

APPENDIX I

(Reference: Paragraph No. 1.7.1)

Year-wise breakup of outstanding Inspection Reports as on 30 September 2018

Sl. No.	Department	Upto 2013-14		2014-15		2015-16		2016-17		2017-18		Total	
		No. of IRs	No. of Paras	No. of IRs	No. of Paras	No. of IRs	No. of Paras	No. of IRs	No. of Paras	No. of IRs	No. of Paras	No. of IRs	No. of Paras
1.	Agriculture & Co-operation	1	3	4	11	4	15	2	6	2	15	13	50
2.	Energy & Petrochemicals	2	3	1	6	2	10	1	6	2	7	8	32
3.	Finance	1	3	1	1	2	3	3	7	4	15	11	29
4.	Forests & Environment	16	51	11	31	5	14	12	49	13	91	57	236
5.	Industries & Mines	21	87	4	9	9	35	11	41	14	49	59	221
6.	Narmada, Water Resources, Water Supply & Kalpsar (except Water Supply)	78	208	40	85	15	44	9	45	24	145	166	527
7.	Ports & Transport	1	4	0	0	2	6	4	9	4	13	11	32
8.	Roads & Buildings	33	102	19	58	15	38	18	97	24	184	109	479
9.	Science & Technology	3	12	2	6	0	0	1	11	4	33	10	62
10.	Climate Change	0	0	0	0	1	6	1	4	1	4	3	14
Total		156	473	82	207	55	171	62	275	92	556	447	1,682

Appendix II
(Reference: Paragraph No. 2.1.2)
Details showing the project wise and division wise ERM works awarded and completed during 2012-13 to 2017-18
 (₹ in crore)

Sl. No.	Name of Division	Name of Project	No. of Works taken up	EC (₹ in crore)	TC (₹ in crore)	Works Completed		Works in progress as of March 2018	
						No. of works	Work done in crore	No. of works	Work done (₹ in crore)
1	Kadana Division No. 1, Diwada Colony	Kadana Reservoir Project (Kadana Left bank Main Canal and Kadana Right Bank Main Canal),	8	6.39	6.44	6	4.65	2	0.73
2	Irrigation Project Division, Modasa	Watrak Reservoir Project (Watrak Left Bank Main Canal and Watrak Right Bank Main Canal and its Distributaries)	14	22.94	17.05	12	12.08	2	0.99
		Mazam Reservoir Project	1	3.24	2.85	1	1.70	0	0
		Meshwo Reservoir Project	1	4.95	4.29	1	2.96	0	0
		Waidy Irrigation Project.	1	3.67	3.00	0	0	1	0
3	Surat Canal Division, Surat	Ukai-Kakrapar Weir Project (Kakrapar Left Bank Main Canal)	20	129.71	124.13	15	77.79	5	0
4	Ambica Division, Navsari		40	119.70	113.06	33	73.51	7	34.07
5	Kakrapar Right Bank Canal Division, Surat	Kakrapar Right Bank Main Canal and Ukai Right Bank Main Canal	66	333.41	348.18	56	272.67	10	41.18
6	Ukai Right Bank Canal Investigation Division, Ankleshwar		37	164.98	164.96	34	146.93	3	15.20
7	Ukai Left Bank Canal Investigation Division No. 2, Valod,	Ukai Reservoir Project (Ukai Left Bank Main Canal)	26	100.39	103.71	20	90.77	6	1.96
		Kelia Reservoir Project,	7	3.00	2.45	1	0.33	6	0.87
		Jhuj Reservoir Project	9	4.38	3.39	4	1.18	5	0.93
8	Dharoi Canal Division No.3, Visnagar	Sabarmati Reservoir Project (except Sabarmati Left Bank Main Canal),	28	41.03	35.84	27	32.56	1	0.12
9	Dharoi Head Works Division, Dharoi		6	20.43	19.63	4	17.25	2	0.55
10	Ahmedabad Irrigation Division, Ahmedabad.	Fatewadi Project	9	102.64	106.48	8	94.80	1	15.84
Total			273	1,060.86	1,055.46	222	829.18	51	112.44

Appendix III

(Reference: Paragraph No. 2.1.4.1)

Details of project wise CCA created and maximum utilisation during any season

(Figures in hectare)

Sl. No.	Name of project	CCA created	Actual maximum irrigation during any season													
			2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18			
1	Jhuj Project	4138	749	800	356	697	706	688	769	779	141	876	1103			
2	Kelia Project	2210	930	1075	650	952	957	909	912	985	366	1136	1303			
3	Ukai Project (Ukai Left Bank Canal)	66168	30347	30461	20553	25857	26779	27558	28717	28580	29500	26450	32000			
4	Fatewadi Project	96883	25977	25100	22024	22500	22650	28100	26382	27000	26945	24000	24300			
5	Ukai-Kakrapar Project (Kakrapar Left Bank Main Canal)	145395	61070	60734	57471	59074	58585	60041	59889	60259	59361	55437	52811			
6	Kakrapar Right Bank Main Canal and Ukai Right Bank Main Canal	118593	61407	63206	60522	64546	64841	65459	44745	62891	58388	58196	52069			
7	Kadana Project	16903	3902	3078	3756	3209	2742	2848	2903	2200	5441	7698	6603			
8	Watrak Project	18341	2000	2900	3569	3107	2611	3100	2000	2200	2900	2000	2000			
9	Mazam Project	4717	541	500	428	132	564	550	500	500	500	400	500			
10	Meshwo Project	7980	2700	2600	2400	2726	2223	2200	2300	1700	2000	1200	1900			
11	Waidy Project	1235	341	0	125	148	310	325	250	300	260	250	193			
12	Dharoi Project (Sabarmati Right Bank Main Canal)	77110	23010	19472	17803	24047	25468	25616	23525	22377	22570	22300	19000			
Total		559673	212974	209926	189657	206995	208436	217394	192892	209771	208372	199943	193782			

(Source: compiled from the information furnished by the divisions)

Appendix IV

(Reference to Paragraph No. 2.1.6.2)

Statement showing the details of splitting up of works

(₹ in lakh)

Sl. No.	Name of Division	Name of work	Technical Sanction amount	Technical Sanction date	Date of work order/ Stipulated date of completion/ Actual date of completion	Estimated cost/ Tender cost/ Actual Cost	
1	Dharoi Head Works Division, Dharoi Colony	M & R work to Valasana Distry ch 1400 to 1900 m Ex Ch 3,645 m of Branch Canal No. 1 of RBMC	14.76	July 2016	September 2016 December 2016 December 2016	14.76 9.05 9.05	
2		Repairing patches in lining between ch 0 to 1,200 m of Valasana Distributary of RBMC	14.98	July 2016	September 2016 December 2016 December 2016	14.83 8.79 8.79	
3		ERM work of Chimanabai Sarovar main canal between ch 2.50 to 3.20 km	14.97	February 2017	May 2017 November 2017 November 2017	14.97 10.18 10.06	
4		ERM work of Chimanabai Sarovar main canal between ch 7 to 7.80 km	14.98	March 2017	May 2017 November 2017 November 2017	14.98 10.27 10.25	
5		ERM work in between ch 2400 to 13300 m of RBMC	4.99	April 2016	June 2016 August 2016 August 2016	4.94 3.79 3.78	
6		Restoration of main canal from ch 85 to 175 m of RBMC	14.92	May 2016	July 2016 September 2016 September 2016	14.77 12.06 12.04	
7		Restoration of Main canal from ch 175 to 340 m of RBMC	15.00	May 2016	July 2016 September 2016 September 2016	14.85 11.58 11.58	
8		Restoration of Main Canal from ch 340 to 505 m of RBMC	14.98	May 2016	July 2016 September 2016 September 2016	14.83 11.57 11.57	
9		Surat Canal Division, Surat	Providing protection works at shree Vankaner Group (Afwa Minor) PSM, Vankaner (Package 1)	10.00	October 2014	December 2014 June 2015 May 2015	9.71 7.67 6.86
10			Providing protection works at Shree Vankaner Group (Afwa Minor) PSM, Vankaner (Package 2)	10.00	October 2014	December 2014 June 2015 May 2015	9.71 7.67 7.00
11			Providing protection works at Shree Vankaner Group (Afwa Minor) PSM, Vankaner (Package 3)	10.00	October 2014	December 2014 June 2015 June 2015	9.39 7.95 6.59
12			Providing protection works at Shree Sardar Patel Sahabhangi	9.74	November 2014	December 2014 June 2015 June 2015	9.45 7.96 7.21

Sl. No.	Name of Division	Name of work	Technical Sanction amount	Technical Sanction date	Date of work order/ Stipulated date of completion/ Actual date of completion	Estimated cost/ Tender cost/ Actual Cost
		Sinchai Piyat Mandli, Vankaner (Package 1)				
13		Providing protection works at Shree Sardar Patel Sahabhagi Sinchai Piyat Mandli, Vankaner (Package 2)	9.55	November 2014	December 2014 June 2015 June 2015	9.28 7.81 7.00
14		Providing protection works at Shree Sardar Shabhagi PSM, Vankaner (Package 3)	7.21	November 2014	December 2014 June 2015 June 2015	7.00 5.93 5.22
15		Providing protective measures on Palsana Distry between RD 24.700 to 26 Ex. Ena Distry	13.82	November 2014	December 2014 June 2015 May 2015	13.42 11.07 11.07
16		Providing protective measures on Palsana Distry between RD 36.300 to 38 Ex. Ena Distry	14.87	November 2014	December 2014 June 2015 May 2015	14.44 11.88 11.87
17		Improvement to DO, protection works on the canals under the jurisdiction of Kathodra- PSM	13.55	October 2014	December 2014 June 2015 June 2015	12.99 11.69 11.44
18		Providing protection to structures on the canals under the jurisdiction of Kathodra khadsad PSM	14.69	October 2014	December 2014 June 2015 May 2015	14.42 12.98 12.85
19		Providing protection work to D/s scoured portion of CR/Fall/VRB at RD 6.80 on Ubhrat Branch	18.30	November 2014	December 2014 June 2015 April 2015	18.30 16.49 16.32
20		Providing protection work to D/s scoured portion of CR/Fall/VRB at RD 19.2 on Ubhrat Branch	18.18	November 2014	December 2014 June 2015 April 2015	18.18 16.38 16.25
21		Providing protection to scoured portion between RD 41.90 to 42.30 on Chalthan Branch	14.79	September 2015	October 2015 April 2016 March 2016	14.36 12.12 12.02
22		Providing protection to scoured portion between RD 51.450 to 51.850 on Chalthan Branch	14.75	September 2015	October 2015 April 2016 March 2016	14.36 12.09 12.00
23		Providing protective measures on Udhana Distry between RD	14.91	September 2015	December 2015 June 2016 May 2016	14.47 13.39 13.37

Sl. No.	Name of Division	Name of work	Technical Sanction amount	Technical Sanction date	Date of work order/ Stipulated date of completion/ Actual date of completion	Estimated cost/ Tender cost/ Actual Cost
		22.50 to 23.385 Ex Chalthan Branch				
24		Providing protective measures on Udhana Distry between RD 24.950 to 26.280 Ex Chalthan Branch	14.98	August 2016	December 2016 June 2017 April 2017	14.54 11.10 11.01
25		Providing protective measures on Udhana Distry between RD. 23.870 to 24.860 Ex Chalthan Branch	14.95	August 2016	December 2016 June 2017 April 2017	14.51 11.08 11.04
26	KRBC Division, Surat	Protection to bank of Khanjroli Minor between RD 5.30 to 6.98	21.61	August 2015	December 2015 June 2016 In progress	21.05 14.97 13.86
27		Protection to bank of Khanjroli Minor between RD 7.16 to 8.00	10.55	August 2015	December 2015 June 2016 In progress	10.24 7.28 6.21
28		Protection to bank of Khanjroli Minor between RD 10.35 to 14.00	46.13	August 2015	December 2015 June 2016 May 2016	44.79 28.84 28.74
29		Protection to bank of 2L Sub Minor Ex. Khanjroli Minor between RD 0.30 to 2.80	19.75	August 2015	December 2015 June 2016 In progress	19.17 14.45 13.42
30		Protection to bank of 2L Sub Minor Ex. Khanjroli Minor RD 6.80 to 7.60	6.41	August 2015	December 2015 June 2016 In progress	21.76 15.48 13.35
31		Prot. to bank of 2L Sub Minor Ex. Khanjroli Minor RD 14.20 to 16.30	16.00	August 2015		
				454.32		

Appendix V

(Reference: Paragraph No. 2.1.6.7)

Statement showing the details of incomplete ERM works as on June 2018

Sl. No.	Name of Division/ Name of project	Name of work	Date of AA Date of TS Date of DTP	Date of work order/ Stipulated date of completion/ Present status	Estimate Cost/ Tendered Cost/ Work done (₹ in crore)	CCA (in ha)
1	Kadana Division No. 1, Diwada Colony Kadana Project	Modification of Existing Lunawada Distributary between Chainage (ch) 10,800 to 14,900 m	Remaining work	February 2016 August 2016 In Progress	0.66 0.72 0.15	600
2	Irrigation Project Division, Modasa Watrak Project	ERM work for WRBMC canal chainage 10,150 m to 13,440 m	August 2012 November 2016 January 2017	February 2017 February 2018 In Progress	1.92 1.28 0.69	2,184
3	Ukai Left Bank Canal Investigation Division No. 2, Valod	Restoration of earthwork and lining between ch 500 m to 6,000 m on Jhuj RBMC	August 2016 September 2016 September 2016	January 2017 December 2017 In progress	0.62 0.48 0.33	4,138
4	Jhuj Project, Kelia Project	Restoration of earthwork and lining between ch 6,000 m to 6,630 m on Jhuj RBMC	September 2016 October 2016 October 2016	January 2017 December 2017 In Progress	0.17 0.13 0.10	
5		Restoration of earthwork and lining between ch 5,740 to 9,090 m on Kureliya Distributary of Jhuj Right Bank Branch Canal (RBBC)	August 2016 September 2016	January 2017 December 2017 In Progress	0.57 0.44 0.33	
6		Restoration of earthwork and lining and structure between ch 11,000 to 14360 m on Jhuj RBBC	September 2016 November 2016 November 2016	January 2017 December 2017 In Progress	0.93 0.71 0.25	
7		Restoration of earthwork and lining and structure between ch 7,920 to 11,000 m on Jhuj RBBC	August 2016 September 2016 September 2016	January 2017 December 2017 In Progress	0.45 0.36 0.34	
8		Restoration of Lining works & Rock Cutting work on Kelia Main and Left Bank Branch Canal. Between Ch. 0 to 8,670 m	August 2016 September 2016 September 2016	February 2017 January 2018 In Progress	0.52 0.45 0.42	2,210
9		Restoration of earthwork and lining work on Mandav Khadak Minor No. 2 between ch 0 to 4,775 m	August 2016 September 2016 September 2016	February 2017 January 2018 In Progress	0.54 0.48 0.46	

Sl. No.	Name of Division/ Name of project	Name of work	Date of AA Date of TS Date of DTP	Date of work order/ Stipulated date of completion/ Present status	Estimate Cost/ Tendered Cost/ Work done (₹ in crore)	CCA (in ha)
10		Restoration of earthwork and lining work on Kelia Right Bank Branch Canal between ch 0 to 6,500 m	August 2016 October 2016 October 2016	February 2017 January 2018 In Progress	0.44 0.36 0.32	
11		Restoration of earthwork and lining work on Sarvani Minor between ch 0 to 4,110 m, Sarvani Sub Minor No. 2 between ch 0 to 2,110 m, Sarvani Sub Minor No. 3 between ch 0 to 2,010 m and Vaghabari Sub Minor between ch 0 to 1,650 m Ex Sarvani Minor	September 2016 December 2016 January 2017	April 2017 March 2018 Not Started	0.38 0.30 0.00	
12		Restoration of earthwork and lining work on Vandarvela Minor between ch 0 to 3,810 m, Vandarvela Sub Minor No. 1 between ch 0 to 1,400 m, Vandarvela Sub Minor No. 2 between ch 0 to 1,100 m and Vandarvela Sub Minor No. 3 between ch 0 to 500 m Ex Vandarvela Minor	September 2016 December 2016 January 2017	April 2017 March 2018 Not Started	0.35 0.27 0.00	
13	Irrigation Division, Ahmedabad Fatewadi Canal System	Constructing pipeline from Rajpura Branch Canal to Shiyawada and to Walthera village	October 2016 October 2016 November 2016	May 2017 August 2017 In progress	0.58 0.43 0.23	300
Total					8.13 6.41 3.62	9,432

Appendix VI
(Reference: Paragraph No. 2.5)
Statement showing excess expenditure of star rate difference of asphalt

Sl. No.	Name of work	Date of AA Date of TS Date of DTPs	Estimated cost	Tender cost	Work order Stipulated completion Actual completion	Asphalt rate adopted (₹ per MT)	Rate at the time of approval of DTPs	Total asphalt used (in MT)	Purchase Cost of asphalt used	Cost as per Star rate in month of DTP	Difference to be paid/recovered	Actual difference paid / recovered	Short recovered/ excess paid star rate difference
Roads and Buildings Division, Palanpur													
1.	(SR) to Mitha- Tharad- Deesa Road 15/380 to 31/290 km (selected length)	October 2013 December 2013 December 2013	7.96	5.46	March 2014 October 2014 December 2014	48,573	49,438	666.760	3.25	3.30	(-) 0.05	0.02	(-) 0.07
2.	Deodar- Thara-Totana Road from 0/0 to 29/850 km (7 m) 43/800 to 54/480 km.	October 2013 October 2013 December 2013	6.33	4.59	March 2014 October 2014 October 2014	44,704.47	49,438	661.567	3.25	3.27	(-) 0.02	0.30	(-) 0.32
3.	widening and strengthening of Shihori- Deodar Road (SH) 0/0 to 18/300 km	October 2013 October 2013 December 2013	24.33	16.29	February 2014 February 2015 April 2015	44,704.47	49,438	1547.855	5.85	7.65	(-) 1.80	(-) 1.07	(-) 0.73
Roads and Buildings Division, Modasa													
4.	Widening and strengthening of Nadiyad-Kapandvanj- Modasa-Raigadh road (SH-59) 108/900 to 127/900 km (19 km)	February 2015 May 2015 June 2015	46.70	28.23	December 2015 June 2017 June 2017	36,270.57	39,564.44	3464.967	10.59	13.72	(-) 3.13	(-) 1.99	(-) 1.14
Roads and Buildings Division, Ahwa													
5.	Resurfacing and box culvert of Ahwa-Chinchili-Babulghat road 95/0 to 130/0 km	May 2015 June 2015 July 2015	19.36	12.57	October 2015 September 2016 May 2016	32,274.71 (80/100 grade)	37,832.40	29.69	0.09	0.11	(-) 0.02	0	(-) 0.02
						33,232.51 (60/70 grade)	38,793.53	2219.69	6.68	8.61	(-) 1.93	(-) 0.72	(-) 1.21
6.	Widening and Strengthening of Ahwa-Navapur Road 6/0 to 43/2 km (working section 6/0 to 25/0 km)	July 2013 August 2013 September 2013	15.29	11.52	January 2014 December 2014 December 2014	46,771 (80/100 grade) 47,732 (60/70 grade)	48,513	319.56	1.60	1.55	0.05	0.11	0.06
	Total		119.97	78.66				9803.663	35.83	42.62	(-) 6.95	0.69	3.70

• (-) sign refers to recovery of difference because the cost of actual purchase of asphalt is less as compared to the star rate adopted at the time of approval of DTP.

Appendix VII
(Reference: Paragraph No. 2.5)
Statement showing excess expenditure for price variation of asphalt

Name of the work	Date of approval of DTP		Tender cost (₹ in crore)		Quantity of asphalt consumed (in MT) and grade	Star rate of asphalt as per tender Rate of approval of DTP ¹ (in ₹ per MT)	Short recovery of variation of asphalt ² (₹ in crore)
	Award of work	Completion of work	Expenditure incurred (₹ in crore)				
Widening of Koth-Arnej-Jawaraj-Gundi Road (km 0 to 14/6)	19 May 2015		12.05		2662.36 (VG 30)	38,008.34	0.41
	December 2015		19.18			39,564.44	
	March 2017						
Widening of selected stretch of Chitrasani-Virampur-Gabbar-Ambaji Road (km 120 to 167)	13 December 2013		7.74		1223.687 (VG 10)	44,704.47	0.73
	February 2014		6.22			50,656.23	
	February 2016						
Widening of Danta- Palanpur Road (km 0 to 36)	29 May 2012		30.08		2843.425 (VG 10)	40,739.81	0.09
	September 2012		36.87			41,052.18	
	March 2014						
Four laning of Vadodara- Dabhoi Road (km 8/3 to 29/6)	19 November 2013		57.49		4892.94 (VG 30)	50,030	0.78
	February 2014		65.48			51,617	
	June 2016						
W/s of Sathod-Chanod road (km 0 to 15)	18 November 2013		10.33		807.97 (VG30)	50,030	0.13
	February 2014		9.33			51,617	
	May 2015						
Total							2.14

¹ Rate which should have been adopted as star rate for the tender.

² (Rate of asphalt on date of approval of DTP minus Star rate adopted as per tender) x Quantity consumed in MT.

Appendix VIII

(Reference: Paragraph No. 2.6)

Statement showing avoidable expenditure

Name of Division	Name of work & Name of contractor	Date of work order/ Stipulation completion/ Actual completion	Estimated cost/ Tender cost/ Work done (₹ in crore)	No. of items in which excess executed	Cost of excess items executed (₹ in crore)	Additional expenditure beyond 30 per cent (₹ in crore)	Remarks
Roads & Buildings Division, Rajkot	Construction of Bypass road around Rajkot City joining Rajkot-Morbi Road SH 24 at Bedi and to NH 8B at village Maliasan, Maliasan Bedi Ring Road M/s. Digvijay Construction Private Limited	November 2013 November 2015 July 2017	36.60 26.71 18.01	5	1.68	0.60	Quantity of excavation in hard road increased from 16,673 cum to 42,333.18 cum which includes 20,658.28 cum quantities in excess of 30 per cent of tender quantities. The contractor quoted rate of ₹ 189 per cum for tender quantity and ₹ 477.10 per cum approved for quantities beyond 30 per cent of tender quantity. The estimate was prepared based on visual inspection.
	Widening & strengthening of Upleta-Kolki-Paneli-Jamjodhpur road between 0 to 26 km under Taluka to Taluka programme M/s. Classic Network Private Limited	December 2012 December 2014 February 2017	34.32 29.08 29.95	18	6.90	0.40	The Government approved excess items at tendered rates only. However, during the period of execution, SoR was revised and rate of asphaltic items reduced. As per SoR 2015-16, rate of ₹ 2,080 per MT was worked out against which division allowed ₹ 2,310 per MT for quantity executed beyond 30 per cent of the tender quantity of 17,255.89 MT. The excess was provided due to estimate prepared in 2011 and no treatment was provided up to 2015-16 due to non-receipt of forest clearance.
Roads & Buildings Division, Surat	Construction of ROB in lieu of LC No. 160 on Kim-Kosamba railway line at Surat_Vadodara Road	February 2012 August 2013 December 2014	28.18 26.59 33.82	19	11.97	0.95	The retaining wall closed the cross road of one side of ROB approach, the Minister, Forests & Environment and on demand of the villagers, constructed high level bridge in lieu of RE wall in length of 132 m. This led to excess execution of ₹ 11.97 crore.
			EC: 99.10 TC: 82.38 WD: 81.78		20.55	1.95	

