



# **Public Works, Ports and Inland Water Transport Department**

**ANNUAL REPORT**

**2011 - 2012**

**March 2012**

# CHAPTER - 1

## INTRODUCTION

The Public works, Ports and Inland Water Transport Department is the Administrative Department incharge of all matters relating to Public Works, Ports and Inland Water Transport.

The following Ministers/ Principal Secretaries / Secretaries are in charge of respective Departments during 2011-2012

### **PUBLIC WORKS, PORTS AND INLAND WATER TRANSPORT DEPARTMENT**

Hon'ble Minister SRI. C.M. UDASI

### **PRINCIPAL SECRETARY, PUBLIC WORKS, PORTS AND INLAND WATER TRANSPORT DEPARTMENT**

SRI. V. UMESH, I.A.S., UPTO 09-05-2011, SRI. SUBHASH CHANDRA KHUNTIA, I.A.S., FROM 09-05-2011

### **SECRETARY, PUBLIC WORKS, PORTS AND INLAND WATER TRANSPORT DEPARTMENT**

SRI. N. LAKSHMAN RAO PESHVE, UPTO 01-05-2011,

SRI. C. MRUTHYUNJAYASWAMY FROM 02-05-2011 TO 22-07-2011, SRI. K.B.DEVARAJA FROM 30-08-2011.

The Principal Secretary and the Secretary at the Secretariat level are assisted by Additional Secretary (Technical) and Joint Secretary (Services), two Deputy Secretaries and one Chief Information Officer. The Public Works, Ports and Inland Water Transport Department has a Budget & Fiscal monitoring cell is headed by the Internal Financial Advisor (IFA) by giving suitable suggestions and instructions in financial matters.

### **DEPARTMENT'S MISSION**

"Plan, Design, Construct and maintain a safe cost effective core road network, public buildings, ports and other public infrastructure in Karnataka."

### **FUNCTIONS**

1. Evolving standards and specification for safe, efficient and economic roads and buildings.
2. Serving as a repository of knowledge and expertise on roads, bridges and other structures.
3. Formulating policies for road transport sector and other infrastructures.
4. Adopting information technology for planning, designing, execution and maintenance work.
5. Incorporating professional management techniques in project implementation.
6. Evinced public participation at all stages.
7. Promoting Public Private partnership.
8. Acting as custodian of all Government properties.
9. Providing an effective public grievances redressal system.

At the Department level, Public Works, Ports and Inland Water Transport Department has been divided into different zones headed by individual zonal head.

## **PUBLIC WORKS, PORTS AND INLAND WATER TRANSPORT DEPARTMENT (ZONES)**

1. Office of the Chief Engineer, Communication & Buildings (South), Bangalore
2. Office of the Chief Engineer, Communication & Buildings (North), Dharwad
3. Office of the Chief Engineer, National Highways, Bangalore
4. Office of the Chief Project Officer, Karnataka State Highways Improvement project's, Project Implementation Unit (KSHIP), Bangalore
5. Office of the Managing Director, Karnataka Road Development Corporation Limited (KRDCL), Bangalore
6. Karnataka State Highway Development Project Project Implementation Unit [SHDP-(PIU) ]:
7. Office of the Principal Chief Architect, Architectural Zone, Bangalore.
8. Office of the Director, Ports and Inland Water Transport, Karwar

The Chief Engineer, Communication & Buildings (South) Bangalore, co-ordinates the establishment matters pertaining to all zones.

## CHAPTER - 2

### COMMUNICATION AND BUILDINGS

#### COMMUNICATION :

The Public Works, Ports and Inland Water Transport Department is incharge of construction and maintenance of National Highways, State Highways and Major District Roads. The construction and maintenance expenditure for National Highways is borne by the Government of India and in respect of State Highways and Major District Roads by the State government. The road network viz National Highways, State Highways and Major District roads which stood at 13,853 km in 1956 has been increased to 75219 Km by 2012.

The comparative details of road length and its surface details from 1956 to 2012 are given below.

Length in Kms

Category of Road	Details of road length as at the end of 31-3-2012						
	1956	1966	1976	1986	1996	2006	2012 (Provisional)
<b>Road Length :</b>							
1) National Highways	864	1269	1968	1968	1997	3973	4490
2) State Highways	5983	6640	7554	7912	11395	17405	20770
3) Major District Roads	7006	13180	*12980	15999	28311	32572	49959
<b>TOTAL</b>	<b>13853</b>	<b>21089</b>	<b>22502</b>	<b>25879</b>	<b>41703</b>	<b>53950</b>	<b>75219</b>
<b>Surface Details :</b>							
a) Cement concrete and black topped	3584	13117	19483	22476	33139	50651	68339
b) Water bound macadam	10106	7209	2825	3159	8075	2624	5175
c) Unmetalled	163	763	194	244	489	675	1705
<b>TOTAL</b>	<b>13853</b>	<b>21089</b>	<b>22502</b>	<b>25879</b>	<b>41703</b>	<b>53950</b>	<b>75219</b>

#### ROAD DEVELOPMENT PLAN FOR INDIA 2001 – 2021:

The Government of India, Ministry of Surface Transport (Roads wings) has prepared the Road Development Plan for India 2001-2021. In this plan, the concept of Primary, Secondary & Tertiary road system has been introduced for the purpose of transport planning, functional identification, earmarking administrative jurisdiction and assigning priorities on a road network.

The primary system shall comprise of proposed Express ways and the National Highways. The secondary system shall consist of the State Highways and Major District Roads and the Tertiary System shall consist of the Other District Roads and Village Roads. The latter two categories are also commonly known by the term "Rural Roads " since they represent the links to the Rural area of the Country.

In this plan, it is proposed that the aspirations of the common man should be taken into consideration and road length is defined in terms of certain fixed and tangible objectives, having due regard to the popular demands for better type of roads as suggested hereunder.

- a) The length of the National Highways is calculated on the basis of the demands from the various states ,subject to the consideration that the National Highways may not be very close to each other, except in areas where no other convenient transport facility exists.
- b) The length of the State Highways, is calculated in such a fashion that the State Highways connect major Industrial Centres, District places, Taluk/Tahasil Head-quarters, places of commercial interest, tourist centres, major agricultural produce markets and also major growth centres in tribal areas.
- c) All villages with a population of 1500 and above should lie atleast on Major District Roads.
- d) All villages in the population group of 1000 to 1500 should lie at least on other district roads.
- e) All villages or cluster of villages in the population group of 500 to 1000 should be connected at least by village roads.
- f) Villages or cluster of villages with a population upto 500 should lie from any nearby road within a distance of 3 Kms in the plain country and 5 Kms in hilly country areas.
- g) It is also visualised in the plan that the improvement of the existing secondary road network is framed on the basis of the following guidelines.
  - i) While consideration of traffic should govern the pavement width to be provided, it is also desirable that at least 50 percent of the existing State Highways length should have a two lane pavement and 50 percent of the existing State Highways length have an intermediate pavement width.
  - ii) All bridges and culverts should be capable of withstanding the design loading.
  - iii) All the existing secondary routes (State Highways and Major District Roads) should be fully black topped with pavement structures suitably strengthened.
  - iv) Bye-pass should be provided at District and Sub-Divisional Head-quarters, if the road and traffic conditions demand their provision.
  - v) Submersible bridges, with interruptions of traffic and permitted with regard to duration and frequency may be allowed on State Highways and Major District Roads so as to economise the expenditure.

#### **ROAD TRAFFIC IN KARNATAKA :**

The department conducts detailed Road Traffic Census once in five years for a period of 7 days on all the roads in the State. Annual sample surveys are being conducted for two days every year.

The results of detailed Road Traffic survey conducted during 2010-2011 with reference to the base year 1970-71 tabulated as follows :

Category of Roads	Average Traffic Intensity as revealed in the detailed census conducted during (PCU)		Percentage increase during 2010-11 over	Annual percentage increase during 2010-11 over
	1970-71	2010-11	1970-71	1970-71
1	2	3	4	5
1. National Highways	2572	25610	895.70	23.57
2. State Highways	1115	9285	732.27	17.85
3. Major District Roads	806	3694	358.31	8.74

Statement showing the Financial Targets and Achievements under State Sector Schemes during 2008-09, 2009-10, 2010-11 and 2011-12

1	2008-2009				2009-2010			
	Financial (Rs. lakhs)		Physical		Financial (Rs. lakhs)		Physical	
	T	A	T	A	T	A	T	A
2	3	4	5	6	7	8	9	
<b>I. State Sector Schemes :</b>								
1) Bridges	25.00	25.00	4	4	-	-	-	-
2) Other Roads Formation	31148.50	31148.50	-	-	70263.66	70263.66	260.00	2611.45
3) Other Roads Formation (SCP)	5461.00	3578.78	-	412.34	5000.00	4958.61	429.21	220.85
4) Other Roads Formation (TSP)	2167.00	1395.60	-	231.10	1382.64	1382.00	229.00	98.72
5) Construction/Impvt.of roads and bridge under NABARD	36100.00	36100.00	1315.00 35 bridges	1464.40 27 bridges	26870.40	26870.40	1064.00	2050.49
6) NABARD (SDP)	-	-	-	-	8000.00	7998.67	384.00	197.25
7) NABARD (S.C.P.)	-	-	-	-	4381.60	4121.59	285.00	244.56
8) NABARD (T.S.P.)	-	-	-	-	1500.00	1500.00	134.13	91.07
9) Central Road Fund (CRF)	-	-	-	-	20556.00	20556.00	882.35	1221.61
10) 3054(Plan) Chief Minister Rural Road Fund	35298.50	35298.50	-	-	18000.00	18000.00	12100.00	18138.94
11) Imp. of Roads in and around Bangalore City	24000.00	20000.00	240.00	105.49	-	-	-	-
12) Development of Backward taluks according to Dr. D.M.Nanjundappa Report	1224.36	1224.36	50	43	-	-	-	-
13) Suvarna Rasthe Vikasa Yojane (SDP)	-	-	-	-	5000.00	4600.00	246.00	209.44
14) Suvarna Rasthe Vikasa Yojane	-	-	-	-	10000.00	10000.00	1238.26	472.93
15) S.H. Maintenance	-	-	-	-	4000.00	4000.00	-	-
16) Renewal of State Highways	-	-	-	-	-	-	-	-
17) Renewal of State Highways(SCP)	-	-	-	-	-	-	-	-
18) Renewal of State Highways(TSP)	-	-	-	-	-	-	-	-
<b>Total</b>								
<b>Financial in lakh</b>	<b>135424.36</b>	<b>128770.74</b>	-	-	<b>174954.30</b>	<b>174250.92</b>	-	-
<b>Road length in Km.</b>	-	-	<b>1555.00</b>	<b>2213.33</b>	-	-	<b>17251.95</b>	<b>25557.31</b>
<b>Bridges in No.</b>	-	-	<b>85</b>	<b>70</b>	-	-	-	-
Supporting Schemes								
1) Direction & Administration	200.00	200.00	-	-	200.00	200.00	-	-
2) Machinery & Equipment :	39.00	39.00	-	-	39.00	39.00	-	-
3) Others	-	-	-	-	-	-	-	-
<b>Total</b>	<b>239.00</b>	<b>239.00</b>	-	-	<b>239.00</b>	<b>239.00</b>	-	-
<b>TOTAL STATE SECTOR</b>	<b>135663.36</b>	<b>129009.74</b>	-	-	<b>175193.30</b>	<b>174489.92</b>	-	-

T. TARGET A. ACHIEVEMENT

Schemes	2010-2011				2011-2012			
	Financial (Rs. lakhs)		Physical		Financial (Rs. lakhs)		Physical	
	T	A	T	A	T	A	T	A
10	11	12	13	14	15	16	17	18
<b>I. State Sector Schemes :</b>								
1) Bridges	-	-	-	-	-	-	-	-
2) Other Roads Formation	98208.22	97803.50	330.00	1906.21	57559.69	57559.69	810.15	2578.97
3) Other Roads Formation (SCP)	1409.06	1372.58	102.18	102.18	17274.75	16886.18	496.72	542.15
4) Other Roads Formation (TSP)	3619.72	3363.00	178.52	147.48	7015.56	7015.56	199.16	196.11
5) Construction/Impvt.of roads and bridge under NABARD	12500.40	17402.91	1994.86 21 bridges	1237.67 6 bridges	25000.00	24682.76	1260.06 27 bridges	1424.04 36 bridges
6) NABARD (SDP)	13000.00	7980.00	413.49	489.41	13000.00	12745.72	549.78	630.79
7) NABARD (S.C.P.)	8500.00	7008.40	278.60	272.72	-	-	-	-
8) NABARD (T.S.P.)	-	-	-	-	-	-	-	-
9) Central Road Fund (CRF)	15000.00	14993.51	695.00	614.82	17300.00	17252.71	450.96	388.24
10) 3054(Plan) Chief Minister Rural Road Fund	35000.00	34923.32	-	-	7125.00	6690.97	-	-
11) Imp. of Roads in and around Bangalore City	-	-	-	-	-	-	-	-
12) Development of Backward taluks according to Dr. D.M.Nanjundappa Report	-	-	-	-	-	-	-	-
13) Suvarna Rasthe Vikasa Yojane (SDP)	5500.00	5308.72	615.06	318.73	5000.00	4607.67	363.31	341.96
14) Suvarna Rasthe Vikasa Yojane	12000.00	11950.27	1022.23	663.92	15000.00	14901.32	562.00	596.05
15) S.H. Maintenance	5000.00	4981.49	11306.95	9189.31	15500.00	15464.59	13881.07	19550.53
16) Renewal of State Highways	9029.00	6510.00	991.97	734.19	20500.00	16983.35	1764.52	1469.50
17) Renewal of State Highways(SCP)	4000.00	2057.00	190.00	136.77	5300.00	5082.84	203.06	210.15
18) Renewal of State Highways(TSP)	1971.00	1156.43	83.35	72.89	2200.00	1836.91	80.70	85.24
<b>Total</b>								
<b>Financial in lakh</b>	<b>224737.40</b>	<b>216811.13</b>	-	-	<b>207775.00</b>	<b>201710.17</b>	-	-
<b>Road length in Km.</b>	-	-	<b>18202.21</b>	<b>15886.30</b>	-	-	<b>20621.49</b>	<b>28013.73</b>
<b>Bridges in No.</b>	-	-	<b>21</b>	<b>6</b>	-	-	<b>27</b>	<b>36</b>
Supporting Schemes								
1) Direction & Administration	200.00	200.00	-	-	200.00	200.00	-	-
2) Machinery & Equipment :	39.00	39.00	-	-	39.00	39.00	-	-
3) Others	-	-	-	-	-	-	-	-
<b>Total</b>	<b>239.00</b>	<b>239.00</b>	-	-	<b>239.00</b>	<b>239.00</b>	-	-
<b>TOTAL STATE SECTOR</b>	<b>224976.40</b>	<b>217050.13</b>	-	-	<b>208014.00</b>	<b>201949.17</b>	-	-

T. TARGET A. ACHIEVEMENT

**Roads & Bridges**  
**Grants and Expenditure details for the year 2010-11 and 2011-2012**

Rs. in lakhs

Sl No.	Names of Existing & New Schemes	2010-11		2011-12	
		Grant	Expenditure	Grant	Expenditure
	<b>5054 - (Plan) Roads &amp; Bridges :</b>				
1.	H/A 5054-03-337-0-02-172 (Plan) Other road formation (ORF)	98208.22	97803.50	57559.69	57559.69
2.	H/A 5054-03-337-0-02-422 (Plan) Other Road Formation (Special Component Plan)	1409.06	1372.58	17274.75	16886.18
3.	H/A 5054-03-337-0-02-423 (Plan) Other Road Formation (Tribal Sub-Plan)	3619.72	3363.00	7015.56	7015.56
4.	H/A 5054-03-337-0-13-172 (Plan) Renewal of State Highways	9029.00	6510.00	20500.00	16983.25
5.	H/A 5054-03-337-0-13-422 (Plan) Renewal of State Highways (Special Component Plan)	4000.00	2057.00	5300.00	5082.84
6.	H/A 5054-03-337-0-13-423 (Plan) Renewal of State Highways (Tribal Sub-Plan)	1971.00	1156.43	2200.00	1836.91
7.	H/A 5054-03-337-0-14-172 (Plan) Core Road Network Development Programme & strengthening	0.00	0.00	20000.00	19986.44
8.	H/A 5054-03-337-0-15-172 (Plan) Core Road Network Development Programme renewals	0.00	0.00	50000.00	49944.94
9.	H/A 5054-04-800-1-09-172 (Plan) Suvarna Rasthe Vikasa Yojane	12000.00	11950.27	15000.00	14901.32
10.	H/A 5054-04-800-1-09-133 (Plan) Suvarna Rasthavikasa Yojane (Special Development Plan)	5500.00	5308.72	5000.00	4607.67
11.	H/A 5054-04-800-3-01-436 (Plan) NABARD Rural Roads	12500.40	17402.91	25000.00	24682.76
12.	H/A 5054-04-800-3-01 (Plan) NABARD (Special Development Plan)	13000.00	7980.00	13000.00	12745.72
13.	H/A 5054-04-800-3-01-422 (Plan) NABARD (Special Component Plan)	8500.0	7008.40	0.00	0.00
14.	H/A 5054-05-337-1-01-172 (Plan) Road works of inter state importance (N.H.)	650.00	650.00	1700.00	1700.00
15.	H/A 5054-05-337-2-01-172 (Plan) Road works of economic importance (N.H.)	1200.00	1200.00	1600.00	1600.00
16.	H/A 5054-04-800-2-02-172 (Plan) Central Road Fund	15000.00	14993.51	17300.00	17252.71
	<b>Total</b>	<b>186587.10</b>	<b>178756.32</b>	<b>258450.00</b>	<b>252785.99</b>



Sl No.	Names of Existing & New Schemes	2010-11		2011-12	
		Grant	Expenditure	Grant	Expenditure
	<b>3054 - (Plan &amp; Non-Plan)</b>				
	<b>3054 - (Plan) Major District Roads &amp; State Highways</b>				
1.	H/A 3054-04-337-1-09-172 (Plan) Mukya Mantri Grameena Rasthe Abhivrudhi Yojene	35000.00	34923.32	7125.00	6690.97
2.	H/A 3054-03-337-0-05-200 (Plan) State Highway Maintenance	5000.00	4981.49	15500.00	15464.59
3.	H/A 3054-04-337-1-09-172 (Non-Plan) Mukya Mantri Grameena Rasthe Abhivrudhi Yojene	10000.00	9806.51	10000.00	9992.15
4.	H/A 3054-04-337-0-06-059-200 (Non-Plan) 13th Finance Commission	0.00	0.00	16515.00	16471.91
5.	H/A 3054-04-800-1-01-200 (Non-Plan) Maintenance Roads & bridges	15000.00	14947.48	15000.00	14565.90
6.	H/A 3054-03-102-0-01-200 (Non-Plan) Maintenance of bridges SH	626.28	294.72	626.28	538.24
	<b>Total</b>	<b>65626.28</b>	<b>64953.52</b>	<b>64766.28</b>	<b>63723.76</b>
	<b>KSHIP</b>				
1.	H/A 5054-03-337-0-81-172 Development of State Highways KSHIP-I	3000.00	2000.00	2500.00	189.00
2.	H/A 5054-03-337-0-84-172 (Plan) Development of State Highways KSHIP-II	24000.00	9500.00	25000.00	10365.00
	<b>KSHIP Total</b>	<b>27000.00</b>	<b>11500.00</b>	<b>27500.00</b>	<b>10554.00</b>
	<b>KRDCL</b>				
1.	H/A 5054-80-190-0-01-132 (Plan) Capital Expenses	30000.00	30000.00	53000.00	43.000.00
2.	H/A 5054-80-190-0-01-422 (Plan) Special Component Plan	0.00	0.00	1500.00	1500.00
3.	H/A 5054-80-190-0-01-423 (Plan) Tribal Sub-Plan	0.00	0.00	500.00	500.00
	<b>KRDCL Total</b>	<b>43500.00</b>	<b>41918.81</b>	<b>55000.00</b>	<b>45000.00</b>
	<b>Roads &amp; Bridges Total</b>	<b>322713.68</b>	<b>297128.65</b>	<b>405716.28</b>	<b>372063.75</b>

## CHAPTER – 3

### VARIOUS SCHEMES OF THE DEPARTMENT

#### ROADS

##### STATE PLAN SCHEMES :

##### 1) CONSTRUCTION OF BRIDGES AND DEVELOPMENT OF ROADS UNDER NABARD LOAN ASSISTANCE.

The State has been receiving NABARD Loan Assistance through "Rural Infrastructure Development Fund" for Rural Road and Bridge Works since 1996-97. The focus of NABARD assistance is for the development and improvements of rural roads in terms of connectivity. The scheme is being implemented by the Public Works, Ports and Inland Water Transport Department. NABARD assistance is in the form of loan. Initially, the Government has to incur expenditure out of its resources and later the amount so spent on individual work is to be got reimbursed from NABARD.

The progress of NABARD works to end of March 2012 is as follows :

NABARD (R.I.D.F.) PLAN AS ON 31-3-2012							Rs. in crore
Scheme	Total Works	Works completed	Work in progress	Estimated amount	NABARD loan assistance	Expenditure	Loan availed
	1	2	3	4	5	6	7
R.I.D.F- XI	481	481	0	255.25	180.79	260.16	173.03
R.I.D.F- XII	562	561	1	306.58	246.13	325.23	239.20
R.I.D.F- XIII	542	539	3	327.08	261.66	327.71	251.17
R.I.D.F- XIV	353	341	12	274.66	219.73	234.86	181.93
R.I.D.F- XV	285	215	70	206.61	165.29	147.43	101.09
R.I.D.F-XVI	453	132	317	326.27	261.02	104.37	50.98
R.I.D.F-XVII	363	0	18	280.78	224.62	0.55	0.00
<b>Total</b>	<b>3039</b>	<b>2269</b>	<b>421</b>	<b>1977.23</b>	<b>1559.24</b>	<b>1400.31</b>	<b>997.40</b>

R.I.D.F. II to X schemes are already closed.

##### 2. Other Roads Formation :

With the grant of Rs. 57,559.69 lakh during the financial year 2011-12, construction works of roads coming under the jurisdiction of Public Works Department were undertaken under other road construction scheme and utilised the entire grant by the end of March 2012.

##### 3. Special Component Plan and Tribal Sub Plan :

In the Budget 2011-12, under Special Component Plan Tribal Sub Plan Rs. 22574.75 lakh & Rs. 9215.56 lakh has been provided to Public Works, Ports and Inland Water Transport Department, under the Head of Account 5054-Other Road Formation and 5054-Renewal of State Highways respectively. This grant is made on identification of the colonies where the Scheduled Caste and Scheduled Tribes people are inhabited in greater number as per 2001 census. The development of roads in these colonies and development of connecting roads to these colonies, asphaltting works and underground drainage works are being given importance.

Against the amount provided under Special Component Plan and Tribal Sub Plan Rs. 1500.00 lakh and Rs. 500.00 lakh respectively to K.R.D.C.L. works were undertaken by the Corporation. The details of expenditure incurred is given in the Statement of Grant and Expenditure of Chapter-2

#### 4. Special Development Plan :

In the Budget 2011-12, under Special Development Plan and Suvrna Vikasa Raste-Special Development Plan, Rs. 5000.00 lakh and Rs. 13000.00 lakh has been provided to Public Works, Ports and Inland Water Transport Department, respectively. This grant has been allocated on revenue divisionwise namely Gulbarga, Bangalore, Belagavi and Mysore Divisions in the ratio of 40:25:20:15 as based on Cumulative Deprivation Index- CDI on the recommendation of the High Level Committee formed for removal of Regional imbalance and distributed as detailed below.

#### Distribution of resources to 4 divisions of the state on the basis of Cumulative Deprivation Index (CDI)

Division	Deprivation Index	Percentage wise distribution of Resources
Gulbarga	8.06	40.00% (8.06/20.26)
Belgavi	4.12	20.00% (4.12/20.26)
Bangalore	5.32	25.00% (5.32/20.26)
Mysore	2.76	15.00% (2.76/20.26)
Total	20.26	

As per notification No. 282/Kt/2007-V Dt : 02-07-2007 of the Delimitation Commission of India the grant has been distributed on the basis of CDI to 114 backward taluks in which 55 backward taluks in South Zone and 59 Backward Taluks in North Zone and reallocation is made on the basis of percentage of constituencies coming within a taluk.

The details of expenditure made against grants provided under the schemes to the Department is shown in the Statement of Grant and Expenditure of Chapter-2.

#### 5. Suvarna Raste Vikasa Yojane :

In the Budget 2011-12, under Suvarna Raste Vikasa Yojane an amount of Rs. 15000.00 lakh has been provided to Public Works, Ports and Inland water Transport Department, under the Head of Account 5054-04-800-1-09-172- (Plan) and this grant has been completely utilised by the end of March 2012.

#### 6. State Highway Renewals :

In the Budget 2011-12, under State Highway Renewals Scheme an amount of Rs. 20500.00 lakh has been provided under the Head of Account 5054-03-337-0-13-172- (Plan) to the department, and out of this grant an amount of Rs. 16983.25 lakh has been met by the end of March 2012 for renewal and asphaltting works of State Highways coming under all the Assembly Constituencies.

#### 7. Mukya Mantri Grameena Raste Abhivrudhi Nidhi (Plan) and (Non-Plan) :

In 2011-12 under plan head 3054 for maintenance of Major District Roads Rs. 7,125.00 lakh grant has been provided and 6,690.97 lakh expenditure incurred. Under non-plan Rs. 10,000.00 lakh grant has been provided and Rs. 9,992.15 lakh expenditure incurred by the end of March 2012.

**8. State Highway Maintenance :**

In the Budget 2011-12, under State Highway Maintenance Scheme an amount of Rs. 15500.00 lakh has been provided and out of this grant State Highway maintenance works have been undertaken. Under this scheme an expenditure of Rs.15464.59 lakh has been incurred by the end of March 2012.

**9. Roads and Bridges Maintenance :**

In 2011-12 under Non Plan head : 3054 for maintenance of Roads and Bridges Rs. 15,000.00 lakh has been provided and Rs. 14,565.90 lakh expenditure incurred by the end of March 2012.

**10. Bridges Maintenance and Repair :**

In 2011-12 under Non Plan head : 3054 for maintenance and repair of bridges Rs. 626.28 lakh has been provided and an expenditure incurred by the end of March 2012 is Rs. 538.24 lakhs.

**Central Schemes :**

**13th Finance :**

In the year 2011-12, under 13th Finance grant of Rs. 16515.00 lakh has been provided under the Head of Account 3054-04-337-0-06-200- (Non-Plan) and out of this grant Major District Roads maintenance works have been undertaken and an expenditure was made by the end of March 2012 is Rs. 16471.71 lakhs.

## CHAPTER – 4

### KARNATAKA STATE HIGHWAY IMPROVEMENT PROJECT - KSHIP-1

#### 1. Project Details :

1.1 The Karnataka State Highways Improvement Project (KSHIP) is an initiative of Public Works, Ports and Inland Water Transport Department to improve State Highways in the State through external assistance. Under KSHIP -1, 2414 Kms of State Roads were improved at original project cost of Rs. 2030 crores with the loan from World Bank. The 80% of the project cost (Rs. 1635 crores) is borne out of the World Bank loan and balance amount (Rs. 395 crores) is met out of State funds.

#### 1.2 Major Component of the Project :

- a) Improvements to roads (Upgradation and Rehabilitation)
- b) Construction, Supervision & Contract Administration Consultants, Technical Audit Service Consultants and Project Co-ordinating Consultants.
- c) Institutional Development Strategy (IDS) for Public Works, Ports and Inland Water Transport Department
- d) Resettlement & Rehabilitation of Project Affected Families.
- e) Environmental Mitigation Measures.
- f) Road Safety Activities.

#### 2. Status of the Project :

The Project that commenced in 2001 has ended on 31-01-2008 100% utilization of the World Bank loan. The Project cost is revised to 2389.49 crore. The additional project cost of Rs. 360 crore is met out of the State funds.

The total project length of 2414 Kms. has been implemented in 50 contract packages which include 3 bridge packages. The project length has been since revised to 2385 Kms. with deletion of a length of 29 Kms. of package M27 and M32A passing in forest area. Physically a road length of 2384 Km. (99.95%) has been completed and opened to traffic. The balance one Km. which is a ROB in Raichur bypass work is scheduled to be completed by July 2012. The cumulative financial progress achieved to end of March 2012 is Rs. 2362.18 crore including front end fee of Rs. 16.35 crore charged by the bank.

The World Bank has noted the project implementation as satisfactory and has rated KSHIP-1 as one of the highest performance shown projects among the World Bank aided projects in the State.

#### 3. Karnataka State Highway Improvement Project II - KSHIP-II

Encouraged by the success of KSHIP-I, the Government decided to undertake development of further State Highways of the Core Road Network in the State through another project, the KSHIP-II, and pursuant to the decision of the cabinet in its meeting held on 29-09-2005 & 10-11-2006 the Government vide G.O.No.PWD 61 EAP 2006, Bangalore, dated 25-11-2006 has approved taking up of improvement of road length of 3411 Kms. of State Highways under KSHIP-II.

##### 3.1 World Bank Assisted Stage-I of KSHIP-II

- 1 Out of 3411 Kms., a road length of 831 Kms. of selected roads is taken up with the World Bank financial assistance of Rs. US \$ 350 million (Rs. 1575 crore) under Stage-1 of KSHIP-II. The loan agreement with the World Bank was signed on 30th May 2011.
2. The improvement of 831 Kms. has been up under the following two category of contracts.
  - i) EPC contracts 269 Kms.  
(Conventional Item rate contracts)
  - ii) Annuity Concession contracts 562 Kms.

**(DBFOMT) :**

The EPC contracts of 269 Kms. have been awarded and the works have commenced in July/August, 2011. The concessionaires for Annuity Concession Contracts have been short listed and the contracts are likely to be awarded by December, 2012.

3. Under the component of Highway Financing Modernization of the project a provision of US \$ 374 million (Rs. 1682 Cr) has been made. It is envisaged to utilize the provision to take up another 400 Km. of road on PPP (Public Private Partnership) mode under domestic borrowing through KRDCL (Karnataka Road Development Corporation Limited). This is proposed under co-financing / VGF made of Public Private Participation.
4. The financial progress achieved under World Bank works to end of March, 2012 is Rs. 200 crore.

**3.2 Asian Development Bank Assisted Statge-2 of KSHIP-II :**

1. Under Stage 2 of the project, a road length of 615 Kms. of State Highways has been taken up with the loan assistance of US \$ 315 million (Rs. 1465 crore) from the Asian Development Bank. The loan agreement is signed with ADB on 20th July, 2011.
2. The project consists of 9 contract packages. The contracts have been awarded in February 2012 and preliminary works have commenced in March, 2012.
3. The financial progress achieved for ADB works to end of March, 2012 is Rs. 148 crore (incliding the GOK share)

**Revision of Department Code (D-Code)**

The revision of Department Code (D Code) is one fo the institutional reforms undertaken through the World Bank financed Karnataka State Highways Improvement Project-I & II. The D-Code is under finalization in consultation with Finance Department, Irrigatrion Department, National Highways and Public Works, Ports & Inland Water Transport Department Senior Officers and the approval of Government is awaited.

**Core Road Network (CRN)**

The aim is to identify a core network of roads that has the higher priority for meeting economic and social needs and that can be maintained to an appropriate standard. This was one of the major objectives of the consultants M/s Scott Wilson (I) Private Ltd., hired under ADB TA grant for Capacity Development Technical Assistance-1 (TA-7324-IND).

The identification of CRN was done through a set of criteria which include population centres, transport infrastructure, industrial parks, development corridors, mining, tourism, agricultural centres and connectivity to taluks and districts. These were supplemented by traffic data to ensure that the CRN reflects the actual patterns of utilization of the road network by the users.

The length of core road network in the State is identified as follows :

<b>Classification</b>	<b>Length (Km.)</b>	<b>Remarks</b>
National Highways	4490.70	All NH
'A' Class	9078.16	Corridors which have a CRN score of more than 65
'B' Class	10656.74	Other corridors in CRN
<b>Total</b>	<b>24225.60</b>	

### **Implementation of a Safe Corridor Demonstration Program (SCDP) :**

The selected road safety corridors are Maddur to Mysore (53 Km.) and Belgaum to Hungund (186 Km.) Under this program, the following activities will be funded :

- a) Improving the engineering conditions of the two safety corridors.
- b) Strengthening the enforcement along with corridors by providing necessary consulting services and equipments to traffic police units.
- c) Enhancing road safety education, awareness for the road users.
- d) Improving the emergency medical response time.

### **Institutional Development & Strengthening Action Plan (IDSAP)**

An important aspect of the KSHIP is supporting action on the roads sector Institutional Development (ID) strategy for strengthening the PWD/GOK role and capacity for roads development, asset management and road safety management. The ID strategy will be pursued primarily via implementation of an Institutional Development & Strengthening Action Plan (IDSAP). This will be supported by substantial KSHIP-II funded inputs as well as technical assistance from ADB funded components. The amount earmarked for this component in the project is US \$ 11.8 million.

### **(ISO) 9001 / 14001)**

#### **'Operationalising Quality Management System at Karnataka Public Works, Ports and Inland Water Transport Department'.**

Presently Government of Karnataka through KSHIP intends to seek certification under QMS ISO 9001-2008 to 60 PWP & IWT Department offices in phase II, as 21 offices are already certified to ISO 9001-2008 under phase I.

#### **Consultancy Services for operationalisation of EMS-ISO 14001 in KPWD**

Under the KSHIP-II, the Karnataka Public Works Department (KPWD) is preparing to obtain ISO 14001 certification for 14 offices in the State.

## CHAPTER – 5

### KARNATAKA ROAD DEVELOPMENT CORPORATION LIMITED (KRDCL)

The Government has constituted "Karnataka Road Development Corporation Limited" vide Government Order No PWD 172 CRM 97 dated 01-06-1999. The Corporation is established under Companies Act, 1956 (SI.No. of 196 [56] as a Public Limited Company wholly owned by Government of Karnataka and is under the administrative control of the Public Works Department and this was established on 21st July 1999 as a wholly owned Government of Karnataka enterprise.

#### **The structure and the role of the corporation is as detailed below :**

- (a) The Corporation will take up development programme for Roads, Bridges and other related infrastructure development works connected with surface transport.
- (b) The Corporation has an initial Authorised Share capital of Rs 510.00 crores.

#### **Source of funding / Income for the Road Development Corporation.**

- (i) Budgetary provisions for specific projects.
- (ii) Toll collections on roads transferred to Corporation by the State Government.
- (iii) Grant-in Aid received from the Government.
- (iv) Improvement in the projects framed under P.P.P.
- v) Creation of road fund.

The State Government guarantees the repayment of any loans and payment of interest on all or any of the loans/borrowings of the Corporation etc.

#### **Projects for implementation under Karnataka Road Development Corporation Limited :**

Karnataka Road Development Corporation Limited is receiving government grants for implementation of various road development and construction of bridges. In addition to this it is propose to rise funds from financial institutions such as HUDCO. It has already raised Rs. 805 crores loan from HUDCO.

#### **The details of Projects taken up by Karnataka Road Development Corporation Limited are as below :**

1. Since inception improvement of 846 Km. length of roads have been completed. During the year 2011-12, 68 Km. length of road have been developed.
2. Since inception under phase bridges i.e., I, II, III and IV 624 minor bridges and 3 major bridges have been completed. During the year 2011-12, 93 minor bridges and 3 major bridges are completed.

During the year 2011-12 the following new innovations are implemented :

- E-Procurement
- Electronic Measurement Book (EMB)
- Setting up of variation committee/ technical evaluation committee for scrutinizing the bids received from PMU/PMC for monitoring of PPP projects.



- Promotion of KSMCA for VGF/OMT and Toll + Annuity.
- Taking up of improvement works, with the assistance of world Bank under co financing component.
- Empowered Institution has accorded approval for improvements of 4 road projects totaling to a length of 315 Km., amounting to Rs. 831.00 crores. State level single window agency have given clearance for 6 improvement road projects for length of 501 Km, amounting to Rs. 1382 crores. RFQ have been issued for 5 projects for length of 501 Km. amounting to Rs. 1103 crores.
- For the first time KRDC has taken up the construction of composite steel girders with concrete bridge across Tungabhadra river near Devasuguru (Mantralaya) in Raichur District.
- For the first time KRDC has taken up rigid pavement by using "AUTOMATIC CONCRETE SLIP FORM PAVER" for three works of
  - i) work of 4-laning of Mangsuli-Lakshmeshwar (SH-73) between Km. 229.00 to 248.40 (Old NH-14 between Hubli-Dharwad) i.e., from Hosur cross in Hubli to Jublee Circle in Dharwad for a length of 19.40 Km.
  - ii) Road from Sandur to Hospet for a length of 27.10 Km.
  - iii) Road from Kudlagi - Sandur to Thorangallu for a length of 46.65 Km.

<b>A</b>	<b>Roads</b>	
I	Widening and strengthening of Mysore- Bantwal road	
	i) Package-C (from Sampanje to Bantwal)	71.60 Kms.
2	Improvements to road from Belgaum to Chorla (via Jamboti Peeranavadi)	50.10 Km.
3	4-laning of Mangsuli-Lakshmeshwar (SH-73) between Km. 229.00 to 248.40 (old NH-14 between Hubli-Dharwad) i.e., from Hosur cross in Hubli to Jublee Circle of Dharwad.	19.40 Km.
4	Development of road for Kudlagi-Sandur to Tharangallu	46.65 Km.
5	Development of road from Sandur to Hospet	27.10 Km.
6	Development of road from Kananur to Kushalnagar	
	i) Km. 0.00 to Km. 5.00	5.00 Km.
	ii) Km. 5.00 to Km. 22.63	17.63 Km.
7	Improvements to Wagdhari-Ribbanpalli road on BOT bases on V.G.F.	141.20 Km.
8	Improvements to Dharwad-Ramnagar road on BOT bases on V.G.F.	60.40 Km.
9	Chikkanayakanhalli-Tiptur-Hassan road on BOT basis on V.G.F.	72.00 Km.
10	Development of State Highway (SH-132) commencing from Ch. 1.500.00 to Ch. 10.000 Km. to 4-lane divided carriageway and Ch. 10.000 Km. to Ch. 27.170 Km. to 2-lane carriageway from Bellary city to Andhra Pradesh (AP) border on a Design-Build-Finance-Operate-Transfer (DBFOT) Annuity Basis.	25.67 Km.

<b>B</b>	<b>Bridges</b>	
11	Construction of bridge at Km. 11.00 of Sagar Pataguppa road Hosanagar Taluk	1 No.
12	Construction of bridge at Km. 4.32 and Km. 4.72 across Ghataprabha River on Ghataprabha railway station to Konnur Village.	2 Nos.
13	Construction of bridge across Krishna near Jambagi in Bagalkote District	1 No.
14	Construction of bridge across Tungabhadra river on Devasugur- Kattagoda SH-13 at Km. 56.50 in Raichur District.	1 No.
15	Construction of bridge across Tungabhadra river on Harihara-Ranebennur road (SH-76) at 278.30 Km. near Harihara in Harihara taluk, Davangere District.	1 No.
16	Construction of bridge across Tungabhadra river on Hospet-Shimoga road at 153.00 Km. in Honnali taluk, Davangere District.	1 No.
17	Construction of Grade Separator / Interchanges for the junction of Bidadi Industrial Area on Bangalore - Mysore road at Km. 31.60. (SH-17)	1 No.
18	Construction of bridges-Phase-II	255 Nos.
19	Construction of bridges - Phase-III	169 Nos.
20	Construction of bridge under Phase-IV	71 Nos.

**1. Widening and Strengthening of Mysore - Bantwal Road :**

The total length of road proposed for improvements is 220 Km.

Under this scheme it is proposed to construct 4 lane road from Mysore to Bilikere cross and balance length it is proposed reconstruct 2 lane carriageway with earthen shoulders. It is proposed to provide two lane 7.00 mtr. carriageway with 2.50 m earthen shoulder on both sides of the carriageway for most part of the road. This work is proposed to be taken up in 3 packages.

<b>Package</b>	<b>Destination</b>	<b>Length in Km.</b>	<b>Contract/Estimated Amount in Crores</b>
Package A	Mysore to Kushalnagar	86.66	151.04
Package B	Kushalnagar to Sampaje	60.20	183.75
Package C	Sampaje to Bantwal	71.60	203.26
	<b>TOTAL</b>	<b>218.46</b>	<b>538.05</b>

The work of **Package-A** for a length of 86.66 Km. is awarded for a contract amount of Rs. 151.04 crores (revised). Work commenced in March 2005 and completed on April 2010.

The work of **Package-B** for a length of 60.20 Km. is awarded for a contract amount of Rs. 183.75 crores (revised) and work commenced on 25-10-2006 and completed on March 2012. Expenditure during the year 2011-12 is Rs. 70.81 crores. The total expenditure incurred upto end of April 2012 is Rs.146.94 crores.

The work of **Package-C** for length of 71.60 Km is awarded for a contract amount of Rs. 203.26 crores (revised) and work commenced on 29-01-2010 and is under progress. Due date of completion is 20-07-2012.

Expenditure during the year 2011-12 is Rs. 22.32 crores. The total expenditure incurred upto end of March 2012 is Rs. 26.24 crores.

**2. Improvements to road from Belgaum to Chorla (via Jamboti Peeranavadi) :**

The improvements to 50.10 Km. length of Belgaum-Chorla road via Peeranawadi-Jamboti road is taken up for a contract amount of Rs. 101.45 crores (revised). The work commenced on 14-09-2007 and is under progress. 42.86 Km. upto DBM has been completed. Expenditure during the year 2011-12 is Rs. 30.75 crores. The total expenditure incurred upto end of March 2012 is Rs. 65.75 crores.

**3. 4-laning of Mangsuli- Lakshmeshwar (SH-73) between Km. 229.00 to 248.40 (Old NH-14 between Hubli-Dharwad) i.e., from Hosur cross in Hubli to Jublee circle of Dharwad :**

The improvements to 19.40 Km. length of 4-laning of Mangsuli-Lakshmeshwar (SH-73) between Km. 229.00 to 248.40 (Old NH-14 between Hubli-Dharwad) i.e., from Hosur cross in Hubli to Jublee Circle at Dharwad District is taken up for a contract amount of Rs. 119.11 crores. The work commenced on 30-04-2011 and is under progress. Expenditure during the year 2011-12 is Rs. 0.36 crores.

**4. Development of road for Kudlagi-Sandur to Thorangalu :**

The improvements to 46.65 Km. length of Kudlagi-Sandur road is taken up for a contract amount of Rs. 94.31 crores. The work commenced on 25-07-2011 and is under progress. The total expenditure incurred upto end of March 2012 is Rs. 0.27 crores.

**5. Development of road from Sandur to Hsopet :**

The Improvements to 27.10 Km. length of Sandur to Hospet road is taken up for a contract amount of Rs. 70.61 crores. The work commenced on 25-07-2011 and is under progress. The total expenditure incurred upto end of March 2012 is Rs. 0.53 crores.

**6. Development of road from Konanur to Kushalnagar :**

**i) Km. 0.00 to Km. 5.00**

The improvements to 5.00 Km. length road is taken up for a contract amount of Rs. 13.75 crores. The work commenced on 15-03-2012 and is under progress.

**ii) Km. 5.00 to Km. 22.63**

The improvements to 17.63 Km. length road is taken up for a contract amount of Rs. 42.35 crores. The work commenced on 24-10-2011 and is under progress. The total expenditure incurred upto end of March 2012 is Rs. 0.98 crores.

**7. Wagdhari - Ribbanpalli road (Maharashtra's border to A.P. border [141.2 Km.]) :**

It is a BOT - VGF project. Concession period 30 years including 2 years construction period and 28 years maintenance period with tolling. The total length of road proposed for improvement is 141.2 Km. at a project cost of Rs. 242.75 crores. The work is under progress. A physical progress of 90 Km. length is achieved during 2011-12. Total length developed completed is 130.00 Kms.

**8. Dharwad - Alnawar - Ramanagara road (60.40 Km.) :**

It is BOT-VGF project, Concession period's is 30 years including 2 years construction and 28 years maintenance period with tolling. The total length of road proposed for improvement is 60.40 Km. at a project cost of Rs. 237.60 crores. The work is under progress. Physical progress of 18 Km. length is achieved upto DBM level during 2011-12. Total length upto DBM level is 28.00 Kms.

**9. Chikkanayakanhalli -Tiptur-Hassan road on BOT Basis (72.00 Kms.) :**

It is BOT-VGF project, Concession period is 30 years including 2 years construction and 28 years maintenance period with tolling. The total length of road proposed for improvement is 72.00 Km. at a project cost of Rs. 241.76 crores. Preliminary works such as utility shifting and tree cutting are in progress.

**10. Construction of Bridge at Km. 4.32 and Km. 4.72 across Ghataprabha River on Ghataprabha Railway Station to Konnur Village :**

Construction of bridge at Km. 4.32 and Km. 4.72 across Ghataprabha River on Ghataprabha Railway Station to Konnur Village is taken up by KRDCCL at a contract amount of Rs. 15.99 crores. The work has commenced on 15-03-2010 and foundation and sub structure and super structure work is in progress. The expenditure during the year 2011-12 is Rs. 3.05 crores. Total expenditure to end of March 2012 is Rs. 5.42 crores.

**11. Construction of Bridge at Km. 11.00 Sagar Pataguppa Road is Hosanagar Tq.**

Construction of bridge at Km. 11.00 of Sagar Pataguppa road is taken up by KRDCCL at a contract amount of Rs. 22.74 crores. The work is commenced on 02-06-2008 and work is under progress. Expenditure during the year 2011-12 is Rs. 2.18 crores. The total expenditure incurred to end of March 2012 is Rs. 10.52 crores.

**12. Construction of bridge across Krishna river near Jambagi village in Bagalkote district.**

Construction of bridge across Krishna river near Jambagi village in Bagalkot District is taken up by KRDCCL at a contract amount of Rs. 38.98 crores. The work has commenced on 07-07-2010 and foundation and sub structure work is under progress. The expenditure during the year 2011-12 is Rs. 7.71 crores. Total expenditure incurred to end of March 2012 is Rs.8.59 crores.

**13. Construction of bridge across Tungabhadra river on Devasugur - Kattagoda SH-13 at Km. 56.50 in Raichur District.**

Construction of bridge across Tungabhadra river on Devasugur- Kattagoda SH-13 at Km. 56.50 in Raichur district is taken by KRDCCL at a contract amount of Rs. 43.15 crores. The work has commenced on 12-07-2010 and work is under progress. The expenditure during the year 2011-12 is Rs. 28.66 crores. Total expenditure incurred to end of March 2012 is Rs.29.06 crores.

**14. Construction of bridge across Tungabhadra river on Harihara-Ranebennur road (SH-76) at 278.30 Km. near Harihara in Harihara Taluk, Davangere District.**

Construction of bridge across Tungabhadra river on Harihara-Ranebennur road (SH-76) at 278.30 Km. near Harihara in Harihara taluk, Davangere District is taken by KRDCCL at a contract amount of Rs. 19.88 crores. The work was commenced on 01-11-2011 and foundation work is under progress.

**15. Construction of bridge across Tungabhadra river on Hospet-Shimoga road at 153.00 Km. in Honnali Taluk, Davangere District.**

Construction of bridge across Tungabhadra river on Hospet-Shimoga road at 153.00 Km. in Honnali Taluk, Davangere District is taken by KRDCCL at a contract amount of Rs. 21.79 crores. The work was commenced on 01-11-2011 and foundation work is under progress.

**16. Construction of bridges under Phase II :**

Construction of 255 bridges, each costing more than 25 lakhs amounting to Rs. 246.00 crores are taken up by KRDCCL in 4 packages This work is under package I & IV are awarded to M/s Nagarjuna Construction Co.Ltd. and the work under package II & III are awarded to M/s Gammon India Ltd. in May 2005 and the agencies have to complete all the bridges within 3 years. Out of 255 bridges 254 bridges are completed. 1 bridge is under progress. Expenditure during the year 2011-12 is Rs. 2.58 crores. The total expenditure incurred is Rs. 208.07 crores.

**17. Construction of bridges under Phase III :**

Construction of 169 bridges, costing more than 25 lakhs amounting to Rs. 226.00 crores are taken up by KRDCCL in 4 packages. This work is under package I & IV are awarded to M/s Nagarjuna Construction Co. Ltd.

and the work under package II & III are awarded to M/s Gammon India Ltd., in September 2006 and the agencies have to complete all the bridges within 3 years. Out of 169 bridges 159 bridges are completed. 10 bridges are under progress. Expenditure during the year 2011-12 is Rs. 10.99 crores. The total expenditure incurred is Rs. 185.14 crores.

**18. Construction of bridges under Phase IV :**

Construction of 71 bridges, costing more than 25 lakhs amounting to Rs. 89.42 crores are taken up by KRDCCL in 4 packages. This work is under package I & IV are awarded to M/s Nagarjuna Construction Co. Ltd. and the work under package II & III are awarded to M/s Gammon India Ltd., in October 2007 and the agencies have to complete all the bridges within 3 years. Out of 71 bridges 64 bridges are completed. 07 bridges are under progress. Expenditure during the year 2011-12 is Rs. 13.66 crores. The total expenditure incurred is Rs. 75.91 crores.

**19. Brief Note on the Project B-TRAC :**

The Government of Karnataka has taken up the project B-TRAC for improving and enforcing the traffic regulation in Bangalore City from the year 2006-07. The Government has entrusted the task of implementing this project to the Karnataka Road Development Corporation Limited inco-ordination with the Police Department vide Government order No. HD 73 POP 2006 Bangalore dated 22-05-2006. In this regard, Memorandum of understanding between Karnataka Road Development Corporation Limited and Bangalore City Police Commissioner has been entered into on 9th August 2006.

**Purpose of the Project :**

The project is envisaged to reduce the traffic congestion in Bangalore city by implementing Modern Technologies and strategies such as intelligent transport system, modernization of traffic policies and enforcement of automation etc.,

**The objectives of the project are as below :**

- Reduce traffic congestion by 30% in the central area of Bangalore City.
- Reduce accidents by 30% in the city of Bangalore.
- Achieve significant reduction in pollution.
- Achieve substantiated compliance of traffic laws and rules.
- Setup an effective Trauma Care System.

Under the above project, KRDCCL has implemented various works based on the requirements of the user department. So for following are the few important works executed.

- Up gradation of 163 existing signals.
- Installation of 179 Survivellance Cameras.
- Installation of 5 enforcement cameras.
- Installation of road signage boards in all the roads of the city.
- Installation of inforatory signage boards in the junctions of the city.
- Installation of road furnitures such as Cat eyes, Tubular Cones, Object markers, Hazard Markers, Reflective Median Markers, Thermoplastic Road Marking etc., in the city roads.
- Installation of 180 new signals at various junctions.
- Installation of 625 Solar Blinkers.
- Installation of Pelicon Signal Lights in the important locations.
- Procurement of 5 interceptors etc.

The year wise deposit versus expenditure towards the above project is as tabulated below :

(Rs. in lakhs)

<b>Sl.No.</b>	<b>Year</b>	<b>Deposited Amount</b>	<b>Expenditure</b>	<b>Balance as on 31-3-2012</b>
1	2006-07	4400	13.58	–
2	2007-08	Nil	1975.78	–
3	2008-09	3500	2698.00	–
4	2009-10	4000	3292.00	–
5	2010-11	500	2766.77	–
6	2011-12	1500	1281.00	–
	<b>TOTAL</b>	<b>13900</b>	<b>12027.13</b>	<b>1872.87</b>

## CHAPTER - 6

### NATIONAL HIGHWAYS

#### NATIONAL HIGHWAYS :

- The Development and Maintenance of National Highways in the state comes under the jurisdiction of P.W.P. & I.W.T.D. and the entire expenditure is borne by the Government of India. The Fifteen National Highways which are passing through the Karnataka State are given below.

Sl. No.	N.H. No.	Description	Total length in Kms.	Length vested with NHAI	Length vested with Municipal bodies	Over lapping length	Length vested with Ministry
1	2	3	4	5	6	7	8
1	4	Kolar - Bangalore - Belgaum - Pune	699.58	683.08	16.50	-	-
2	7	Belgaum - Khanapur - Anmod Panjim	134.01	119.01	15.00	-	-
3	4A	Benaras - Nagpur - Hyderabad - Kurnool Bagepalli - Bangalore - Hosur - Krishnagiri - Salem - Madras - Madurai - Kanyakumari	84.12	84.12	-	-	-
4	9	Poona - Sholapur - Humnabad - Hyderabad Vijayawada	75.01	-	-	-	75.01
5	13	Sholapur-Chitradurga - Humnabad - Hyderabad-Vijayawada	714.66	198.10	-	6.40	510.16
6	17	Panvel - Panaji - Karwar - Coondapur - Udupi -Mangalore - Cannanore - Trichur	300.10	106.90	3.60	-	189.60
7	48	Bangalore - Kunigal - Hassan Sakleshpur - Mangalore	319.50	178.22	-	-	141.28
8	63	Ankola - Hubli - Gooty (AP)	368.60	-	-	9.60	359.00
9.	67	Mettupalyam-Ooti-Gundulpet	26.10	-	-	-	26.10
10.	206	Tumkur-Shimoga-Honnar Road	370.63	-	-	-	370.63
11.	207	Hosur (NH7) - Sarjapur-Devanahalli, Doddaballapur, Dobespeth (N.H.4) Road	122.38	-	-	2.50	119.88
12.	209	Bangalore - Kollegal - Chamarajanagar- Satyamangala-Honnur - Coimbatore - Pollachi - Dindigal	203.52	-	-	-	203.52
13.	212	Kozhikode-Mysore-Kollegal	151.00	-	-	-	151.00
14.	218	Bijapur-Hubli	412.00	-	-	-	412.00
15.	234	Mangalore-Belur-Sira-Madhugiri- Chintamani-Mulbagal to A.P. Border	509.50	-	-	20.15	489.35
		<b>Total</b>	<b>4490.71</b>	<b>1369.43</b>	<b>35.10</b>	<b>38.65</b>	<b>3047.53</b>

The details of grant allocated for National Highways and details of outlay since 1987-88 is given below, The entire cost will be borne by Central Government.

(Rs. in Lakhs)

YEAR	ORIGINAL WORKS		MAINTENANCE AND REPAIRS	
	GRANT	OUTLAY	GRANT	OUTLAY
1987-88	1450.00	1456.57	444.49	619.19
1988-89	1625.00	1657.33	622.79	793.52
1989-90	1800.00	1816.72	671.77	847.91
1990-91	1800.00	1920.43	767.83	885.03
1991-92	1775.00	2636.39	990.00	1189.33
1992-93	1850.00	1847.98	1105.85	1677.57
1993-94	2900.00	2131.74	1242.94	1088.02
1994-95	3189.00	2871.85	1509.40	1160.41
1995-96	3319.99	2965.69	1770.49	1209.91
1996-97	3530.54	4322.92	2457.80	2467.81
1997-98	4411.03	4413.57	3059.00	3066.52
1998-99	4908.05	4014.21	3112.00	3026.00
1999-2000	6113.76	5594.21	3921.04	3931.21
2000-01	9795.16	9461.63	3097.67	3086.02
2001-02	10982.55	10805.29	3902.45	3983.16
2002-03	8970.97	9504.08	4582.28	4644.56
2003-04	15034.83	16613.29	3873.07	3806.65
2004-05	76905.00	76905.00	3582.00	3535.00
2005-06	8861.22	8863.96	4143.80	4200.11
2006-07	8890.95	8635.00	3988.00	4018.46
2007-08	9950.00	9950.00	5943.81	6030.75
2008-09	19951.33	21518.59	7124.30	7327.17
2009-10	30527.00	30527.00	6476.00	6010.19
2010-11	26000.00	27623.64	6850.00	7151.04
2011-12	33000.00	31323.65	5259.00	5675.16



**The grant and outlay since 1986-87 under different schemes is given below :**

(Rs. in lakhs)

YEAR	INTER STATE IMPORTANCE		ECONOMIC IMPORTANCE		ALLOCATION (CRF)		ORDINARY RESERVE (CRF)	
	Grant	Outlay	Grant	Outlay	Grant	Outlay	Grant	Outlay
1986-87	65.00	75.87	80.00	39.09	83.07	100.07	12.00	0.24
1987-88	70.10	38.42	80.00	92.49	96.10	45.69	10.00	0.55
1988-89	54.00	31.97	80.00	108.58	93.90	28.04	45.60	0.93
1989-90	40.10	20.92	80.00	120.46	-	55.45	47.61	3.55
1990-91	45.20	18.92	70.00	129.68	96.20	56.38	39.88	16.08
1991-92	30.20	18.88	80.00	95.59	131.25	68.72	60.62	19.83
1992-93	40.00	21.78	90.00	117.54	224.00	197.76	15.00	18.12
1993-94	6.57	6.59	63.45	63.45	172.00	176.61	7.22	7.22
1994-95	1.26	3.23	78.24	80.90	131.86	131.88	2.06	2.07
1995-96	70.00	2.11	30.00	102.89	90.00	153.25	10.00	4.56
1996-97	60.00	40.02	45.00	5.00	80.00	130.55	20.00	—
1997-98	599.50	207.00	600.50	348.00	125.99	53.45	—	—
1998-99	700.00	505.00	1000.00	882.00	130.00	128.00	—	—
1999-2000	530.00	530.07	800.00	776.54	240.00	107.02	—	—
2000-01	770.00	714.75	40.00	218.99	460.00	123.92	—	—
2001-02	525.00	531.31	990.00	1007.93	3256.00	3164.56	—	—
2002-03	400.00	386.32	5.00	7.94	2750.00	3037.40	—	—
2003-04	20.00	9.26	210.00	209.27	1355.50	2583.46	—	—
2004-05	39.89	—	1425.53	578.46	7079.03	5566.51	—	—
2005-06	474.87	269.11	928.10	401.44	8065.43	7368.80	—	—
2006-07	1385.00	1469.46	1350.00	1427.80	8065.43	8065.43	—	—
2007-08	2514.00	1927.41	2330.00	1829.77	8186.00	8081.87	—	—
2008-09	2087.00	2087.00	998.00	990.00	5640.53	5639.89	—	—
2009-10	1774.00	1771.50	1376.00	1376.00	11708.00	11708.00	—	—
2010-11	650.00	650.00	1200.00	1200.00	5000.00	5000.00	—	—
2011-12	1700.00	1700.00	1600.00	1600.00	17300.00	17252.71	—	—

## **IMPORTANT WORKS ON NATIONAL HIGHWAYS :**

Totally, 110 works (including spillover works) like widening, strengthening, IRQP, improvements to Major/ Minor bridges are taken up. Among these, 52 works have been completed, 71.30 Kms of widening, 625 Km. of IRQP are completed. An amount of Rs.324.63 crores has been spent towards this during the present financial year.

### **National Highway Zone Schemes :**

#### **1. State Road Works under Central Road Fund (CRF)**

Rs. 172.53 crores works has been approved under Central Road Fund, during the financial year 2011-12 out of the cess charged at Rs. 1.00 per litre of petrol and diesel sold in the State.

#### **2. Inter State Connectivity Roads (Plan) :**

Under this plan, State Highways an Major District Roads connecting Inter State road works are taken up. This plan is a central plan and 100% grant is given by Central Government. In 2011-12, under Inter State connectivity Rs. 1,700.00 lakh grant is provided and this grant is completely utilized by the end of March 2012.

#### **3. Economic Importance Roads (Plan) :**

In 2011-12, udner Economic Importance Rs. 1,600.00 lakh grant is provided under this grant State Highways and Major District Roads connecting Industrial areas, Agricultural markets are improved and grants are completely utilized by the end of March 2012. Grants under this plan is equally divided by Central and State Government of 50% each.

## CHAPTER - 7

### BUILDINGS

During inspection for the department undertaking roads, bridges and building and other department works, to give accomodation to the Departmental / Government officers in all district levels Inspection Bunglows has been constructed. For the smooth functioning of the Government work, residential quarters has also been constructed for Department/Government officers at head quarters and periodical maintance of these quarters are also being undertaken by the department. Along with this department is also constructing important other departments buildings.

This Department is incharge of construction and maintenance of Government buildings. The estimated capital cost of buildings incharge of P.W.P. & I.W.T.D. as at the end of 31-3-2012 is Rs.1742.60crores. The portion of residential and non-residential buildings was Rs. 466.46 crores and Rs. 1276.14 crores was estimated respectively.

During 2011-12, the department has spent for the construction of departmental buildings to the tune of Rs. 51135.43 lakh and residential buildings for Rs. 7623.97 lakh and the department has incurred an expenditure of Rs. 25749.11 lakh for maintenance and repair works.

#### Buildings Grants and Expenditure details for the year 2010-2011 and 2011-12

Rs. in lakhs

Sl No.	Names of Existing & New Schemes	2010-11		2011-12	
		Grant	Expenditure	Grant	Expenditure
<b>Head of Account 4059 Plan :</b>					
1.	H/A 4059-80-051-0-29 (Plan) Construction of Departmental buildings	9380.00	9367.10	17400.00	16878.32
2.	H/A 4059-80-051-0-32 Court buildings	2500.00	2345.26	11777.50	11277.55
3.	H/A 4059-80-051-0-38 (Plan) Circuit Bench at Dharwad & Gulbarga	1500.00	1099.99	0.00	0.00
4.	H/A 4059-80-051-0-40-386 (Plan) Construction of Suvarna Soudha at Belgaum	15000.00	12609.99	15000.00	13286.73
5.	H/A 4059-80-051-0-20-422 (Plan) Construction of Departmental buildings (SCP)	2000.00	0.00	0.00	0.00
6.	H/A 4059-80-051-0-34 (Plan) RTO Buildings & Test Driving Track	1500.00	774.20	1500.00	1493.09
7.	H/A 4059-80-051-0-49-386 (Plan) KPSC Vajramahothsava construction	0.00	0.00	250.00	0.00
8.	H/A 4059-80-051-0-50-386 (Plan) Karnataka Bhavan I,II & III New Delhi	0.00	0.00	715.00	136.75
9.	H/A 4059-80-800-0-05-386 (Plan) Infrastructure & stay facilities at religious places	0.00	0.00	500.00	500.00
10.	H/A 4059-80-051-0-03-132 (Plan) Jails-Capital expenses	0.00	0.00	300.00	300.00
11.	H/A 4059-80-051-0-46-386 (Plan) Karnataka Information Commission Building Construction	0.00	0.00	750.00	750.00
12.	H/A 4059-80-052-0-02-125 (Plan) Modernisation of jails	0.00	0.00	800.00	793.78
13.	H/A 4059-80-051-0-12-386 (Plan) Education Building Construction	0.00	0.00	300.00	300.00

14.	H/A 4059-80-051-0-42-386 (Plan) Construction of Dist. office	0.00	0.00	3000.00	3662.02
15.	H/A 4059-80-051-0-30-386 (Plan) Constrn. of mini Vidhana Soudha & Sub Registrar's offices	0.00	0.00	2500.00	1757.19
16.	H/A 4059-80-051-0-47-388 (Plan) Law University Building Construction	0.00	0.00	500.00	0.00
17	H/A 4059-80-051-0-48-386 (Plan) Sahakar Bhavan Construction	0.00	0.00	500.00	0.00
<b>Total</b>		<b>31880.00</b>	<b>26196.54</b>	<b>55792.50</b>	<b>51135.43</b>
<b>Head of Account 4216 (Plan) - Residential buildings :</b>					
1.	H/A 4216-01-700-2-01 (Plan) Construction of Residential buildings	5500.00	3669.00	5500.00	5005.69
2.	H/A 4216-01-700-2-25-386 (Plan) Construction of High Court Judges & Staff Quarters at H.S.R. Layout	1500.00	0.00	2500.00	2468.29
3.	H/A 4216-80-800-0-01-386 (Plan) Karnataka Bhavan I,II & III, New Delhi Constrn.	0.00	0.00	200.00	149.99
<b>Total</b>		<b>7000.00</b>	<b>3669.00</b>	<b>8200.00</b>	<b>7623.97</b>
<b>Head of Account 2059 &amp; 2216 (Plan)</b>					
1.	H/A 2059-80-053-4-00-147 (Plan) Construction of Departmental buildings	300.00	300.00	300.00	300.00
2.	H/A 2216-01-700-2-12 (Plan) Maintenance of Residential buildings	500.00	475.00	250.00	91.00
3.	H/A 2059-80-051-0-21-200 (Plan) Karnataka Bhavan, New Delhi.	0.00	0.00	33.00	27.62
4.	H/A 2059-80-053-1-08-147 (Plan) Minor Constrn. of Legislative Home Works & Buildings	0.00	0.00	300.00	296.34
5.	H/A 2216-01-700-2-04-386 (Plan) Minor Constrn. of Residential buildings	0.00	0.00	250.00	250.00
<b>Total</b>		<b>800.00</b>	<b>775.00</b>	<b>1133.00</b>	<b>964.96</b>
<b>Head of Account 2059 &amp; 2216 (Non-Plan)</b>					
1.	H/A 2059-80-053-4-00-200 (Non-Plan) Maintenance of Departmental buildings	21911.29	21833.94	18660.19	18412.78
2.	H/A 2216-01-700-3-01-200 (Non-Plan) Maintenance of Residential buildings	5844.30	5822.50	6928.73	6286.39
3.	H/A 2216-01-700-4-00-221 (Non-Plan) Furnishing	693.33	636.44	762.66	51.98
4.	H/A 2216-80-800-0-03-200 (Non-Plan) Karnataka Bhavan, New Delhi	30.00	30.00	33.00	33.00
<b>Total</b>		<b>28478.92</b>	<b>28322.88</b>	<b>26384.58</b>	<b>24784.15</b>
<b>Total Buildings</b>		<b>68158.92</b>	<b>58963.42</b>	<b>91510.08</b>	<b>84508.51</b>

## **CHAPTER - 8**

### **DEPARTMENT OF ARCHITECTURE**

#### **INTRODUCTION :**

The Department of Architecture is functioning as an independent Department since 30-10-1986. The main objective of the Department is to furnish Architectural Design Drawings for buildings of various Government Departments throughout the State of Karnataka. Architectural Design Drawings are prepared based on the requirements furnished by the user departments, site condition and other prescribed standard and norms.

The Department also furnished Architectural Drawings to Quasi Government Organisations, Autonomous Bodies, Boards, Development Authorities, like Bangalore Development Authority, Corporations, Municipalities etc., on request after collecting architects fee.

Whenever a request for Architectural design is received from the user department or an Engineering Department, the concerned team of Architects makes a thorough study of all the aspects of building design. The approach to any project is highly professional and creative in nature. All requests, whether they are new proposals/ alterations and additions to the existing building/ ongoing works, are all dealt with equal importance, giving utmost priority to budgeted works. This office is committed in issuing the necessary Architectural drawings in time, based on the stage of the project. For e.g. schematic drawings for administrative sanction or detailed drawings for technical sanction or working drawings for execution. The department undertakes periodical inspections of building projects which are under construction at various places in order to solve the problems encountered by the site engineers at the time of execution and to see that the works are executed in accordance with the drawings furnished by this Department.

In addition to Architectural Design Drawings the Department also furnishes detailed working drawings, joinery details, Interiors and for services like Electrical, plumbing and Sanitary etc., which are essential for executing the building projects.

#### **ADMINISTRATION :**

Central office of the Department of Architecture is functioning at Bangalore. Sri K. Udaya is working as Principal Chief Architect since 12-4-2007 and under his guidance, Deputy Chief Architects, Deputy Architects, Senior Assistant Architects and other Technical staff have prepared Architectural drawings. Principal Chief Architect and other Officers of the Department have undertaken site visits to most of the projects during construction at various stages. With a view to fulfill the urgent needs of the works of Northern parts of the State, more site visits are undertaken.

This Department has a Computer Wing and Computers are being used for preparing Architectural Design drawings and also for Administration purpose.

#### **FINANCIAL :**

No Architects fee is collected for designing Government buildings. However, Architects fee is collected in case of Quasi-Government Organisations, Corporations, and Z.P. Works, etc.

#### **PROGRAMME / PROCESS :**

The main aim of this Department is to provide very efficient, economical and user friendly designs based on the requirements of the User Departments.

There is need for reviewing Cadre and Recruitment Rules of this Department and necessary steps have already been initiated in this regard.

During the year under report, the Department has prepared and furnished about 924 Architectural Design Drawings to various Government building projects costing about Rs. 598.30 crores.

#### **SUMMARY/ CONCLUSION :**

With better coordination from the Government, user Departments and the Public Works, Ports & Inland Water Transport Department, this Department can function more efficiently and provide better designs in terms of usage, economy and aesthetics and necessary working drawings and detailed drawings for services etc., can also be given in time.

## **CHAPTER - 9**

### **PORTS AND INLAND WATER TRANSPORT**

#### **PORTS :**

The state has a maritime coastline of 300 Kilometers with ten Minor Ports under states control are :

- 1. Karwar**
- 2. Belikere**
- 3. Tadri**
- 4. Honnavar**
- 5. Bhatkal**
- 6. Kundapur**
- 7. Hangarakatta**
- 8. Malpe**
- 9. Padubidri**
- 10. Mangalore (Old)**

During the past plan five years periods certain basic facilities for handling cargo have been provided based on the necessity at Karwar, Belekeri, Tadri, Honnavar, Bhatkal, Kundapur, Hangarakatta, Malpe and Mangalore Port (old) and these ports have handled total exports of 11.64 lakh metric tonnes and imports of 4.17 lakh metric tonnes during the year 2011-2012.

Karwar port has been developed under state sector and is functioning as an All Weather Port. This port is handling all class of goods for Export and Import including Petroleum products with alongside berths. Karwar port helps prominently for the development of hinterlands in Northern Karnataka. Mangalore Port has been developed for coastal shipping activities. Belekeri Port has been developed under private participation. During the year 2011-12 the Karwar port handled 4.91 lakhs M.T. of cargo as against the 11.27 lakhs M.T. of cargo handled during the previous year. The total revenue receipt of Karwar port during the year 2011-12 is Rs.972.34 lakhs as against Rs 964.56 lakhs of the previous year. During the year the Belekeri Port did not handled cargo as the activities are stoped. Belkeri port earned Rs. 10.19 lakhs other revenue through activities.

A sum of Rs.762.00 lakhs has been provided in the annual plan for 2011-12 under state sector for development of ports under the control of State Government. Out of this, a sum of Rs.345.00 lakhs is for the development of Karwar port, Rs. 225.00 lakhs for the development of Mangalore port (old) and Rs.192.00 lakhs is provided for remaining minor ports and for Inland Water Transport. The total expenditure incurred during 2011-12 for the development of the ports is Rs. 717.71 lakhs. Construction of wharf at Old Mangalore Port at an estimated cost of Rs. 966.40 lakhs and construction of Lighterage wharf at Karwar port at an estimated cost of Rs. 300.00 lakhs are under progress. Signal lights and channel marking bouys have been provided to the Karwar, Belekeri, Kundapur, Malpe & Mangalore port for safe navigation of ships. Infrastructure facilities like construction of jetties, ramps, improvement of roads & wharfs etc., have been provided at minor ports.

#### **INLAND WATER TRANSPORT**

There are 334 ferry services in the state, out of which 15 Ferries are managed by the department by putting into use of mechanised boats. 47 Ferries are run by auction lease under the supervision of the department. Remaining 272 ferries ar being operated through Zilla panchayat / Tourism / Forest Department and

other private agencies. 4 LCTs and 3 mini LCT's, 4 mechanized steel boats, 6 fibre glass mechanized boats, 1 wooden mechanized boat, 1 Ferro cement mechanized boat, 15 fibre glass dumb boats and 5 wooden dumb boats are flying in these ferries.

The Ferry services under the departmental management during 2011-12 have handled 17.15 lakhs passengers, 20.09 M.T. of cargo, 1.65 lakhs different types of vehicles.

#### **COASTAL PROTECTION WORKS :**

For handling the Sea erosion problem in the State collecting data of frequently sea erosion sites scientifically keeping in view the environmental aspects, considering the interest of Fisheries, Tourism and to Protect the properties of the local community the details at critical points along the entire coast is being collected. For the coastal protection works Rs 527.51 lakhs has been spent during the year under the head of account 4711. Construction of 550 mtrs. length sea wall and SCP/TSP under 1528 Km. development of road work completed.

#### **2011-2012 REVENUE RECEIPTS AND EXPENDITURE :**

The revenue receipts for 2011-12 in respect of Ports is Rs. 788.51 lakhs and in respect of Inland Water Transport receipt is Rs. 39.45 lakhs. During the year 2011-12, expenditure incurred for the development of Ports and Inland Water Transport and for construction of seawall under the Plan scheme is 1245.22 lakhs and under the Non-Plan is Rs 3146.70 lakhs.

## CHAPTER - 10

### PROGRESSIVE DEVELOPMENTAL ACHIEVEMENTS OF THE DEPARTMENT

To bring in efficiency and transparency and to prescribe the responsibility in the administration, the Public Works, Ports and Inland Water Transport Department has undertaken following several measures.

#### 1. E-Procurement

All the works of Rs. 20.00 lakh and above are being undertaken through e-procurement process from 01/04/2011. This being a complete online process, all the processes like receipt of tender, preparation of works, approval required as per necessity, receipt of EMD etc., may be selected through the online.

So far, Training has been imparted to 2031 Engineers/Officers and 724 Contractors, through the E-governance Department.

In Public Works Department, so far, 4661 Tenders amounting to Rs 4,240.00 Crore have been transacted through e-procurement.

#### 2. Adopting the achievement and progress report of the department in the website of the department

In the website of the department, necessary information, certain important documents, government orders and progress reports have been adopted after computerisation. Moreover, organizational set-up details of the department, plans, road network, right to information act, tenders, appointments, communication details, information on residential houses of the public works department, road information system based on web, news and events of the department, MPICs of the department, citizen charter and also the information of result frame documents is also updated in the website. For further information the website ([www.kpwd.gov.in](http://www.kpwd.gov.in)) may be visited.

##### 2.1 Adopting progress of works in the web site of the department

Action is being initiated to adopt in the web site the details of every work, the information on physical and financial progress in every month for making it easy to review the progress of each work undertaken by the department and initially the progress details of works of two divisions are adopted and the action for adopting the works of remaining divisions is in progress.

##### 2.2 Citizen Charter of the Department

The 'Citizen Charter-2011' containing the details of executive jurisdiction of the Public Works Department, the information of subordinate offices and the details of services available to public by the department is prepared and adopted in the web site of the department.

#### 3. Road Condition Survey :

Since 2001, the Road Condition Survey is being conducted annually by using the system of ROMDAS (Road Measurement and Data Acquisition System). Through this survey, K.M. wise lane details and the quality details of the roads is collected. So that the information of surface roughness, real condition and visual inspection of the roads is being adopted in the road information system.

#### 4. Road Information System (RIS)

Road Information System is developed on the basis of Geographical Information System. Road Information System provides information on roads communication and condition of the roads.

The details of length of the roads, width and surface etc., of the roads, cause way drainages and bridges details are available. The details of the roads upgraded during 2011-12 and the financial details on development of roads under various schemes during the past four years is being adopted.

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