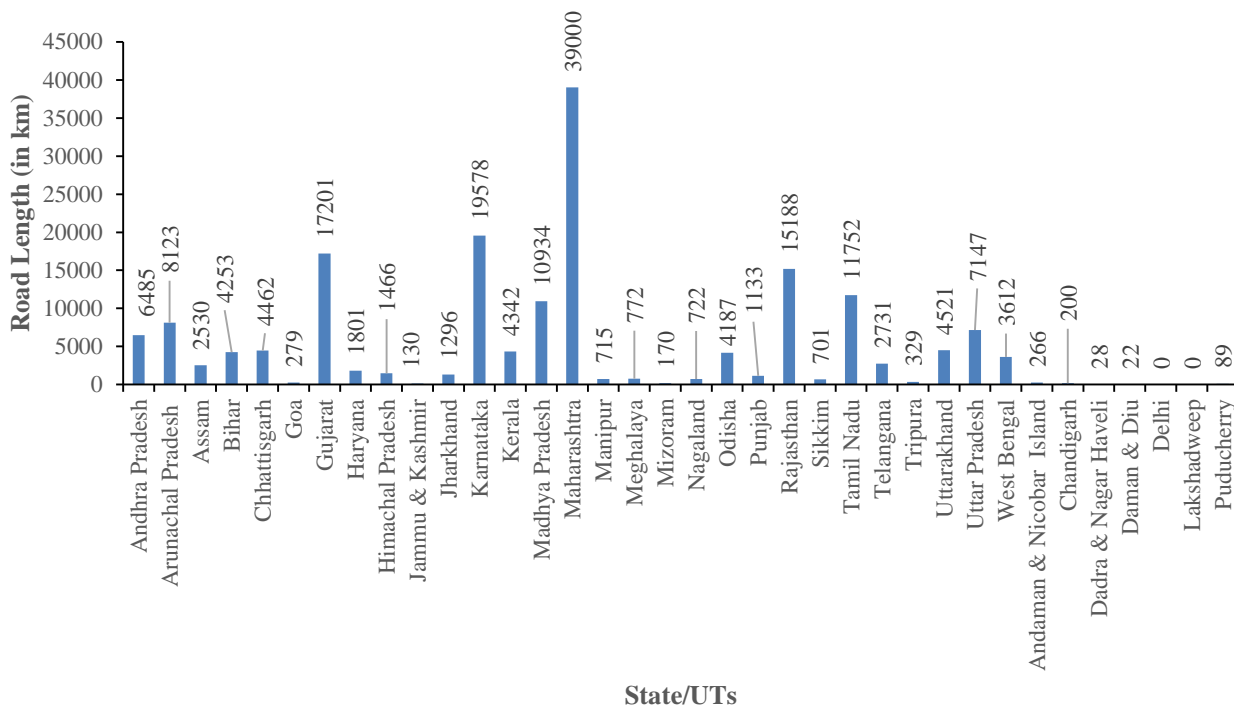
State Highways in India

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



3.2 The total length of State Highways as on 31st March, 2016 increased to 1,76,166 kms as against 1,67,109 kms as on 31st March, 2015. As on 31st March, 2016, around 96.63% of SH roads were surfaced out of total length of State Highways. Out of total length of surfaced SHs, Bituminous Top (BT) and Cement Concrete (CC) roads accounted for about 98.50% and the remaining 1.5% were Water Bound Macadam (WBM) roads. The detailed break up State/UT wise by type of surface is at **Annexure 3.2**

Chart 3.2: State/UT-wise Length of State Highway (in kms) as on 31.03.2016



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 State/UT-wise break-up of State Highways as on 31st March, 2016 shows that Maharashtra accounted for the largest share in the total length of SH roads (22.14%), followed by Karnataka (11.11%), Gujarat (9.76%), Rajasthan (8.62%) and Tamil Nadu (6.67%) (Chart 3.2). These five States accounted for about 58.31% of the total length of SHs.

State wise details are at **Annexure 3.1 and 3.2.**

Section – 4

District Roads in India

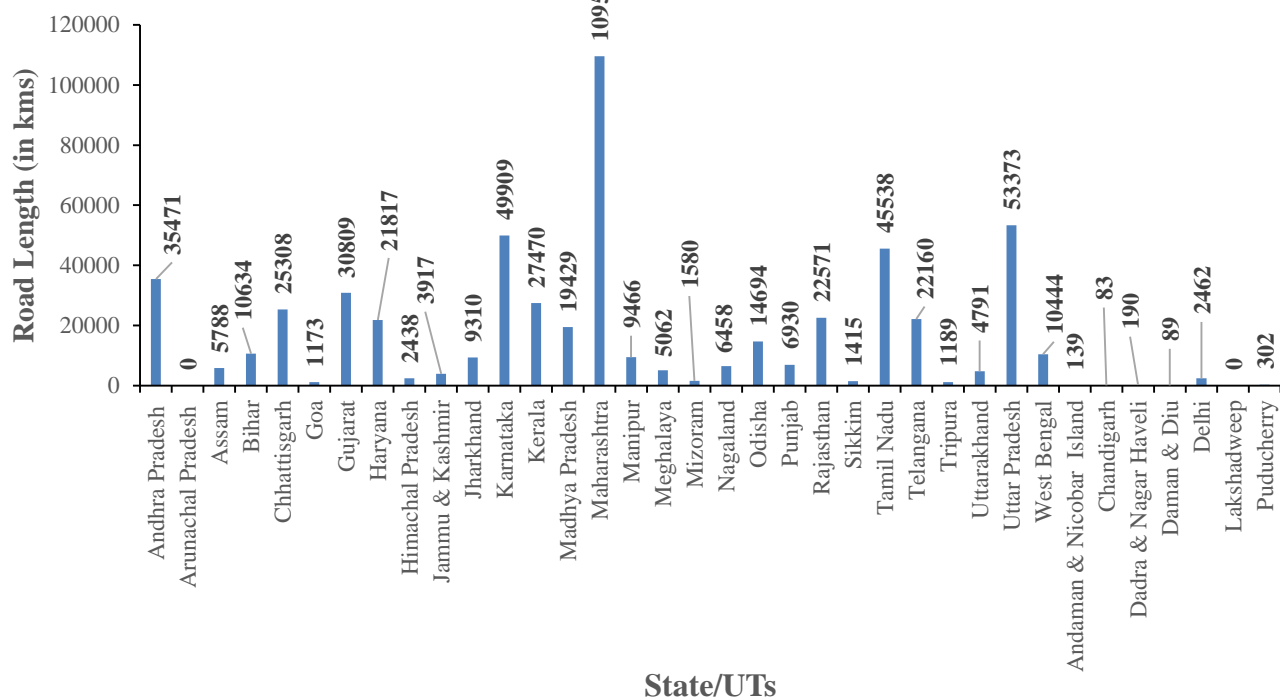
4.1 District Roads constructed & maintained by Public Works Department of States and UTs, together with the State Highways, account for the secondary system of road transportation in the country. District Roads comprising of Major District Roads (MDRs), Other District Roads (ODRs) provide connection 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 connecting areas of production with markets and enabling movements of raw materials and 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 This issue of Basic Roads Statistics attempts to distinguish district roads from all other categories of roads under PWD. It marks a departure from the previous issues of the publication which clubbed all PWD roads, other than SHs in a category called OPWD (Other PWD).

4.3 The total length of District Roads as on 31st March, 2016 was approx. 561940 kms. of which 533493 km. of District Roads were surfaced comprising of 94.93 % of the total length (Annexure 4.1). State/UT-wise length of District Roads as on 31.03.2016 can be seen in Chart 4.1.

4.4 Out of the total surfaced length of 533493 km of District roads, Bituminous Top (BT) and Cement Concrete (CC) roads accounted for about 95.3% and the remaining 4.7% were Water Bound Macadam (WBM) roads. The detailed break up State/UT wise by type of surface is at **Annexure 4.2**.

Chart 4.1: State/UT-wise Length of District Roads (in kms) as on 31.03.2016



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

4.5 The State/UT-wise break-up of District Roads as on 31st March, 2016 can be seen in Chart 4.1. Maharashtra accounted for the largest share in the total length of District roads (19.49%), followed by U.P (9.50%), Karnataka (8.88%), Tamil Nadu (8.10%) and Andhra Pradesh (6.31%). These five States accounted for about 52.29% of the total length of District Roads.

Section – 5

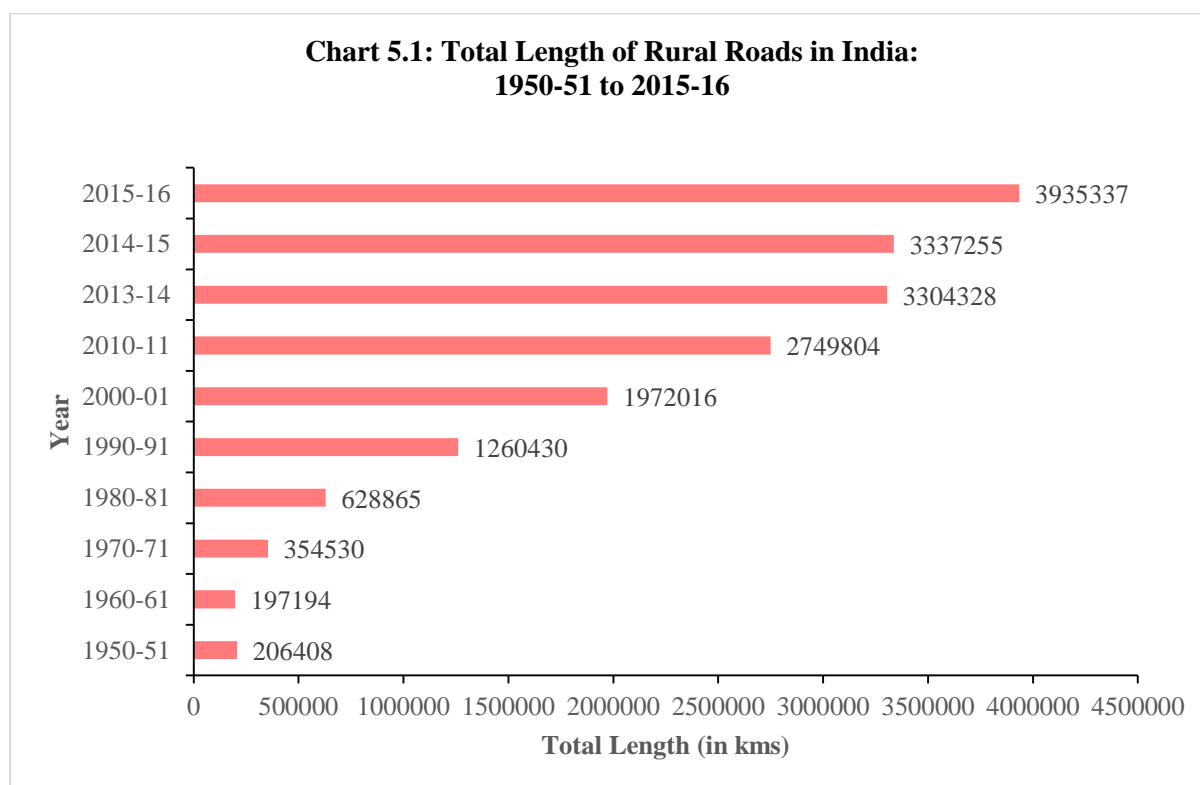
Rural Roads in India

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.

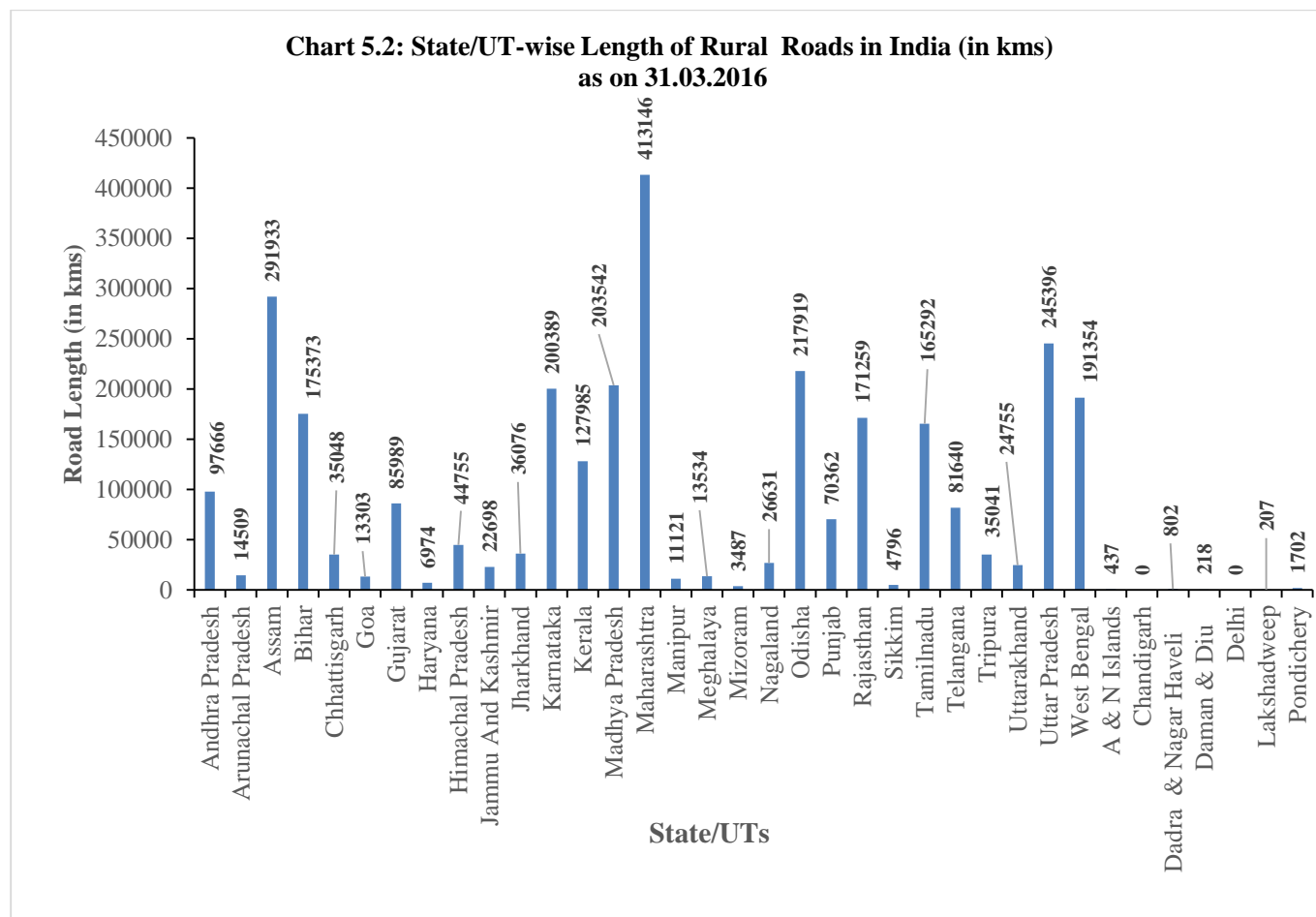
5.3 The total length of Rural Roads as on 31st March, 2016, was 39,35,337 km comprising of the largest share in the total road network. Out of 39,35,337 km rural roads 18,60,573 kms of Panchyati Raj Roads were reported by the States/UT Panchayati Raj Departments; 6,26,377.42 kms of PMGSY Roads by the National Rural Road Development Agency (NRRDA) of Ministry of Rural Development; 5,48,387.01 km by the State PWDs and the remaining 9 lakhs kms (nine lakh kms) of roads were constructed under the erstwhile Jawahar Rozgar Yojana (JRY) in operation from 1990-1999. The PMGSY of the MoRD is a major scheme for providing all weather rural roads was launched in 2000. Details in **Annexures 5.1 to 5. 4.**

5.4 The growth of rural roads since 1950-51 is presented in Chart 5.1



5.5 As on 31.03.2016, the percentage of surfaced rural roads to the total rural road length (excluding 9 lakh kms of JRY) was 66.15% (Annexure 5.1).

5.6 The State/UT-wise break-up of Rural Roads (excluding 9 lakh kms of JRY) shows that Maharashtra accounted for the largest share (13.6%) in 2015-16 followed by Assam (9.6%), Uttar Pradesh (8.1%), Odisha (7.2%), and Madhya Pradesh (6.7%) (Chart-5.2). These five States accounted for about 45.1% of the total length of Rural Roads. State-wise details are at **Annexures 5.1 to 5.4**.

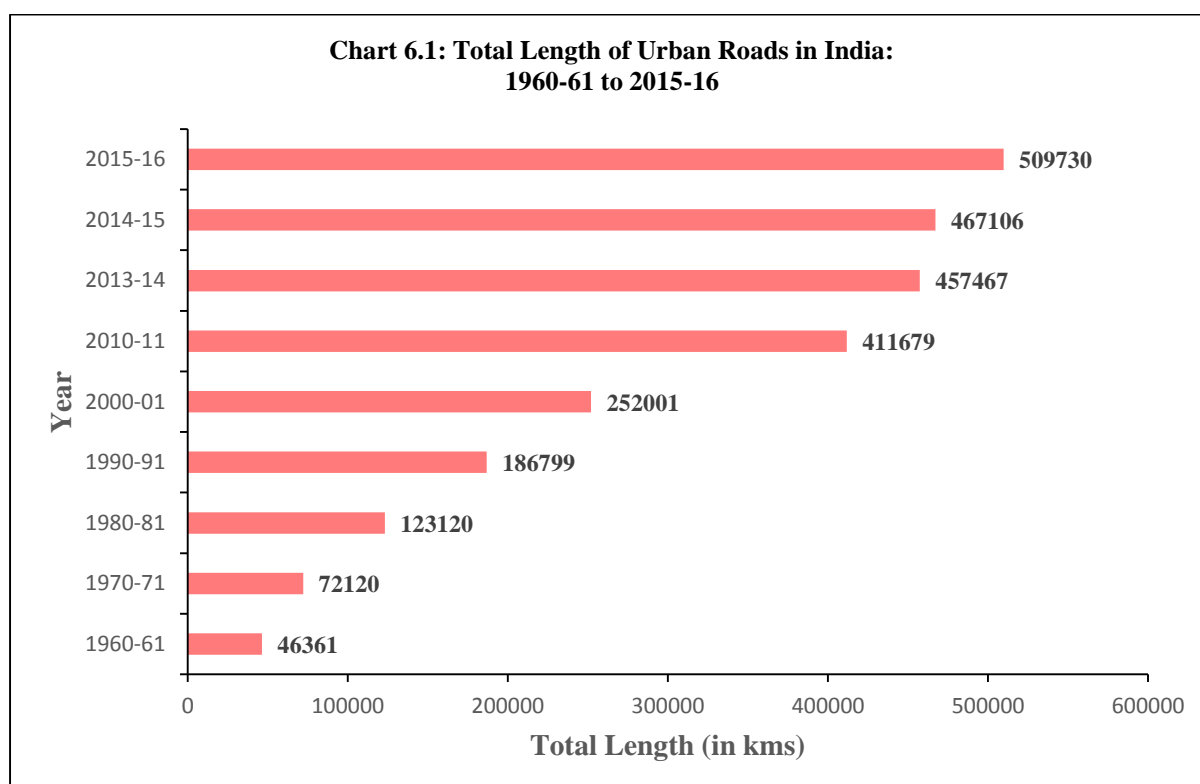


Section – 6

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 467106 kms on 31.03.2015 to 509730 kms. on 31.03.2016. Among the category of roads, the share of urban roads in the total road length has increased from 8.54% in 2014-15 to 9.09% in 2015-16.

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

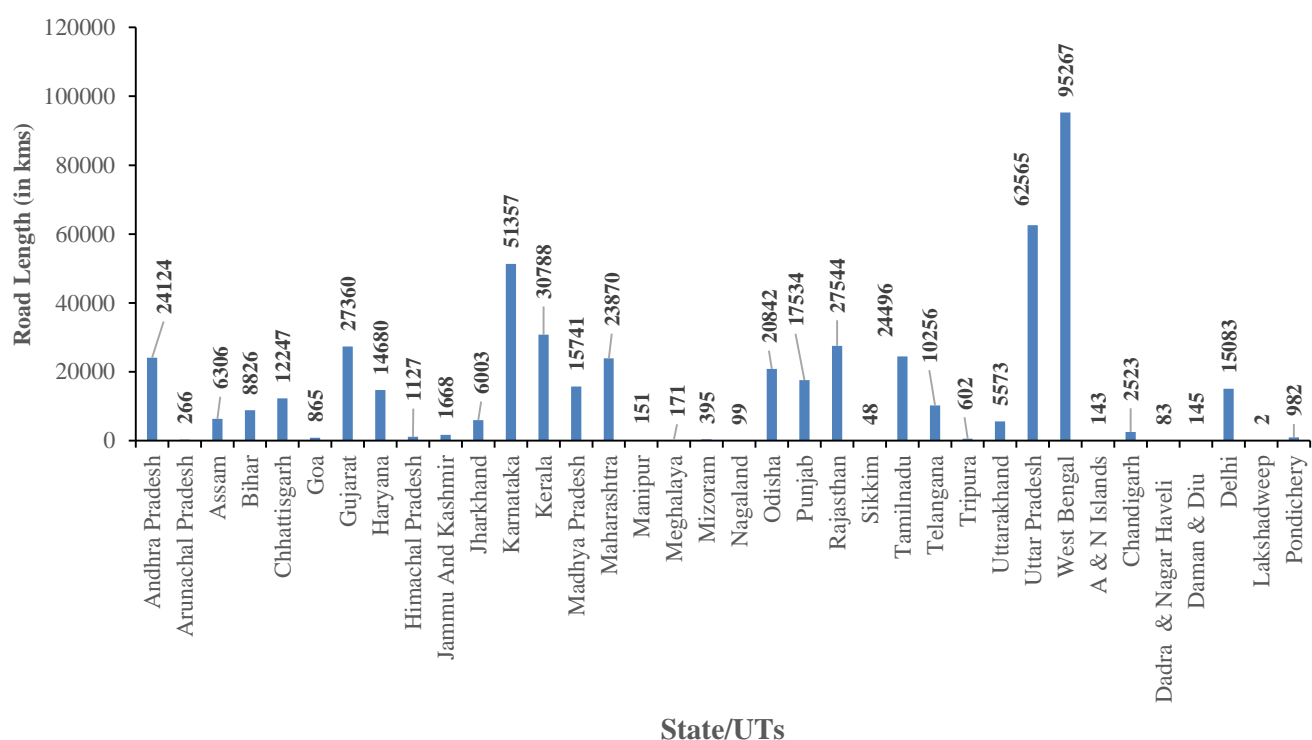


6.3 Within the category of Urban Roads as on 31.03.2016, municipal roads accounted for the highest share of 94.19%, followed by MES roads (3.35%), railway roads (2.26%) and major and minor ports roads 0.2%. While comparing the length of minor ports roads as on 31.03.2015 with that of 31.03.2016, it is seen that the length of minor ports increased by 24.91% from 289 km to 361 km. This is an impetus in the minor ports development. This publication has compiled length of roads in 70 minor ports (coming under the purview of 10 States/UT). Details of Urban Roads in **Annexures 6.1 to 6.6).**

6.4 The length of surfaced urban roads as on 31.03.2016 was 396458 km. which is 77.78% of the total length of urban roads.

6.5 The State/UT-wise break-up of Urban Roads shows that West Bengal accounted for the largest share (18.69%) in total length of Urban Roads as on 31st March 2016, followed by U.P. (12.27%), Karnataka (10.08%), Kerala (6.04%) and Rajasthan (5.40%) (Chart 6.2). These five States accounted for about 52.48% of the total length of Urban Roads.

Chart 6.2 State/UT-wise length of Urban Roads (in kms) as on 31.03.2016

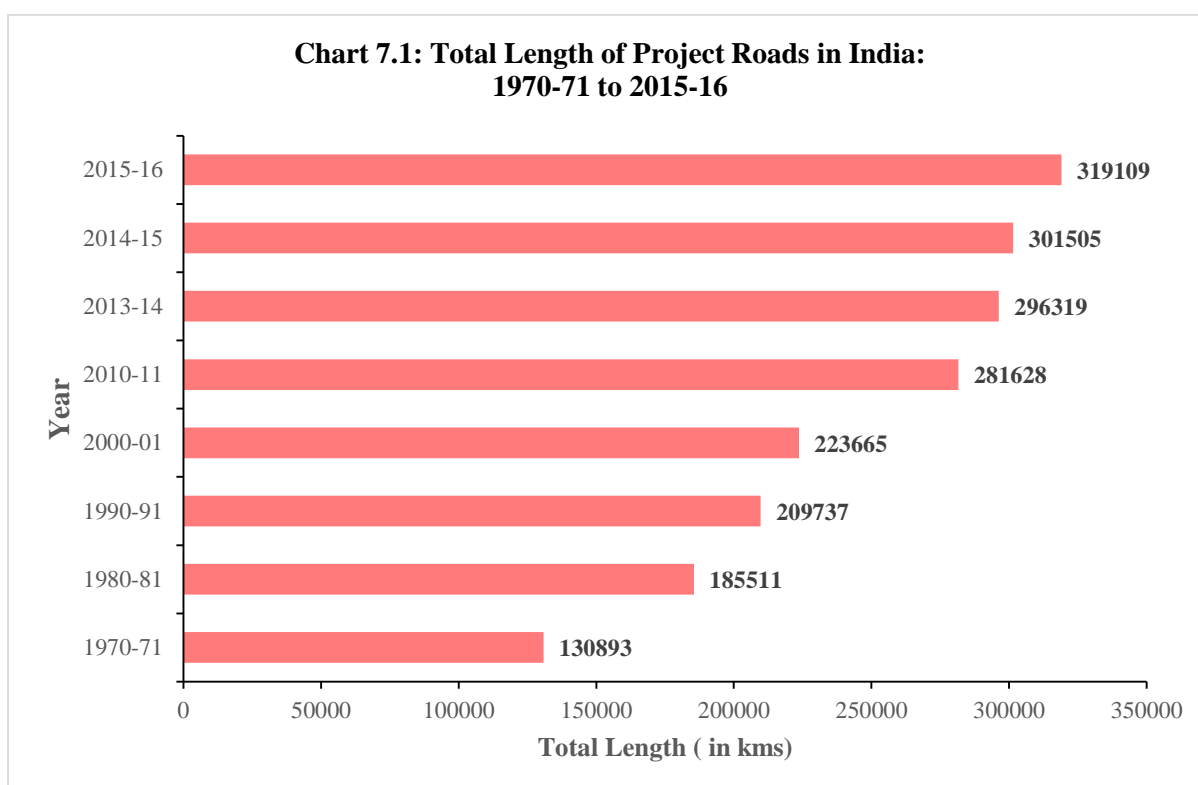


Section – 7

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).

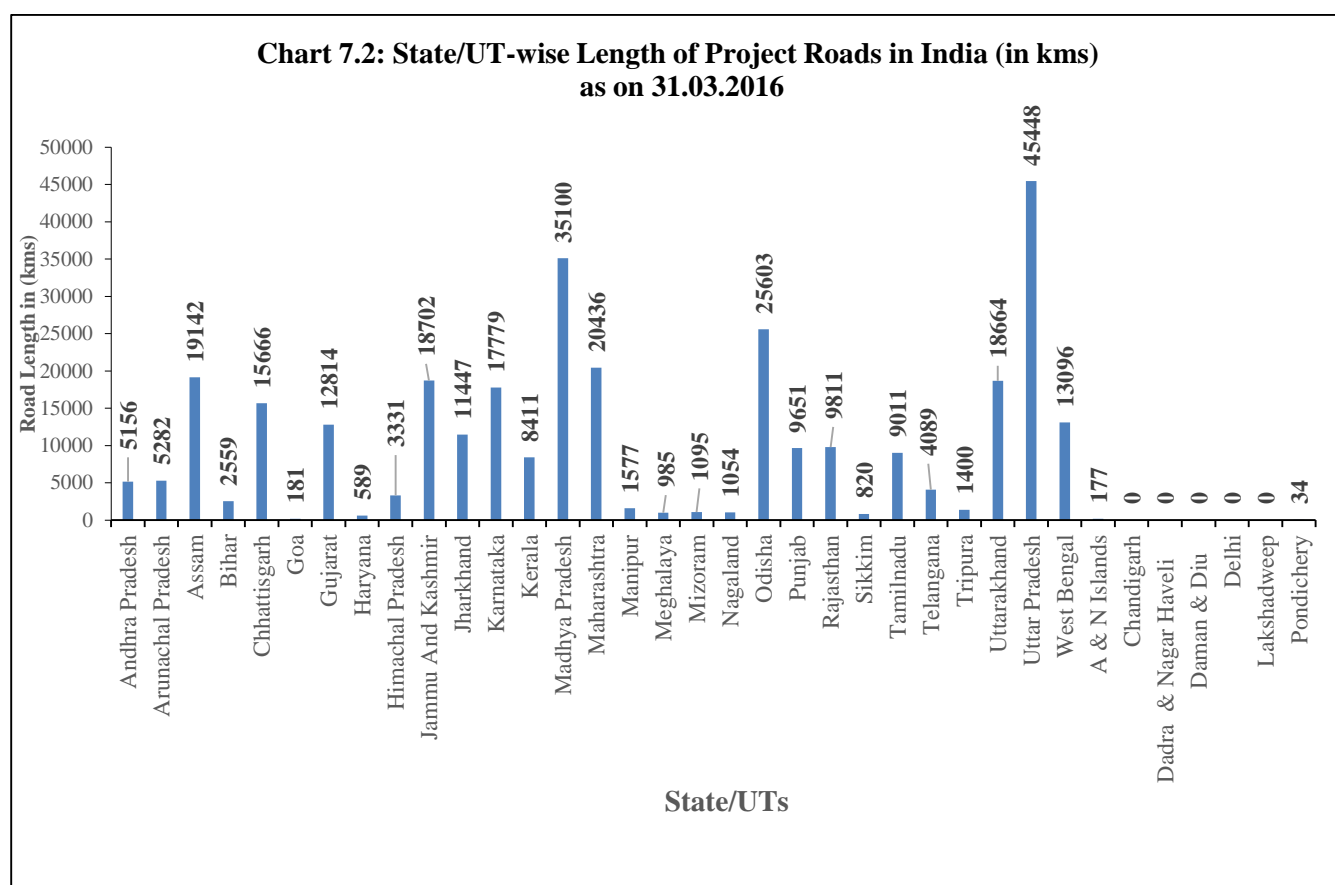
7.2 The growth in the length of Project Roads since 1971 is depicted in Chart 7.1.



7.3 Out of the total length of Project Roads, as on 31st March, 2016 of 319109 km, approximately 54% is accounted by Forest Roads with a length of 171068 km. Since forest roads run through reserved forest areas and wild life sanctuaries, only a small share (21.53%) are surfaced. Of the surfaced length of forest roads of 36833 km, the larger share is of Water Bound Macadam roads (56.68%) and the remaining 43.71 are B.T./ C.C. roads.

7.4 In terms of total road length of Project Roads, the forest roads were followed by followed by Irrigation Department Roads (31.31%), BRO Roads (6.69%) and remaining 8% accounted for project roads under purview of coal fields and mines of Coal India Ltd.; SAIL and NMDC; Sugarcane and Electricity Departments of States and UTs. Details in **Annexures 7.1 to 7.8**.

7.5 The State/UT-wise break-up of Project Roads shows that Uttar Pradesh accounted for the largest share (14.24%) in total length of Project Roads as on 31st March 2016, followed by Madhya Pradesh (10.10%), Odisha (8.02%), Maharashtra (6.40%) and Assam (5.91%). (**Chart 7.2**). These five States accounted for about 44.58% of the total length of Project Roads.



Section – 8

International Comparison of Road Network

8.1 As on 31st March 2016, India's road density at 1.70 kms/sq.km of area was higher than that of Japan (0.91 km/ sq km), USA (0.68 km/ sq km), China (0.47 km/ sq. km), Brazil (0.18 km/sq.km) and Russian Federation (0.08 km/ sq km) (Table 8.1). The paved/surfaced road length in India was 61.03 per cent of the total road length which was lower as compared to United Kingdom, Korea and Russian Federation. National Highways (NHs) in India, accounted for 1.76 % of the total road network length as on 31st March 2016. Details in Table below.

Table 8.1: Major Road Indicators across Select Countries (2014)

| Country | Road Density (km/sq km) | Share of Paved Road (%) | Road Length in Kilometer | | |
|--------------------------|-------------------------|-------------------------|--------------------------|--------------------|--------------------|
| | | | Total Highways | Motorways | National Highways |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Brazil | 0.18 | 13.6 | 15,66,415 | NA | 79,378 (5.08) |
| China | 0.47 | NA | 44,63,913 | 1,11,936 (2.51) | 85,362 (1.91) |
| France | 1.95 | 100.0 | 10,71,176 | 11,662 (1.09) | 8,901 (0.83) |
| India (2015-16) | 1.70 | 62.5 | 56,03,293 | NA | 1,01,011 (1.80) |
| Japan | 0.91 | NA | 3,45,828 | 8,428 (2.44) | 51,750 (14.96) |
| Korea, Republic | 1.06 | 84.9 | 1,05,673 | 4,139 (3.92) | 13,950 (13.20) |
| Russian Federation | 0.08 | 70.60 | 14,50,000 | NA | NA |
| United Kingdom | 1.73 | 100.00 | 4,21,127 | 3,760 (0.89) | 49,075 (11.65) |
| United States of America | 0.68 | 65.90 | 67,02,178 | 76,335 (1.13) | 27,066 (0.40) |

Sources: For India - Transport Research Wing, Ministry of Road Transport & Highways
For all other countries - 'World Road Statistics 2016', published by International Road Federation, Geneva.
Figures in columns 2,3 and 4 refer to the calendar year. For India, figures are for financial year. In columns 5 and 6, figures in parentheses indicate the percentage share of the category in total road length.
N.A.: Information not available.

Section – 9

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

National Highways in India

The Ministry of Road Transport and Highways is primarily responsible for development and maintenance of National Highways through the National Highways Authority of India Ltd. and the National Highways and Infrastructure Development Corporation Ltd.

2. Ministry has been taking efforts to expand and upgrade the network of National Highways. Through a pro-active sector policy, leveraging both public and private funding; changes of delegation of authorities for procurement, preparation, review and approval of DPRs; enhanced use of e-technology; continuous and systematic monitoring, etc., efforts are being made to hasten the pace of construction of highways.

3. There have been following constraints in the expansion and up gradation of National Highways:

- (i) Availability of land
- (ii) Significant increase in land acquisition costs
- (iii) Lack of equity with developers
- (iv) Too many bottlenecks and checkpoints on NHs- could adversely impact benefits of GST
- (v) Higher cost of financing
- (vi) Lesser Traffic growth than expected
- (vii) Shortfall in funds for maintenance

4. Sector Policy:

- (a) Development and maintenance of road infrastructure is a key Government priority - the sector has received strong budgetary support over the years.
- (b) MoRTH is now empowered to decide on mode of delivery of projects –PPP/EPC. It is authorized to appraise projects up to Rs. 1,000 crores – both for PPP and EPC mode in place of earlier Rs. 500 crores.
- (c) Enhanced inter-Ministerial coordination: In order to 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.

- (d) Due to inadequate project preparation related to land acquisition, utility shifting, obtaining clearances and approval and shortcomings on part of concessionaires, a number of projects were languishing in the construction stage. MoRTH and NHAI are regularly monitoring languishing projects on NHs. Wherever feasible one-time fund infusion by NHAI is being done to revive languishing projects. For any languishing highway project in BOT Toll /Annuity mode that has achieved at least 50% physical completion and it is also established that infusion of moderate funding can quickly bring this project to completion, NHAI provides financial assistance to such a project. The assistance is on a loan basis at Bank rate +2%.
- (e) To expedite completion of delayed projects various steps have been taken which include streamlining of land acquisition & environment clearances, exit for equity investors, premium re-schedulement, close coordination with other Ministries, revamping of dispute resolution mechanism etc.
5. Details of Central Road Sector Outlay and Expenditure (including private sector investment) for the 12th Plan is in **Table 9.1**.
6. 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 9.2** gives State-wise allocation and expenditure of funds for the years from 2013-14 to 2016-17.

Table 9.1
Central Road Sector Outlay and Expenditure (including private sector investment) - (At Current Price) for 12th Plan
Amount in Rs. Crore

| Sl. No. | Scheme | 12th Plan | 2014-15 | | 2015-16 | | 2016-17 | |
|---------|--|--------------------|------------------|------------------|------------------|------------------|--------------------|------------------|
| | | (2012-17) | RE | Expd | RE | Expd | RE | Expd |
| 1 | External Assistance | | | | | | | |
| | (a) Externally Aided (RW) | | 175.00 | 138.93 | 250.00 | 216.42 | 290.00 | 289.12 |
| | (b) Counterpart Fund (RW) | | 101.00 | 101.00 | 550.00 | 547.00 | 820.00 | 819.76 |
| | Total EAP | 10,325.00 | 276.00 | 239.93 | 800.00 | 763.42 | 1,110.00 | 1,108.88 |
| 2 | NH (O) | 29,085.00 | 4,881.59 | 4,836.10 | 6,491.06 | 6,335.44 | 19,860.00 | 19,326.46 |
| 3 | Works under BRDB including Strategic Roads under BRDB | 3,500.00 | 292.00 | 268.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | Other Charges & IT | 40.00 | 7.00 | 3.71 | 6.50 | 5.42 | 8.00 | 6.93 |
| 5 | R&D & Training and Quality Assurance | 100.00 | 7.00 | 4.65 | 68.20 | 40.90 | 83.00 | 16.79 |
| 6 | Charged Expd. | 30.00 | 6.00 | 4.93 | 10.00 | 6.92 | 10.00 | 8.22 |
| 7 | NHAI (Investment) (Cess) | 30,196.00 | 9,565.81 | 9,565.42 | 21,020.09 | 21,017.77 | 7,476.60 | 7,410.47 |
| 8 | Remittance of toll receipts (NHDP + non-NHDP) | 27,200.00 | 5,448.00 | 5,448.00 | 6,500.00 | 6,500.00 | 7,500.00 | 7,500.00 |
| 9 | NHAI (ABS for J&K package, etc.) | 8,342.00 | | | | | | |
| 10 | E&I for States from CRF | 1,455.00 | 150.00 | 93.11 | 354.35 | 267.09 | 805.00 | 746.35 |
| | E&I for UTs from CRF | | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 |
| 11 | Rail Cum Road Bridge at Ganga, Munger (Bihar) | 567.00 | | | | | | |
| 12 | Improvement of Duburi-Brahmanipal-Harichandanpur-Naranpur State Road in Odisha (POSCO) | 20.00 | | | | | | |
| 13 | Special Packages | | | | | | | |
| (i) | SARDP-NE | 25,400.00 | 3,000.00 | 2,843.33 | 4,900.00 | 4,803.07 | 4,520.00 | 4,460.67 |
| (ii) | LWE (including TSP) including Vijayawada-Ranchi Road | 6,509.00 | 1,174.00 | 1,164.59 | 1,121.00 | 996.11 | 760.00 | 739.27 |
| (A) | Total (BS) | 1,42,769.00 | 24,807.40 | 24,472.56 | 41,272.20 | 40,736.14 | 42,132.60 | 41,324.04 |
| (B) | IEBR / Borrowings by NHAI | 64,834.00 | 7,611.11 | 3,343.40 | 42,694.50 | 23,281.00 | 59,279.00 | 33,118.00 |
| (C) | Grand Total | 2,07,603.00 | 32,418.51 | 27,815.96 | 83,966.70 | 64,017.14 | 1,01,411.60 | 74,442.04 |
| | Private Sector Investments (Non-NHDP) | 5,765.00 | | | | | | |
| | (i) Widening to 2-lanes | 5,765.00 | | | | | | |
| | (ii) 4-laning of NHs | | | | | | | |
| | Private sector Investments (NHDP) | 2,08,421.00 | | | | | | |
| (D) | Total Private Sector Investments | 2,14,186.00 | | 19,232.44 | | 29,770.00 | 26,850.00 | 16,028.64 |
| (E) | Grand Total for Central Sector Roads (incl. Private Sector Investments) | 4,21,789.00 | 32,418.51 | 47,048.40 | 83,966.70 | 93,787.14 | 1,28,261.60 | 90,470.68 |

Includes Rs. 22,685 crore diverted from NHAI(Investment) to NH(O) & ABS for J&K Package during 2012-17, in view of limited available resources under NH(O)

Table 9.2**The State/UT-wise details of funds allocated/utilized for development of NHs during each of the last three years**

| Sl. No. | States/UTs/Schemes/Agency (Sl. 1 to 33 contains allocation under NH(O), NHDP-IV through State PWD, EAP, PBFF) | For Development of NHs | | | | | | | |
|---------|---|------------------------|----------|----------|----------|-----------|-----------|----------------------|----------|
| | | 2013-14 | | 2014-15 | | 2015-16 | | 2016-17 ^s | |
| | | Alloc. | Expd. | Alloc. | Expd. | Alloc. | Expd. | Alloc. | Expd. |
| 1 | Andhra Pradesh | 188.04 | 187.62 | 221.45 | 221.45 | 1,039.42 | 1,000.43 | 2,010.31 | 2,014.50 |
| 2 | Arunachal Pradesh | 1.09 | 1.09 | 0.50 | 0.50 | 2.40 | 1.83 | 100.00 | 90.66 |
| 3 | Assam | 205.10 | 199.41 | 141.76 | 141.76 | 78.79 | 78.09 | 247.44 | 137.80 |
| 4 | Bihar | 304.57 | 271.33 | 276.65 | 276.65 | 706.92 | 707.86 | 1,395.00 | 1,331.61 |
| 5 | Chhattisgarh | 43.35 | 25.29 | 71.25 | 71.25 | 359.94 | 339.80 | 1,568.30 | 1,495.68 |
| 6 | Goa | 20.66 | 20.66 | 17.72 | 17.72 | 120.00 | 119.98 | 700.00 | 434.51 |
| 7 | Gujarat | 146.54 | 140.91 | 206.96 | 206.96 | 228.60 | 225.77 | 251.87 | 213.41 |
| 8 | Haryana | 53.51 | 53.51 | 60.48 | 60.48 | 90.00 | 89.85 | 150.00 | 161.27 |
| 9 | Himachal Pradesh | 100.44 | 99.74 | 134.57 | 134.57 | 140.00 | 139.96 | 250.95 | 182.14 |
| 10 | Jammu & Kashmir | 0.00 | 0.00 | 0.00 | 0.00 | 25.00 | 22.86 | 50.06 | 23.16 |
| 11 | Jharkhand | 70.32 | 70.32 | 63.83 | 63.83 | 35.00 | 38.08 | 200.00 | 212.50 |
| 12 | Karnataka | 165.85 | 164.55 | 269.72 | 269.72 | 633.43 | 639.55 | 833.13 | 871.96 |
| 13 | Kerala | 272.73 | 258.84 | 67.18 | 67.18 | 132.24 | 137.65 | 279.89 | 237.80 |
| 14 | Madhya Pradesh | 155.01 | 150.67 | 239.23 | 239.23 | 937.76 | 928.29 | 1,835.00 | 1,558.90 |
| 15 | Maharashtra | 177.23 | 177.01 | 190.04 | 190.04 | 431.20 | 423.28 | 1,871.92 | 1,154.00 |
| 16 | Manipur | 54.72 | 54.39 | 32.60 | 32.60 | 40.00 | 40.00 | 30.25 | 18.65 |
| 17 | Meghalaya | 35.70 | 33.61 | 43.30 | 43.30 | 15.00 | 15.00 | 41.27 | 28.44 |
| 18 | Mizoram | 22.11 | 20.57 | 39.53 | 39.53 | 35.00 | 28.50 | 30.00 | 46.13 |
| 19 | Nagaland | 44.65 | 44.65 | 46.20 | 46.20 | 50.00 | 46.27 | 50.00 | 38.84 |
| 20 | Odisha | 233.22 | 231.51 | 322.99 | 322.99 | 591.44 | 592.24 | 939.96 | 951.35 |
| 21 | Punjab | 113.78 | 113.24 | 2,328.04 | 2,328.04 | 1,852.26 | 1,855.24 | 2,690.50 | 2,702.48 |
| 22 | Rajasthan | 215.50 | 213.85 | 107.16 | 107.16 | 849.95 | 849.56 | 991.49 | 1,012.99 |
| 23 | Sikkim | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 24 | Tamil Nadu | 210.24 | 210.24 | 167.13 | 167.13 | 337.02 | 336.47 | 566.00 | 640.11 |
| 25 | Telangana | 0.00 | 0.00 | 210.79 | 210.79 | 661.00 | 657.10 | 515.00 | 358.43 |
| 26 | Tripura | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | 0.00 | 40.00 | 2.38 |
| 27 | Uttar Pradesh | 289.54 | 284.35 | 493.81 | 493.81 | 1,530.34 | 1,527.74 | 2,584.02 | 1,820.85 |
| 28 | Uttarakhand | 87.84 | 85.90 | 169.51 | 169.51 | 245.92 | 245.69 | 342.62 | 314.48 |
| 29 | West Bengal | 134.10 | 134.10 | 283.61 | 283.61 | 808.95 | 811.98 | 1,339.12 | 1,223.19 |
| 30 | Andaman & Nicobar Islands | 0.00 | 0.00 | 14.61 | 14.61 | 2.00 | 1.53 | 0.13 | 0.13 |
| 31 | Chandigarh | 0.00 | 0.00 | 4.95 | 4.95 | 1.00 | 0.00 | 2.00 | 0.69 |
| 32 | Delhi | 0.00 | 0.00 | 0.02 | 0.02 | 1.00 | 0.00 | 2.00 | 0.62 |
| 33 | Puducherry | 0.00 | 0.00 | 12.73 | 12.73 | 20.00 | 18.10 | 20.00 | 14.28 |
| 34 | Other projects under NH(O)* | 341.42 | 341.30 | 758.05 | 713.42 | 511.00 | 443.44 | 791.38 | 787.79 |
| 35 | National Highways Authority of India (NHAI)- Cess* | 6,857.45 | 6,857.45 | 6,885.89 | 6,885.89 | 15,420.00 | 15,420.00 | 2,326.50 | 2,326.50 |
| 36 | NHAI- Toll | 4,770.00 | 4,770.00 | 5,448.00 | 5,448.00 | 6,500.00 | 6,500.00 | 7,500.00 | 7,500.00 |
| 37 | NHAI- NH(O) | 944.84 | 944.82 | 600.00 | 600.00 | 370.27 | 370.27 | 5,389.02 | 5,389.02 |
| 38 | National Highways & Infrastructure Development Corporation Ltd. (NHIDCL) under NH(O)* | - | - | - | - | 1.15 | 1.15 | 72.20 | 72.20 |
| 39 | Border Roads Organization (BRO)* | 434.00 | 414.25 | 292.00 | 268.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40 | Special Accelerated Road Development Programme for North-East Region (SARDP-NE) including Arunachal Package* | 2,994.00 | 3,009.27 | 3,000.00 | 2,843.33 | 4,900.00 | 4,803.07 | 4,520.00 | 4,460.67 |
| | | | | | | | | | |

| | | | | | | | | | |
|----|---|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|
| 41 | Special Programme for development of Roads In Left Wing Extremism affected Area (LWE) including Development of Vijayawada-Ranchi Road | 1,035.00 | 1,021.02 | 1,174.00 | 1,164.59 | 1,121.00 | 996.11 | 760.00 | 739.27 |
| 42 | Externally Aided Projects - Head Quarters# | 42.50 | 0.00 | 276.00 | 239.93 | 22.00 | 9.25 | 57.84 | 56.72 |
| | Sub- Total | 20,765.05 | 20,605.47 | 24,672.26 | 24,402.27 | 40,852.00 | 40,461.99 | 43,345.16 | 40,626.11 |
| 43 | IEBR / Borrowings by NHAI | 8,000.00 | 7,942.13 | 7,611.11 | 3,343.40 | 42,694.50 | 23,281.00 | 59,279.00 | 33,118.00 |
| | Grand Total | 28,765.05 | 28,547.60 | 32,283.37 | 27,745.67 | 83,546.50 | 63,742.99 | 1,02,624.16 | 73,744.11 |

*- State/UT wise allocations are not made.

\$- Provisional

#-figures for 2013-14 and 2014-15 Include total allocation for NH works also

ANNEXURE

ROAD LENGTH (TOTAL AND SURFACED)

ALL INDIA AND STATE-WISE

Annexure 1.1

Total and Surfaced Road Length By Categories in India

As on 31.03.2016 (in km)

| Sl. No. | Category | Sub Category | Total | Surfaced (% age) |
|--------------------------------------|--------------------------|------------------------------|----------------|-----------------------|
| 1 | National Highways | | 101011 | 101011 (100) |
| 2 | State Highways | | 176166 | 170237 (96.6) |
| 3 | District roads | | 561940 | 533493 (94.9) |
| 4 | Rural Roads* | | 3035337 | 2007777 (66.1) |
| | | PMGSY Roads | 626377 | 551132 (88.0) |
| | | PWD/RWD Roads | 548387 | 458021 (83.5) |
| | | Panchayati Raj Roads | 1860573 | 998624 (53.7) |
| 5 | Urban Roads | | 509730 | 396458 (77.8) |
| | | Municipal Roads | 480105 | 368747 (76.8) |
| | | MES Roads | 16911 | 16369 (96.8) |
| | | Major Port Roads | 836 | 826 (98.8) |
| | | Minor Port Roads | 361 | 340 (94.2) |
| | | Railway Roads | 11517 | 10176 (88.4) |
| 6 | Project Roads | | 319109 | 109727 (34.4) |
| | | Forest Department Roads | 171068 | 36833 (21.5) |
| | | BRO Roads | 21357 | 18353 (85.9) |
| | | Coal Mine Roads | 4039 | 3831 (94.8) |
| | | Electricity Department Roads | 5137 | 4766 (92.8) |
| | | Irrigation Department Roads | 99913 | 32313 (32.3) |
| | | Sugarcane Authorities Roads | 14728 | 10947 (74.3) |
| | | SAIL & NMDC Roads | 2867 | 2683 (93.6) |
| Total* (Excluding JRY Roads) | | | 4703293 | 3318704 (70.6) |
| Total** (Including JRY Roads) | | | 5603293 | 3501906 (62.5) |

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 length of rural roads constructed under Jawahar Rozgar Yojana (JRY) from 1990-1999.

Road Length By Categories and By type of Surface in India

As on 31.03.2016

(in km)

| Sl. No. | Category | Sub Category | Total (6+7) | Surfaced | | | Un-surfaced |
|-----------------------------|-----------------------------|------------------------------|-------------|----------|---------|-------------|-------------|
| | | | | WBM/WMM | BT/CC | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1 | National Highways | | 101011 | 0 | 101011 | 101011 | 0 |
| 2 | State Highways | | 176166 | 2550 | 167687 | 170237 | 5928 |
| 3 | District roads | | 561940 | 25100 | 508392 | 533493 | 28447 |
| 4 | Rural Roads (excluding JRY) | | 3035337 | 499438 | 1508339 | 2007777 | 1027560 |
| | | PMGSY Roads | 626377 | 78437 | 472696 | 551132 | 75245 |
| | | PWD/RWD Roads | 548387 | 64082 | 393939 | 458021 | 90366 |
| | | Panchayati Raj Roads | 1860573 | 356920 | 641704 | 998624 | 861949 |
| 5 | Urban Roads | | 509730 | 41706 | 354752 | 396458 | 113272 |
| | | Municipal Roads | 480105 | 39979 | 328768 | 368747 | 111358 |
| | | MES Roads | 16911 | 400 | 15969 | 16369 | 542 |
| | | Major Port Roads | 836 | 64 | 762 | 826 | 10 |
| | | Minor Port Roads | 361 | 24 | 316 | 340 | 21 |
| | | Railway Roads | 11517 | 1239 | 8937 | 10176 | 1341 |
| 6 | Project Roads | | 319109 | 39567 | 70160 | 109727 | 209382 |
| | | Forest Department Roads | 171068 | 20878 | 15955 | 36833 | 134235 |
| | | BRO Roads | 21357 | 917 | 17436 | 18353 | 3003 |
| | | Coal Mine Roads | 4039 | 460 | 3372 | 3831 | 208 |
| | | Electricity Department Roads | 5137 | 1059 | 3707 | 4766 | 371 |
| | | Irrigation Department Roads | 99913 | 16124 | 16189 | 32313 | 67600 |
| | | Sugarcane Authorities Roads | 14728 | 5 | 10942 | 10947 | 3781 |
| | | SAIL & NMDC Roads | 2867 | 124 | 2559 | 2683 | 184 |
| Total (Excluding JRY Roads) | | | 4703293 | 608362 | 2710341 | 3318704 | 1384590 |
| Total (Including JRY Roads) | | | 5603293 | 791564 | 2710341 | 3501906 | 2101388 |

Note: Totals may not add up because of rounding off of decimals.

Total & Surfaced Length of Roads in India

As on 31.03.2016 (State/UT-wise)

(in km)

| SL.No. | Name of State/UT | Total | Surfaced |
|----------------|----------------------|----------------|----------------|
| 1 | 2 | 3 | 4 |
| 1 | Andhra Pradesh | 174367 | 116663 |
| 2 | Arunachal Pradesh | 30692 | 18348 |
| 3 | Assam | 329520 | 64572 |
| 4 | Bihar | 206484 | 123412 |
| 5 | Chhattisgarh | 95809 | 77069 |
| 6 | Goa | 16063 | 10990 |
| 7 | Gujarat | 179144 | 156177 |
| 8 | Haryana | 48482 | 42399 |
| 9 | Himachal Pradesh | 55759 | 43680 |
| 10 | Jammu And Kashmir | 49716 | 34246 |
| 11 | Jharkhand | 66786 | 58032 |
| 12 | Karnataka | 345515 | 223050 |
| 13 | Kerala | 200808 | 142220 |
| 14 | Madhya Pradesh | 289940 | 240639 |
| 15 | Maharashtra | 613418 | 478064 |
| 16 | Manipur | 24776 | 15590 |
| 17 | Meghalaya | 21727 | 10665 |
| 18 | Mizoram | 8108 | 7137 |
| 19 | Nagaland | 36114 | 17138 |
| 20 | Odisha | 288083 | 264594 |
| 21 | Punjab | 108379 | 98149 |
| 22 | Rajasthan | 254279 | 205647 |
| 23 | Sikkim | 8243 | 6174 |
| 24 | Tamilnadu | 261035 | 213600 |
| 25 | Telangana | 123572 | 86166 |
| 26 | Tripura | 39365 | 20152 |
| 27 | Uttarakhand | 61018 | 35583 |
| 28 | Uttar Pradesh | 422412 | 352016 |
| 29 | West Bengal | 316730 | 130019 |
| 30 | A & N Islands | 1493 | 1443 |
| 31 | Chandigarh | 2821 | 2821 |
| 32 | Dadra & Nagar Haveli | 1134 | 1134 |
| 33 | Daman & Diu | 496 | 496 |
| 34 | Delhi | 17625 | 17623 |
| 35 | Lakshadweep | 209 | 209 |
| 36 | Pondichery | 3174 | 2789 |
| Total * | | 4703293 | 3318704 |

* Excluding JRY Roads

| Total Road Length and Percentage Share of Each Category of Road (1951-2016) | | | | | | | | (in km) | | | |
|--|----------------------|-------------------|--|-------------------|------------------------|--------------------------|--|----------------|------------------|-----------|--|
| Year (as on 31st March) | National Highways | State Highways | Other PWD Roads | District Roads | Panchayat Raj Roads | JRY & PMGSY Roads* | Rural Roads built by State PWD / RWD | Urban Roads | Project Roads | Surfaced | Total (Col. 2+3+4+5+6+7 +8+9+10) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1951 | 19,811 | # | 1,73,723 | | 2,06,408 | 0 | | 0 | 0 | 1,57,019 | 3,99,942 |
| | 4.95 | 0.00 | 43.44 | | 51.61 | 0.00 | | 0.00 | 0.00 | 39.26 | 100 |
| 1961 | 23,798 | # | 2,57,125 | | 1,97,194 | 0 | | 46,361 | 0 | 2,63,052 | 5,24,478 |
| | 4.54 | 0.00 | 49.02 | | 37.60 | 0.00 | | 8.84 | 0.00 | 50.16 | 100 |
| 1971 | 23,838 | 56,765 | 2,76,833 | | 3,54,530 | 0 | | 72,120 | 1,30,893 | 3,97,948 | 9,14,979 |
| | 2.61 | 6.20 | 30.26 | | 38.75 | 0.00 | | 7.88 | 14.31 | 43.49 | 100 |
| 1981 | 31,671 | 94,359 | 4,21,895 | | 6,28,865 | 0 | | 1,23,120 | 1,85,511 | 6,83,676 | 14,85,421 |
| | 2.13 | 6.35 | 28.40 | | 42.34 | 0.00 | | 8.29 | 12.49 | 46.03 | 100 |
| 1991 | 33,650 | 1,27,311 | 5,09,435 | | 9,31,288 | 3,29,142 | | 1,86,799 | 2,09,737 | 10,90,167 | 23,27,362 |
| | 1.45 | 5.47 | 21.89 | | 40.01 | 14.14 | | 8.03 | 9.01 | 46.84 | 100 |
| 2001 | 57,737 | 1,32,100 | 7,36,001 | | 10,68,020 | 9,03,996 | | 2,52,001 | 2,23,665 | 16,01,745 | 33,73,520 |
| | 1.71 | 3.92 | 21.82 | | 31.66 | 26.80 | | 7.47 | 6.63 | 47.48 | 100 |
| 2002 | 58,112 | 1,37,711 | 6,95,335 | | 11,34,326 | 9,26,697 | | 2,50,295 | 2,24,124 | 16,61,555 | 34,26,600 |
| | 1.70 | 4.02 | 20.29 | | 33.10 | 27.04 | | 7.30 | 6.54 | 48.49 | 100 |
| 2003 | 58,112 | 1,34,807 | 6,96,960 | | 11,55,491 | 9,26,697 | | 2,97,259 | 2,59,328 | 17,01,258 | 35,28,654 |
| | 1.65 | 3.82 | 19.75 | | 32.75 | 26.26 | | 8.42 | 7.35 | 48.21 | 100 |
| 2004 | 65,569 | 1,33,177 | 7,19,257 | | 11,89,058 | 9,51,511 | | 3,01,310 | 2,61,625 | 17,60,768 | 36,21,507 |
| | 1.81 | 3.68 | 19.86 | | 32.83 | 26.27 | | 8.32 | 7.22 | 48.62 | 100 |
| 2005 | 65,569 | 1,44,396 | 7,86,230 | | 12,99,463 | 9,66,976 | | 2,86,707 | 2,59,815 | 17,95,298 | 38,09,156 |
| | 1.72 | 3.79 | 20.64 | | 34.11 | 25.39 | | 7.53 | 6.82 | 47.13 | 100 |
| 2006 | 66,590 | 1,48,090 | 8,03,669 | | 13,18,258 | 9,89,867 | | 2,91,991 | 2,62,186 | 18,58,684 | 38,80,651 |
| | 1.72 | 3.82 | 20.71 | | 33.97 | 25.51 | | 7.52 | 6.76 | 47.90 | 100 |
| 2007 | 66,590 | 1,52,235 | 8,35,003 | | 13,72,867 | 10,20,621 | | 3,00,580 | 2,68,505 | 19,44,758 | 40,16,401 |
| | 1.66 | 3.79 | 20.79 | | 34.18 | 25.41 | | 7.48 | 6.69 | 48.42 | 100 |
| 2008 | 66,754 | 1,54,522 | 8,63,241 | | 13,88,750 | 10,61,809 | | 3,04,327 | 2,70,189 | 20,36,063 | 41,09,592 |
| | 1.62 | 3.76 | 21.01 | | 33.79 | 25.84 | | 7.41 | 6.57 | 49.54 | 100 |
| 2009 | 70,548 | 1,58,497 | 9,62,880 | | 15,14,952 | 11,14,213 | | 3,73,802 | 2,76,617 | 23,24,504 | 44,71,510 |
| | 1.58 | 3.54 | 21.53 | | 33.88 | 24.92 | | 8.36 | 6.19 | 51.98 | 100 |
| 2010 | 70,934 | 1,60,177 | 9,77,414 | | 15,18,205 | 11,74,330 | | 4,02,448 | 2,78,931 | 24,32,813 | 45,82,439 |
| | 1.55 | 3.50 | 21.33 | | 33.13 | 25.63 | | 8.78 | 6.09 | 53.09 | 100 |
| 2011 | 70,934 | 1,63,898 | 9,98,895 | | 15,30,366 | 12,19,438 | | 4,11,679 | 2,81,628 | 25,24,682 | 46,76,838 |
| | 1.52 | 3.50 | 21.36 | | 32.72 | 26.07 | | 8.80 | 6.02 | 53.98 | 100 |
| 2012 | 76,818 | 1,64,360 | 10,22,287 | | 15,87,787 | 12,50,433 | | 4,64,294 | 2,99,415 | 26,98,590 | 48,65,394 |
| | 1.58 | 3.38 | 21.01 | | 32.63 | 25.70 | | 9.54 | 6.15 | 55.46 | 100 |
| 2013 | 79,116 | 1,69,227 | 10,66,747 | | 17,25,318 | 14,34,321 | | 4,46,238 | 3,10,955 | 31,71,002 | 52,31,922 |
| | 1.51 | 3.23 | 20.39 | | 32.98 | 27.41 | | 8.53 | 5.94 | 60.61 | 100 |
| 2014 | 91,287 | 1,70,818 | 10,82,267 | | 18,00,747 | 15,03,581 | | 4,57,467 | 2,96,319 | 25,335 | 54,02,486 |
| | 1.69 | 3.16 | 20.03 | | 33.33 | 27.83 | | 8.47 | 5.48 | 0.47 | 100 |
| 2015 | 97,991 | 1,67,109 | 11,01,178 | | 18,31,043 | 15,06,212 | | 4,67,106 | 3,01,505 | 33,41,008 | 54,72,144 |
| | 1.79 | 3.05 | 20.25 | | 33.46 | 27.53 | | 8.54 | 5.51 | 61.05 | 100 |
| 2016 (P) | 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 |
| | 1.80 | 3.14 | | 10.03 | 33.20 | 27.24 | 9.78 | 9.10 | 5.70 | 62.49 | 100 |
| # Included in Other PWD Roads. | | | Totals may not add up because of rounding off of decimals. | | | | | | | | |
| 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. | | | | | | | | | | | |
| JRY road lengths for years since 1996-97 are the same as on 31.3.1996. | | | | | | | | | | | |
| (P): Provisional | | | | | | | | | | | |

ANNEXURE

NATIONAL HIGHWAYS

Annexure 2.1**Length of National Highways in India****As on 31.03.2016 (State/UT-wise) (in km)**

| Sl. No. | Name of State/ UT | Length of NH |
|----------------|--------------------------|---------------------|
| 1 | 2 | 3 |
| 1 | Andhra Pradesh | 5465 |
| 2 | Arunachal Pradesh | 2513 |
| 3 | Assam | 3821 |
| 4 | Bihar | 4839 |
| 5 | Chhattisgarh | 3078 |
| 6 | Goa | 262 |
| 7 | Gujarat | 4971 |
| 8 | Haryana | 2622 |
| 9 | Himachal Pradesh | 2642 |
| 10 | Jammu & Kashmir | 2601 |
| 11 | Jharkhand | 2654 |
| 12 | Karnataka | 6503 |
| 13 | Kerala | 1812 |
| 14 | Madhya Pradesh | 5194 |
| 15 | Maharashtra | 7435 |
| 16 | Manipur | 1746 |
| 17 | Meghalaya | 1203 |
| 18 | Mizoram | 1381 |
| 19 | Nagaland | 1150 |
| 20 | Odisha | 4838 |
| 21 | Punjab | 2769 |
| 22 | Rajasthan | 7906 |
| 23 | Sikkim | 463 |
| 24 | Tamil Nadu | 4946 |
| 25 | Telangana | 2696 |
| 26 | Tripura | 805 |
| 27 | Uttarakhand | 2714 |
| 28 | Uttar Pradesh | 8483 |
| 29 | West Bengal | 2956 |
| 30 | Andaman & Nicobar Island | 331 |
| 31 | Chandigarh | 15 |
| 32 | Dadar & Nagar Haveli | 31 |
| 33 | Daman & Diu | 22 |
| 34 | Delhi | 80 |
| 35 | Lakshadweep | 0 |
| 36 | Puducherry | 64 |
| Total | | 101011 |

Source : Roads Wing : Ministry of Road Transport & Highways

Note: All National Highways are surfaced

Lane wise Length of National Highways in India
As on 31.03.2016 (in km)

| Sl. No. | Name of State/ UT | Total Length | Less than Two-Lane | Two-Lane | Four-Lane and above |
|--------------|--------------------------|---------------|--------------------|--------------|---------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Andhra Pradesh | 5465 | 608 | 2993 | 1864 |
| 2 | Arunachal Pradesh | 2513 | 2091 | 403 | 19 |
| 3 | Assam | 3821 | 680 | 2527 | 614 |
| 4 | Bihar | 4839 | 1081 | 2970 | 788 |
| 5 | Chhattisgarh | 3078 | 558 | 2166 | 354 |
| 6 | Goa | 262 | 35 | 190 | 37 |
| 7 | Gujarat | 4971 | 571 | 2013 | 2387 |
| 8 | Haryana | 2622 | 18 | 1730 | 874 |
| 9 | Himachal Pradesh | 2642 | 1101 | 1524 | 17 |
| 10 | Jammu & Kashmir | 2601 | 690 | 1737 | 174 |
| 11 | Jharkhand | 2654 | 357 | 2022 | 275 |
| 12 | Karnataka | 6503 | 1516 | 3207 | 1780 |
| 13 | Kerala | 1812 | 339 | 1378 | 95 |
| 14 | Madhya Pradesh | 5194 | 685 | 3271 | 1238 |
| 15 | Maharashtra | 7435 | 1030 | 3070 | 3335 |
| 16 | Manipur | 1746 | 272 | 1442 | 32 |
| 17 | Meghalaya | 1203 | 666 | 480 | 57 |
| 18 | Mizoram | 1381 | 1161 | 220 | 0 |
| 19 | Nagaland | 1150 | 1062 | 88 | 0 |
| 20 | Odisha | 4838 | 261 | 3786 | 791 |
| 21 | Punjab | 2769 | 174 | 1859 | 736 |
| 22 | Rajasthan | 7906 | 728 | 4511 | 2667 |
| 23 | Sikkim | 463 | 216 | 247 | 0 |
| 24 | Tamil Nadu | 4946 | 125 | 2766 | 2055 |
| 25 | Telangana | 2696 | 319 | 1458 | 919 |
| 26 | Tripura | 805 | 621 | 184 | 0 |
| 27 | Uttarakhand | 2714 | 1983 | 692 | 39 |
| 28 | Uttar Pradesh | 8483 | 844 | 5224 | 2415 |
| 29 | West Bengal | 2956 | 539 | 1394 | 1023 |
| 30 | Andaman & Nicobar Island | 331 | 319 | 11 | 1 |
| 31 | Chandigarh | 15 | 0 | 0 | 15 |
| 32 | Dadar & Nagar Haveli | 31 | 31 | 0 | 0 |
| 33 | Daman & Diu | 22 | 22 | 0 | 0 |
| 34 | Delhi | 80 | 0 | 0 | 80 |
| 35 | Lakshadweep | 0 | 0 | 0 | 0 |
| 36 | Puducherry | 64 | 0 | 40 | 24 |
| Total | | 101011 | 20703 | 55603 | 24705 |

Source : Roads Wing Ministry of Road Transport & Highways

Note: All National Highways are surfaced.

ANNEXURE

STATE HIGHWAYS

Total and Surfaced Length of State Highways in India**As on 31.03.2016 (State/UT-wise)****(in km)**

| Sl.No. | Name of State/UT | Total | Surfaced |
|---------------|--------------------------|---------------|-----------------|
| 1 | 2 | 3 | 4 |
| 1 | Andhra Pradesh * | 6485 | 6381 |
| 2 | Arunachal Pradesh \$ | 8123 | 4043 |
| 3 | Assam | 2530 | 2180 |
| 4 | Bihar | 4253 | 4253 |
| 5 | Chhattisgarh | 4462 | 4332 |
| 6 | Goa | 279 | 279 |
| 7 | Gujarat | 17201 | 16983 |
| 8 | Haryana | 1801 | 1801 |
| 9 | Himachal Pradesh | 1466 | 1466 |
| 10 | Jammu & Kashmir | 130 | 130 |
| 11 | Jharkhand | 1296 | 1296 |
| 12 | Karnataka | 19578 | 19554 |
| 13 | Kerala | 4342 | 4342 |
| 14 | Madhya Pradesh | 10934 | 10934 |
| 15 | Maharashtra | 39000 | 38134 |
| 16 | Manipur | 715 | 715 |
| 17 | Meghalaya | 772 | 737 |
| 18 | Mizoram | 170 | 170 |
| 19 | Nagaland | 722 | 722 |
| 20 | Odisha | 4187 | 4182 |
| 21 | Punjab | 1133 | 1133 |
| 22 | Rajasthan | 15188 | 15108 |
| 23 | Sikkim | 701 | 701 |
| 24 | Tamil Nadu | 11752 | 11752 |
| 25 | Telangana | 2731 | 2731 |
| 26 | Tripura | 329 | 329 |
| 27 | Uttarakhand | 4521 | 4484 |
| 28 | Uttar Pradesh | 7147 | 7147 |
| 29 | West Bengal | 3612 | 3612 |
| 30 | Andaman & Nicobar Island | 266 | 266 |
| 31 | Chandigarh | 200 | 200 |
| 32 | Dadra & Nagar Haveli | 28 | 28 |
| 33 | Daman & Diu | 22 | 22 |
| 34 | Delhi | 0 | 0 |
| 35 | Lakshadweep | 0 | 0 |
| 36 | Puducherry | 89 | 89 |
| Total | | 176166 | 170237 |

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 for Andhra Pradesh are as on 31/03/2015.

Length of State Highways in India - By Type of Surface

As on 31.03.2016 (State/UT-wise)

(in km)

| Sl.No. | Name of State/UT | Total Length (6+7) | Surfaced | | | Un-surfaced |
|--------------|--------------------------|-----------------------|-------------|---------------|---------------|-------------|
| | | | WBM/WMM | BT/CC | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh * | 6485 | 2 | 6379 | 6381 | 104 |
| 2 | Arunachal Pradesh \$ | 8123 | 1286 | 2757 | 4043 | 4080 |
| 3 | Assam | 2530 | 0 | 2180 | 2180 | 350 |
| 4 | Bihar | 4253 | 0 | 4253 | 4253 | 0 |
| 5 | Chhattisgarh | 4462 | 251 | 4081 | 4332 | 130 |
| 6 | Goa | 279 | 6 | 274 | 279 | 0 |
| 7 | Gujarat | 17201 | 29 | 16954 | 16983 | 218 |
| 8 | Haryana | 1801 | 3 | 1798 | 1801 | 0 |
| 9 | Himachal Pradesh | 1466 | 0 | 1466 | 1466 | 0 |
| 10 | Jammu & Kashmir | 130 | 0 | 130 | 130 | 0 |
| 11 | Jharkhand | 1296 | 0 | 1296 | 1296 | 0 |
| 12 | Karnataka | 19578 | 91 | 19463 | 19554 | 24 |
| 13 | Kerala | 4342 | 0 | 4342 | 4342 | 0 |
| 14 | Madhya Pradesh | 10934 | 0 | 10934 | 10934 | 0 |
| 15 | Maharashtra | 39000 | 517 | 37617 | 38134 | 865 |
| 16 | Manipur | 715 | 60 | 655 | 715 | 0 |
| 17 | Meghalaya | 772 | 52 | 685 | 737 | 35 |
| 18 | Mizoram | 170 | 0 | 170 | 170 | 0 |
| 19 | Nagaland | 722 | 199 | 524 | 722 | 0 |
| 20 | Odisha | 4187 | 13 | 4169 | 4182 | 5 |
| 21 | Punjab | 1133 | 0 | 1133 | 1133 | 0 |
| 22 | Rajasthan | 15188 | 4 | 15104 | 15108 | 80 |
| 23 | Sikkim | 701 | 0 | 701 | 701 | 0 |
| 24 | Tamil Nadu | 11752 | 0 | 11752 | 11752 | 0 |
| 25 | Telangana | 2731 | 3 | 2728 | 2731 | 0 |
| 26 | Tripura | 329 | 0 | 329 | 329 | 0 |
| 27 | Uttarakhand | 4521 | 36 | 4449 | 4484 | 37 |
| 28 | Uttar Pradesh | 7147 | 0 | 7147 | 7147 | 0 |
| 29 | West Bengal | 3612 | 0 | 3612 | 3612 | 0 |
| 30 | Andaman & Nicobar Island | 266 | 0 | 266 | 266 | 0 |
| 31 | Chandigarh | 200 | 0 | 200 | 200 | 0 |
| 32 | Dadra & Nagar Haveli | 28 | 0 | 28 | 28 | 0 |
| 33 | Daman & Diu | 22 | 0 | 22 | 22 | 0 |
| 34 | Delhi | 0 | 0 | 0 | 0 | 0 |
| 35 | Lakshadweep | 0 | 0 | 0 | 0 | 0 |
| 36 | Puducherry | 89 | 0 | 89 | 89 | 0 |
| Total | | 176166 | 2550 | 167687 | 170237 | 5928 |

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

(2) 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).

(3) * Figures for Andhra Pradesh are as on 31/03/2015.

(4) Totals may not add up because of rounding off of decimals

ANNEXURE

DISTRICT ROADS

Total & Surfaced Length of District Roads
As on 31.03.2016 (State/UT-wise) (in km)

| Sl.No. | Name of State/UT | Total | Surfaced |
|--------------|--------------------------|---------------|---------------|
| 1 | 2 | 3 | 4 |
| 1 | Andhra Pradesh * | 35471 | 34732 |
| 2 | Arunachal Pradesh @ | 0 | 0 |
| 3 | Assam | 5788 | 4376 |
| 4 | Bihar | 10634 | 10634 |
| 5 | Chhattisgarh | 25308 | 22458 |
| 6 | Goa | 1173 | 1172 |
| 7 | Gujarat | 30809 | 30228 |
| 8 | Haryana | 21817 | 21739 |
| 9 | Himachal Pradesh | 2438 | 2438 |
| 10 | Jammu & Kashmir | 3917 | 3853 |
| 11 | Jharkhand | 9310 | 9186 |
| 12 | Karnataka | 49909 | 48853 |
| 13 | Kerala | 27471 | 27471 |
| 14 | Madhya Pradesh | 19429 | 19429 |
| 15 | Maharashtra | 109531 | 99617 |
| 16 | Manipur | 9466 | 4843 |
| 17 | Meghalaya | 5062 | 3936 |
| 18 | Mizoram | 1580 | 1371 |
| 19 | Nagaland | 6458 | 3682 |
| 20 | Odisha | 14694 | 14203 |
| 21 | Punjab | 6930 | 6930 |
| 22 | Rajasthan | 22571 | 21985 |
| 23 | Sikkim | 1415 | 660 |
| 24 | Tamil Nadu | 45538 | 45538 |
| 25 | Telangana | 22160 | 21562 |
| 26 | Tripura | 1189 | 1189 |
| 27 | Uttarakhand | 4791 | 4352 |
| 28 | Uttar Pradesh | 53373 | 53373 |
| 29 | West Bengal | 10444 | 10419 |
| 30 | Andaman & Nicobar Island | 139 | 139 |
| 31 | Chandigarh | 83 | 83 |
| 32 | Dadra & Nagar Haveli | 190 | 190 |
| 33 | Daman & Diu | 89 | 89 |
| 34 | Delhi | 2462 | 2462 |
| 35 | Lakshadweep | 0 | 0 |
| 36 | Puducherry | 302 | 302 |
| Total | | 561940 | 533493 |

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 for Andhra Pradesh are as on 31/03/2015.

Length of District Roads - By Type of Surface
As on 31.03.2016 (State/UT-wise) (in km)

| Sl.No. | Name of State/UT | Total Length (6+7) | Surfaced | | | Un-surfaced |
|--------------|--------------------------|-----------------------|--------------|---------------|----------------|--------------|
| | | | WBM/WMM | BT/CC | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh * | 35471 | 241 | 34491 | 34732 | 739 |
| 2 | Arunachal Pradesh @ | 0 | 0 | 0 | 0 | 0 |
| 3 | Assam | 5788 | 0 | 4376 | 4376 | 1412 |
| 4 | Bihar | 10634 | 0 | 10634 | 10634 | 0 |
| 5 | Chhattisgarh | 25308 | 2213 | 20245 | 22458 | 2850 |
| 6 | Goa | 1173 | 1 | 1172 | 1172 | 1 |
| 7 | Gujarat | 30809 | 293 | 29935 | 30228 | 581 |
| 8 | Haryana | 21817 | 0 | 21739 | 21739 | 78 |
| 9 | Himachal Pradesh | 2438 | 215 | 2223 | 2438 | 0 |
| 10 | Jammu & Kashmir | 3917 | 490 | 3362 | 3853 | 65 |
| 11 | Jharkhand | 9310 | 170 | 9016 | 9186 | 124 |
| 12 | Karnataka | 49909 | 1683 | 47169 | 48853 | 1057 |
| 13 | Kerala | 27470 | 0 | 27470 | 27470 | 0 |
| 14 | Madhya Pradesh | 19429 | 420 | 19009 | 19429 | 0 |
| 15 | Maharashtra | 109531 | 15764 | 83853 | 99617 | 9913 |
| 16 | Manipur | 9466 | 904 | 3940 | 4843 | 4623 |
| 17 | Meghalaya | 5062 | 196 | 3740 | 3936 | 1126 |
| 18 | Mizoram | 1580 | 0 | 1371 | 1371 | 209 |
| 19 | Nagaland | 6458 | 1723 | 1959 | 3682 | 2776 |
| 20 | Odisha | 14694 | 287 | 13916 | 14203 | 491 |
| 21 | Punjab | 6930 | 0 | 6930 | 6930 | 0 |
| 22 | Rajasthan | 22571 | 17 | 21968 | 21985 | 586 |
| 23 | Sikkim | 1415 | 97 | 562 | 660 | 756 |
| 24 | Tamil Nadu | 45538 | 0 | 45538 | 45538 | 0 |
| 25 | Telangana | 22160 | 316 | 21246 | 21562 | 598 |
| 26 | Tripura | 1189 | 0 | 1189 | 1189 | 0 |
| 27 | Uttarakhand | 4791 | 64 | 4287 | 4352 | 440 |
| 28 | Uttar Pradesh | 53373 | 0 | 53373 | 53373 | 0 |
| 29 | West Bengal | 10444 | 4 | 10415 | 10419 | 25 |
| 30 | Andaman & Nicobar Island | 139 | 0 | 139 | 139 | 0 |
| 31 | Chandigarh | 83 | 0 | 82 | 83 | 0 |
| 32 | Dadra & Nagar Haveli | 190 | 0 | 190 | 190 | 0 |
| 33 | Daman & Diu | 89 | 0 | 89 | 89 | 0 |
| 34 | Delhi | 2462 | 0 | 2462 | 2462 | 0 |
| 35 | Lakshadweep | 0 | 0 | 0 | 0 | 0 |
| 36 | Puducherry | 302 | 1 | 301 | 302 | 0 |
| Total | | 561940 | 25100 | 508392 | 533493 | 28447 |

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

Totals may not add up because of rounding off of decimals

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

* Figures for Andhra Pradesh are as on 31/03/2015.

ANNEXURE

RURAL ROADS

Total & Surfaced Length of Rural Roads
As on 31.03.2016 (State/UT-wise) (in km)

| Sl.No. | Name of State/UT | Total | Surfaced |
|------------------------------------|----------------------|----------------|----------------|
| 1 | 2 | 3 | 4 |
| 1 | Andhra Pradesh | 97666 | 48339 |
| 2 | Arunachal Pradesh | 14509 | 8038 |
| 3 | Assam | 291933 | 48704 |
| 4 | Bihar | 175373 | 99476 |
| 5 | Chhattisgarh | 35048 | 29565 |
| 6 | Goa | 13303 | 8441 |
| 7 | Gujarat | 85989 | 76543 |
| 8 | Haryana | 6974 | 5561 |
| 9 | Himachal Pradesh | 44755 | 35170 |
| 10 | Jammu And Kashmir | 22698 | 20328 |
| 11 | Jharkhand | 36076 | 34158 |
| 12 | Karnataka | 200389 | 105056 |
| 13 | Kerala | 127985 | 79090 |
| 14 | Madhya Pradesh | 203542 | 183817 |
| 15 | Maharashtra | 413146 | 306755 |
| 16 | Manipur | 11121 | 6720 |
| 17 | Meghalaya | 13534 | 4488 |
| 18 | Mizoram | 3487 | 2995 |
| 19 | Nagaland | 26631 | 10662 |
| 20 | Odisha | 217919 | 216259 |
| 21 | Punjab | 70362 | 69722 |
| 22 | Rajasthan | 171259 | 131175 |
| 23 | Sikkim | 4796 | 3562 |
| 24 | Tamilnadu | 165292 | 123014 |
| 25 | Telangana | 81640 | 47642 |
| 26 | Tripura | 35041 | 17351 |
| 27 | Uttarakhand | 24755 | 18244 |
| 28 | Uttar Pradesh | 245396 | 222357 |
| 29 | West Bengal | 191354 | 41505 |
| 30 | A & N Islands | 437 | 437 |
| 31 | Chandigarh | 0 | 0 |
| 32 | Dadra & Nagar Haveli | 802 | 802 |
| 33 | Daman & Diu | 218 | 218 |
| 34 | Delhi | 0 | 0 |
| 35 | Lakshadweep | 207 | 207 |
| 36 | Pondichery | 1702 | 1375 |
| Total (Excluding JRY Roads) | | 3035337 | 2007777 |
| Total (Including JRY Roads) | | 3935337 | 2190979 |

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 2016 (State/UT-wise)

(in km)

| S.No | Name of State/UT | Surfaced | | | | Unsurfaced |
|--------------|----------------------|--------------------|--------------|---------------|---------------|--------------|
| | | Total Length (6+7) | W.B.M | BT/CC | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | 19384 | 1597 | 13119 | 14715 | 4669 |
| 2 | Arunachal Pradesh | 6481 | 1133 | 5287 | 6420 | 61 |
| 3 | Assam | 17628 | 1597 | 16000 | 17598 | 31 |
| 4 | Bihar | 52775 | 13392 | 36644 | 50036 | 2739 |
| 5 | Chhattisgarh | 35048 | 3279 | 26286 | 29565 | 5483 |
| 6 | Goa | 207 | 24 | 159 | 183 | 24 |
| 7 | Gujarat | 18441 | 428 | 12227 | 12655 | 5786 |
| 8 | Haryana | 6974 | 52 | 5509 | 5561 | 1412 |
| 9 | Himachal Pradesh | 14857 | 1343 | 11400 | 12743 | 2114 |
| 10 | Jammu And Kashmir | 10387 | 3529 | 6609 | 10139 | 248 |
| 11 | Jharkhand | 21150 | 6582 | 12649 | 19232 | 1919 |
| 12 | Karnataka | 22847 | 1025 | 17597 | 18623 | 4224 |
| 13 | Kerala | 6743 | 859 | 2499 | 3358 | 3385 |
| 14 | Madhya Pradesh | 73661 | 7420 | 64839 | 72260 | 1401 |
| 15 | Maharashtra | 31012 | 3215 | 23838 | 27054 | 3959 |
| 16 | Manipur | 7405 | 1955 | 4765 | 6720 | 685 |
| 17 | Meghalaya | 2203 | 909 | 1294 | 2203 | 0 |
| 18 | Mizoram | 2852 | 393 | 2459 | 2852 | 0 |
| 19 | Nagaland | 3638 | 234 | 3396 | 3630 | 9 |
| 20 | Odisha | 46849 | 9021 | 36168 | 45189 | 1660 |
| 21 | Punjab | 8926 | 1514 | 6773 | 8286 | 639 |
| 22 | Rajasthan | 63873 | 3732 | 58702 | 62434 | 1439 |
| 23 | Sikkim | 4780 | 539 | 3015 | 3553 | 1226 |
| 24 | Tamilnadu | 17749 | 1052 | 12984 | 14036 | 3713 |
| 25 | Telangana | 11254 | 943 | 9471 | 10414 | 840 |
| 26 | Tripura | 6479 | 1331 | 3463 | 4793 | 1685 |
| 27 | Uttarakhand | 9104 | 1775 | 6837 | 8612 | 492 |
| 28 | Uttar Pradesh | 74113 | 4356 | 48249 | 52605 | 21508 |
| 29 | West Bengal | 29270 | 5005 | 20390 | 25395 | 3875 |
| 30 | A & N Islands | 0 | 0 | 0 | 0 | 0 |
| 31 | Chandigarh | 0 | 0 | 0 | 0 | 0 |
| 32 | Dadra & Nagar Haveli | 182 | 182 | 0 | 182 | 0 |
| 33 | Daman & Diu | 0 | 0 | 0 | 0 | 0 |
| 34 | Delhi | 0 | 0 | 0 | 0 | 0 |
| 35 | Lakshadweep | 0 | 0 | 0 | 0 | 0 |
| 36 | Pondichery | 107 | 19 | 69 | 88 | 19 |
| Total | | 626377 | 78437 | 472696 | 551132 | 75245 |

Note: Totals may not add up because of rounding off of decimals.

Length of Rural Roads built by State PWD/RWD - By Type of Surface

| As on 31.03.2016 (State/UT-wise) (in km) | | | | | | |
|--|--------------------------|--------------------|----------|--------|-------------|-------------|
| Sl.No. | Name of State/UT | Total Length (6+7) | Surfaced | | | Un-surfaced |
| | | | WBM/WMM | BT/CC | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | | | | | |
| 2 | Arunachal Pradesh | 2783 | 317 | 82 | 399 | 2383 |
| 3 | Assam | 36544 | 0 | 18990 | 18990 | 17554 |
| 4 | Bihar \$ | | | | | |
| 5 | Chhattisgarh \$ | | | | | |
| 6 | Goa | 3328 | 34 | 2625 | 2659 | 669 |
| 7 | Gujarat | 23114 | 499 | 21622 | 22121 | 993 |
| 8 | Haryana \$ | | | | | |
| 9 | Himachal Pradesh | 28203 | 5002 | 17162 | 22164 | 6039 |
| 10 | Jammu & Kashmir | 9571 | 3836 | 4660 | 8496 | 1075 |
| 11 | Jharkhand | 14926 | 0 | 14926 | 14926 | 0 |
| 12 | Karnataka \$ | | | | | |
| 13 | Kerala \$ | | | | | |
| 14 | Madhya Pradesh | 26482 | 4980 | 18762 | 23742 | 2740 |
| 15 | Maharashtra | 146136 | 47151 | 53830 | 100981 | 45154 |
| 16 | Manipur \$ | | | | | |
| 17 | Meghalaya | 2112 | 70 | 1073 | 1142 | 969 |
| 18 | Mizoram | 635 | 0 | 144 | 144 | 491 |
| 19 | Nagaland | 3538 | 431 | 0 | 431 | 3107 |
| 20 | Odisha \$ | | | | | |
| 21 | Punjab \$ | | | | | |
| 22 | Rajasthan | 63099 | 300 | 60282 | 60582 | 2517 |
| 23 | Sikkim | | | | | |
| 24 | Tamil Nadu \$ | | | | | |
| 25 | Telangana \$ | | | | | |
| 26 | Tripura | 6037 | 847 | 4659 | 5506 | 531 |
| 27 | Uttarakhand | 15652 | 602 | 9031 | 9632 | 6020 |
| 28 | Uttar Pradesh | 163116 | 0 | 163035 | 163035 | 81 |
| 29 | West Bengal | 1468 | 0 | 1426 | 1426 | 42 |
| 30 | Andaman & Nicobar Island | 437 | 10 | 427 | 437 | 0 |
| 31 | Chandigarh \$ | | | | | |
| 32 | Dadra & Nagar Haveli | 620 | 3 | 617 | 620 | 0 |
| 33 | Daman & Diu | 126 | 0 | 126 | 126 | 0 |
| 34 | Delhi \$ | | | | | |
| 35 | Lakshadweep | 207 | 0 | 207 | 207 | 0 |
| 36 | Puducherry | 254 | 0 | 254 | 254 | 0 |
| Total | | 548387 | 64082 | 393939 | 458021 | 90366 |

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

\$ This category of Rural Roads built by above agencies does not exist in these States & UTs /alternatively they have not furnished data.

Length of Panchayati Raj Roads - By Type of Surface

As on 31.03.2016 (State/UT-wise)

(in km)

| Sl. No. | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|--------------|----------------------|--------------------|---------------|---------------|---------------|---------------|
| | | | W.B.M. | BT/CC | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | 78282 | 10614 | 23010 | 33624 | 44658 |
| 2 | Arunachal Pradesh | 5245 | 0 | 1219 | 1219 | 4026 |
| 3 | Assam | 237761 | 8378 | 3738 | 12116 | 225645 |
| 4 | Bihar | 122598 | 7240 | 42200 | 49440 | 73158 |
| 5 | Chhatisgarh | | | | | |
| 6 | Goa | 9768 | 1043 | 4556 | 5599 | 4169 |
| 7 | Gujarat | 44434 | 5640 | 36127 | 41767 | 2667 |
| 8 | Haryana | | | | | |
| 9 | Himachal Pradesh | 1695 | 72 | 191 | 263 | 1432 |
| 10 | Jammu & Kashmir | 2740 | 1693 | 0 | 1693 | 1047 |
| 11 | Jharkhand | | | | | |
| 12 | Karnataka | 177542 | 23059 | 63374 | 86433 | 91109 |
| 13 | Kerala | 121242 | 15924 | 59808 | 75732 | 45510 |
| 14 | Madhya Pradesh | 103399 | 0 | 87815 | 87815 | 15584 |
| 15 | Maharashtra | 235998 | 76527 | 102193 | 178720 | 57278 |
| 16 | Manipur | 3716 | 0 | 0 | 0 | 3716 |
| 17 | Meghalaya | 9219 | 460 | 683 | 1143 | 8076 |
| 18 | Mizoram | | | | | |
| 19 | Nagaland | 19455 | 3141 | 3461 | 6602 | 12853 |
| 20 | Odisha | 171070 | 171070 | 0 | 171070 | 0 |
| 21 | Punjab | 61436 | 0 | 61436 | 61436 | 0 |
| 22 | Rajasthan | 44287 | 3914 | 4245 | 8159 | 36128 |
| 23 | Sikkim | 16 | 2 | 7 | 9 | 7 |
| 24 | Tamil Nadu | 147543 | 10155 | 98823 | 108978 | 38565 |
| 25 | Telangana | 70386 | 13011 | 24217 | 37228 | 33158 |
| 26 | Tripura | 22525 | 1829 | 5223 | 7052 | 15473 |
| 27 | Uttarakhand | | | | | |
| 28 | Uttar Pradesh | 8167 | 1020 | 5697 | 6717 | 1450 |
| 29 | West Bengal | 160616 | 1910 | 12774 | 14684 | 145932 |
| 30 | A & N Islands | | | | | |
| 31 | Chandigarh | | | | | |
| 32 | Dadra & Nagar Haveli | | | | | |
| 33 | Daman & Diu | 92 | 1 | 91 | 92 | 0 |
| 34 | Delhi | | | | | |
| 35 | Lakshadweep | | | | | |
| 36 | Puducherry | 1341 | 217 | 816 | 1033 | 308 |
| Total | | 1860573 | 356920 | 641704 | 998624 | 861949 |

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

ANNEXURE

URBAN ROADS

Annexure 6.1

Total & Surfaced Length of Urban Roads
As on 31.03.2016 (State/UT-wise) (in km)

| Sl.No. | Name of State/UT | Total | Surfaced |
|--------------|----------------------|---------------|---------------|
| 1 | 2 | 3 | 4 |
| 1 | Andhra Pradesh | 24124 | 19544 |
| 2 | Arunachal Pradesh | 266 | 201 |
| 3 | Assam | 6306 | 4049 |
| 4 | Bihar | 8826 | 3702 |
| 5 | Chhattisgarh | 12247 | 10464 |
| 6 | Goa | 865 | 769 |
| 7 | Gujarat | 27360 | 22503 |
| 8 | Haryana | 14680 | 10529 |
| 9 | Himachal Pradesh | 1127 | 1045 |
| 10 | Jammu And Kashmir | 1668 | 1668 |
| 11 | Jharkhand | 6003 | 4692 |
| 12 | Karnataka | 51357 | 35668 |
| 13 | Kerala | 30788 | 25711 |
| 14 | Madhya Pradesh | 15741 | 11819 |
| 15 | Maharashtra | 23870 | 18887 |
| 16 | Manipur | 151 | 96 |
| 17 | Meghalaya | 171 | 167 |
| 18 | Mizoram | 395 | 363 |
| 19 | Nagaland | 99 | 97 |
| 20 | Odisha | 20842 | 15793 |
| 21 | Punjab | 17534 | 15387 |
| 22 | Rajasthan | 27544 | 23429 |
| 23 | Sikkim | 48 | 46 |
| 24 | Tamilnadu | 24496 | 22787 |
| 25 | Telangana | 10256 | 9338 |
| 26 | Tripura | 602 | 424 |
| 27 | Uttarakhand | 5573 | 3949 |
| 28 | Uttar Pradesh | 62565 | 47469 |
| 29 | West Bengal | 95267 | 66954 |
| 30 | A & N Islands | 143 | 142 |
| 31 | Chandigarh | 2523 | 2523 |
| 32 | Dadra & Nagar Haveli | 83 | 83 |
| 33 | Daman & Diu | 145 | 145 |
| 34 | Delhi | 15083 | 15081 |
| 35 | Lakshadweep | 2 | 2 |
| 36 | Pondichery | 982 | 932 |
| Total | | 509730 | 396458 |

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 31.03.2016 (State/UT-wise)

(in km)

| Sl.No. | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|--------------|----------------------------|--------------------|--------------|---------------|---------------|---------------|
| | | | WBM/WMM | BT/CC | Total (4+5) | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh * | 22988 | 3910 | 14529 | 18439 | 4549 |
| 2 | Arunachal Pradesh # | 168 | 4 | 101 | 105 | 63 |
| 3 | Assam | 4729 | 620 | 1890 | 2510 | 2219 |
| 4 | Bihar @ | 8537 | 1112 | 2375 | 3487 | 5050 |
| 5 | Chhattisgarh | 11846 | 1000 | 9092 | 10092 | 1754 |
| 6 | Goa | 631 | 81 | 454 | 535 | 95 |
| 7 | Gujarat | 26111 | 2939 | 18315 | 21254 | 4857 |
| 8 | Haryana | 13747 | 594 | 9114 | 9708 | 4039 |
| 9 | Himachal Pradesh | 645 | 0 | 645 | 645 | 0 |
| 10 | Jammu & Kashmir @ | 441 | 2 | 439 | 441 | 0 |
| 11 | Jharkhand \$ | 5335 | 346 | 3717 | 4063 | 1271 |
| 12 | Karnataka | 50343 | 6837 | 27833 | 34670 | 15673 |
| 13 | Kerala | 30332 | 3394 | 21937 | 25331 | 5001 |
| 14 | Madhya Pradesh | 14175 | 1896 | 8417 | 10313 | 3862 |
| 15 | Maharashtra | 20958 | 4095 | 12382 | 16477 | 4481 |
| 16 | Manipur @ | 122 | 22 | 46 | 68 | 54 |
| 17 | Meghalaya @ | 30 | 0 | 26 | 26 | 4 |
| 18 | Mizoram ** | 380 | 2 | 349 | 351 | 29 |
| 19 | Nagaland | 0 | | | | |
| 20 | Odisha | 19896 | 3938 | 10957 | 14896 | 5000 |
| 21 | Punjab | 15183 | 1023 | 12055 | 13078 | 2105 |
| 22 | Rajasthan @ | 24986 | 1867 | 19179 | 21046 | 3940 |
| 23 | Sikkim | 48 | 0 | 46 | 46 | 2 |
| 24 | Tamil Nadu | 23350 | 773 | 20939 | 21712 | 1638 |
| 25 | Telangana @@ | 9103 | 82 | 8105 | 8187 | 917 |
| 26 | Tripura | 518 | 115 | 257 | 372 | 146 |
| 27 | Uttarakhand ## | 4797 | 363 | 2815 | 3178 | 1618 |
| 28 | Uttar Pradesh | 59960 | 0 | 45220 | 45220 | 14740 |
| 29 | West Bengal @ | 92963 | 4831 | 59928 | 64759 | 28204 |
| 30 | Andaman & Nicobar Islands@ | 42 | 0 | 42 | 42 | 0 |
| 31 | Chandigarh | 2334 | 0 | 2334 | 2334 | 0 |
| 32 | Dadra & Nagar Haveli **** | 83 | 0 | 83 | 83 | 0 |
| 33 | Daman & Diu | 45 | 0 | 45 | 45 | 0 |
| 34 | Delhi *** | 14317 | 0 | 14317 | 14317 | 0 |
| 35 | Lakshadweep ^ | 0 | 0 | 0 | 0 | 0 |
| 36 | Puducherry | 964 | 132 | 785 | 917 | 47 |
| Total | | 480105 | 39979 | 328768 | 368747 | 111358 |

Source: State & UT Urban Departments.

* The total is for all 110 Municipalities of Andhra Pradesh.

** Mizoram has only one Municipal Corporation – Aizwal Municipal Corporation. The road under this Corporation is under purview of PWD.

*** This data is for North, South & New Delhi Municipal Corporations.

**** D&N Haveli has only one municipality – Silvassa Municipal Council

\$ The Jharkhand data covers all 40 Urban local bodies.

^ There are no Municipalities in Lakshadweep. The data is therefore nil.

@Figure is as on 31/03/2015- Data not received.

@@ includes data for only Greater Hyderabad Municipal Corporation.

The figure for Arunachal Pradesh includes only Itanagar Municipal Council.

The figure Uttarakhand includes only Municipalities of Nanital, Bageshwar, Pauri Garhwal, Chamoli.

Length of Military Engineering Service Roads - By Type of Surface

As on 31.03.2016 (State/UT-wise)

(in km)

| Sl. No. | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|--------------|---------------------------|--------------------|------------|--------------|--------------|------------|
| | | | W.B.M. | B.T./C.C | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | 318 | 0 | 318 | 318 | 0 |
| 2 | Arunachal Pradesh | 94 | | 94 | 94 | 0 |
| 3 | Assam | 976 | 1 | 969 | 970 | 6 |
| 4 | Bihar | 51 | 0 | 51 | 51 | 0 |
| 5 | Chhattisgarh | 0 | 0 | 0 | 0 | 0 |
| 6 | Goa | 124 | 0 | 124 | 124 | 0 |
| 7 | Gujarat | 998 | 0 | 998 | 998 | 0 |
| 8 | Haryana | 499 | 0 | 484 | 484 | 15 |
| 9 | Himachal Pradesh | 185 | 1 | 180 | 181 | 4 |
| 10 | Jammu & Kashmir | 1174 | 51 | 1123 | 1174 | 0 |
| 11 | Jharkhand | 123 | 0 | 123 | 123 | 0 |
| 12 | Karnataka | 632 | 45 | 585 | 630 | 2 |
| 13 | Kerala | 307 | 0 | 235 | 235 | 72 |
| 14 | Madhya Pradesh | 903 | 0 | 903 | 903 | 0 |
| 15 | Maharashtra | 1838 | 0 | 1500 | 1500 | 338 |
| 16 | Manipur | 25 | 0 | 25 | 25 | 0 |
| 17 | Meghalaya | 139 | 10 | 129 | 139 | 0 |
| 18 | Mizoram | 7 | 0 | 7 | 7 | 0 |
| 19 | Nagaland | 87 | 0 | 87 | 87 | 0 |
| 20 | Odisha | 197 | 0 | 197 | 197 | 0 |
| 21 | Punjab | 2073 | 0 | 2072 | 2072 | 1 |
| 22 | Rajasthan | 1703 | 53 | 1551 | 1604 | 99 |
| 23 | Sikkim | 0 | 0 | 0 | 0 | 0 |
| 24 | Tamil Nadu | 477 | 37 | 440 | 477 | 0 |
| 25 | Telangana | 434 | 62 | 372 | 434 | 0 |
| 26 | Tripura | 21 | 0 | 21 | 21 | 0 |
| 27 | Uttarakhand | 753 | 14 | 736 | 750 | 3 |
| 28 | Uttar Pradesh | 859 | 16 | 843 | 859 | 0 |
| 29 | West Bengal | 970 | 14 | 954 | 968 | 2 |
| 30 | Andaman & Nicobar Islands | 90 | 0 | 90 | 90 | 0 |
| 31 | Chandigarh | 189 | 0 | 189 | 189 | 0 |
| 32 | Dadra Nagar Haveli | 0 | 0 | 0 | 0 | 0 |
| 33 | Daman & Diu | 92 | 0 | 92 | 92 | 0 |
| 34 | Delhi | 571 | 96 | 475 | 571 | 0 |
| 35 | Lakshadweep | 2 | 0 | 2 | 2 | 0 |
| 36 | Pondicherry | 0 | 0 | 0 | 0 | 0 |
| Total | | 16911 | 400 | 15969 | 16369 | 542 |

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 31.03.2016 (State/UT-wise)

(in km)

| 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 |
| Andhra Pradesh | Visakhapatnam | 103 | 3 | 100 | 103 | 0 |
| | | | | | | |
| Goa | Mormugoa | 25 | 0 | 25 | 25 | 0 |
| | | | | | | |
| Gujarat | Kandla | 97 | 0 | 97 | 97 | 0 |
| | | | | | | |
| Karnataka | New Mangalore | 47 | 3 | 44 | 47 | 0 |
| | | | | | | |
| Kerala | Cochin | 36 | 5 | 31 | 36 | 0 |
| | | | | | | |
| Maharashtra | Jawaharlal Nehru Port Trust | 64 | 0 | 56 | 56 | 8 |
| | Mumbai Port Trust | 67 | 0 | 67 | 67 | 0 |
| | | | | | | |
| Odisha | Paradeep | 121 | 4 | 115 | 119 | 2 |
| | | | | | | |
| Tamil Nadu | Chennai Port | 30 | 2 | 28 | 30 | |
| | Kamrajar Port (Ennore Port Trust) | 14 | 0 | 14 | 14 | 0 |
| | Tuticorin | 78 | 0 | 78 | 78 | 0 |
| | | | | | | |
| West Bengal | Kolkata Port | 50 | 47 | 3 | 50 | 0 |
| | Haldia Dock | 104 | 0 | 104 | 104 | 0 |
| Total | | 836 | 64 | 762 | 826 | 10 |

Source: Individual Port Trusts

Annexure 6.5

Length of Minor Ports - By Type of surface
As on 31/03/2016 (State/UT-wise)

(in km)

| 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 |
| Andhra Pradesh | Bhavanapadu | 18 | 0 | 18 | 18 | 0 |
| | Kakinada | | | | | |
| | Machilipatnam | | | | | |
| | Nizampatnam | | | | | |
| Goa | Tiracol | 80 | 0 | 80 | 80 | 0 |
| | Chapora | | | | | |
| | Panajim | | | | | |
| | Betul | | | | | |
| | Talpona | | | | | |
| Gujarat | 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 | | | | | |
| Kerala | Vizhinjam | 12 | 0 | 12 | 12 | 0 |
| | Valiyathura | | | | | |
| | Kollam | | | | | |
| | Kochupilamoodu | | | | | |
| | Neendakara | | | | | |
| | Sakthikulangara | | | | | |
| | Pullikkada | | | | | |
| | Alappuzha | | | | | |
| | Kodungallur | | | | | |
| | Kayamkulam | | | | | |
| | Ponnani | | | | | |
| | Thalassery | | | | | |
| | Azhikkal | | | | | |
| | Kasaragod | | | | | |
| | Beypore | | | | | |
| | Kannur | | | | | |

contd. Annexure 6.5

| 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 |
| Karnataka | Karwar | 15 | 0 | 15 | 15 | 0 |
| | Old Mangalore | | | | | |
| | Belekeri | | | | | |
| | Honnavar | | | | | |
| | Bhatkal | | | | | |
| | Hangarakatta | | | | | |
| | Malpe | | | | | |
| | Tadadi | | | | | |
| | Padubidri | | | | | |
| | Kundapura | | | | | |
| Odisha | | 46 | 13 | 16 | 29 | 17 |
| | Gopalpur | | | | | |
| | Dhamara | | | | | |
| A & N Islands | Port Blair | 11 | 3 | 7 | 10 | 1 |
| | Campbell Bay | | | | | |
| | Hut Bay | | | | | |
| | Rangat Bay | | | | | |
| | Car nicobar | | | | | |
| Daman & Diu | Daman | 8 | 0 | 8 | 8 | 0 |
| | Diu | | | | | |
| | | | | | | |
| Puducherry | Pondicherry | 17 | 1 | 13 | 14 | 3 |
| | Karaikal | | | | | |
| | | | | | | |
| Tamil Nadu * | Cuddalore | 0 | 0 | | 0 | 0 |
| | Nagapattinam | | | | | |
| | Rameswaram | | | | | |
| | Colachel | | | | | |
| Total | | 361 | 24 | 316 | 340 | 21 |

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 bords but are under National Highways and State Highways.

Annexure No. 6.6

Length of Roads in Railway Zones - By Type of Surface in India

As on 31.03.2016 (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) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | 697 | 53 | 613 | 666 | 31 |
| 2 | Arunachal Pradesh | 4 | 0 | 2 | 2 | 2 |
| 3 | Assam | 601 | 37 | 532 | 569 | 32 |
| 4 | Bihar | 238 | 18 | 146 | 164 | 74 |
| 5 | Chhattisgarh | 401 | 38 | 334 | 372 | 29 |
| 6 | Goa | 5 | 0 | 5 | 5 | 0 |
| 7 | Gujarat | 0 | 0 | 0 | 0 | 0 |
| 8 | Haryana | 434 | 19 | 318 | 337 | 97 |
| 9 | Himachal Pradesh | 297 | 3 | 216 | 219 | 78 |
| 10 | Jammu & Kashmir | 53 | 0 | 53 | 53 | 0 |
| 11 | Jharkhand | 545 | 97 | 409 | 506 | 39 |
| 12 | Karnataka | 320 | 48 | 258 | 306 | 14 |
| 13 | Kerala | 101 | 11 | 86 | 97 | 4 |
| 14 | Madhya Pradesh | 663 | 111 | 492 | 603 | 60 |
| 15 | Maharashtra | 943 | 143 | 644 | 787 | 156 |
| 16 | Manipur | 4 | 2 | 1 | 3 | 1 |
| 17 | Meghalaya | 2 | 0 | 2 | 2 | 0 |
| 18 | Mizoram | 8 | 2 | 3 | 5 | 3 |
| 19 | Nagaland | 12 | 1 | 9 | 10 | 2 |
| 20 | Odisha | 582 | 66 | 486 | 552 | 30 |
| 21 | Punjab | 278 | 42 | 195 | 237 | 41 |
| 22 | Rajasthan | 855 | 118 | 661 | 779 | 76 |
| 23 | Sikkim | 0 | 0 | 0 | 0 | 0 |
| 24 | Tamil Nadu | 547 | 82 | 394 | 476 | 71 |
| 25 | Telangana | 719 | 51 | 666 | 717 | 2 |
| 26 | Tripura | 63 | 14 | 17 | 31 | 32 |
| 27 | Uttarakhand | 23 | 1 | 20 | 21 | 2 |
| 28 | Uttar Pradesh | 1746 | 102 | 1288 | 1390 | 356 |
| 29 | West Bengal | 1180 | 168 | 905 | 1073 | 107 |
| 30 | Andaman & Nicobar Islands | 0 | 0 | 0 | 0 | 0 |
| 31 | UT Chandigarh | 0 | 0 | 0 | 0 | 0 |
| 32 | Dadra & Nagar Haveli | 0 | 0 | 0 | 0 | 0 |
| 33 | Daman & Diu | 0 | 0 | 0 | 0 | 0 |
| 34 | Delhi | 195 | 12 | 181 | 193 | 2 |
| 35 | Lakshadweep | 0 | 0 | 0 | 0 | 0 |
| 36 | Puducherry | 1 | 0 | 1 | 1 | 0 |
| Total | | 11517 | 1239 | 8937 | 10176 | 1341 |

Source : Data based on Railway Zones which had reported.

1: Figures for North Western and North Central Railway are as on 31.3.2012

2: Figures for East Central Railway is as on 31.3.2008

3: Figures for Central Railway is as on 31.3.2006

4: Figures for Northern Railway is as on 31.3.2004

ANNEXURE

PROJECT ROADS

Annexure 7.1
**Total & Surfaced Length of Project Roads
As on 31.03.2016 (State/UT-wise) (in km)**

| Sl.No. | Name of State/UT | Total | Surfaced |
|--------------|----------------------|---------------|---------------|
| 1 | 2 | 3 | 4 |
| 1 | Andhra Pradesh | 5156 | 2202 |
| 2 | Arunachal Pradesh | 5282 | 3553 |
| 3 | Assam | 19142 | 1442 |
| 4 | Bihar | 2559 | 508 |
| 5 | Chhattisgarh | 15666 | 7172 |
| 6 | Goa | 181 | 66 |
| 7 | Gujarat | 12814 | 4948 |
| 8 | Haryana | 589 | 146 |
| 9 | Himachal Pradesh | 3331 | 919 |
| 10 | Jammu And Kashmir | 18702 | 5667 |
| 11 | Jharkhand | 11447 | 6046 |
| 12 | Karnataka | 17779 | 7417 |
| 13 | Kerala | 8411 | 3795 |
| 14 | Madhya Pradesh | 35100 | 9446 |
| 15 | Maharashtra | 20436 | 7235 |
| 16 | Manipur | 1577 | 1469 |
| 17 | Meghalaya | 985 | 134 |
| 18 | Mizoram | 1095 | 857 |
| 19 | Nagaland | 1054 | 825 |
| 20 | Odisha | 25603 | 9319 |
| 21 | Punjab | 9651 | 2208 |
| 22 | Rajasthan | 9811 | 6044 |
| 23 | Sikkim | 820 | 742 |
| 24 | Tamilnadu | 9011 | 5563 |
| 25 | Telangana | 4089 | 2197 |
| 26 | Tripura | 1400 | 53 |
| 27 | Uttarakhand | 18664 | 1841 |
| 28 | Uttar Pradesh | 45448 | 13187 |
| 29 | West Bengal | 13096 | 4572 |
| 30 | A & N Islands | 177 | 128 |
| 31 | Chandigarh | 0 | 0 |
| 32 | Dadra & Nagar Haveli | 0 | 0 |
| 33 | Daman & Diu | 0 | 0 |
| 34 | Delhi | 0 | 0 |
| 35 | Lakshadweep | 0 | 0 |
| 36 | Pondichery | 34 | 26 |
| Total | | 319109 | 109727 |

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 31.03.2016 (State/UT-wise)****(in km)**

| Sl.No | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|-------|---------------------------|-----------------------|--------------|--------------|--------------|---------------|
| | | | W.B.M. | B.T./C.C | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh * | 4096 | 1247 | 63 | 1311 | 2785 |
| 2 | Arunachal Pradesh | 1034 | 7 | 40 | 48 | 987 |
| 3 | Assam | 17307 | 392 | 686 | 1078 | 16229 |
| 4 | Bihar * | 2030 | 0 | 0 | 0 | 2030 |
| 5 | Chhattisgarh | 10868 | 5055 | 0 | 5055 | 5813 |
| 6 | Goa * | 181 | 17 | 49 | 66 | 115 |
| 7 | Gujarat | 3879 | 578 | 2052 | 2630 | 1248 |
| 8 | Haryana * | 459 | 2 | 14 | 16 | 443 |
| 9 | Himachal Pradesh | 2254 | 0 | 26 | 26 | 2228 |
| 10 | Jammu & Kashmir | 11461 | 0 | 76 | 76 | 11385 |
| 11 | Jharkhand | 9442 | 1729 | 2470 | 4199 | 5243 |
| 12 | Karnataka | 7477 | 477 | 404 | 881 | 6596 |
| 13 | Kerala | 4730 | 870 | 471 | 1341 | 3389 |
| 14 | Madhya Pradesh | 29798 | 2208 | 4946 | 7154 | 22644 |
| 15 | Maharashtra | 12664 | 3585 | 340 | 3925 | 8739 |
| 16 | Manipur | | | | | |
| 17 | Meghalaya | 678 | 0 | 4 | 4 | 674 |
| 18 | Mizoram | 42 | 6 | 12 | 18 | 24 |
| 19 | Nagaland * | 289 | 0 | 102 | 102 | 187 |
| 20 | Odisha | 7575 | 1074 | 117 | 1191 | 6384 |
| 21 | Punjab | 707 | 0 | 0 | 0 | 707 |
| 22 | Rajasthan | 5260 | 341 | 1578 | 1919 | 3340 |
| 23 | Sikkim | 6 | 0 | 4 | 4 | 2 |
| 24 | Tamil Nadu | 3351 | 833 | 799 | 1632 | 1719 |
| 25 | Telangana * | 2252 | 611 | 160 | 771 | 1481 |
| 26 | Tripura * | 1346 | | 11 | 11 | 1334 |
| 27 | Uttarakhand | 16993 | 0 | 454 | 454 | 16539 |
| 28 | Uttar Pradesh | 8510 | 984 | 657 | 1641 | 6869 |
| 29 | West Bengal | 6203 | 751 | 400 | 1151 | 5052 |
| 30 | Andaman & Nicobar Islands | 177 | 110 | 18 | 128 | 49 |
| 31 | UT Chandigarh | | | | | |
| 32 | Dadra & Nagar Haveli | | | | | |
| 33 | Daman & Diu | | | | | |
| 34 | Delhi | | | | | |
| 35 | Lakshadweep | | | | | |
| 36 | Puducherry | | | | | |
| | Total | 171068 | 20878 | 15955 | 36833 | 134235 |

Source : State Departments of Forests

* For Andhra Pradesh, Bihar, Goa, Nagaland, Tripura, Haryana and Telangana, the length is as on 31.03.2015

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

Length of Roads under Border Roads Organisation - By Type of Surface in India
As on 31.03.2016 (State/UT-wise) (in km)

| Sl.No | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|-------|---------------------------|--------------------|------------|--------------|--------------|-------------|
| | | | W.B.M. | B.T./C.C | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | | | | | |
| 2 | Arunachal Pradesh | 4248 | 129 | 3377 | 3505 | 742 |
| 3 | Assam | 215 | 0 | 194 | 194 | 21 |
| 4 | Bihar | | | | | |
| 5 | Chhattisgarh | | | | | |
| 6 | Goa | | | | | |
| 7 | Gujarat | | | | | |
| 8 | Haryana | | | | | |
| 9 | Himachal Pradesh | 985 | 43 | 780 | 822 | 163 |
| 10 | Jammu & Kashmir | 6819 | 438 | 5020 | 5458 | 1362 |
| 11 | Jharkhand | | | | | |
| 12 | Karnataka | | | | | |
| 13 | Kerala | | | | | |
| 14 | Madhya Pradesh | | | | | |
| 15 | Maharashtra | | | | | |
| 16 | Manipur | 1577 | 27 | 1442 | 1469 | 107 |
| 17 | Meghalaya | | | | | |
| 18 | Mizoram | 1053 | 22 | 817 | 839 | 215 |
| 19 | Nagaland | 765 | 36 | 687 | 723 | 42 |
| 20 | Odisha | | | | | |
| 21 | Punjab | 252 | 4 | 249 | 252 | 0 |
| 22 | Rajasthan | 3312 | 0 | 3254 | 3254 | 59 |
| 23 | Sikkim | 814 | 88 | 650 | 738 | 76 |
| 24 | Tamil Nadu | | | | | |
| 25 | Telangana | | | | | |
| 26 | Tripura | 54 | 21 | 21 | 42 | 12 |
| 27 | Uttarakhand | 1089 | 111 | 774 | 885 | 205 |
| 28 | Uttar Pradesh | | | | | |
| 29 | West Bengal | 174 | 0 | 174 | 174 | 0 |
| 30 | Andaman & Nicobar Islands | | | | | |
| 31 | UT Chandigarh | | | | | |
| 32 | Dadra & Nagar Haveli | | | | | |
| 33 | Daman & Diu | | | | | |
| 34 | Delhi | | | | | |
| 35 | Lakshadweep | | | | | |
| 36 | Puducherry | | | | | |
| | Total | 21357 | 917 | 17436 | 18353 | 3003 |

Source : DG Border Roads

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

Note: Totals may not add up because of rounding off of decimals.

Annexure 7.4

**Length of Roads under coal fields/ coal units of Coal India Limited - By Type of Surface
on 31.03.2016 (State/UT-wise) (in km)**

| Sl.No. | Name of States/UTs | Total Length (6+7) | Surfaced | | | Unsurfaced |
|--------|--|-----------------------|----------|----------|----------------|------------|
| | (Names of Coal Fields) | | W.B.M. | B.T./C.C | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | | | | | |
| 2 | Arunachal Pradesh | | | | | |
| 3 | Assam | 51 | 2 | 42 | 44 | 7 |
| | i. North Eastern Coalfields, Margherita-Tinsukia | | | | | |
| 4 | Bihar | | | | | |
| 5 | Chhattisgarh | | | | | |
| | i. South Eastern Coal Fields, Bilaspur | 801 | 76 | 692 | 768 | 33 |
| 6 | Goa | | | | | |
| 7 | Gujarat | | | | | |
| 8 | Haryana | | | | | |
| 9 | Himachal Pradesh | | | | | |
| 10 | Jammu & Kashmir | | | | | |
| 11 | Jharkhand | | | | | |
| i | Bharat Coking Coal Ltd., Dhanbad | 544 | 46 | 417 | 463 | 82 |
| ii | Eastern Coal Fields Ltd. | 52 | 14 | 26 | 40 | 12 |
| iii | Central Coal Fields, Ranchi | 674 | 41 | 623 | 664 | 10 |
| 12 | Karnataka | | | | | |
| 13 | Kerala | | | | | |
| 14 | Madhya Pradesh | | | | | |
| i | Western Coal Fields | 207 | 11 | 196 | 207 | 0 |
| ii | Northern Coal fields Ltd. Singarauli | | | | | |
| 15 | Maharashtra | | | | | |
| i | . Western Coal Fields Ltd, Nagpur | 520 | 169 | 310 | 478 | 42 |
| 16 | Manipur | | | | | |
| 17 | Meghalaya | | | | | |
| 18 | Mizoram | | | | | |
| 19 | Nagaland | | | | | |
| 20 | Odisha | | | | | |
| i | Mahanadi Coal Fields. Sambalpur | | | | | |
| 21 | Punjab | | | | | |
| 22 | Rajasthan | | | | | |
| 23 | Sikkim | | | | | |

| | | | | | | |
|--------------|--|-------------|------------|-------------|-------------|------------|
| 24 | Tamil Nadu | | | | | |
| 25 | Telangana | | | | | |
| i | Singareni Coal field, Kothagudem, Bhadradi Dist. | 906 | 70 | 833 | 903 | 3 |
| 26 | Tripura | | | | | |
| 27 | Uttarakhand | | | | | |
| 28 | Uttar Pradesh | | | | | |
| 29 | West Bengal | | | | | |
| i | Eastern Coalfields Limited, Burdwan | 284 | 31 | 234 | 265 | 18 |
| 30 | Andaman & Nicobar Islands | | | | | |
| 31 | UT Chandigarh | | | | | |
| 32 | Dadra & Nagar Havelli | | | | | |
| 33 | Daman & Diu | | | | | |
| 34 | Delhi | | | | | |
| 35 | Lakshadweep | | | | | |
| 36 | Puducherry | | | | | |
| Total | | 4039 | 460 | 3372 | 3831 | 208 |

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

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

Note: Totals may not add up because of rounding off of decimals.

Annexure 7.5

Length of Roads under Electricity Departments of States/UTs - By Type of Surface in India

As on 31.03.2016

(in km)

| Sl.No | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|-------|---------------------------|--------------------|--------------|--------------|--------------|------------|
| | | | W.B.M. | B.T./C.C | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh * | 204 | 52 | 149 | 201 | 3 |
| 2 | Arunachal Pradesh | | | | | |
| 3 | Assam | 113 | 21 | 77 | 98 | 15 |
| 4 | Bihar * | 529 | 148 | 360 | 508 | 21 |
| 5 | Chhattisgarh | 169 | 27 | 140 | 167 | 2 |
| 6 | Goa | | | | | |
| 7 | Gujarat | 167 | 37 | 116 | 153 | 14 |
| 8 | Haryana | 130 | 9 | 121 | 130 | 0 |
| 9 | Himachal Pradesh * | 92 | 29 | 42 | 71 | 21 |
| 10 | Jammu & Kashmir | | | | | |
| 11 | Jharkhand | 174 | 35 | 139 | 174 | 0 |
| 12 | Karnataka | 169 | 26 | 129 | 155 | 14 |
| 13 | Kerala | 252 | 47 | 186 | 233 | 19 |
| 14 | Madhya Pradesh | 756 | 304 | 398 | 702 | 54 |
| 15 | Maharashtra | | | | | |
| 16 | Manipur | | | | | |
| 17 | Meghalaya | 132 | 6 | 111 | 117 | 15 |
| 18 | Mizoram | | | | | |
| 19 | Nagaland | | | | | |
| 20 | Odisha * | 70 | 37 | 31 | 68 | 2 |
| 21 | Punjab | 449 | 28 | 393 | 421 | 28 |
| 22 | Rajasthan | 388 | 11 | 375 | 386 | 2 |
| 23 | Sikkim | | | | | |
| 24 | Tamil Nadu | 812 | 208 | 528 | 736 | 76 |
| 25 | Telangana | 128 | 22 | 89 | 111 | 17 |
| 26 | Tripura | | | | | |
| 27 | Uttarakhand * | 164 | 4 | 143 | 147 | 17 |
| 28 | Uttar Pradesh | 23 | 0 | 19 | 19 | 4 |
| 29 | West Bengal | 216 | 8 | 161 | 169 | 47 |
| 30 | Andaman & Nicobar Islands | | | | | |
| 31 | UT Chandigarh | | | | | |
| 32 | Dadra & Nagar Haveli | | | | | |
| 33 | Daman & Diu | | | | | |
| 34 | Delhi | | | | | |
| 35 | Lakshadweep | | | | | |
| 36 | Puducherry | | | | | |
| | Total | 5,137 | 1,059 | 3,707 | 4,766 | 371 |

Source : State Departments of Electricity

*Andhra Pradesh, Bihar, Himachal Pradesh, Odisha and Uttarakhand, the length is as on 31.03.2015

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

Length of Roads under Irrigation Departments of States/Uts - By Type of Surface in India
As on 31.03.2016 **(in km)**

| Sl.No | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|-------|---------------------------|--------------------|---------------|---------------|---------------|---------------|
| | | | W.B.M. | B.T./C.C | Total (4+5) | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh * | 848 | 434 | 249 | 683 | 165 |
| 2 | Arunachal Pradesh | | | | | |
| 3 | Assam | 1,456 | 18 | 11 | 29 | 1,427 |
| 4 | Bihar | | | | | |
| 5 | Chhattisgarh * | 3,023 | 111 | 296 | 407 | 2,616 |
| 6 | Goa | | | | | |
| 7 | Gujarat * | 8,768 | 1,340 | 825 | 2,165 | 6,603 |
| 8 | Haryana | | | | | |
| 9 | Himachal Pradesh | | | | | |
| 10 | Jammu & Kashmir * | 422 | 133 | 0 | 133 | 289 |
| 11 | Jharkhand | | | | | |
| 12 | Karnataka * | 9,731 | 4,425 | 1,825 | 6,250 | 3,481 |
| 13 | Kerala | 3,429 | 631 | 1,590 | 2,221 | 1,208 |
| 14 | Madhya Pradesh * | 4,296 | 753 | 603 | 1,356 | 2,940 |
| 15 | Maharashtra | 7,234 | 1,804 | 1,017 | 2,821 | 4,413 |
| 16 | Manipur | | | | | |
| 17 | Meghalaya | 175 | 6 | 7 | 13 | 162 |
| 18 | Mizoram | | | | | |
| 19 | Nagaland | | | | | |
| 20 | Odisha * | 17,387 | 4,429 | 3,113 | 7,542 | 9,845 |
| 21 | Punjab | 8,243 | 66 | 1,469 | 1,535 | 6,708 |
| 22 | Rajasthan | 851 | 131 | 354 | 485 | 366 |
| 23 | Sikkim | | | | | |
| 24 | Tamil Nadu | 3,086 | 322 | 1,111 | 1,433 | 1,653 |
| 25 | Telangana | 803 | 109 | 303 | 412 | 391 |
| 26 | Tripura | | | | | |
| 27 | Uttarakhand | 406 | 18 | 325 | 343 | 63 |
| 28 | Uttar Pradesh * | 24,169 | 119 | 2,175 | 2,294 | 21,875 |
| 29 | West Bengal | 5,586 | 1,275 | 916 | 2,191 | 3,395 |
| 30 | Andaman & Nicobar Islands | | | | | |
| 31 | UT Chandigarh | | | | | |
| 32 | Dadra & Nagar Haveli | | | | | |
| 33 | Daman & Diu | | | | | |
| 34 | Delhi | | | | | |
| 35 | Lakshadweep | | | | | |
| 36 | Puducherry | | | | | |
| | Total | 99,913 | 16,124 | 16,189 | 32,313 | 67,600 |

Source : State Departments of Irrigation

*: For Andhra Pradesh, Chhattisgarh, Gujarat, J&K, Karnataka, M.P, Odisha and U.P the length is as on 31.03.2015
Blank cells refer to States and UTs who have not furnished data or have insignificant or nil irrigation roads

Length of Roads under Sugarcane Departments of States/UTs
By Type of Surface in India As on 31.03.2016 (in km)

| Sl.No | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|-------|----------------------|--------------------|----------|---------------|---------------|--------------|
| | | | W.B.M | B.T./C.C | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | | | | | |
| 2 | Arunachal Pradesh | | | | | |
| 3 | Assam | | | | | |
| 4 | Bihar | | | | | |
| 5 | Chhattisgarh | | | | | |
| 6 | Goa | | | | | |
| 7 | Gujarat | | | | | |
| 8 | Haryana | | | | | |
| 9 | Himachal Pradesh | | | | | |
| 10 | Jammu & Kashmir | | | | | |
| 11 | Jharkhand | | | | | |
| 12 | Karnataka | 260 | 0 | 0 | 0 | 260 |
| 13 | Kerala | | | | | |
| 14 | Madhya Pradesh | | | | | |
| 15 | Maharashtra | | | | | |
| 16 | Manipur | | | | | |
| 17 | Meghalaya | | | | | |
| 18 | Mizoram | | | | | |
| 19 | Nagaland | | | | | |
| 20 | Odisha | | | | | |
| 21 | Punjab | | | | | |
| 22 | Rajasthan | | | | | |
| 23 | Sikkim | | | | | |
| 24 | Tamil Nadu | 1,676 | 0 | 1,676 | 1,676 | 0 |
| 25 | Telangana | | | | | |
| 26 | Tripura | | | | | |
| 27 | Uttarakhand | 12 | 0 | 12 | 12 | 0 |
| 28 | Uttar Pradesh | 12,746 | 0 | 9,233 | 9,233 | 3,513 |
| 29 | West Bengal | | | | | |
| 30 | A & Nicobar Islands | | | | | |
| 31 | UT Chandigarh | | | | | |
| 32 | Dadra & Nagar Haveli | | | | | |
| 33 | Daman & Diu | | | | | |
| 34 | Delhi | | | | | |
| 35 | Lakshadweep | | | | | |
| 36 | Puducherry * | 34 | 5 | 21 | 26 | 8 |
| | Total | 14,728 | 5 | 10,942 | 10,947 | 3,781 |

Source : State Sugarcane Departments

*: For Puducherry the length is as on 31st March 2015

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 31.03.2016

(in km)

| Sl.No | Name of State/UT | Total Length (6+7) | Surfaced | | | Unsurfaced |
|-------|----------------------|-----------------------|------------|--------------|----------------|------------|
| | | | W.B.M. | B.T./C.C | Total (4+5) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | Andhra Pradesh | 8 | 1 | 6 | 7 | 1 |
| 2 | Arunachal Pradesh | | | | | |
| 3 | Assam | | | | | |
| 4 | Bihar | | | | | |
| 5 | Chhattisgarh | 805 | 10 | 765 | 775 | 30 |
| 6 | Goa | | | | | |
| 7 | Gujarat | | | | | |
| 8 | Haryana | | | | | |
| 9 | Himachal Pradesh | | | | | |
| 10 | Jammu & Kashmir | | | | | |
| 11 | Jharkhand | 560 | 25 | 482 | 507 | 53 |
| 12 | Karnataka | 142 | 14 | 117 | 131 | 11 |
| 13 | Kerala | | | | | |
| 14 | Madhya Pradesh | 43 | 13 | 14 | 27 | 16 |
| 15 | Maharashtra | 18 | 4 | 7 | 11 | 7 |
| 16 | Manipur | | | | | |
| 17 | Meghalaya | | | | | |
| 18 | Mizoram | | | | | |
| 19 | Nagaland | | | | | |
| 20 | Odisha | 571 | 13 | 505 | 518 | 53 |
| 21 | Punjab | | | | | |
| 22 | Rajasthan | | | | | |
| 23 | Sikkim | | | | | |
| 24 | Tamil Nadu | 86 | 0 | 86 | 86 | 0 |
| 25 | Telangana | | | | | |
| 26 | Tripura | | | | | |
| 27 | Uttarakhand | | | | | |
| 28 | Uttar Pradesh | | | | | |
| 29 | West Bengal | 634 | 44 | 577 | 621 | 13 |
| 30 | A & Nicobar Islands | | | | | |
| 31 | UT Chandigarh | | | | | |
| 32 | Dadra & Nagar Haveli | | | | | |
| 33 | Daman & Diu | | | | | |
| 34 | Delhi | | | | | |
| 35 | Lakshadweep | | | | | |
| 36 | Puducherry | | | | | |
| | Total | 2,867 | 124 | 2,559 | 2,683 | 184 |

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

ANNEXURE

MISCELLANEOUS

Annexure 8.1
Long - Term Trends of Investment in Highways

Amount in Rs. Crore

| Sl. No. | Year | Allocation | | | | Expenditure | | | | |
|---------|---------|------------|-----------|----------|--------------------|-------------|----------|-------------|---------------------------|------------------|
| | | Plan | IEBR | Non-Plan | Total | Plan | Non-Plan | IEBR raised | Private Sector Investment | Total |
| (1) | (2) | (3) | (4) | | (5) | (6) | | (7) | (8) | (9) |
| 1 | 2004-05 | 6,856.00 | 3,300.00 | 1796.5 | 11,952.50 | 5,813.53 | 1,458.47 | 0.00 | 1,462.85 | 8,734.85 |
| 2 | 2005-06 | 11,408.00 | 8,500.00 | 1,956.75 | 21,864.75 | 10,330.80 | 1,826.50 | 1,289.49 | 649.08 | 14,095.87 |
| 3 | 2006-07 | 13,158.68 | 3,500.00 | 1,984.67 | 18,643.35 | 12,758.47 | 1,859.04 | 1,499.08 | 1,578.28 | 17,694.87 |
| 4 | 2007-08 | 14,156.68 | 2,090.00 | 2,266.50 | 18,513.18 | 13,742.18 | 2,233.86 | 305.18 | 7,062.40 | 23,343.62 |
| 5 | 2008-09 | 16,211.64 | 4,100.00 | 2,714.11 | 23,025.75 | 15,653.57 | 2,699.66 | 1,630.01 | 8,184.73 | 28,167.97 |
| 6 | 2009-10 | 16,641.31 | 5,000.00 | 3,463.00 | 25,104.31 | 15,120.60 | 3,387.64 | 1,153.63 | 8,572.54 | 28,234.41 |
| 7 | 2010-11 | 21,590.29 | 7,455.00 | 4,857.59 | 33,902.88 | 20,434.93 | 4,545.46 | 2,160.11 | 15,354.37 | 42,494.87 |
| 8 | 2011-12 | 22,966.76 | 12,500.00 | 4,283.06 | 39,749.82 | 19,489.98 | 3,950.21 | 12,511.52 | 25,998.56 | 61,950.27 |
| 9 | 2012-13 | 20,283.56 | 13,000.00 | 4,564.72 | 37,848.28 | 19,949.82 | 4,393.64 | 2,902.07 | 20,304.66 | 47,550.19 |
| 10 | 2013-14 | 26,211.41 | 8,000.00 | 4,918.42 | 39,129.83 | 23,920.97 | 4,756.38 | 7,942.13 | 22,515.05 | 59,134.53 |
| 11 | 2014-15 | 27,880.50 | 7,611.11 | 5,596.58 | 41,088.19 | 26,728.52 | 5,630.35 | 3,343.40 | 19,232.44 | 54,934.71 |
| 12 | 2015-16 | 44,324.00 | 42,694.50 | 2,783.71 | 89,802.21 | 43,328.36 | 2,608.70 | 23,281.00 | 29,770.00 | 98,988.06 |
| 13 | 2016-17 | 49,351.67 | 59,279.00 | 3,095.33 | 1,11,726.00 | 46,461.97 | 2,730.71 | 33,118.00 | 16,028.64 | 98,339.32 |

Source: Roads Wing, MoRTH

Remarks: Allocation and Expenditure upto 2014-15 includes the fund earmarked for Border Road Organisation for National Highways (Original), Maintenance and Repairs and for General Staff Roads under Separate Heads.

TERMS AND DEFINITIONS

| Sl. No. | Terms | Definitions |
|---------------------------------------|-------------------|--|
| A. ROADS | | |
| 1. | Track | A path on the land much trodden by persons and animals. |
| 2. | Cart Track | A land way for use by carts. |
| 3. | Road | A way on land with a right of way for the public. |
| 4. | Urban Road | A road within the limits of the area of Municipality, Military Cantonment, Port or Railway Authority. |
| 5. | Project Road | 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. HIGHWAY CLASSES BY FUNCTION | | |
| 1. | Expressways | 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. | National Highways | 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. | State Highways | 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. | District Roads | 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 . |
| 5. | Village Roads | 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. |

| C. ROAD SURFACE | | |
|------------------------|----------------------------|--|
| 1. | Bitumen or Tar Macadam | A type of construction in which the fragments of coarse aggregate are bound together by bitumen applied either premix or grouting method. |
| 2. | Bitumen Concrete Surfacing | A type of construction in which coarse and fine mineral aggregates are mixed with bitumen and laid not to the desired thickness. |
| 3. | Black Top Surface | The surface of roads made with bitumen as a binder. |
| 4. | Brick Paving | A paving composed of bricks laid in regular courses. |
| 5. | Cement Bound Macadam | 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. | Cement Concrete | A surface obtained by placing and consolidating cement concrete to required thickness. |
| 7. | Earth Road | A road with the carriageway composed of natural soil. |
| 8. | Gravel Road | A road with the carriageway composed of a consolidated layer of gravel. |
| 9. | Water Bound Macadam | 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. | Motorable | (i) For Plain Areas: Surfaced or unsurfaced road of minimum 3.0 M Carriageway width is motorable. (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. |