

Appendix 1.1 Year-wise break up of outstanding Inspection Reports as on 30 June 2015 (Reference: paragraph 1.7.1; Page:6)

		Agriculture De	epartmen	t		Forest Depar	tment			Total		
Year	No. of outstanding IRs	No. of outstanding paras	which	of paras for first reply has een received	No. of outstanding IRs	No. of outstanding paras	No. of paras for which first reply has not been received		No. of outstanding IRs	No. of outstanding paras	No. of pa which fin has no recei	rst reply t been
			IR	Paras			IR	Paras			IR	Paras
Upto 2010-11	4	6	0	0	12	26	0	0	16	32	0	0
2011-12	17	41	0	0	10	25	0	0	27	66	0	0
2012-13	0	0	0	0	3	4	0	0	3	4	0	0
2013-14	16	53	0	0	27	99	5	17	43	152	5	17
2014-15	122	463	38	191	55	300	42	215	177	763	80	406
Total	159	563	38	191	107	454	47	232	266	1017	85	423

### Appendix 2.1 Encroachments on West Coast Canal, as on October 2015 (Reference: Paragraph 2.5.2(ii); Page:16)

			Chainage		Extent of	No. of	No. of	Reasons for non-
Sl. No.	Place	From	То	Length	encroachment, if known	families residing therein	families evicted	eviction of encroachers, and other remarks
		(km)	(km)	(km)		(Nos.)	(Nos.)	
1	Thiruvananthapuram & Ko Division, Kollam)	ollam District (jurisd	iction of IN					
	Pallithura bridge to Kadinamkulam kayal (falling under jurisdiction	Ch. 21.05 km (Pallithura bridge)	Ch. 22.55 km (Arattuvazhi Bridge)	1.50	Not assessable, as demarcation not yet	56	nil	
	of IN Section, Kazhakootam)	Ch. 22.55 km (Arattuvazhi Bridge)	Ch. 26.00 km (Anakkapillai Bridge)	3.45	completed by Survey Department	192	nil	Demarcation not yet completed. Hence, assessment of
		Ch. 26.00 km (Anakkapillai Bridge)	Ch. 26.90 km (Channamkara Bridge)	0.90		53	nil	encroachments, and resultant evictions required, was not
		Ch. 26.90 km (Channamkara Bridge)	Ch. 27.45 km (Kadinamkulam kayal begins)	0.55		3	nil	possible.
	Kadinamkulam kayal to Anjengo kayal (falling under jurisdiction of IN	Ch. 33.63 km (Kadinamkulam Kayal ends)	Ch. 35.23 km (Kadakam Road)	1.60		20	nil	Demarcation not yet completed. Hence, assessment of
	Section, Chirayinkeezhu)	Ch. 35.23 km (Kadakam Road)	Ch. 36.56 km (Vadakke Arayathuruthu Road)	1.33		32	nil	encroachments, and resultant evictions required, was not possible.
		Ch. 36.56 km (Vadakke Arayathuruthu Road)	Ch. 37.29 km	0.73		17	nil	
	Anjengo kayal to Nadayara kayal (falling under jurisdiction of IN	Ch. 42.46 km (Anjengo kayal)	Ch. 43.78 km (Thazhevettoor)	1.32		5	nil	Demarcation not yet completed. Hence, assessment of
	Section, Varkala)	Ch. 50.90 km (Sivagiri)	Ch. 52.20 km (Nadayara)	1.3		40	nil	encroachments, and resultant evictions
		Ch. 52.20 km (Nadayara)	Ch. 55.17 km (Nadayara	2.97		10	nil	required, was not possible.

GI.			Chainage		Extent of	No. of	No. of	Reasons for non-
Sl. No.	Place	From	То	Length	encroachment, if known	families residing therein	families evicted	eviction of encroachers, and other remarks
		(km)	(km)	(km)	1	(Nos.)	(Nos.)	
			kayal)					
	Kovalam to Pallithura (falling under jurisdiction of IN Section, Thiruvananthapuram)	0.00 km (Kovalam)	21.05 km (Pallithura bridge)	21.05		700	nil	Demarcation not yet completed. Hence, assessment of encroachments, and resultant evictions required, was not possible.
				36.70	TOTAL	1128	nil	
2	Thrissur District (jurisdicti Thrissur) **	on of Addl. Irrigation	on Division,					
	Kodungallur	-	-		4.92 Ha	214	nil	Demarcation not yet
	Mukundapuram	-	-		3.44 Ha	78	nil	completed. Hence, assessment of
	Thrissur	-	-		3.02 Ha	97	nil	encroachments, and
	Chavakkad	-	-		6.6 Ha	443	nil	resultant evictions required, was not possible.
	** Data provided by the Divi Collector, Thrissur	sion as available in R	eport for year 2011	of Distt.	TOTAL	832		
3	Malappuram District (juris Malappuram)	diction of Irrigation	Division,	-	-	nil	-	No family is to be rehabilitated, but 18 shops are to be removed from the banks of PC Canal in Ponnani Taluk.
					GRAND TOTAL	1960	nil	

## Appendix 2.2 Details of Feeder canals improved without adequate width and having bridges of low vertical clearance (Reference: Paragraph 2.5.3(i);Page:18)

Sl.No.	Division	Name of Feeder canal	Width (m)	No. of bridges with	Amount (₹ in lakh)
				low vertical clearance	(
1.	Alappuzha	Kumbalathankarythodu	10.85	-	63.06
2.		Kattachirathodu	1.80	-	76.10
3.		Chandiroorthodu	2	1	37.73
4.		Chethipozhy	8	-	6.50
5.	Kottayam	Lappalam	-	1	195.77
6.		Muttom- Changanacherry canal	-	5	53.85
7.		Chethipuzha	-	1	58.05
8.		Muttar- Neelamperoor canal	-	3	74.61
9.		Kodur river	-	11	110.14
10.		Neendoor canals	-	1	146.99
11.		Kallara canal	-	3	82.62
12.		Chullithodu	-	1	28.91
13.		Appanchira canal	-	2	57.78
14.		Perinjillathodu	-	3	110.66
15.		Valiyathodu	-	4	142.81
16.		Kariyar link canal	-	1	157.88
17.	Thrissur	Shanmugham canal	6 to 8	-	114.50
Total	•				1517.96

Appendix 2.3
Details of feeder canal where joint inspection was conducted by Audit (Reference: Paragraph 2.5.3(ii);Page:18)

Sl. No.	District	Name of FC	Nature of work	Date of completion	Amount (₹ in lakh)	Present Condition (November 2014)
1.	Alappuzha	Madayanthodu	Desilting, removal of water hyacinth	24 October 2008	82.21	Completely covered with water hyacinth. Width and depth of the canal in most places were less than the standard required.
2.	Do	Kumbalathankary	Side protection, deepening	30 July 2009	63.05	Getting thick with water hyacinth. Width is only 10.85 m and depth 0.80 m
3.	Do	Ambalapuzhathodu	Desilting, side protection, and removal of water hyacinth	27 September 2008	65.80	Thickly covered with water hyacinth, low bridges, no navigability
4.	Thrissur	Shanmughamthodu	Desilting, side protection	30 January 2010	114.50	No connectivity throughout the year. A salt water barrier is there between WCC and the Feeder Canal (FC). Narrow canal.
5.	Kottayam	Valiyathodu	Protection of left bank, desilting.	19 July 2014	142.81	Two low railway bridges, work done on one side alone while other side of Kaduthuruthy bridge is shallow, full of dirt. Water weeds are fastly growing in the recently improved area.
6.	Do	Perinchillathodu	Side protection and desilting	19 January 2013	110.66	Thickly covered with water hyacinth and waste thrown in to the FC.
7.	Do	Mannanam- Chuzhalykkuzhy	Deepening	31 August 2011	115.94	Three km towards Mannanam was full of water weeds, rock preventing navigability.
	TOTAL				694.97	

### Appendix 2.4 Details showing delay in repair of barges and their disposal (Reference: Paragraph 2.6.1; Page:22)

Sl. No.	Barge and year of construction	Withdrawal from service	Details of action taken after withdrawal of the vessel from service	Ultimate impact
1	Bhavana, 1992	June 2009	Estimates for dry dock repair were prepared in June 2009 (₹18.06 lakh), and re-estimated in December 2011(₹58.09 lakh) and in June 2012 (₹129 lakh) but repair was not carried out.	After withdrawal from service, the vessel remained idle for 3.5 years and later found in severely corroded condition. Finally, it became unviable for repair and was disposed of in December 2012, for ₹15.09 lakh
2	Aiswarya	June 2009	Estimate for dry dock repair was prepared in June 2009 (₹17.51 lakh). But repair was not carried out.	After one year, the vessel was found in severely corroded condition. Disposed of in September 2011 for ₹30 lakh.
3	Bhagya, 1991	January 2011	Estimates for dry dock repair were prepared and approved by Board of Directors frequently since December 2010 (₹22.67 lakh). Finally repaired at a cost of ₹78 lakh and released in August 2012.	On account of idling of barge for long time without repair, the quantum of steel replacement increased by 29 MT which led to additional expenditure of ₹55.33 lakh.

### Appendix 3.1 The details of extent of EFL area notified by Forest Department (Reference: Paragraph 3.1; Page:27, 29)

#### **Extent of EFL area**

Sl.	District	Division	Tota	al Notified
No.			No. of bits	Extent (Ha)
1	Kollam & Thiruvananthapuram	Thiruvananthapuram	55	929.33490
2	Kollam	Achencovil	1	133.05090
3	Kollam	Punalur	1	15.71000
4	Kollam	Shendurney (Wild life)	4	35.43900
5	Kollam	Thenmala	3	45.45320
6	Idukki	Munnar	14	898.01250
7	Idukki	Marayur	75	248.74000
8	Idukki	Kottayam	89	265.06737
9	Thrissur	Chalakudy	3	4.56200
10	Thrissur	Thrissur	19	75.48019
11	Palakkad	Mannarkkad	54	713.04420
12	Palakkad	Nenmara	140	1,417.69070
13	Palakkad	Palakkad	289	3,060.80693
14	Palakkad & Malappuram	SVNP (Wild life)	8	114.45000
15	Malappuram	Nilambur North	25	948.05070
16	Malappuram	Nilambur South	13	298.93700
17	Kozhikode	Kozhikode	104	1,544.99140
18	Kannur & Kasargod	Kannur	75	1,154.17850
19	Wayanad	Wayanad North	74	903.54010
20	Wayanad	Wayanad South	65	2,098.62577
21	Wayanad	Wayanad (Wild Life)	1	5.23058
		Total	1,112	14,910.39594*

<sup>\*</sup> Out of the total 14910.39 Ha of the notified EFL area, 14,905.17 Ha was notified u/s 3 of EFL Act and an extent of 5.23 Ha (Serial No.21) was notified u/s 4 till July 2015.

## Appendix 3.2 Details showing delay in notifying as EFL in respect of proposals received in Custodian's Office (Reference: Paragraph 3.5.2;Page:30)

Sl. No.	Division	Date of receipt of	Area (in Ha)	Delay as on 31 December	Reason for delay
110.		proposal	(III IIu)	2015	
				(in years)	
1	Nenmara	27.11.2008	0.9120	7	Sample plot details
					sought from sub office
2	Palakkad	20.05.2010	12.9800	5.5	Report sought from CCF
					(Eastern Circle)
3	Thrissur	08.10.2010	2.1034	5	Sample plot details
4	D 1 11 1	22 12 2011	7.6100	4	sought from sub office
4	Palakkad	23.12.2011	7.6100	4	Sample plot details
-	Palakkad	20.11.2012	2.1450	3	sought from sub office
5	South	31.12.2013	6.0000	2	Court Stay Sample plot details
6	Wayanad	31.12.2013	0.0000	2	Sample plot details sought from sub office
7	Nilambur	05.03.2014	1.9230	1.8	Sample plot details
/	South	05.05.2014	1.9230	1.0	sought from sub office
8	Thrissur	25.03.2014	0.6072	1.8	Sample plot details
	111110501	25.05.201	0.0072	1.0	sought from sub office
9	Nilambur	04.06.2014	4.0480	1.5	Sample plot details
	North				sought from sub office
10	Kozhikode	30.06.2014	6.8790	1.5	Under enquiry by
					Custodian
11	Mannarkkad	28.10.2014	21.2120	1	Sample plot details
					sought from sub office
12	Mannarkkad	28.10.2014	4.8562	1	Sample plot details
					sought from sub office
13	Palakkad	12.11.2014	0.3346	1	Sample plot details
1.4	TDI :	22 11 2014	0.5224	4	sought from sub office
14	Thrissur	22.11.2014	2.5334	1	Sample plot details sought from sub office
15	Marayaan	27.11.2014	79.5000	1	Sample plot details
13	Marayoor	27.11.2014	79.3000	1	sought from sub office
16	Palakkad	06.03.2015	6.0703	0.8	Sample plot details
10	1 alakkaa	00.03.2013	0.0703	0.0	sought from sub office
17	Nenmara	20.06.2015	2.8210	0.5	Sample plot details
•	_ , , , , , , , , , , , , , , , , , , ,		2.3213	J.0	sought from sub office
18	Nilambur	09.12.2015	0.6550	-	Sample plot details
	North				sought from sub office
	Total		163.1901		

Appendix 4.1 Statement showing reduction in required amount (Reference: Paragraph 4.5.3; Page:41)

Sl. No.	Name of Watershed	Project cost (₹ in	Item	Quantity approved	Rate approved	Prevalent rate (₹ per	Difference in rate (₹	Amount reduced
		crore)		(m <sup>2</sup> )	(₹ per m²)	m <sup>2</sup> )	per m <sup>2</sup> )	(₹ in crore)
	RIDF XIX	<u>'</u>			,			,
1.	Potta, Thrissur	1.65	Stone pitched contour bund (with quarried stone)	44100	143.52	225.446	81.926	0.36
2.	Kavungal thodu, Malappuram	0.92	Stone pitched contour bund (with quarried stone)	12700	143.52	225.446	81.926	0.10
3.	Areeckal thodu, Kottayam	1.39	Stone pitched contour bund (with quarried stone)	40000	143.52	225.446	81.926	0.33
			Stone pitched contour bund (with non quarried stone)	10000	114.84	180.39	65.55	0.07
4.	Chathirur-Mangad, Kannur	1.38	Stone pitched contour bund (with quarried stone)	61000	143.52	225.446	81.926	0.50
5.	Alachakonam, Trivandrum	0.74	Stone pitched contour bund (with quarried stone)	35000	143.52	225.446	81.926	0.29
6.	Kochukoyikkal, Pathanamthitta	1.00	Stone pitched contour bund (with quarried stone)	50000	143.52	225.446	81.926	0.41
7.	Valliyankavu, Idukki	1.10	Stone pitched contour bund (with quarried stone)	65000	165.048	259.26	94.212	0.61
8.	Meenmutty, Idukki	1.15	Stone pitched contour bund (with quarried stone)	50000	165.048	259.26	94.212	0.47
9.	Mylapra, Pathanamthitta	1.69	Stone pitched contour bund (with quarried stone)	50000	143.52	225.446	81.926	0.41
10.	Adukkalampady, Kasargod	1.01	Stone pitched contour bund (with quarried stone)	37000	143.52	225.446	81.926	0.30
11.	Blavady, Kollam	1.25	Stone pitched contour bund (with quarried stone)	309000	143.52	225.446	81.926	0.25
			Stone pitched contour bund (with non quarried stone)	4400	114.84	180.39	65.55	0.03
12.	Kozhimalakandam, Idukki	0.85	Stone pitched contour bund (with quarried stone)	45000	165.048	259.26	94.212	0.42
13.	Kappathodu, Thrissur	2.78	Stone pitched contour bund (with quarried stone)	15000	143.52	225.446	81.926	0.12
14.	Kunduthodu-chiramanangad, Thrissur	2.17	Stone pitched contour bund (with quarried stone)	3000	143.52	225.446	81.926	0.02

Sl. No.	Name of Watershed	Project cost (₹ in crore)	Item	Quantity approved (m <sup>2</sup> )	Rate approved (₹ per m²)	Prevalent rate (₹ per m²)	Difference in rate (₹ per m²)	Amount reduced (₹ in crore)
15.	Anayankunnu Parathodu, Kozhikode	1.00	Stone pitched contour bund (with quarried stone)	41518	143.52	225.446	81.926	0.34
16.	Nelliyeri, Kozhikode	0.65	Stone pitched contour bund (with quarried stone)	16000	143.52	225.446	81.926	0.13
17.	Cherukad, Kozhikode	0.60	Stone pitched contour bund (with quarried stone)	20000	143.52	225.446	81.926	0.16
18.	Rajagiri, Kannur	1.65	Stone pitched contour bund (with quarried stone)	78000	143.52	225.446	81.926	0.64
			Stone pitched contour bund (with non quarried stone)	2000	114.84	180.39	65.55	0.01
19.	Randamkadavu, Kannur	1.80	Stone pitched contour bund (with quarried stone)	73000	143.52	225.446	81.926	0.60
			Stone pitched contour bund (with non quarried stone)	3300	114.84	180.39	65.55	0.02
20.	Kuzhikkalthodu ,Kannur	0.75	Stone pitched contour bund (with quarried stone)	30000	143.52	225.446	81.926	0.25
21.	Kolanchithodu, Kannur	0.96	Stone pitched contour bund (with quarried stone)	45500	143.52	225.446	81.926	0.37
			Stone pitched contour bund (with non quarried stone)	3300	114.84	180.39	65.55	0.02
22.	Kanhirakolly, Kannur	1.49	Stone pitched contour bund (with quarried stone)	8300	143.52	225.446	81.926	0.07
			Stone pitched contour bund (with non quarried stone)	2000	114.84	180.39	65.55	0.01
23.	Edappuzha Manchodu, Kannur	1.11	Stone pitched contour bund (with quarried stone)	42000	143.52	225.446	81.926	0.34
24.	Addakkathodu, Kannur	1.50	Stone pitched contour bund (with quarried stone)	70000	143.52	225.446	81.926	0.57
			Stone pitched contour bund (with non quarried stone)	2000	114.84	180.39	65.55	0.01
Total		30.59						8.23
25.	Adampara watershed, Kannur	1.95	Stone pitched contour bund (quarried stone)	1,00,000	143.52	281.0774	137.5574	1.38
			,, (without quarrying)	2000	114.84	224.9089	110.0689	0.02
			Agrostological measures	30000 /RM	8.80/ RM	10.9673/ RM	2.1673/ RM	0.007
26.	Karalam–Mankayam (Vellarikundu) watershed,	2.05	Stone pitched contour bund(quarried stone)	60000	143.52	281.0774	137.5574	0.83
	Kasargod		,, (without quarrying)	5000	114.84	224.9089	110.0689	0.06

Sl. No.	Name of Watershed	Project cost (₹ in crore)	Item	Quantity approved (m <sup>2</sup> )	Rate approved (₹ per m²)	Prevalent rate (₹ per m²)	Difference in rate (₹ per m²)	Amount reduced (₹ in crore)
			Agrostological measures	30000 / RM	8.80/ RM	10.9673/ RM	2.1673/ RM	0.007
			Earthern Bund	2500 / RM	61.83/ RM	77.0848/ RM	15.2548/ RM	0.004
27.	Poyyamala – Illimukku, Kannur	1.95	Stone pitched contour bund (quarried stone)	22000	143.52	281.0774	137.5574	0.30
			Agrostological measures	20000 / RM	8.80 / RM	10.9673/ RM	2.1673 / RM	0.004
Total	1	5.95						2.61

## Appendix 4.2 Details of NABARD assisted RIDF schemes under implementation by the Directorate of Soil Survey and Soil Conservation (as on 30 November 2015)

(Reference: paragraph 4.8.4; Page:45)

SI	RIDF	No. of	Project	Project		lative	Achiev	vement	Completed/
No.	Tranche	project sanctioned	area (Ha)	cost (₹in crore)	achiev Physical (Ha)	Financial (₹ in crore)	Physical (%)	Financial (%)	Ongoing
1	RIDF I	40	5,902	10.13	5,718	9.96	97	98	completed
2	RIDF II	32	8,725	12.93	7,859	10.87	90	84	completed
3	RIDF III	40	13,423	21.61	10890	18.45	81	85	completed
4	RIDF VI	20	6,220	10.23	4,627.5	8.45	74	83	completed
5	RIDF VII	40	13,694	17.79	9,768.92	16.17	71	91	completed
6	RIDF VIII	12	6,128	6.47	3,562.8	5.55	58	86	completed
7	RIDF IX	7	3,199	4.65	2503	3.78	78	81	completed
8	RIDF X	51	28,537	35.52	16,641	27.52	58	77	completed
9	RIDF XI	3	1,200	2.49	639	0.89	53	36	completed
10	RIDF XII	25	10,577	18.58	8,987.5	17.03	85	92	completed
11	RIDF XIII	10	4,088	7.14	3,952.97	6.87	97	96	completed
12	RIDF XIV	13	4,338	9.5	4,135.56	9.04	95	95	ongoing
13	RIDF XV	22	8,158	15.6	7,245.98	13.76	89	88	ongoing
14	RIDF XVI	11	4,049	9.84	3763	8.73	93	89	ongoing
15	RIDF XVII	31	12,554	26.2	10,709.84	22.83	85	87	ongoing
16	RIDF XIX	68	33,320	87.53	14,830.73	37.77	45	43	ongoing
17	RIDF XX	6	5,816	27.35	0	0.005	0	0	ongoing
		56 ponds	1,458						
	Grand total	431	1,71,386	323.56	1,15,834.8	217.67			

# Appendix 5.1 Statement showing the works executed during the period 2011-15 treating as ordinary repairs (Reference: paragraph 5.6; Page:52)

Sl.	Name of work	Division	Total claim
No.			disallowed
			(₹ in lakh)
1.	Renewal/IRQP from km 231/000 to km 263/444	Kozhikode	1251.14
	of NH-17		
2.	Resurfacing NH-212 km 66/00 to km 76/00	Kozhikode	656.18
3.	Periodical renewal (PR) of NH-17 providing	Kozhikode	1,042.86
	50mm BM and 25mm BC km 194/610 to km		
	206/500		
4.	Repairs to Railway overbridge at Vengali,	Kozhikode	179.82
	Vengalam and Chengathukavu on NH-17		
5.	PR 2010-11, providing BM and BC in km 29/000	Kannur	664.56
<u> </u>	to km 41/000 of NH-17		
6.	Resurfacing of NH-17 from km 58/000 to km	Kannur	464.05
	63/000	3.6.1	220.00
7.	Improvements to Kondotty town km 27/500 to	Malappuram	330.90
0	km 29/150 of NH-213	Molommymom	226.46
8.	Widening of NH-213 between Angadipuram and Perinthalmanna	Malappuram	336.46
9.	Monsoon work NH-49 Madurai-Kochi road	Muvattupuzha	349.99
9.	40mm BC between km 279/000 to km 286/610	iviuvattupuziia	349.99
10.	NH-17 2013-14 providing 1.20 x 1.50 span slab	Malappuram	19.93
10.	culvert and drainage facilities (km 331/500 to km	Williappurum	15.55
	331/750)		
11.	NH-212 – resurfacing work between km 97/600	Kozhikode	580.53
	to km 117/600 in Wayanad district		
12.	NH-213 for 2013-14 extension of culvert drain	Malappuram	4.62
	(km 41/040 and km 40/700) and (km 42/800 and		
	km 43/200)		
13.	NH-213 for 2013-14 extension of culvert drain at	Malappuram	4.98
	km 79/200 (left side)		
14.	NH-213 for 2013-14 extension of culvert at km	Malappuram	4.95
	46/800		
15.	NH-47 Resurfacing work from Vadakkancherry	Kodungallur	1,526.00
	to Vaniyampara (km 240/000 to km 249/000 and		
	Vazhukumpara to Mannuthy)		
16.	Repairs to damaged drain in providing cover slabs	Malappuram	2.99
1.7	between km 70/800 to km 70/900 (right side)	361	2.00
17.	Repairs to damaged drain in providing cover slabs	Malappuram	3.00
	between km 70/900 to km 71/000 (right side)		# 400 OC
Total			7,422.96