

Appendices

Appendix – 1.1

Year-wise break up of outstanding Inspection Reports (IRs) as on 30 June 2018

(Reference: Paragraph 1.7.1 - Page: 07)

Year	Up to 2014-15	2015-16	2016-17	2017-18	2018-19 (Upto 30 June 2018)	Total
PUBLIC WORKS DEPARTMENT (ROADS AND BRIDGES)						
Number of IRs	75	10	15	5	NIL	105
Number of paragraphs	451	115	128	58	NIL	752
Number of IRs for which initial reply has not been received (number of paragraphs)	NIL	NIL	7(53)	3(34)	NIL	10(87)
IRRIGATION DEPARTMENT						
Number of IRs	64	22	NIL	7	4	97
Number of paragraphs	188	82	NIL	51	23	344
Number of IRs for which initial reply has not been received (number of paragraphs)	1(2)	4(21)	NIL	NIL	4(22)	9(45)
AGRICULTURE AND FARMERS' WELFARE DEPARTMENT						
Number of IRs	90	48	NIL	03	03	144
Number of paragraphs	194	102	NIL	28	22	346
Number of IRs for which initial reply has not been received (number of paragraphs)	1(4)	5(15)	NIL	3(22)	4(20)	13(61)
FORESTS AND WILDLIFE DEPARTMENT						
Number of IRs	81	23	19	3	0	126
Number of paragraphs	261	74	137	18	0	490
Number of IRs for which initial reply has not been received (number of paragraphs)	3(9)	2(7)	9(59)	1(8)	NIL	15(83)
					Total IR	472
					Total Paras	1,932

Appendix – 2.1

Control Tests and their minimum frequency

(Reference: Paragraph 2.1 - Page: 09)

A. For Sub-Bases and Bases (Excluding Bitumen Bound Bases)

SI No	Type of Construction	Test	Frequency (min.)
1	Granular	i) Gradation ii) Atterberg limits iii) Moisture content prior to compaction iv) Density of compacted layer v) Deleterious constituents vi) CBR	One test per 400 cubic meters One test per 400 cubic meters One test per 400 cubic meters One test per 1,000 square meters As required As required
2	Lime/Cement Stabilised Soil Sub-base	i) Quality of lime/cement ii) Lime/ Cement content iii) Degree of pulverisation iv) CBR or Unconfined Compressive Strength test on a set of 3 specimens v) Moisture content prior to compaction vi) Density of compacted layer vii) Deleterious constituents	One test for each consignment subject to a minimum of one test per 5 tonnes Regularly, through procedural checks Periodically as considered necessary As required One set of two tests per 500 square meters One set of two tests per 500 square meters As required
3	Water Bound Macadam	i) Aggregate Impact Value ii) Grading of aggregate iii) Combined Flakiness and Elongation indices iv) Atterberg limits of binding material v) Atterberg limits of screenings	One test per 1,000 cubic meters of aggregate One test per 250 cubic meters One test per 500 cubic meters of aggregate One test per 50 cubic meters of binding material One test per 100 cubic meters of aggregate
4	Wet Mix Macadam	i) Aggregate Impact Value ii) Grading of aggregate iii) Combined Flakiness and Elongation Indices iv) Atterberg limits of portion of aggregate passing 425 micron sieve v) Density of compacted layer	One test per 1,000 cubic meters of aggregate One test per 200 cubic meters of aggregate One test per 500 cubic meters of aggregate One test per 200 cubic meters of aggregate One set of three tests per 1,000 square meters

(Source: Table 900-3: MoRTH specification for Roads and Bridges)

Appendix 2.1 (Cont'd.....)

B. For Bituminous works and their minimum frequency

SI No	Type of Construction	Test	Frequency (min.)
1	Prime Coat/Tack Coat/Fog Spray	i) Quality of binder ii) Binder temperature for application iii) Rate of spread of Binder	Number of samples per lot and tests as per IS:73, IS:217 and IS:8887 as applicable At regular close intervals Three tests per day
2	Seal Coat/Surface Dressing	i) Quality of Binder ii) Aggregate Impact Value or Los Angeles Abrasion Value iii) Combined Flakiness and Elongation Indices iv) Stripping value of aggregates (Immersion Tray Test) v) Water absorption of aggregate vi) Water sensitivity of mix vii) Grading of aggregate viii) Soundness (Magnesium Sulphate/Sodium Sulphate) ix) Polished stone value (not applicable for SAM/SAMI) x) Temperature of binder in boiler, aggregate in dryer and mix at the time of laying and compaction xi) Rate of spread of materials xii) Percentage of fractured faces (When gravel is used)	Same as mentioned under Serial No.1 One test per 200 cubic meters of each source and whenever there is change in the quality of aggregate One test per 100 cubic meters of aggregate for each source and whenever there is change in the quality of aggregate One test of each source and whenever there is change in the quality of aggregate --do-- --do-- Two tests per day One test for each source and whenever there is change in the quality of aggregate --do-- At regular intervals Same as mentioned under Serial No.1 One test per 100 cubic meters of aggregate
3	Open –graded Premix Surfacing/Close-graded Premix Surfacing	i) Quality of binder ii) Aggregate Impact Value or Los Angeles Abrasion Value iii) Combined Flakiness and Elongation Indices iv) Stripping value v) Water absorption of aggregates vi) Water Sensitivity of mix vii) Grading of aggregates viii) Soundness (Magnesium Sulphate and Sodium Sulphate) ix) Polished stone value x) Temperature of binder at application xi) Binder content xii) Percentage of fractured faces	Same as mentioned under Serial No.1 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 At regular interval Two tests per day per plant Same as mentioned under Serial No.2

Appendix 2.1 (Cont'd.....)

Sl No	Type of Construction	Test	Frequency (min.)
4	Bituminous Macadam	i) Quality of binder ii) Aggregate Impact Value or Los Angeles Abrasion Value iii) Combined Flakiness and Elongation Indices iv) Stripping value v) Water absorption of aggregates vi) Water Sensitivity of mix vii) Grading of aggregates viii) Soundness (Magnesium Sulphate/Sodium Sulphate) ix) Percentage of fractured faces x) Binder content xi) Control of temperature of binder and aggregate for mix and of the mix at the time of laying and rolling xii) Density of Comp layer xiii) Rate of spread of Mixed Material	Same as mentioned under Serial No.1 Same as mentioned under Serial No.2 One test per 350 cum for each source Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.3 Same as mentioned under Serial No.2 One test per 700 square meters area At regular intervals
5	Dense Bituminous Macadam/Bituminous Concrete	i) Quality of binder ii) Aggregate Impact Value/ Los Angeles Abrasion Value iii) Flakiness and Elongation Indices iv) Soundness test (Sodium or Magnesium Sulphate test) v) Water absorption of aggregates vi) Sand equivalent test vii) Plasticity Index viii) Polished stone value ix) Percentage of fractured face x) Mix grading	Number of samples per lot and tests as per IS:73 or IRC:SP:53, IS:15462 One test per 350 cubic meters of aggregate for each source and whenever there is change in the quality of aggregate One test per 350 cubic meters of aggregate for each source and whenever there is change in the quality of aggregate One test for each source and whenever there is change in the quality of aggregate One test for each source and whenever there is change in the quality of aggregate One test for each source and whenever there is change in the quality of aggregate One test for each source and whenever there is change in the quality of aggregate One test per 350 cubic meters of aggregate when crushed gravel is used One set for individual constituent and mixed aggregate from dryer for each 400 tonnes of mix subject to minimum of two tests per day plant

Appendix 2.1 (Cont'd.....)

SI No	Type of Construction	Test	Frequency (min.)
		xi) Stability and voids analysis of mix including theoretical maximum specific of loose mix. xii) Moisture Susceptibility of mix (AASHTO T283) xiii) Temperature of binder in boiler, aggregate in dryer and mix at the time of laying and compaction xiv) Binder content xv) Rate of spread of mix material xvi) Density of Compacted layer	Three tests for stability, flow value, density and void contents for each 400 tonnes of mix subject to minimum of two tests day per plant One test for each mix type whenever there is change in the quality or source of coarse or fine aggregate At regular intervals One set for each 400 tonnes of mix subject to minimum of two tests per day plant After every 5 th truck load One test per 700 square meters area
6	Sand Asphalt Base course	i) Quality of binder ii) Aggregate Impact Value or Los Angeles Abrasion Value iii) Sand equivalent test iv) Plasticity Index v) Mix grading & binder content vi) Stability of Mix vii) Control of temperature of binder in boiler, aggregate in the dryer and mix at the time of laying and rolling viii) Thickness of layer ix) Density of Compacted layer	Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.2 Same as mentioned under Serial No.5 Same as mentioned under Serial No.2 and 3 Same as mentioned under Serial No.5 Same as mentioned under Serial No.2 Same as mentioned under Serial No.5 Same as mentioned under Serial No.5
7	Slurry seal and Micro surfacing	i) Quality of Aggregate Sand Equivalent Value Water Absorption Soundness Test (Sodium/Magnesium Sulphate Test) ii) Quality of Emulsion iii) Aggregate Moisture iv) Aggregate Gradation v) Binder Content vi) Calibration of Machine vii) Quantity of Slurry (By weight of aggregate)	One per source/ site One per lot of 20 t as per IS:8887 Two per day Two per day at site Two per lane per km Once per Project Daily (Travel time of Machine)

Appendix 2.1 (Cont'd.....)

SI No	Type of Construction	Test	Frequency (min.)
8	Stone Matrix Asphalt	i) Quality of binder ii) Aggregate Impact Value/ Los Angeles Abrasion Value iii) Flakiness and Elongation Indices iv) Soundness Test (Sodium and Magnesium Sulphate Test) v) Water absorption of aggregate vi) Sand equivalent test vii) Plasticity Index viii) Polished stone value ix) Percent of fractured faces x) Mix grading xi) Air voids and VMA analysis of mix including theoretical maximum specific gravity of loose mix xii) Moisture Susceptibility of mix (AASHTO T 283) xiii) Temperature of binder in boiler, aggregate in dryer and mix at the time of laying and compaction xiv) Binder content xv) Rate of spread of mix material xvi) Density of compacted layer	Number of samples per lot and tests as per IS:73 or IRC:SP:53, IS:15462 One test per 100 cubic meters of aggregate One test per 100 cubic meters of aggregate One test for each method for each source and whenever there is change in the quality of aggregate One test for each source and whenever there is change in the quality of aggregate One test for each source One test for each source One test for each source One test per 50 cubic meters of aggregate when crushed gravel is used One set for individual constituent and mixed aggregate from dryer for each 400 tonnes of mix subject to minimum of two tests per day per plant Three tests per day One test for each mix type whenever there is change in the quality or source of coarse or fine aggregate At regular intervals One set for each 400 tonnes of mix subject to minimum of two tests per day per plant After every 5 th truck load One test per 250 square meters area
9	Mastic asphalt	i) Quality of binder ii) Aggregate Impact Value and Los Angeles Abrasion Value iii) Combined Flakiness and Elongation Indices iv) Stripping value v) Water Sensitivity of mix vi) Grading of aggregates	Same as mentioned under Serial No.5 Same as mentioned under Serial No.5 Same as mentioned under Serial No.5 Same as mentioned under Serial No.2 Same as mentioned under Serial No.5 Two tests per day per plant on the individual constituent and mixed aggregates from the dryer

Appendix 2.1 (Cont'd.....)

Sl No	Type of Construction	Test	Frequency (min.)
		vii) Water absorption of aggregates viii) Soundness (Magnesium Sulphate/Sodium Sulphate) ix) Percentage of fractured faces x) Binder content and aggregate grading xi) Control of temperature of binder and aggregate for mixing and of the mix at the time of laying and rolling xii) Rate of Spread of Mixed Material xiii) Hardness number	Same as mentioned under Serial No.5 Same as mentioned under Serial No.5 Same as mentioned under Serial No.5 Same as mentioned under Serial No.3 At regular close intervals Regular control through check of layer thickness Minimum two tests per day
10	Recycled Material Grading of aggregate		Two tests per day
11	Cold Mixes		All tests as per S.No.5
12	Quality of Modified Binder		Number of samples per lot and tests as per IS:15462
13	Geotextiles		The requirements of Section 700 shall apply

(Source: Table 900-4 of MoRTH specification for Roads and Bridges)

Appendix – 3.1

**Promotion of Rice cum Shrimp farming in Kaipad Lands, 2013-14:
Consolidated details of beneficiary survey**
(Reference Para 3.1.2.3 (Table 3.2) page 37)

Sl No	Name of beneficiary group	Amount of subsidy given (₹)	No. of years for which farming done	Reasons for discontinuation of farming	Constraints	Harvest details	
						Rice (Kg)	Fish (₹)
1	Aiswarya Swayam Sahaya Sangam	8,18,997	Five years	Nil	Crops of two years were destroyed. Subsidy was not fully released. The facility for procuring and selling of rice was less.	82,000	3,78,000
2	Samridhi Swayam Sahaya Sangam	8,18,997					
3	Nankalam Vayal Karshaka Sangam	6,76,644	Five years	Still continuing	Subsidy was not received fully; only initial support was received from the Agency	10,000	4,00,000 per year
4	Sukrutham Karshaka Sangam	6,76,644					
5	Annadayini Activity Group	5,91,548	Fish-2 yrs. Rice- Continuing partially	Non-availability of workers for rice farming; machines could not be used in the fields; less support from the Agency	Based on a Court order, the right to harvest fish was vested with the Panchayat for four months and with Karshaka Samithi for eight months. So, the beneficiary groups could not harvest.	Nil	Nil
6	Aarathi Activity Group	5,91,548					
7	Aavani Activity Group	5,91,548					
8	Kanakasree Activity Group	5,91,549					
9	Pulari Activity Group	5,91,548					
10	Punarjani Activity Group	5,91,548					

Appendix 3.1 (Cont'd.....)

Sl No	Name of beneficiary group	Amount of subsidy given (₹)	No. of years for which farming done	Reasons for discontinuation of farming	Constraints	Harvest details	
						Rice (Kg)	Fish (₹)
11	Dalil Kaipad Nel-Malsya Ulpadaka Samithi	6,03,050				1,000	Nil
12	Nidoonni Kaipad-1 Nel-Malsya Ulpadaka Samithi	6,03,050	One year	1. Boundary dispute; 2. Rice yield was not as expected; 3. Sluice was damaged	Due to boundary dispute, farmers could not enter the area; Support from the Agency was received only during the first year		
13	Nidoonni Kaipad-2 Nel-Malsya Ulpadaka Samithi	6,03,050					
14	Kairali Swasraya Sangam	5,06,365				4,000	200 kg shrimp 100 kg others
15	Haritha Swasraya Sangam	5,06,365	Two years	Most of the shrimp seeds did not survive; Agency did not support after the first year.	Farming was difficult without cutting the mangroves which covered the area		
16	Padappa Nel-Malsya Ulpadana Samithi	6,56,396					
17	Chelerikai Nel-Malsya Ulpadana Samithi	6,76,396	Two years	Paddy Crop was destroyed due to non-opening of Kattampally Regulator; the Agency was not supportive after the first year.	No	2,000	Nil
		1,06,95,242					

Source : Departmental Records

Appendix – 3.2

**Promotion of Rice cum Shrimp Farming in Kaipad Lands, 2014-15:
Details of beneficiaries and status of farming**

(Reference Para 3.1.2.3 page 38)

Sl No	Name of Beneficiary Group	Status of farming as per ADAK records
1	Adithya Swayam Sahaya Sangham, Pinarayi, Eranholi	No farming activity done
2	Udayam Swayam Sahaya Sangham, Pinarayi	No farming activity done due to disputes between groups
3	Nanma Swasraya Sangham, Mullool	Farming activity is done
4	Kandanada Kaipad Swayam Padannakkara, Pinarai	Only Fish farming is conducted
5	Sreyas Activity Group, Ezhome	Farming activity is done
6	Panneri Panthottam Krishi Vikasana Sangham, Panneri, Thaliparamba	Farming activity is done
7	Navarathna Group, Kayyam, Panchalayi	Only Fish farming is conducted
8	Pulloppy - I Jalakarshaka samithi, Puzhathi	No farming activity done
9	Pulloppy - II Jalakarshaka samithi, Puzhathi	No farming activity done
10	Samrudhi Activity Group, Puzhathi	No farming activity done
11	Niravu Activity Group, Puzhathi	No farming activity done
12	Kanivu Activity Group, Puzhathi	No farming activity done
13	Kaipad Swayam Sahaya Sangham, Puzhathi	No farming activity done
14	Edacheri Nelkarshaka Samithi, Puzhathi	No farming activity done
15	Chittarikka Haritha Swayam Sahaya Sangham, Andallur	No farming activity done

*Source: Departmental Records

Appendix – 3.3

Difference in the rate of dividend paid to Government and other members

(Reference: Paragraph 3.4(b) page 48)

Sl No	Name of Society	Share capital contribution of Government in Societies (₹)	Percentage of Dividend declared to		Amount of dividend paid to Govt. with reference to Col (5) (₹)	Balance payable to Govt. with reference to Col (4) (₹)
			Other Members	Govt.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)

Pathanamthitta District

1	Vallicode SCB 2016-17	Not Shown	14	3	19,110	70,070
				Total	19,110	70,070

Ernakulam District: Kunnathunadu Taluk

2	Krariyeli SCB Ltd No.E199					
	2008-09	1,00,000	20	3	3,000	17,000
	2009-10	1,00,000	20	3	3,000	17,000
	2010-11	1,00,000	20	3	3,000	17,000
	2011-12	1,00,000	20	3	3,000	17,000
3	Koovappady SCB Ltd 319					
	2011-12	1,00,000	25	3	3,000	22,000
	2012-13	1,00,000	25	3	3,000	22,000
4	Keezhillam SCB Ltd 3989					
	2008-09	2,00,040	10	3	3,001	17,003
	2010-11	2,00,040	15	3	3,001	27,005
	2012-13	2,00,040	15	3	3,001	27,005
5	Mudakkuzha SCB Ltd 693					
	2011-12	1,00,000	20	3	3,000	17,000
	2012-13	1,00,000	20	3	3,000	17,000
6	Mamala SCB Ltd 2799					
	2011-12	1,00,000	25	3	3,000	22,000
	2012-13	1,00,000	25	3	3,000	22,000
	2012-13	1,00,000	25	3	3,000	22,000

Appendix 3.3 (Cont'd.....)

(1)	(2)	(3)	(4)	(5)	(6)	
7	Vadavukodu FSCB Ltd No 651					
	2011-12	50,000	10	3	1,500	3,500
	2013-14	50,000	10	3	1,500	3,500
	2014-15	50,000	10	3	1,500	3,500
	2015-16	50,000	10	3	1,500	3,500
	2016-17	50,000	10	3	1,500	3,500
				Total	49,503	3,00,513

Ernakulam District: Kothamangalam Taluk

(1)	(2)	(3)	(4)	(5)	(6)	(7)
8	354 Kothamangalam SCB Ltd					
	2001-02	2,40,000	10	3	7,200	16,800
	2002-03	2,40,000	10	3	7,200	16,800
	2003-04	2,40,000	10	3	7,200	16,800
	2004-05	2,40,000	10	3	7,200	16,800
	2005-06	3,40,000	15	3	10,200	40,800
	2006-07	3,40,000	15	3	10,200	40,800
	2007-08	3,40,000	20	3	9,700	58,300
	2008-09	3,20,000	20	3	10,200	53,800
	2009-10	3,30,000	20	3	10,682	55,318
	2010-11	3,30,000	20	3	9,900	56,100
	2011-12	3,30,000	25	3	9,900	72,600
	2012-13	3,05,000	25	3	9,253	66,997
	2013-14	2,80,000	25	3	8,628	61,372
	2014-15	2,55,000	25	3	7,900	55,850
	2015-16	2,30,000	25	3	7,150	50,350
9	1577 Mathirappilly SCB					
	1996-97	99,500	12	3	2,985	8,955
	1997-98	99,500	14	3	2,985	10,945
	1998-99	99,500	14.5	3	2,985	11,443
	1999-00	99,500	20	3	2,985	16,915
	2000-01	99,500	20	3	2,985	16,915
	2001-02	99,500	17	3	2,985	13,930
	2002-03	99,500	16	3	2,985	12,935
	2004-05	99,500	20	3	2,985	16,915
	2005-06	99,500	20	3	2,985	16,915
	2007-08	99,500	20	3	2,985	16,915
	2008-09	99,500	25	3	2,985	21,890

Appendix 3.3 (Cont'd.....)

(1)	(2)	(3)	(4)	(5)	(6)	(7)
10	E-167 Kozhippilly SCB Ltd.					
	1975-76	40,000	10	3	1,200	2,800
	1976-77	40,000	10	3	1,200	2,800
	1977-78	50,000	8	3	1,500	2,500
	1979-80	50,000	5	3	1,500	1,000
	1981-82	55,000	5	3	1,650	1,100
	1982-83	55,000	10	3	1,650	3,850
	1983-84	55,000	5	3	1,650	1,100
	1986-87	60,000	10	3	1,800	4,200
	1987-88	60,000	10	3	1,800	4,200
	1988-89	83,000	10	3	2,490	5,810
	1989-90	83,000	10	3	2,490	5,810
	1990-91	83,000	10	3	2,490	5,810
	1991-92	83,000	10	3	2,490	5,810
	1992-93	83,000	10	3	2,490	5,810
	1993-94	73,000	10	3	2,190	5,110
	1994-95	73,000	20	3	2,190	12,410
	1996-97	73,000	10	3	2,190	5,110
	1997-98	73,000	5	3	2,190	1,460
	1998-99	73,000	20	3	2,190	12,410
	1999-00	73,000	20	3	2,190	12,410
	2008-09	1,00,000	20	3	3,000	17,000
	2009-10	1,00,000	15	3	3,000	12,000
	2010-11	1,00,000	20	3	3,000	17,000
	2011-12	2,00,000	25	3	6,000	44,000
	2012-13	2,00,000	25	3	6,000	44,000
	2013-14	2,00,000	25	3	6,000	44,000
				Total	2,31,888	11,23,670

Thrissur District

(1)	(2)	(3)	(4)	(5)	(6)	(7)
11	Killimangalam FSCB – 2016-17	2,00,000	15	3	6,000	24,000
12	Pazhuvil S C B Ltd No 126 – 2016-17	4,40,000	8	3	13,200	22,000
13	Venginissery SCB Ltd No. 528 – 2016-17	1,00,93,500	15	3	3,02,805	12,11,220
14	Annamanada SCB – 2016-17	8,80,000	25	3	26,688	1,93,312

Appendix 3.3 (Cont'd.....)

(1)	(2)	(3)	(4)	(5)	(6)	(7)
15	Karalam SCB – 2016-17	72,90,000	10	3	2,26,125	5,02,875
16	Karuvannure SCB – 2016-17	25,90,000	25	3	77,700	5,69,800
17	Nellayi Parappookkara SCB – 2016-17	2,50,000	15	3	7,500	30,000
18	Vallivattam SCB – 2016-17	1,90,000	12.5	3	5,700	18,050
19	West Chalakkudy SCB – 2016-17	90,000	25	3	3,000	19,500
20	Kattoor SCB – 2016-17	72,25,000	20	3	3,02,831	11,42,169
21	Orumanayur SCB Ltd. R 209 – 2016-17	8,04,600	18	5	49,747	95,081
22	Punnayoorkulam SCB Ltd. P 417 – 2016-17	1,84,500	12	3	5,535	16,605
23	Guruvayur Vyapari Vyavasayi CS – 2016-17	2,00,000	25	3	6,000	44,000
			Total		10,32,831	38,88,612
			Grant Total		13,33,332	53,82,865

*Source: Records furnished by the Department

Appendix 3.4

Details of expenditure incurred on purchase of floating Trivenis

(Reference – Paragraph 3.5 – Page 49)

Boat No.	Purchase Cost (₹ in lakhs)	Date of commissioning & current location	Date from which super market not functioning	Reported condition of the vessels	Value assessed in May 2017 (₹)	Expenditure incurred on repair, maintenance, etc. (₹)
1	21.50	07/06/2009 (Kuttanad Triveni) at Kainakary	07/07/2016	Sank in water (2/2018)	6,50,000	
2	25.50	01/03/2011 (Thakazhi Triveni) at Thrikkunnappuzha	22/06/2016	Sank in water (2/2018)	10,00,000	
3	25.50	20/06/2011 (Kundara Triveni) at Sanghakadavu	07/07/2016	Sank in water (3/2018)	10,00,000	
4	25.50	23/07/2011 at Panangad	08/04/2014	Boat in very bad condition	5,00,000	
5	24.75+12.5% tax = 27.84	19/02/2012 (Harippad Triveni) at Thottupally)	31/03/2016	Sank in water (2/2018)	12,50,000	
6	24.75+12.5% tax = 27.84	29/04/2012 (Puthupally Triveni) at Kanjiram	30/09/2016	Require repairs	12,50,000	
7	24.75+13.5% tax = 28.09	06/06/2012 (Chavara Triveni) at Kulangara	07/07/2016	Sank in water (3/2018)	9,50,000	
	181.77 lakh (a)					
8	20 lakh paid as advance	Boats not taken over	-	-		20,00,000 (b)
9			-	-		
10	Order cancelled			-		
Expenditure towards maintenance						4,10,375 (c)
Expenditure towards lifting of capsized vessel at Takazhi, Alappuzha						1,60,000 (d)
Fee paid to approved valuer						76,000 (e)
Grand Total						208.24 lakh (f)
(f) = (a) + (b) + (c) + (d) + (e)						

*Source: Records furnished by the Department

Appendix – 3.5

Calculation of overpayment made to contractor on account of fictitious/incorrect level measurements

(Reference – Paragraph 3.7 – Page 53)

A	Tack coat area of road surface from chainage 0/000 km to 22/030 km (excluding bridge portion) over which BC was laid and measured		2,08,664.53 sqm
B	Thickness of BC as per level measurements recorded in LF books		50 mm
C	Volume of BC executed as per LF Books	A x B	10,433.227 cum
D	Volume of BC as worked out by the department in calculation sheets for payment		10,673.560 cum
E	Fictitious volume of BC calculated and considered for payment	D – C	240.333 cum
F	Contract Rate for providing BC		₹10,300/cum
G	Amount paid to contractor on account of fictitious quantity of work done	E x F	₹24,75,430 Say ₹24.75 lakh
H	Average thickness of BC noticed during JPV		44 mm
I	Hence, excess thickness of BC	B – H	6 mm
J	Excess volume of BC for which payment was made to the contractor	A x I	1,251.99 cum
K	Amount paid to contractor in excess of the work actually executed	J x F	₹1,28,95,497 Say ₹1.29 crore
L	Total over payment	G + K	₹1.54 crore

*Source: Records furnished by the Department

Appendix – 3.6

List of works in which securities were inadequate

(Reference: Paragraph 3.8- page 54)

Sl No	Name of work in which SD/PG was to be submitted	Name of Division to which the work relates	Amount of security required (in ₹)	Security collected (in ₹)	Shortage in collection (in ₹)	Remarks
1	R/P 2015-16 Urgent BT patch repairs and Bit CC in Kattappana - Erattayar Road km 1/000 to 2/000 (Agt. No.116/EE/2015-16 dated 19/12/2015)	Roads Division, Idukki	1,23,100	25,000	98,100	Contract Value (CV): ₹9,21,680 13.35 per cent Date of Completion (DoC) 01/02/2016
2	O/R 2015-16 Providing 20mm CC to Alakode - Karimannoor Road (Via. Kathipara - Pallithazham) km 0/000 to 2/000 (Agt. No. 166/EE/2015-16 dated 29/02/2016)	Roads Division, Idukki	1,23,700	44,400	79,300	₹17,74,069 6.97 per cent DoC 26/03/2016
3	R/P 2015-16 Providing 20mm bit CC in Puthupariyaram - Poothakavu Road km 3/000 to 5/160 (Agt. No. 136/EE/2015-16 dated 08/01/2016)	Roads Division, Idukki	3,66,600	1,12,300	2,54,300	₹22,45,707 16.32 per cent DoC 01/03/2016
4	R/P 2015-16 urgent patch repairs and bit CC to Meenmutty – Kuvilettam Road from km 0/000 to 3/000 (Agt. No.142/EE/15-16 dated 02/02/ 2016)	Roads Division, Idukki	2,58,342	49,000	2,09,342	₹18,32,819 14.10 per cent DoC 04/03/2016
5	RIDF XV - Improvement to Kanjar - Koovappally - Chakkikavu - Elaveezhapoonchira - Melukavu – Kanjiramkavala Road (Agt. No. 144/SECCA/10-11 dated 10/03/2011)	Roads Division, Idukki	82,97,448	65,00,000	17,97,448	₹8,29,74,479 10.00 per cent Not completed
	TOTAL		91,69,190	67,30,700	24,38,490	

*Source: Records furnished by the Department

Appendix – 3.7

List of works in which security was not adjusted against pending bill of other works

(Reference: Paragraph 3.8.- page 54)

Sl No	Name of work for which Security (SD/PG) was to be submitted	Name of Division to which the work relates	Name of the work pending bill of which was to be adjusted as SD/PG	Amount required to be adjusted as SD/PG but not adjusted (₹)	Remarks
1	Improvements to Vandiperiyar – Spencer Junction to Sathram Road km 0/000 to 13/800 (Agt. No. 30/SECCA/ 2014-15 dated 10/10/2014)	Roads Division, Idukki	‘Improvements to Painav - Thannikandam – Peppara - Maniyarankudy - Asokakavala Road km 0/000 to 14/500’.	₹13,45,15,592	10 per cent Date of Completion (DoC) 14/09/2015
2	B/W 2013-14 Improvements to Ayyappapara - Venmony Road km 0/000 to 1/800 (Agt. No. 74/SECCA/2014-15 dated 10/03/2015)	Roads Division, Idukki	‘BW 2012-13 improvements to Kurumbalamattom – Manikunnelpeedika – Vandamattom - Pallikavala Road km 0/000 to 1/200’.	11,52,900	₹1,52,38,602 7.57 per cent DoC 28/05/2016
3	Improvements to Ernakulam Thekkady SH portion from Parakadavu - Ankanvetty Road km 21/600 to 27/400 (Agt. No. 118/SECCA/2016-17 dated 04/11/2016)	Roads Division, Idukki	‘BW 2013-14 improvements to Thallakanam – Keerithodu Road km 0/000 to 3/000’ and ‘B/W Narakathanam – Thankamany Road km 4/250 to 6/250’.	3,24,92,100	₹13,75,04,998 23.62 per cent DoC 30/05/2019
4	R/P 2015-16 Providing 20mm CC in Elamdesam - Vettimattom Road (Via. Kathipara - Pallithazham) km 0/000 to 2/500 (Agt. No.151/EE/2015-16 dated 23/02/2016)	Roads Division, Idukki	O/R 2014-15 urgent patch repair to Kappaluvenga – Nellathanni Road km 2/000 to 4/000	1,64,700	₹21,94,578 7.50 per cent DoC 26/03/2016

Appendix 3.7 (Cont'd.....)

SI No	Name of work for which Security (SD/PG) was to be submitted	Name of Division to which the work relates	Name of the work pending bill of which was to be adjusted as SD/PG	Amount required to be adjusted as SD/PG but not adjusted (₹)	Remarks
5	R/P 2015-16 Providing 20mm CC in Thodupuzha - Vadakkemuri Road km 0/100 to 1/300 (Agt. No. 132/EE/2015-16 dated 07/01/2016)	Roads Division, Idukki	R/P 2014-15 Providing 20mm CC in Thodupuzha - Vadakkemuri Road km 0/000 to 1/300	3,24,400	₹21,97,166 14.76 per cent DoC 29/02/2016
6	Restoration for the execution of RAPDRP project of KSEB in an around of Vattiyoorkaavu area by providing BM&BC (Agt. No.EE/82/2016-17) DoC – 30/08/2016, DLP – 28/09/2018)	Roads Division, Thiruvananthapuram	MLA – ADF- 2014 providing side drain and resurfacing of Tutors lane.	2,10,500	Contract Value (CV) ₹42,08,831 4.86 per cent DoC 30/08/2016
7	Improvements to Nedumangad - Karipoor road by providing 50 mm BM&BC (Agt. No. 69/SESC/16-17) DoC – 26/12/2017, DLP – 23/01/2021	Roads Division, Thiruvananthapuram	Easing curve for Kattakada - Kottoor road between km 1/500 to 1/700	14,66,500	CV 2,93,28,294 4.89 per cent DoC 26/12/2017
8	RP 2015-16 resurfacing using BM&BC between km 5/300 to 5/700 of Mukkam - Kumaranellur - Koodaranjhi road (Agt. No. EE/144/2015-16 dated 14/03/2016) DoC -25/04/2016, DLP – 25/05/2018	Roads Division, Kozhikode	Improvements to Mukkom – Cheruvadi - Kavilada road Chainage km 0/000 to 5/100	1,32,350	CV ₹26,46,824 5.29 per cent DoC 25/04/2016
9	RP 2015-16 junction improvement works and providing BM&BC surfacing on Malappuram - Theyyappara road from km 4/400 to 6/700. (Agt. No. EE/28/2016-17 dated 20/04/2016) DoC – 22/03/2017, DLP - 19/04/2019	Roads Division, Kozhikode	SLTF- 2015 RP renewal BT on PUKC road between km 5/500 to 7/000	1,22,400	CV ₹24,47,010 4.90 per cent DoC 22/03/2017

Appendix 3.7 (Cont'd.....)

SI No	Name of work for which Security (SD/PG) was to be submitted	Name of Division to which the work relates	Name of the work pending bill of which was to be adjusted as SD/PG	Amount required to be adjusted as SD/PG but not adjusted (₹)	Remarks
10	Renewal of surface with BM&BC between km 0/400 to 0/800 of Thiruvambady – Koodaranjhi - Koombara- Thollumukkum road (Agt. No. 147/2015-16 dated 14/03/2016) DoC – 25/04/2016, DLP – 21/05/2018	Roads Division, Kozhikode	Improvements to Mukkom - Cheruvady - Kavilada road Chainage 0/000 to 5/100	1,32,150	CV ₹26,48,107 5.29 per cent DoC 25/04/2016
11	Urgent patch work in Sreekrishnapuram – Muriyankanni - Chethallur road. km 0/000 to 7/000 and km 7/800 to 12/600 (Agt. No. EE/PL/20/2015-16 dated 12/06/2015)	Roads Division, Palakkad	RP to Pathripala – Kongad road km 0/000 to 0/500 and 5/400 to 6/300	49,350	CV ₹19,81,627 2.49 per cent DoC 26/12/2015
12	13 th FCA-14-15 Pattambi- Amayoor road km 10/000 to 11/316. (Agt. No.EE/PL/101/2014-15 dated 15/11/2014)	Roads Division, Palakkad	RP to Pattithara – Puleri road km 0/000 to 1/900	87,200	CV ₹17,43,621 5 per cent DoC 30/06/2016
13	Heavy maintenance to SH 53 Palakkad – Perinthalmanna road by providing BM & BC from km 35/600 to 41/000 (Agt. No. SE (K) 134/2015-16 dated 22/09/2015)	Roads Division, Palakkad	Providing BM&BC to Koppam-Pengattiri road km 0/000 to 7/400	20,15,200	CV ₹4,30,03,514 4.69 per cent DoC 24/03/2016
			TOTAL	5,18,01,750	

*Source: Records furnished by the Department

Appendix – 3.8

List of works in which securities were released before due date

(Reference: Paragraph 3.8- page 54)

SI No	Name of work	Name of Division to which the work relates	Date of completion	DLP Up to	Amount of security (₹)	Date of release of security	Remarks
1	Improvements to Peringamala - Kakkamooola road km 0/000 to 2/400. (Agt. No.163/SESC/2015-16 dated 08/01/2016)	Roads Division, Thiruvananthapuram	04/10/2017	04/10/2019	4,84,750	Released before 15/03/2019. Actual date not on record.	Contract Value (CV) ₹1,93,88,130 2.50 per cent Date of Completion (DoC) 04/10/2017
2	R/P 2015-16 Providing 20mm CC in Elamdesam-Vettimattom Road (Via. Kathipara - Pallithazham) km 0/000 to 2/500. (Agt. No.151/EE/2015-16 dated 23/02/2016)	Roads Division, Idukki	26/03/2016	One year from date of completion	55,000	24/05/2016	CV ₹21,94,578 2.50 per cent DoC 26/03/2016
3	O/R 2015-16 Providing urgent bitumen patch works and bit CC works from km 1/000 to 4/000 in Iruttukanam - Anachal Road. (Agt. No.101/EE/2015-16 dated 30/10/2015)	Roads Division, Idukki	20/02/2016	Six months from date of completion	97,200	24/02/2016	CV ₹19,42,858 5 per cent DoC 20/02/2016
4	B/W 2014-15 Improvements to Kombodinjal North-Kombodinjal South Road km 0/000 to 0/850. (Agt. No.121/EE/2015-16 dated 26/12/2015)	Roads Division, Idukki	27/12/2016	One year from date of completion	1,76,900	11/08/2017	CV ₹35,37,751 5.00 per cent DoC 27/12/2016
5	O/R 2015-16 Providing 20mm CC to Alakode - Karimannoor Road (Via. Kathipara - Pallithazham) km 0/000 to 2/000. (Agt. No.166/EE/2015-16 dated 29/02/2016)	Roads Division, Idukki	26/03/2016	One year from date of completion	44,400	24/05/2016	CV ₹17,74,069 2.50 per cent DoC 26/03/2016

Appendix 3.8 (Cont'd.....)

SI No	Name of work	Name of Division to which the work relates	Date of completion	DLP Up to	Amount of security (₹)	Date of release of security	Remarks
6	F/D 2013-14 Providing 20mm CC to Vazhithala - Parakkadavu Road km 2/000 to 3/000. (Agt. No.605/EE/2013-14 dated 27/11/2013)	Roads Division, Idukki	28/03/2015	One year from date of completion	1,42,700	26/02/2016	CV ₹28,53,186 5 per cent DoC 28/03/2015
7	O/R 2015-16 Urgent BT patch repairs to Karikode - Velliyyamattom Road km 0/000 to 2/000. (Agt. No.130/EE/2015-16 dated 07/01/2016)	Roads Division, Idukki	23/02/2016	Six months from date of completion.	74,600	29/08/2016	CV ₹14,90,670 5 per cent DoC 23/02/2016
8	R/P 2015-16 Providing 20mm CC in Thodupuzha-Vadakkemuri Road km 0/100 to 1/300. (Agt. No.132/EE/2015-16 dated 07/01/2016)	Roads Division, Idukki	29/02/2016	One year from date of completion	56,000	16/03/2017	CV ₹21,97,166 2.55 per cent DoC 29/02/2016
9	R/P 2015-16 Providing 20mm bit CC in Puthupariyaram - Poothakavu Road km 3/000 to 5/160. (Agt. No.136/EE/2015-16 dated 08/01/2016)	Roads Division, Idukki	01/03/2016	One year from date of completion	1,12,300	24/05/2016	CV ₹22,45,707 5 per cent DoC 01/03/2016
10	R/P 2015-16 Providing 20mm CC to km 0/000 to 2/000 of Kallar - Mankulam Road. (Agt. No.145/EE/2015-16 dated 18/02/2016)	Roads Division, Idukki	23/03/2016	One year from date of completion	63,000	24/05/2016	CV ₹26,49,699 2.38 per cent DoC 23/03/2016
11	2015-16 Construction of retaining wall in Muniyara-Vallakadavu Road km 0/000 to 0/100. (Agt. No.172/EE/2015-16 dated 04/03/2016)	Roads Division, Idukki	28/05/2016	18 months from date of completion	49,900	16/11/2017	CV ₹9,96,131 5 per cent DoC 28/05/2016

Appendix 3.8 (Cont'd.....)

SI No	Name of work	Name of Division to which the work relates	Date of completion	DLP Up to	Amount of security (₹)	Date of release of security	Remarks
12	CRF 2016-17 - Improvements to the road connecting from Gandhi Square Mini Bypass - Kannankulangara - Puthiyakavu - Maradu - Gregorious School in Ernakulam District. (Agt. No.3/SENH/CC/Kochi/17-18 dated 04/07/2017)	NH Division, Muvattupuzha	Work due for completion on 16/05/2018 was extended to 30/11/2018		2,15,44,500	16/05/2018 (BG submitted for unbalanced bid with validity up to 02/10/2018 was released on the direction of CE (NH))	CV ₹9,21,18,261 2.34 per cent DoC not known
13	Widening the carriage way and improvements to Thiruvananthapuram Madapathinkadavu road km 7/800 to 25/100. (Agt. No.67/SESC/2015-16 dated 8/9/2015)	Roads Division, Thiruvananthapuram	26/05/2016	23/06/2019	1,04,11,800	SE stated that the SD was released prematurely	CV ₹20,82,34,322 5 per cent DoC 26/05/2016
14	Improvements to resurfacing to Panchikkadu -Aruvippuram road in Neyyattinkara Municipality. (Agt. No.130/SESC/2015-16 dated 25/11/2016)	Roads Division, Thiruvananthapuram	31/08/2018	28/09/2020	12,97,800	SE replied that the SD was released prematurely due to oversight	CV ₹2,59,54,904 5 per cent DoC 31/08/2018
TOTAL					3,46,10,850		

*Source: Records furnished by the Department

Appendix – 3.9

List of works in which validity of bank guarantee expired before completion of work

(Reference: Paragraph 3.8 - Page: 54)

Sl No	Name of work	Name of Division to which the work relates	Date of completion of work	Amount of BG (₹)	Date of expiry of BG	Remarks
1	Improvements to PMG Plamoodu road by providing BM and BC (Agt. No.229/SESC/ 2016-17 dated 15/02/2017)	Roads Division, Thiruvananthapuram	18/12/2017	5,95,300	14/08/2017	Contract Value (CV) ₹99,07,733 6 per cent Date of Completion (DoC) 18/12/2017
2	Improvement to Kattuputhussery - Nettayam road from km 0/00 to 1/350 in Pallickal Panchayath by providing BM and BC (Agt. No.17/SESC/ 2017-18 dated 12/05/2017)	Roads Division, Thiruvananthapuram	31/03/2018	1,12,100	09/01/2018	CV ₹1,20,38,902 0.93 per cent DoC 31/03/2018
3	Improvements to Peringammala Panchayath Office junction to Agri farm road from km 0/000 to 6/500. (Agt. No.105/SESC/2013-14 dated 3/10/2013)	Roads Division, Thiruvananthapuram	29/02/2016	13,09,600	24/11/2015	CV ₹2,52,02,845 5.20 per cent DoC 29/02/2016
4	BW 2016-17 Improvements to Nedumkandom - Cumbummettu Road (Agt. No. 66/SECCA/17-18 dated 29/06/2017)	Roads Division, Idukki	Extended up to 30/12/2018	62,74,400	27/06/2018	CV ₹3,71,70,683 16.88 per cent DoC 30/12/2018
5	Improvements to Karikode – Velliya Mattom Road (Agt. No. 116/SECCA/ 17-18 dated 03/10/2017)	Roads Division, Idukki	ToC of the work was extended up to 31/03/2019	27,54,400	27/10/2018	CV ₹3,41,24,028 8.07 per cent DoC 31/03/2019
6	Improvements to Rajakumari South-Rajakumari North- Periya canal road km 3/350 to 10/000 (Agt. No.16/SECCA/16-17 dated 24/05/2016)	Roads Division, Idukki	T.O.C extended upto 10/05/2018, Completed on 12/04/2019	57,14,626	19/02/2017	CV ₹2,85,73,130 20 per cent DoC 12/04/2019

Appendix 3.9 (Cont'd.....)

SI No	Name of work	Name of Division to which the work relates	Date of completion of work	Amount of BG (₹)	Date of expiry of BG	Remarks
7	BW 16-17 improvements to Mundiheruma – Udumbanchola road km 0/000 to 4/500. (Agt. No. 63/SECCA/2017-18 dated 28/06/2017)	Roads Division, Idukki	As on 31/01/2019, the work was in progress	25,18,300	27/06/2018	CV ₹2,22,86,249 11.30 per cent DoC As on 31/01/2019, the work was in progress
8	CRF 2016-17 improvements to Channaveli – Thiruvizha – Thiruthankavala - Kayipuram road in Alappuzha (Agt. No.1/SENH/SC/2017-18 dated 29/04/2017)	NH Division, Alappuzha	9/4/2018	59,77,000	21/3/2018	CV ₹9,62,84,000 6.21 per cent DoC 09/04/2018
9	CRF 2016-17 improvements to Kalarcolde-Vadayakkal- Galeileo Jn. Kappu Jn. Viyaripalli-Viyasa Jn. Ayyarkoyikal road in Alappuzha Dist. (Agt. No.3 SENH/SC/17-18 dated 05/07/2017)	NH Division, Alappuzha	20/02/2019	2,05,13,000	21/12/2018	CV ₹14,99,56,000 13.68 per cent DoC 20/02/2019
10	B/W 2013-14 Improvements to Chembakappara - SNDP Padi – Puthiyattupady Road km 0/000 to 2/000 (Agt. No. 26/SECCA/2015-16 dated 16/07/2015).	Roads Division, Idukki	22/05/2017	5,02,000	15/04/2016	CV ₹2,00,72,876 2.50 per cent DoC 22/05/2017
11	Improvements to Peringammala Panchayath Office junction to Agri farm road from km 0/000 to 6/500. (Agt. No.105/SESC/2013-14 dated 03/10/2013)	Roads Division, Thiruvananthapuram	29/02/2016	25,49,300	24/11/2015	CV ₹2,52,02,845 10.12 per cent DoC 29/02/2016
12	RIDF XV -Improvement to Kanjar-Koovappally-Chakkikavu-Elaveezhapoonchira-Melukavu-Kanjiramkavala Road (Agt. No.144/SECCA/10-11 dated 10/03/2011)	Roads Division Idukki	Work not completed	65,00,000	validity of the BG furnished was expired on 18/02/2019	CV ₹8,29,74,479 7.83 per cent DoC Work not completed as RIDF XV funding stopped by NABARD
			TOTAL	5,53,20,026		

*Source: Records furnished by the Department

Appendix – 3.10

List of works in which validity of Bank Guarantee (Security Deposit) expired before completion of DLP of the work

(Reference: Paragraph 3.8 - Page: 54)

Sl No	Name of work	Name of Division to which the work relates	Date of completion of work	Date up to which SD is required to be valid (DLP+28 days)	Date on which validity of BG expired	Amount (₹)	Remarks
1	Providing JBIC reformation work in km 2/900 to 3/790 in Nenmunda - Cheekilode road (Agt. No.EE/60/2014-15 dated 06/06/2014)	Roads Division, Kozhikkode	15/12/2014	12/01/2016	31/08/2015	65,500	Contract Value (CV) ₹13,09,850 4.96 per cent Date of Completion (DoC) 15/12/2014
2	Improvements to Kadambattuonam-Elankam kshetram-Punnavila road Chainage km 0/000 to 1/450 (Agt. No.100/SESC/ 2016-17 dated 25/06/2016)	Roads Division, Thiruvananthapuram	23/05/2017	20/06/2019	20/02/2019	2,65,550	CV ₹1,06,20,310 2.50 per cent DoC 23/05/2017
3	Improvements to Pulloor Mukku-Decent Mukku road from km 0/00 to 2/100 (Agt.No.94/SESC/ TVM/2016-17 dated 23/06/2016)	Roads Division, Thiruvananthapuram	23/06/2016	21/07/2019	20/01/2019	2,54,450	CV ₹1,01,76,637 2.50 per cent DoC 23/06/2016
4	Improvements by providing BM and BC to Poojappura Mudavanmugal Punnackamughal road km 0/000 to 1/175 (Agt. No. 80/SESC/2016-17 dated 07/06/2016)	Roads Division, Thiruvananthapuram	28/03/2017	25/04/2019	31/01/2019	3,76,600	CV ₹1,50,63,749 2.50 per cent DoC 28/03/2017
5	Providing BM and BC to Chappath Thudiyankonam road km 0/000 to 1/500 (Agt. No. 141/SESC/15-16 dated 10/12/2015)	Roads Division, Thiruvananthapuram	30/05/2017	27/06/2019	07/07/2018	7,05,100	CV ₹2,82,01,066 2.50 per cent DoC 30/05/2017
6	Improvement to Baramapuram Vizhinjam road between km 0/000 to 3/300 by providing 50 mm BM & 25mm BC (Agt. No.219/SESC/15-16 dated 24/02/2016)	Roads Division, Thiruvananthapuram	26/08/2017	23/09/2019	31/10/2018	7,89,950	CV ₹3,15,97,582 2.50 per cent DoC 26/08/2017

Appendix 3.10 (Cont'd.....)

SI No	Name of work	Name of Division to which the work relates	Date of completion of work	Date up to which SD is required to be valid (DLP+28 days)	Date on which validity of BG expired	Amount (₹)	Remarks
7	Improvements to Navaikulam Kattuputhusseri Nettayam road from km 3/000 to 15/800. (Agt. No.78/SESC/ 2016-17 dated 02/06/2016)	Roads Division, Thiruvananthapuram	25/01/2017	22/02/2020	30/05/2018	7,48,600	CV ₹2,99,43,704 2.50 per cent DoC 25/01/2017
8	Providing BM and BC Vattiyookavu-Vellaikadavu road. (Agt. No.144/SESC/ 2016-17 dated 20/07/2016)	Roads Division, Thiruvananthapuram	25/04/2018	23/05/2020	14/03/2019	5,31,850	CV ₹2,12,72,280 2.50 per cent DoC 25/04/2018
9	B/W 13-14 Improvements to Kattappana - Kumily Bye Pass Road from Karimpanady to Chappathu km 0/000 to 2/200 (Agt. No.140/SECCA/2013-14 dated 19/02/2013)	Roads division , Idukki	17/07/2014	14/08/2015	10/06/2015	2,00,000	CV ₹1,98,91,548 1.01 per cent DoC 17/07/2014
10	Improvements to Kilimanoor Adayamon stretch km 0/000 to 3/000 of Kilimanoor - Kadakkal road. (Agt No.76/SESC/16-17 dated 02/06/2016)	Roads Division, Thiruvananthapuram	31/05/2017	28/06/2019	31/01/2019	7,47,500	CV ₹2,98,98,809 2.50 per cent DoC 31/05/2017
11	Improvements to Poonoor Polickal – Kattippara road km 0/000 to 8/265 in Kozhikode Dist. (Agt No. SE (K) 71/2014-15 dated 18/10/2014)	Roads Division Kozhikode	28/12/2015	25/01/2018	17/05/2017	73,74,800	CV ₹7,38,54,667 9.98 per cent DoC 28/12/2015
12	NABARD RIDF-XIX- Improvements to Kappad - Thusharagiri Adivaram road (Agt No. SE (K) 423/2015-16 dated 22/03/2016)	Roads Division Kozhikode	29/04/2017	27/05/2019	31/10/2018	11,22,350	CV ₹4,48,92,264 2.50 per cent DoC 29/04/2017
					TOTAL	1,31,82,250	

*Source: Records furnished by the Department

Appendix – 3.11

Repair works arranged at Departmental cost soon after the DLP / Validity of SG

(Reference: Paragraph 3.8 - Page: 55)

Sl No	Original Work	Division	Contract Amount	SG /DLP Details	Rectification Work	Contract Amount
1	'Improvement by providing BM (50mm) and BC (25mm) to Vazhakode – Alathur Road from km 22/648 to 29/648' by M/s Kudroli Builders	Palakkad	₹289 lakh	BG No. 126/2013-14 dt 12 August, 2013, of South Indian Bank, Panaji, Goa for ₹28.95 lakh- Valid till 11 November, 2015	Agreement No.EE/PL/117 /2017-18 dt 27 November, 2017- by -G.Janardhanan, Palakkad	₹10.77 lakh
2	Budget Work 2009-10-, Improvements to Upputhara – Kottamala - Wagamon Road, - Agreement No. 10/SECCA/2010-11 dated 25/04/2010- Contractor Sri K.C. Antony	Idukki	₹313 lakh	BG 1/2010 dated 19 April, 2010(₹31,27,905) and BG 3/2010 dated 25 April, 2010 (₹32,72,260) of South Indian Bank, Bharananganam	The department lost the opportunity to recover the expenditure on the balance work to be executed, to the extent of the BG	
3	IRQP from Chainage 444/000 to 462/000 km on NH 47 (now NH 66) in the State of Kerala- Agreement No. 3/SENH/SC/2012-13/ dated 16/07/2012- by M/s Concord Construction, Kasaragod	NH	₹1,372 lakh	Defects developed during DLP. However no rectification carried out despite repeated requests/reminders. DLP expired on 30/05/2016	After the DLP the department arranged necessary rectification works at a cost of ₹106.27 lakh (Appendix 3.12)	₹106.27 lakh

*Source: Records furnished by the Department

Appendix – 3.12

Repair works arranged soon after the DLP

(Reference: Paragraph 3.8 - Page: 55)

Sl No	Name of work	Division	Date of proposal of estimate	Project Cost (in ₹)
1	NH 66 16-17 OR Urgent rectification for potholes between km 453/000 to 454/500 (Agt No. 12/EE/NH/ALP/16-17)	NH Division Alappuzha	06/06/2016	12,64,478 Date of Completion (DoC) 04/08/2016
2	NH 66 16-17 Urgent rectification for potholes between km 444/000 to 445/500 (Agt No. 13/NH/33/ALP/16-17)	NH Division Alappuzha	06/06/2016	12,35,730 DoC 04/08/2016
3	NH 66 16-17 O/R for 16-17 urgent rectification for potholes between km 454/500 to 457/000 (Agt No. 19/EE/NH/ALP/16-17)	NH Division Alappuzha	18/06/2016	13,69,032 DoC 06/07/2016
4	NH 66 Urgent rectification for potholes between km 445/000 to 447/000 (Agt No. 18/EE/NH/ALP/16-17)	NH Division Alappuzha	18/06/2016	13,76,039 DoC 06/07/2016
5	NH 66 O/R Urgent rectification for potholes between km 447/000 to 448/000 (Agt No. 25/EE/NH/ALP/16-17)	NH Division Alappuzha	25/07/2016	13,75,098 DoC 09/08/2016
6	NH 66 O/R 16-17 Urgent rectification for potholes between km 448/000 to 449/000 (Agt No. 24/EE/NH/ALP/16-17)	NH Division Alappuzha	25/07/2016	13,40,842 DoC 28/08/2016
7	NH 66 O/R Urgent rectification of potholes between km 458/000 to 459/000 (Agt No. 1/EE/NH/ALP/18-19)	NH Division Alappuzha	25/07/2016	13,55,457 DoC 15/08/2016
8	NH 66 Urgent rectification for potholes between km 449/000 to 450/000 (Agt No. 26/EE/NH/ALP/16-17)	NH Division Alappuzha	25/07/2016	13,11,779 DoC 29/07/2016
	Total			1,06,28,455

*Source: Records furnished by the Department

Appendix – 3.13

Inadmissible Payment to Contractors – Details of Works

(Reference: Paragraph 3.11 - Page: 59)

Sl No	Name of work	Name of PWD Roads Division	Name of Contractor	Cost difference of bitumen paid to the contractor (in ₹)
1	Budget work 2012-13 - Improvements and Providing BM&BC works to Kozhikode-Nilambur-Gudallur Road km 92/000 to 101/500 (Ghat Section) in Malappuram District	Manjeri	M/s.ABM4 Builders	23,26,800
2	Improvements to Koottampara-Ramankuth-Oruvankuzhi Thondy road km 0/000 to 4/000 in Malappuram District	-do-	TAN-B Constructions	37,50,847
3	Improvements to Pookattiri-Edayoor road between km 0/000 to 5/200 in Kottakkal Legislative Assembly Constituency in Malappuram District	-do-	P.Ahmed Kutty	21,73,332
4	Improvements to Koottuparamba-Edaikkal-Kaniparamba road km 0/000 to 2/600 in Malappuram District	-do-	P.T.Hamza	5,88,038
5	Improvements to Bidathi-Chirakkattukunnu village office road km 0/000 to 3/400 in Malappuram District	-do-	M/s Infrahite Infrastructure Pvt. Ltd.	13,35,718
6	Improvements and providing 50 mm BM and 25 mm BC to Vettichira-Kadampuzha-Koottilangadi road km 6/800 to 17/400 in Malappuram District	-do-	Malabar Tech	95,97,647
7	Improvements to Omanoor-Theendapara-Olavattor road from km 0/000 to 4/500 in Malappuram District	-do-	K.K.Abdul Kareem	9,29,721
8	Improvements to Valillapuzha-Elamaram-Erattamuzhi road km 0/000 to 6/850 in Malappuram District	-do-	Abdul Gafoor.K.	21,93,914
9	Improvements to Poovathingal-Kallaratti-East Vadakkummuri-Vazhikkadavu-Pathanapuram road between km 0/000 to 5/000 in Malappuram District	-do-	Daybro Constructions	38,961
10	Budget Work 2012-13 Improvements and providing BM & BC to Maravattom-Kottur-Kavathikalam road km 3/200 to 5/570 in Malappuram District	-do-	Ernad Engineering Enterprises	10,49,972
11	Budget Work 2012-13 Providing BM&BC to Chappanangadi-Indianoor-Kottakkal road km 3/630 to 6/660 in Malappuram District	-do-	Vasanth Constructions	26,95,444
12	Improvements to Cheroor-Kilinkode-Purakani road km 0/000 to 4/550 in Malappuram District	-do-	P.Mohammed	5,61,135
13	Improvements to Athanikkal-Velloor-Alakkad-Thadaparamba-Arimbra road in Malappuram District	-do-	Sakeer.K.S.	4,94,938

Appendix 3.13 (Cont'd.....)

Sl No	Name of work	Name of PWD Roads Division	Name of Contractor	Cost difference of bitumen paid to the contractor (in ₹)
14	Budget Work 2012-13 Providing BM&BC works to Manjeri-Olipuzha road between km 9/750 to 11/350 in Malappuram District	-do-	Malabar Tech	22,95,426
15	Providing BM&BC and other improvements to Anakayam-Oruvambram road km 5/750 to 12/200 in Malappuram District	-do-	M/s.Malabar Associates	53,01,447
16	Providing BM&BC to Manjeri-Kizhissery road km 3/800 to 10/200 in Malappuram District	-do-	Vasanth Constructions	49,45,885
17	Budget work 2012-13:Providing BM&BC works to Manjeri Bye pass road Ist reach (km 0/000 to 1/350) and 4th reach (0/000 to 1/855) in Malappuram District	-do-	Vasanth Constructions	33,48,081
18	NABARD-Providing BM&BC to Kolathur-Malappuram road km 10/000 to 16/000 in Malappuram District	-do-	M/s PMR Constructions	83,19,869
19	NABARD RIDF XVIII-Providing BM&BC to Athikarathodi-Kuttaloor road km 0/000 to 5/660 in Malappuram District	-do-	M/s PMR Constructions	26,18,886
20	Budget Work 2012-13 Providing BM&BC works to Pathanapuram-Moorkanad road (1st reach) between km 2/500 to 5/000 in Malappuram District	-do-	Malabar Tech	25,66,746
21	Budget work 2012-13 Providing BM&BC works to Manjeri-Olipuzha road between km 11/350 to 12/800 in Malappuram District	-do-	M/s PMR Construction Company	18,62,600
22	NABARD-Improvements to Othayi-Pulliyilpara-Kizhakkechathalloor Road km 0/00 to 3/200 and km 0/00 to 3/00 in Malappuram District	-do-	Malabar Tech	30,56,770
23	Improvements and providing BM&BC works to Kollamchina-Pukayoor road from km 0/000 to 3/520 in Malappuram District	-do-	P. Mohammed	29,19,230
24	Improvements and providing BM&BC works to Kadalundi-Chettiyarmadu road from km 0/000 to 2/000 in Malappuram District	-do-	P. Mohammed	21,65,501
25	Improvements and providing BM&BC works to Mamburam Link road from km 0/000 to 2/000	-do-	EKK & Company	23,75,331
26	Improvements and providing BM&BC works to Tirurangadi-Muttichira road between km 0/000 to 2/350 in Malappuram District	-do-	P. Mohammed	32,03,528
27	Improvements and providing BM&BC works to Parappanangadi-Areacode SH road between km 5/200 to 9/000 in Malappuram District	-do-	M/s PMR Construction Company	61,95,854
28	Providing BM&BC surfacing to Murivazhikkal-Pachattiri-Pariyapuram-Arikkanchira road in Malappuram District	-do-	Infrahite Infrastructure Pvt. Ltd.	6,08,183

Appendix 3.13 (Cont'd.....)

Sl No	Name of work	Name of PWD Roads Division	Name of Contractor	Cost difference of bitumen paid to the contractor (in ₹)
29	Improvements to Alungal-Mangalam-Koottayikkadavu road km 0/000 to 3/985 in Malappuram District	-do-	M/S Beta Constructions	12,78,345
30	Providing BM&BC surfacing to BP Angadi-Mangattiri-Vettom road in Malappuram District	-do-	M/S Beta Constructions	23,50,843
31	Providing BM&BC surfacing to Tirur-Edarikkode road km 0/000 to 12/345 in Malappuram District	-do-	M/s Malabar Tech.	88,32,121
32	Budget work 2012-13 - Providing BM&BC works to Manjeri-Elankur-Wandoor road km 0/000 to 2/400 in Malappuram District	-do-	Malabar Plus constructions	26,19,904
33	Budget work 2012-13 - Improvements and providing BM&BC to Vaniyambalam-Amarambalam road km 0/000 to 5/400 in Malappuram District.	-do-	M/s Malabar Associates	37,39,034
34	NABARD RIDF XVIII- Improvements and widening the carriage way of Mathur Banglow School-Puliyanoor Moolode Vettikade road from km 0/00 to 3/300 in Palakkad District	Palakkad	M. A. Muhammed Shafi	5,11,446
35	Improvements and widening the carriage way Vandazhy Muslim Palli-Kanthalam road between km 0/000-7/000 in Palakkad District	-do-	C Dhileesh	2,00,000
36	Improvements to 2nd mile-Monnamkuzhi-Kulappadam Road km 0/00 to 1/800 in Palakkad District	-do-	M. T. Abdul Kabeer	2,73,087
37	Improve ments of Mannarkkad Kodathippadi Changaleri Nhettarakkadavu road km 0/00 to 5/600 in Palakkad District	-do-	M/s. TAN-B Constructions	13,98,784
38	Providing BM & BC to Cheruthuruthy-Perumbilavu Road (9/400 to 15/475) Working chainage km 9/400 to 13/000 in Palakkad Dist.	-do-	T. N. Abdul Hameed Khan	4,14,350
39	LAC-ADF 2012-13 - Improvements to Vattoli Bazar-Thiruvancheripoyil-Kottanada-Thayyilpeedika-Manjappalam-Parambinthodu-Vakayad-Naduvannur Road from km 1/200 to 7/500	Kozhiko de	VP Biju	11,14,864
40	Improvements to Anelakkadavu-Bappangadu (Koyilandy) road between km 0/000 to 3/680.	-do-	Anjana Constructions	5,64,923
41	Improvements and providing BM BC to Cheruvattakkadavu-Mallesserythazham road from km 0/000 to 2/250 in Kozhikode District	-do-	ULCCS Ltd	12,63,105
42	NABARD RIDF XVIII - Improvements to Chaliyam-Kadalundikadavu road from km 0/000 to 3/000 in Kozhikode District	-do-	PMR Construction Co.	19,38,699
43	Providing BM BC to Balussery-Koorachundu road between km 0/000 to 5/000.	-do-	ULCCS Ltd	20,95,849

Appendix 3.13 (Cont'd.....)

Sl No	Name of work	Name of PWD Roads Division	Name of Contractor	Cost difference of bitumen paid to the contractor (in ₹)
44	LAC-ADF 2012-13 - Improvements to Payyoli cheerpu-Puthiyangadi Bundu-Keezhariyur road km 0/000 to 2/000, 4/000 to 6/200 under Perambra Assembly Constituency.	-do-	B. U. Abdul Rahiman	5,20,455
45	Widening and BT to Kallachi Town Villyapalli road (Tipu Sulthan Road) in between km 0/000 to 1/200	-do-	Ibrahim Haji	2,19,689
46	Improvements to Meenmutty-Koorottupara-Puliyilakkattupady road (Nellipoil to Puliyilakkattupady) from km 0/000 to 4/950	-do-	PTS Hitech project India Private limited.	7,34,433
47	Improvements to Palath Palolithazham road km 0/000 to 4/400	-do-	K Abdul Hazeez	6,19,201
48	Improvements to Koduvally-REC Road BM BC (km 1/650 to 4/615)	-do-	PTS Hightech Project India Private Limited	8,94,105
49	NABARD RIDF XVIII- Improvements to Odayanchal Cherupuzha road (Edathodu-Vellarikundu) km 6/500 to 16/500 in Kasaragod District.	Kasaragode	KSCC Ltd	72,35,360
50	Improvements to Pokkundu - Kurumathur-Therthala- Therlayikadavu Road km 0/000 to 7/500 in Kurumathur and Chengalayi Grama Panchayath in Kannur District	Kannur	V. P. Abdul Khader	10,72,273
51	NABARD RIDF XVIII- Improvements to Kanhirathinkeezhel- Mathiparamba km 0/000 to 2/200 in Kannur District	-do-	Joseph Velupuzhakkal	6,42,779
52	Improvements to Chinakkal- Kattampally- Mayyil-Kololam road b/w. km 6/800 to 8/500 (Kambil Town) Kannur District.	-do-	Ibrahim Haji	2,06,199
53	Improvements to Edanad- Kunhimangalam road km 0/000 to 13/230 (Ist reach 0/000 to 3/000, 4/000 to 5/000, 11/530 to 13/230.	-do-	C. L. Muhammed Haneef	6,72,770
54	NABARD RIDF XVIII- Improvements to Chembanthotty-- Puranjan road km 0/000 to 5/700.	-do-	U Muhamad Kunhi	12,82,941
55	Improvements to Punnakadavu- Kunnaru-Palakkode road km 0/000 to 7/200 in Kannur District.	-do-	P.M Mansoor	5,58,131
56	Construction of blacktopped road connecting Aralam farm Block No.10 to Block No. 13 and Kakkuvapalam km 0/000 to 3/570 in Kannur District.	-do-	Shameer P	6,15,842
57	Construction of road connecting Aralam farm Block No.7, Block No. 10 and Block No. 9 (8 km) in Kannur.	-do-	Thomas Kannamthanathu	14,09,284

Appendix 3.13 (Cont'd.....)

Sl No	Name of work	Name of PWD Roads Division	Name of Contractor	Cost difference of bitumen paid to the contractor (in ₹)
58	Improvement to Kakkad- Pallipram- Mundayad road km 0/00 to 2/800 in Kannur District	-do-	S Mohammed Harish B	9,76,506
59	Improvements to Varam - Kadamkode- Karikkinkadanchira km 0/000 to 3/900	-do-	MK Anil Kumar	16,32,422
60	Construction of road connecting Block No. 10 godown Block 12 (Wayanad Tribal Settlement area) Kakkuvapalam in Aralam resettlement area. km 0/00 to 9/00.	-do-	Muhammed Haji K	1,44,976
61	Malabar Package-Improvements to 19th Mile Pazhassi Dam Garden km 0/00 to 6/270 (BM & BC) Balance work from km 5/000 to 6/270	-do-	K Moideenkutty Hajee	8,13,904
62	LAC-ADF Improvements to Kavumannam Kalikuni Parathodeu road in Thariyode Panchayath in between km 0/000 to 2/850 In Wayanad District	Kalpetta	UMK Engineering and Construction Co.	2,06,040
63	Constuction of Niravilpuzha Bridge at km 27/100 of Mananathavady Pakramthalam road in Wayanad District	-do-	ULCCS Ltd	84,525
64	Improvements to Suganthagiri Chennayikavala Amba VI th Unit road in between km 0/000 to 8/600 in Pozhuthana Grama Panchayath in Wayanad District	-do-	V.C.Kunhabdulla	1,62,590
65	Upgradation of Karimkutty Palookkara Maniyamkode Kalpetta road in between km 0/000 to 8/000 in Wayanad District	-do-	General Manager KSCC Ltd	90,086
			Total	12,89,09,669

*Source: Records furnished by the Department