

Appendix 2.1.1

(Refer paragraph 2.1.13.1 at page 17)

Details of extra cost due to manual excavation instead of mechanical excavation

Sl. No	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Quantity of earthwork in estimate (in cum)	Rate Provided for earth excavation by manual means (in ₹)	Rate admissible for mechanical means (in ₹)	Excess rate Provided in estimate (in ₹)	Amount of extracost (in ₹)	Tender premium (percentage)	Excess rate after tender premium (in ₹)	Undue benefit to contractors including tender premium (in ₹)	Up to date expenditure (₹ in crore)	Quantity executed (in cum)	Extra amount already paid including tender premium (in ₹)
1	Rehabilitation, extension and modernisation of minor canals of Taladanda canal system from RD 11.780 km to 41.935 km (Mahanadi South Division, Cuttack)	2.30	2.74	49163	32.25	14.25	18	884934	48.70	26.77	1315896.86	2.5	49163	1315896.86
2	Improvement to Genguti right embankment from NH5A Haripur to Chandia from RD 12.00 to 27.930 km	14.94	17.29	456383	53.76	14.25	39.51	18031692.3	16.87	46.18	21073638.83	10.88	448377.86	20703998.79
3	Improvement to Chitrotpala left and Nuna right embankment from Mandia to Godhan via Parakula and K Narayanpur with upgradation of communication facility	5.85	6.88	191280	53.76	14.25	39.51	7557472.80	18.67	46.89	8968452.97	4.4	176679.83	8283901.85

Sl. No	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Quantity of earthwork in estimate (in cum)	Rate Provided for earth excavation by manual means (in ₹)	Rate admissible for mechanical means (in ₹)	Excess rate Provided in estimate (in ₹)	Amount of extracost (in ₹)	Tender premium (percentage)	Excess rate after tender premium (in ₹)	Undue benefit to contractors including tender premium (in ₹)	Up to date expenditure (₹ in crore)	Quantity executed (in cum)	Extra amount already paid including tender premium (in ₹)
4	Improvement to Nuna Karandia right embankment from RD 00 to 37.50 km including protection to scoured bank.	14.65	16.88	490673.34	53.76	14.25	39.51	19386503.70	16.33	45.96	22553010.46	11.55	387388.06	17805668.78
5	Improvement to Chitrotpala left embankment from RD 00 to RD 48.00 km including protection to scoured bank	12.61	14.34	547886	53.76	14.25	39.51	21646975.90	14.93	45.41	24878869.36	11.59	481057.04	21844243.60
6	Protection to scoured bank at village Natara (near Kendupatna) on Chitrotpala left	0.92	1.04	3249.72	53.76	14.25	39.51	128396.43	14.48	45.23	146988.24	1.04	0	0.00
7	Improvement to Mahanadi left embankment in between Chakragarh to Mancheswar including protection to scoured bank.	12.93	13.66	264012.6	55.2	14.25	40.95	10811316	6.51	43.62	11515132.64	8.61	170308.33	7428141.72
8	Improvement to Genguti right embankment from Jaipur to Benapur (Mahanadi North Division, Cuttack)	6.88	7.66	177612.9	55.2	14.25	40.95	7273248.26	12.15	45.93	8157112.98	4.09	138720.33	6370919.03

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Sl. No	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Quantity of earthwork in estimate (in cum)	Rate Provided for earth excavation by manual means (in ₹)	Rate admissible for mechanical means (in ₹)	Excess rate Provided in estimate (in ₹)	Amount of extracost (in ₹)	Tender premium (percentage)	Excess rate after tender premium (in ₹)	Undue benefit to contractors including tender premium (in ₹)	Up to date expenditure (₹ in crore)	Quantity executed (in cum)	Extra amount already paid including tender premium (in ₹)
9	Raising & Strengthening of CE 44(A) Nuna left embankment from Bilabalarampur to Marsaghai (RD 51.20 km to 62.00 km) under NABARD Assistance	14.87	17.16	349641.4	53.76	14.25	39.51	13814331.70	16.52	46.04	16096459.31	9.91	0	0.00
10	Raising & Strengthening to Dasmouzi Gherry (left wing from RD 00 km to RD 8.900 km and right wing from RD 00 km to RD 10.250 km) on river Nuna including Restoration to 13 Nos of old damaged spurs and launching apron under NABARD Assistance	9.92	11.82	340837	53.76	14.25	39.51	13466469.90	20.38	47.56	16210936.43	9.84	323396.75	15381440.85
11	Raising & Strengthening to Chitrotpala right embankment from RD 28.590 to 65.150 km including restoration of 6 Nos. of old damaged spurs and launching apron under NABARD Assistance (Kendrapara Irrigation Division)	14.61	17.49	497504.39	53.76	14.25	39.51	19656398.40	20.88	47.76	23760654.45	20.49	618196.31	29524862.89

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12	Raising & strengthening of river embankments of Devi left & Biluakhai right in 22 mauza island	6.65	7.5	261368	53.76	14.25	39.51	10326649.70	13.97	45.03	11769282.64	8.01	260910.33	11748673.97
13	Protection to Talada Island and Tarasahi gherry on Devi left embankment	16.12	19.88	183452	53.76	14.25	39.51	7248188.52	24.93	49.36	9055161.92	18.88	133312.12	6580265.31
14	Renovation of spurs at Daleighai of Kathajodi left embankment from RD 7.80 km to 14.60 km (Jagatsinghpur Irrigation Division)	12.67	13.80	10234.6	53.76	14.25	37.65	385332.69	9.92	41.38	423557.69	13.33	9522.45	394085.45
15	Restoration to Chakua Marthapur OAE on Patia left from Chakua to Marthapur	1.39	1.28	40099.28	33.15	14.25	18.90	757876.392	-18.62	15.38	616759.81	1.28	40099.28	616759.81
16	Construction of drainage sluice at the outfall point of Chhinda-Kharasuan at RD 10.41km of Sribantapur-Khanditara OAE	4.82	5.03	8243	33.15	14.25	18.90	155792.70	2.43	19.36	159578.46	4.93	9015	174523.82

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Sl. No	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Quantity of earthwork in estimate (in cum)	Rate Provided for earth excavation by manual means (in ₹)	Rate admissible for mechanical means (in ₹)	Excess rate Provided in estimate (in ₹)	Amount of extracost (in ₹)	Tender premium (percentage)	Excess rate after tender premium (in ₹)	Undue benefit to contractors including tender premium (in ₹)	Up to date expenditure (₹ in crore)	Quantity executed (in cum)	Extra amount already paid including tender premium (in ₹)
17	Restoration to Nasidpur-Hamzapur TRE & Badanarra TRE on Sagadia Nallah left	4.57	4.74	21984.80	53.76	14.25	39.51	868619.44	6.52	42.09	925253.44	4.61	20064.97	844455.37
18	Improvement to CE No.13A on Ganda left from Jokadia to Jajpur road (RD 00 to 5000m)	4.51	4.04	39287	33.15	14.25	18.90	742524.30	-9.40	17.12	672727.02	4.43	46102	789422.99
19	Improvement to CE No.26(A) from Bhuban to Kaima Bridge and Budhalinga Majhipada OAE from Rampur to Kadampal on Kelua right	3.35	3.61	118422	32.26	14.25	18.01	2132780.22	6.98	19.27	2281648.28	3.47	118422	2281648.28
20	Restoration to CE No.27A on Brahmani right from Manjuripada to Malahatta (RD 00 to 2720m) (Jaraka Irrigation Division)	2.97	2.50	21369	56.12	14.25	41.87	894720.03	-14.99	35.59	760601.50	2.50	21846.34	777591.79
	TOTAL	167.53	189.34	4072703				156170223.3			181341723	156.34	3452582	152866501.2

Appendix 2.1.2

(Refer paragraph 2.1.13.2 at page 18)

Details of undue payment due to adoption of excessive hire charges of Dozer

Sl. No	Name of the work /Division	Tender premium (In Percentage)	Agreement amount (₹in lakh)	Up to date expenditure (₹in lakh)	Agreement quantity (in cum)	Rate provided (in ₹)	Rate admissible (in ₹)	Excess rate (in ₹)	Excess amount (in ₹)	Eexcess rate after tender premium (in ₹)	Extra Cost after tender premium (₹ in lakh)	Quantity executed (in cum)	Extra expenditure already incurred (₹ in lakh)
1	Restoration to FPE at Habaleswar left embankment of Baitarani river at RD 6.700 km. (RIDF-XX)	-14.99	334.85	263.17	113475.00	140.60	121.00	19.60	2224110.00	16.66	18.91	102134.90	17.02
2	Improvement to flood protection embankment on Baitarani left from village Anandpur to Tarava Bareswar (RIDF-XX)	6.49	1215.33	995.85	254666.23	140.60	121.00	19.60	4991458.11	20.87	53.15	276848.53	57.78
3	Bank protection work including raising & strengthening of right side of river Baitarani from Khaparakhai to Panchupalli (RIDF-XX)	4.95	1578.57	896.30	300012.77	140.60	121.00	19.60	5880250.29	20.57	61.71	10523.19	2.16
4	Improvement to OAE No.5a(B) on Baitarani left from Moreigaon to Balipur from RD 00 km to 19.400 km. (RIDF-XX) Baitarani Irrigation Division, Salapada	-12.72	1279.68	892.63	595284.20	140.60	121.00	19.60	11667570.32	17.11	101.83	545049.32	93.24

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5	Protection to scoured bank on Baitarani left from Mamadula to Tala Astak under NABARD Assistance (RIDF-XX)	-14.99	843.95	387.45	295356.00	194.60	175.00	19.60	5788977.60	16.66	49.21	179631.90	29.93
6	Protection to scoured bank on OAE No. 12(abcd)B on Baitarani left near Village Dasandhikula and Dasandhikul Gherry under NABARD(RIDF-XX)	-10.25	482.86	369.28	100027.74	194.60	175.00	19.60	1960543.70	17.59	17.60	91805.25	16.15
7	Protection to scoured bank on Baitarani left from Gandhighat to Sundarpur under NABARD Assistance RIDF Jajpur Irrigation Division, Jajpur	-14.99	756.25	316.47	136892.00	194.60	175.00	19.60	2683083.20	16.66	22.81	84677.55	14.11
8	Protection to Bairatani left from Biridi to NH-5 at Akhuapada	-12.50	1566.48	454.69	272663.90	194.60	175.00	19.60	5344212.44	17.15	46.76	263672.00	45.22
9	Protection to scoured bank on Baitarani left from Sathibankuda to Bodak under NABARD Assistance (RIDF-XX)	-14.99	707.66	522.48	118245.00	194.60	175.00	19.60	2317602.00	16.66	19.70	92365.75	15.39

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10	Restoration to scoured bank on Kochila right from Ramarakul Hasanabad under NABARD Assistance (RIDF-XX)	-11.70	1309.91	463.52	309799.00	194.60	175.00	19.60	6072060.40	17.31	53.62	224389.00	38.83
11	Protection to scoured bank on Baitarani left from Anandapur to Gourangapur Escape under NABARD Assistance (RIDF-XX)	-14.99	733.01	510.59	248017.76	194.60	175.00	19.60	4861148.10	16.66	41.32	209992.00	34.99
12	Improvement to communication facility of C.E. No. 5A from RD 6.550 km to 23.050 km on Budha Kharasua left from Budha ghat to Singhpur.	-14.99	997.99	659.29	451319.20	194.60	175.00	19.60	8845856.32	16.66	75.20	382101.86	63.67
13	Raising and Strengthening and protection to Kharsuan right embankment Tantighai to Mahamadjamapur under NABARD Assistance (RIDF-XX)	-11.77	722.85	573.61	213484.00	194.60	175.00	19.60	4184286.40	17.29	36.92	207791.40	35.93

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14	Restoration to scoured bank on Kochila left from Athagharria to Pangata under NABARD Assistance (RIDF-XX)	-14.99	1271.71	626.24	354534.00	194.60	175.00	19.60	6948866.40	16.66	59.07	244413.00	40.72
15	Renovation of Jajpur Main canal from RD 00 to 10.144 km. (Working RD 00 to 3.150 km Reach-I)	-7.90	851.95	491.65	25400.00	194.55	174.95	19.60	497840.00	18.05	4.59	14412.14	2.60
16	Renovation of Jajpur Main canal from RD 00 to 10.144 km. (Working RD 3.150 km to 6.300 km Reach-II)	-7.70	846.74	831.05	23922.00	194.55	174.95	19.60	468871.20	18.09	4.33	23358.20	4.23
17	Renovation of Jajpur Main canal from RD 00 to 10.144 km. (Working RD 6.300 km to 10.144 km Reach-III)	9.50	1194.70	939.84	31468.00	194.55	174.95	19.60	616772.80	21.46	6.75	24994.15	5.36
18	Renovation of distributary No. 2 of Jajpur Main canal under C.L.S.R.P. (Working RD 17.500 km to 24.180 km) Jajpur Irrigation Division, Jajpur	4.75	800.45	106.35	74642.00	194.55	174.95	19.60	1462983.20	20.53	15.32	24086.00	4.95

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19	Improvement to the embankment top road on old Marahata Bundha in Kanika block under IRC&IS	7.75	484.56	335.07	55249.79	194.60	175.00	19.60	1082895.88	21.12	11.67	62881.57	13.28
20	Improvement to road on Gopalpur Akhadasahi OAE embankment from RD 964m to 12200m in Mahakalapada Block under IRC&IS	-5.65	619.83	564.02	193615.60	194.60	175.00	19.60	3794865.76	18.49	35.80	186348.13	34.46
21	Improvement to road on Dangamal Dalkhai saline embankment from RD 0.800 km to 8.300 km with construction of 2 Nos. of sluice in Rajnagar Block under IRC&IS	-11.06	397.26	283	30546.36	194.60	175.00	19.60	598708.66	17.43	5.32	24196.73	4.22
22	Improvement to road over Aul Ring Bundha for a length of 10.940 km (working length 13.840 km) in Aul Block under IRC&IS Aul Embankment Division, Aul	-4.95	866.10	522.19	264328.00	194.60	175.00	19.60	5180828.80	18.63	49.24	209570.66	39.04
23	Improvement to left bank of Kendrapara Canal from RD 44.00 to 56.00 km with communication facility from Gahaga to Kalapada	-3.60	572.90	440.2	67496.75	194.60	175.00	19.60	1322936.30	18.89	12.75	67005.50	12.66

Sl. No	Name of the work /Division	Tender premium (In Percentage)	Agreement amount (₹in lakh)	Up to date expenditure (₹in lakh)	Agreement quantity (in cum)	Rate provided (in ₹)	Rate admissible (in ₹)	Excess rate (in ₹)	Excess amount (in ₹)	Excess rate after tender premium (in ₹)	Extra Cost after tender premium (₹ in lakh)	Quantity executed (in cum)	Extra expenditure already incurred (₹ in lakh)
24	Restoration & Protection to Kodakan gherry and Paika left embankment including construction and repair of spurs and launching apron and construction of drainage sluice near Nilachal Bazar	6.00	2563.18	1936.87	66251.95	194.60	175.00	19.60	1298538.22	20.78	13.76	79482.78	16.51
25	Raising and strengthening to CE No.34(b)A Brahmani right from RD 68.330 to 76.400 km	8.70	1315.26	827.35	174420.33	194.60	175.00	19.60	3418638.47	21.31	37.16	174064.02	37.08
26	Raising and strengthening to CE No.34(b)A Brahmani right from RD 76.400 to 80.500 km	9.98	651.35	248.33	111592.35	194.60	175.00	19.60	2187210.06	21.56	24.05	97665.07	21.05
27	Raising and strengthening to CE No.34(b)A Brahmani right from RD 62.15 to 68.330 km Kendrapara Irrigation Division, Kendrapara	4.95	1076.47	309.47	235155.95	194.60	175.00	19.60	4609056.62	20.57	48.37	142572.70	29.33
28	Flood protection to Gop Branch canal and Kushabhadra left embankment from RD 00 to 38.50 km (Andilo to Nimapara)	-14.99	778.10	666.18	277285.61	194.60	175.00	19.60	5434797.94	16.66	46.20	239693.40	39.94

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29	Improvement to service road on Kakatpur Branch canal from RD 29.30 km to 36.10 km under IRC & IS	3.50	256.64	247.85	19516.10	194.60	175.00	19.60	382515.56	20.29	3.96	20233.39	4.10
30	Improvement to service road of Puri Main canal from RD 00 to 16.00 km IRC & IS	-10.51	855.15	897.15	74945.00	194.60	175.00	19.60	1468922.00	17.54	13.15	74945.00	13.15
31	Protection to Daya right embankment alongwith communication facility from village Aragarh to Tirumal	-14.99	724.35	458.23	192300.00	194.60	175.00	19.60	3769080.00	16.66	32.04	155883.43	25.97
32	Protection and strengthening of Daya right embankment alongwith communication facility from RD 10.00 to 16.00 km	-13.50	574.93	282.96	125296.64	194.60	175.00	19.60	2455814.14	16.95	21.24	125296.64	21.24
33	Strengthenig of Daya right embankment alongwith communication facility from village Kakudia to Railway Crossing RD 18.00 to 23.60 km Prachi Irrigation Division, Prachi	-5.90	508.42	415.24	128003.00	194.60	175.00	19.60	2508858.80	18.44	23.61	106493.79	19.64

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34	Improvement to service road on left bank of Disty No-10 from RD 00 km to 3.220 km	-5.10	271.73	233.21	26268.98	194.60	175.00	19.60	514872.01	18.60	4.89	20280.26	3.77
35	Improvement to service road on left bank of Disty No-13 from RD 4.730 km to 12.330 km Irrigation Division, Jagatsinghpur	7.00	428.79	162.25	42944.00	194.60	175.00	19.60	841702.40	20.97	9.01	37900.15	7.95
36	Protection to Bhagabanpur gherry on Kelua right under RIDF-XXI	0.03	381.80	322.99	58365.00	197.40	177.10	20.30	1184809.50	20.31	11.85	54209.11	11.01
37	Improvement to Kelua left embankment from Narasinghpur to Niraghata and Rahapada to Mohanpur	-11.20	545.02	166.7	145631.97	194.70	175.10	19.60	2854386.61	17.40	25.35	60719.47	10.57
38	Restoration to right bank of HLC range II on Kharasuan left from RD 00 to 11020 mtr under RIDF-XX Jaraka Irrigation Division, Jaraka	-7.52	658.11	658.08	122205.50	194.60	175.00	19.60	2395227.80	18.13	22.15	122205.50	22.15
	Total-		32024.89	20277.80	6330627.68				124121158.01		1140.40	5063893.44	909.42

Appendix 2.1.3

(Refer paragraph 2.1.13.3 at page 18)

Details of extra cost due to adoption of higher capacity crane

Sl. No	Name of the work	Estimated cost (₹ In lakh)	Agreement value (₹ In lakh)	Up to date expenditure (₹ In lakh)	Quantity (in cum)	Rate taken for loading/rehandling per cum (in ₹)	Rate admissible per cum (in ₹)	Extra cost per cum (in ₹)	Total extra cost (₹ in lakh)	Tender premium (In percentage)	Excess rate after tender premium (in ₹)	Extra cost including tender premium (₹ in lakh)	Quantity executed (in cum)	Extra amount already paid including tender premium (₹ in lakh)
1	Restoration and protection to damaged bank at Chandrabali village near Kirtania fishery jetty	1266.29	1126.8	1120.62	53371.20	2371.90	2127.32	244.58	130.54	-11.02	217.63	116.15	53081.00	115.52
2	Restoration and protection to left bank of Subarnarekha near village Gobarghata Bairataadi to Madhabpur for 2014-15	395.55	345.57	327.12	10151.00	2216.90	1974.87	242.03	24.57	-12.63	211.46	21.47	10140.24	21.44
3	Restoration and protection to left bank of river Subarnarekha near village Manikchak, Sekhbad and Jhabeswarpur(Jaleswar Town)	538.53	475.52	310.30	11704.02	2056.20	1812.37	243.83	28.54	-11.70	215.30	25.20	8910.85	19.19
4	Restoration and protection work Kankadapal for the year 2015-16	351.42	298.74	289.10	9604.14	2218.00	1975.18	242.82	23.32	-24.75	182.72	17.55	10278.08	18.78

Sl. No	Name of the work	Estimated cost (₹ In lakh)	Agreement value (₹ In lakh)	Up to date expenditure (₹ In lakh)	Quantity (in cum)	Rate taken for loading/rehandling per cum (in ₹)	Rate admissible per cum (in ₹)	Extra cost per cum (in ₹)	Total extra cost (₹ in lakh)	Tender premium (In percentage)	Excess rate after tender premium (in ₹)	Extra cost including tender premium (₹ in lakh)	Quantity executed (in cum)	Extra amount already paid including tender premium (₹ in lakh)
5	Restoration of two Nos. of old damaged spur including construction of launching and packing on right bank of river Subarnarekha near village Mankidia	256.28	217.84	217.84	8183.47	2215.10	1974.87	240.23	19.66	-15.03	204.12	16.70	8348.70	17.04
6	Restoration and protection work on left bank river Subarnarekha at village Kumbhigadi near Bhusandeswar temple. Balasore Irrigation Division	251.37	213.69	97.98	6896.06	2332.90	2102.87	230.03	15.86	-14.99	195.55	13.49	3157.81	6.18
7	Restoration and protection to scoured bank on Devi Right embankment from RD 73.00 km to 74.00 km near village Bainapada	306.78	322.09	322.09	8177.20	1677.80	1533.78	144.02	11.78	0.88	145.29	11.88	8177.20	11.88
8	Protection to Kusabhadra Left Embankment from RD 38.500 Km to 57.00km under RIDF-XX	867.52	737.48	725.10	9611.79	1654.20	1434.30	219.90	21.14	-14.99	186.94	17.97	9609.78	17.96

Sl. No	Name of the work	Estimated cost (₹ In lakh)	Agreement value (₹ In lakh)	Up to date expenditure (₹ In lakh)	Quantity (in cum)	Rate taken for loading/rehandling per cum (in ₹)	Rate admissible per cum (in ₹)	Extra cost per cum (in ₹)	Total extra cost (₹ in lakh)	Tender premium (In percentage)	Excess rate after tender premium (in ₹)	Extra cost including tender premium (₹ in lakh)	Quantity executed (in cum)	Extra amount already paid including tender premium (₹ in lakh)
9	Raising and strengthening with slope protection work by providing launching and packing of Jharling- Belanga saline embankment from RD 22.00 km to 29.00 km under ADB assistance	1070.05	1321.54	1197.86	4787.20	1714.85	1607.11	107.74	5.16	23.92	133.51	6.39	4056.26	5.42
10	Protection to Bhargabi Left Embankment from 19.00 km to 34.00 km	643.99	600.17	548.80	5045.60	1464.80	1340.98	123.82	6.25	2.40	126.79	6.40	4833.52	6.13
11	Construction of high level spur at RD 80.50 km, 80.200 km and 80.800km of Devi Right embankment near Sathiabati	698.17	593.45	593.45	19371.60	1614.50	1411.35	203.15	39.35	-12.45	177.86	34.45	19371.60	34.45
12	Bank protection to left bank of Kushabhadra River near village Tikina, khalakatapatna & Protection to Ramchandi Temple	370.61	329.46	329.46	10247.58	1603.20	1474.70	128.50	13.17	-8.06	118.14	12.11	10245.26	12.10
13	Raising and strengthening of Kusabhadra Right embankment from RD.41 to 56 km.Nimapara Irrigation Division	1286.47	1059.62	429.89	5097.00	1712.60	1513.08	199.52	10.17	-14.99	169.61	8.65	0.00	0.00

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Sl. No	Name of the work	Estimated cost (₹ In lakh)	Agreement value (₹ In lakh)	Up to date expenditure (₹ In lakh)	Quantity (in cum)	Rate taken for loading/rehandling per cum (in ₹)	Rate admissible per cum (in ₹)	Extra cost per cum (in ₹)	Total extra cost (₹ in lakh)	Tender premium (In percentage)	Excess rate after tender premium (in ₹)	Extra cost including tender premium (₹ in lakh)	Quantity executed (in cum)	Extra amount already paid including tender premium (₹ in lakh)
14	Restoration to Kathajodi Right Embankment near village Brahmanigaon	1012.09	1149.60	0.00	20554.00	1675.00	1448.60	226.40	46.53	13.59	257.17	52.86	0.00	0.00
15	Flood Protection to Gop Branch canal & Kushabhadra left embankment at Bhanra under RIDF	563.74	483.26	483.26	11025.00	1689.00	1448.60	240.40	26.50	-14.28	206.07	22.72	11025.00	22.72
16	Protection and communication facility to right flood bank of river Mahanadi near Sanamundali from RD 00 to 1900 mtr under RIDF.Prachi Irrigation Division	695.45	591.20	621.40	10731.00	1689.00	1448.60	240.40	25.80	-14.99	204.36	21.93	14009.00	28.63
	Total	10574.31	9866.03	7614.27	204557.86				448.33			405.90	175244.30	337.44

Appendix 3.1.1

(Refer paragraph 3.1 at page 31)

Details of interest on delayed payment of Net Present Value not realised

Sl. No.	Name of the Division	Name of the lessee	Amount of NPV paid (in ₹)	Date of issue of demand notice	Due date of payment	Date of payment	period of delay (in days)	Total interest due @ 9 per cent per annum (in ₹)	Interest paid	Balance due (in ₹)
1	Angul	Bharatpur Open Cast Mining for 70.94 Ha.	22204220	6/19/2010	7/18/2010	8/7/2013	1115	6104640	0	6104640
2		Mahanadi coal field ltd(MCL)OCM in Hingula OCP expansion phase iii in Chhendipada and Talcher Tahasil of district Angul for 440.53 Ha.	413657670	2/10/2015	3/11/2015	3/31/2015	20	2039956	0	2039956
3	Cuttack	M/s Jindal Stainless Ltd.	46939786	5/20/2015	6/19/2015	8/31/2015	73	844916	0	844916
4	Jharsuguda	Diversion of 1300.935 ha of under ground mining of Mahanadi Coalfield Ltd (MCL)	58303209	2/26/2014	3/27/2014	4/16/2014	20	287523	0	287523
5		Ib Property Colliery 75.570 ha (NPV) (within 1300.935 ha)	2796029	6/4/2010	7/3/2010	7/27/2010	24	16546	0	16546
6			20857381	6/4/2010	7/3/2010	8/17/2010	45	231431	0	231431
7		Rampur colliery 370.979 ha (NPV) (within 1300.935 ha)	58525679	6/4/2010	7/3/2010	7/27/2010	24	346344	0	346344
8			29077971	6/4/2010	7/3/2010	8/17/2010	45	322646	0	322646
9		Belpahar OCP 174.354 ha (NPV)	109145604	6/14/2010	7/13/2010	8/7/2010	25	672815	0	672815
10		Lajkura OCP 159.18 ha (NPV)	49823340	9/27/2014	10/26/2014	1/12/2015	78	958246	0	958246
11		Gondghora colliery (NPV) Diversion of 58.032 ha underground & 5.043 ha surface area	17759148	6/4/2010	7/3/2010	7/27/2010	24	105095	0	105095

Sl. No.	Name of the Division	Name of the lessee	Amount of NPV paid (in ₹)	Date of issue of demand notice	Due date of payment	Date of payment	period of delay (in days)	Total interest due @ 9 per cent per annum (in ₹)	Interest paid	Balance due (in ₹)
12		Gondghora colliery (NPV) Diversion of 58.032 ha underground & 5.043 ha surface area	7511262	6/4/2010	7/3/2010	8/17/2010	45	83344	0	83344
13		NW Block Gandghora colliery (NPV)(Forest land 335.409 ha)	157474525	6/4/2010	7/3/2010	7/27/2010	24	931904	0	931904
14	Chandaka (WL)	Fire Clay mining of M/s Tata Refractories Ltd., Belapahar	42705000	6/16/2010	7/15/2010	8/2/2010	18	189540	0	189540
TOTAL			1036780824				18 to 1115	13134946	0	13134946

Appendix 3.2.1
(Refer paragraph 3.2 at page 32)
Details of timber and poles not disposed

Sl. No	Name of the Division	No. of cases	Volume in cft. (Size)	Rate (in ₹)	Money value (in ₹)	Volume of Logs (cft)	Rate (in ₹)	Money value (in ₹)	No. of Poles	Rate (in ₹)	Money value (in ₹)	Fire wood (Stack)	Rate (in ₹)	Money value (in ₹)	Total Money value (in ₹)
1	Athagarh	19	14.476	317	4588.892	72.992	244	17810	245	32	7840				30239
									182	55	10010				10010
									2	45	90				90
2	Cuttack	11	69.37	317	21990.290	117.66	244	28709	5	45	225				50924
									90	32	2880				2880
3	Dhenkanal	39	91.978	317	29157.026	510.087	244	124461	4	45	180				153798
									6	55	330				330
									91	32	2912				2912
4	Athamallik	18	7.002	317	2219.634	242.519	244	59175	180	32	5760				67154
									40	55	2200				2200
5	Angul	69	164.5195	317	52153	587.288	244	143298	66	32	2112				197563
									204	55	11220				11220
									15	42	630				630
6	Phulbani	10	13.8	317	4375	108.49	244	26472	4	45	180				31026
7	Subarnapur	49	51.291	317	16259	319.405	244	77935	434	32	13888				108082
									100	45	4500				4500
									173	55	9515				9515
8	Khordha	54	429.5815	317	136177	906.23115	244	221120	0	0	0				357298
9	Sambalpur	36	206.001	317	65302	215.314	244	52537	44	55	2420				120259

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Sl. No	Name of the Division	No. of cases	Volume in cft. (Size)	Rate (in ₹)	Money value (in ₹)	Volume of Logs (cft)	Rate (in ₹)	Money value (in ₹)	No. of Poles	Rate (in ₹)	Money value (in ₹)	Fire wood (Stack)	Rate (in ₹)	Money value (in ₹)	Total Money value (in ₹)
10	Bargarh	39	141.632	317	44897	754.557	244	184112	2180	32	69760				298769
11	Jharsuguda	7	73.67	317	23353	75.79	244	18493	40	32	1280				43126
12	Chandaka	27	0	317	0	391.987	244	95645	75	45	3375				99020
13	Satkosia (WL) Angul	20	163.55	317	51845	275.273	244	67167	0	0	0				119012
14	Ghumsur (N)	6	0	317	0	92.23	244	22504	0	0	0				22504
15	Rourkela	87	3026.074	317	959265	100.18	244	24444	78	32	2496				986205
16	Ghumsur (S)	21	136.88	317	43391	221.54	244	54056	0	0	0				97447
17	Baripada	250	318.9	317	101091	871.97	244	212761	309	55	16995	127.5	385	49088	379934
18	Bonai	11	5.035	317	1596	424.9346	244	103684	0	0	0	48	385	18480	123760
19	STR, Baripada	44	98.05	317	31082	0	244	0	4	55	220	1	385	385	31687
20	Rayagada	61	180.29	317	57152	583.356	244	142339	17	32	544				200035
21	Karanjia	18	52.23	317	16557	57.78	244	14098	41	55	2255				32910
22	Nayagarh	68	111.91	317	35475	200.957	244	49034	376	45	16920	0.895	385	345	101774
23	Keonjhar	16	120.88	317	38319	535.81	244	130738	0	0	0				169057
24	Parlakhemundi	12	0	317	0	269.9759	244	65874	0	0	0				65874
25	Kalahandi (S)	15	55.0913	317	17464	253.6872	244	61900	7	32	224				79588
26	Sundargarh	7	12.01	317	3807	129.86	244	31686	0	0	0				35493
27	Koraput	18	522.6229	317	165671	172.545	244	42101	2	32	64				207836
28	Balliguda	19	57.296	317	18163	966.5259	244	235832	129	32	4128				258123
	TOTAL	1051	6124.14		1941352	9458.9448		2307983	5143		195153	177.395		68297	4512785

Log and size = (6124.14cft + 9458.945 cft) = 15583.08 cft

Appendix 3.3.1

(Refer paragraph 3.3 at page 33)

Details of extra cost on purchase of Gabion

Sl. No.	Name of the Division	Year of purchase	Total amount paid (in ₹)	Quantity purchased (in numbers)	Rate per gabion paid (in ₹)	Rate of gabion as per norm (in ₹)	Excess amount paid per gabion (in ₹)	Total excess amount paid (in ₹)
1	Jharsuguda	2015-16	58800	56	1050	253	797	44632
			809551	809	1000.6811	253	747.68109	604874
2	Rourkela	2015-16	10023295	6992	1433.5376	253	1180.5376	8254319
3	Baripada	2015-16	3054500	1974	1547.3658	175	1372.3658	2709050
4	Rayagada	2015-16	1069010	1042	1025.9213	175	850.92131	886660
		2016-17	620500	590	1051.6949	253	798.69492	471230
5	Malkangiri	2015-16	1015562	1270	799.65512	175	624.65512	793312
		2016-17	1340000	2000	670	253	417	834000
		2016-17	1400000	2000	700	253	447	894000
6	Koraput	2013-14	400000	500	800	175	625	312500
		2014-15	495000	550	900	175	725	398750
		2015-16	1473100	1574	935.89581	253	682.89581	1074878
		2016-17	532000	560	950	253	697	390320
	Total		22291318	19917				17668525

Appendix 3.4.1

(Refer paragraph 3.4 at page 34)

Details of avoidable extra cost on cement concrete

Sl. No.	Name of the Work	Estimated cost (₹ in lakh)	Agreement value (₹ in lakh)	Expenditure	Length (in metre)	CC M-15 rate (in ₹)	CC M-15 Quantity provided (in cum)	Quantity required (in cum)	Excess quantity (in cum)	Extra cost (in ₹)
1	Construction of water courses including all structures under WUA11 of Golamunda Distributary	157.36	133.78	13.37	5581.78	4345.90	2249.79	648.88	1600.91	6957387
2	Construction of water courses including all structures under WUA-02 of Golamunda Distributary.	128.83	109.51	104.44	4186.91	4259.00	1750.54	486.73	1263.81	5382574
3	Construction of water courses including all structures of Dumerguda S/M and Kandamal S/M under WUA-09 of Golamunda Distributary.	82.44	70.08	55.85	3645.00	4345.90	1092.55	423.73	668.82	2906619
4	Construction of water courses including all structures from RD 2130 m to 2580 m of Panjia Disty. under WUA-09 of Golamunda Distributary.	81.52	69.30	46.68	3730.00	4345.90	1135.24	433.61	701.63	3049203
5	Construction of water courses including all structures from RD 3060M to RD 3690M of Panjia Distributary under WUA-09 of Golamunda Distributary.	87.77	74.61	74.62	3915.00	4345.90	1180.81	455.12	725.69	3153782
6	Construction of water courses including all structures from RD 22980 m to 23825 m of Golamunda Distributary of Kernunda S/M, RD 60 m to 1748 m of Panjia Distributary under WUA-09 of Golamunda Distributary.	83.06	70.61	70.61	3580.00	4345.90	1833.13	416.18	1416.96	6157945

Sl. No.	Name of the Work	Estimated cost (₹ in lakh)	Agreement value (₹ in lakh)	Expenditure	Length (in metre)	CC M-15 rate (in ₹)	CC M-15 Quantity provided (in cum)	Quantity required (in cum)	Excess quantity (in cum)	Extra cost (in ₹)
7	Construction of water courses including all structures under WUA-12 of Golamunda Distributary.	79.30	67.41	54.90	3690.00	4356.80	1121.39	428.96	692.43	3016768
8	Construction of field channel including all structures from RD 14080m to 18650m of Golamunda Distributary. under WUA-07	73.16	62.19	55.62	2895.00	4418.60	792.54	336.54	456.00	2014865
9	Construction of field channel including all structures of Kirkakani S/N-I, S/M-II, S/M-III and S/M-IV, Tipiguda S/M and Banjipadar S/M-I off-taking from Golamunda Distributary under WUA-07	83.68	71.13	68.81	3730.00	4418.60	1124.17	433.61	690.56	3051297
10	Construction of field channel including all structures of Luhagaon S/M from RD 180 m to 975 m and 2T & FC-2T(FC-1R) of Kanagaon S/M-II under WUA-06 of Golamunda Distributary.	79.49	67.57	35.48	2830.00	4386.10	726.71	328.99	397.72	1744451
11	Construction of field channel including all structures from RD 20225 m to 20780m and Kirkakani Minor off-taking from RD 17780m of Golamunda Distributary under WUA-07	90.26	76.73	69.15	3740.00	4418.60	1054.73	434.78	619.96	2739333
12	Construction of field channel including all structures of Luhagaon Minor (LHGM) -1L, 25L under WUA-06 of Golamunda Distributary.	79.4	67.49	35.40	2910.00	4386.10	875.76	338.29	537.47	2357408
13	Construction of water courses including all structures under WUA-08 of Golamunda Distributary.	275.00	233.78	217.21	12436.62	4345.90	3537.34	1445.76	2091.58	9089810

Sl. No.	Name of the Work	Estimated cost (₹ in lakh)	Agreement value (₹ in lakh)	Expenditure	Length (in metre)	CC M-15 rate (in ₹)	CC M-15 Quantity provided (in cum)	Quantity required (in cum)	Excess quantity (in cum)	Extra cost (in ₹)
14	Construction of field channel of Golamunda Distributary under WUA No.17.	303.08	257.65	257.65	10345.00	4449.90	4890.92	1202.61	3688.31	16412627
15	Construction of field channel including all structures under WUA-23 of Golamunda Distributary.	368.21	313.01	313.00	13715.00	4561.80	4485.57	1594.37	2891.20	13189082
16	Construction of field channel of Golamunda Disty. Under WUA No. 03.	187.06	159.02	159.00	8870.00	4341.20	2597.55	1031.14	1566.41	6800110
17	Construction of field channel under WUA-18 of Golamunda Distributary.	327.26	278.21	278.18	13760.00	4460.70	4809.37	1599.60	3209.77	14317821
18	Construction of field channel including all structures of Chilpa S/M-I from RD 850m to 1450m under WUA No. 1	50.86	43.24	13.75	2665.00	4299.80	828.06	309.81	518.25	2228387
19	Construction of field channel including all structures of outlet No. 27L to 33L & 5R WUA No. 10 of Golamunda Distributary.	68.92	58.59	58.57	3605.00	4425.20	1087.40	419.08	668.32	2957444
20	Construction of field channel including all structures of Golamunda Distributary under WUA No. 14(B)	30.16	25.64	19.88	1440.00	4427.70	446.40	167.40	279.00	1235328
21	Construction of field channel including all structures of Amtha Minor from RD 360 m to 2644 m under WUA No. 20 of Golamunda Distributary	70.09	59.58	59.57	3010.00	4546.40	913.72	349.91	563.81	2563294
22	Construction of field channel including all structures of Golamunda Distributary from RD 00 m to 590 m and Chilpa S/M-I 00 m to 200 m under WUA No. 1	69.24	58.86	41.30	3615.00	4299.80	1104.00	420.24	683.76	2940015

Sl. No.	Name of the Work	Estimated cost (₹ in lakh)	Agreement value (₹ in lakh)	Expenditure	Length (in metre)	CC M-15 rate (in ₹)	CC M-15 Quantity provided (in cum)	Quantity required (in cum)	Excess quantity (in cum)	Extra cost (in ₹)
23	Construction of field channel including all structures of Amtha Minor from RD 00 m to 360 m under WUA No. 20 of Golamunda Distributary	71.91	61.13	61.13	3490.00	4546.40	1108.33	405.71	702.62	3194380
24	Construction of field channel including all structures of Farang S/M-II from RD 465 m to 787 m under WUA No. 20 of Golamunda Distributary	80.08	$\frac{68.07}{68.05}$	68.05	2910.00	4546.40	862.88	338.29	524.59	2385007
25	Construction of field channel including all structures of outlet No. 24L, 25L, 26L & 4R of WUA No. 10 of Golamunda Distributary	72.96	62.01	62.01	3565.00	4425.20	1076.56	414.43	662.13	2930052
26	Construction of field channel including all structures of Farang S/M-II from RD 00 m to 465 m under WUA No. 20 of Golamunda Distributary	86.79	73.78	70.09	3275.00	4546.40	948.45	380.72	567.73	2581133
27	Construction of field channel including all structures of Golamunda Distributary from RD 40350 m to 40760 m and Farang S/M-I under WUA No. 20 of Golamunda Distributary	139.02	118.18	44.73	5540.00	4546.40	1596.76	644.03	952.74	4331514
28	Construction of field channel including all structures of Sandhikulihari S/M-I, II off taking RD 3455 m of Golamunda Distributary under WUA No. 1	50.72	43.12	29.19	2630.00	4299.80	841.19	305.74	535.45	2302339

Sl. No.	Name of the Work	Estimated cost (₹ in lakh)	Agreement value (₹ in lakh)	Expenditure	Length (in metre)	CC M-15 rate (in ₹)	CC M-15 Quantity provided (in cum)	Quantity required (in cum)	Excess quantity (in cum)	Extra cost (in ₹)
29	Construction of field channel including of all structure of Golamunda Distributary under WUA No. 14(A)	88.07	74.87	40.90	3345.00	4427.70	829.25	388.86	440.39	1949931
30	Construction of field channel including all structures of outlet No. 6R to 11L of WUA No. 10 of Golamunda Distributary.	76.71	65.21	53.33	3770.01	4425.20	1135.84	438.26	697.58	3086915
31	Construction of field channel including of all structure of Golamunda Distributary under WUA No. 14(C)	59.74	50.78	35.13	2630.00	4427.70	750.20	305.74	444.46	1967947
32	Construction of field channel including all structures under WUA No. 5 of Golamunda Distributary	129.00	109.67	26.20	6925.00	4450.30	1918.15	805.03	1113.12	4953712
33	Construction of field chanel including all structures of Golamunda Distributary under WUA No. 13(B)	65.65	55.81	0.00	3065.00	4427.70	901.95	356.31	545.64	2415947
34	Construction of filed channel includng of all strcutures of Golamunda Distributary under WUA No. 13(A)	73.06	62.10	18.11	3890.00	4427.70	935.48	452.21	483.27	2139764
35	Construciton of field channel including all structures from RD 1200 m to RD 2640 m of Tipiguda Minor under WUA No 04 of Golamunda Distributary	60.90	51.77	33.03	3090.00	4435.30	932.97	359.21	573.76	2544787

Sl. No.	Name of the Work	Estimated cost (₹ in lakh)	Agreement value (₹ in lakh)	Expenditure	Length (in metre)	CC M-15 rate (in ₹)	CC M-15 Quantity provided (in cum)	Quantity required (in cum)	Excess quantity (in cum)	Extra cost (in ₹)
36	Construciton of field channel including all structures from RD 2810 m to RD 3570 m of Tipiguda Minor and RD 243 m to RD 630 m of Gataguda S/M under WUA NO. 04 of Golamunda Disty.	59.04	50.19	15.75	2690.00	4435.30	892.88	312.71	580.17	2573217
37	Construction of fileld channle including all structures from RD 384 m to 1156 m of Rama Krishana S/M and RD 560 m to RD 1200 m of Tipiguda minor under WUA NO. 04 of Golamunda Disty.	59.77	50.80	33.84	2845.00	4435.30	918.90	330.73	588.17	2608705
	Total	4029.57	3357.41	2694.53	171555.3		55287.48	19943.31	35344.174	156230916
										132811901

Appendix 3.6.1

(Refer paragraph 3.6.3.1 at page 38)

Details of Other District Roads taken up with 5.5 meter pavement width

Sl. No.	Name of the work	Length of the road taken up under ACA and CRF (in kilometer)	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Width as per IRC (in meter)	Width provided (in meter)	Excess width (in meter)	Excess cost (₹ in crore)
1	Improvement to Lalei to Khandadhar Waterfall road from 6/0 to 15/0 km	9	13.48	13.2	3.75	5.5	1.75	4.29
2	Upgradation of SH 10A Jangra road from 0/0 to 6/69 km	6.69	6.11	5.85	3.75	5.5	1.75	1.94
3	Construction of Kuanrmunda Purunapani-Nuagaon road via Karoshiria from 11/744 to 16/0 km	4.256	3.13	2.81	3.75	5.5	1.75	1.00
4	Upgradation of Koira-Tensa-Barsuan-Kaleiposh road from 24/0 to 27/35 km (Rourkela R&B Division)	3.35	6.41	6.41	3.75	7	3.25	2.98
5	Upgradation of Satakutunia Patna road from 13/608 to 18/0 km	4.392	3.32	3.32	3.75	5.5	1.75	1.06

Sl. No.	Name of the work	Length of the road taken up under ACA and CRF (in kilometer)	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Width as per IRC (in meter)	Width provided (in meter)	Excess width (in meter)	Excess cost (₹ in crore)
6	Construction of Barbil-Kiriburu road from 8/0 to 12/45 km (Keonjhar R&B Division)	4.45	3.09	3.01	3.75	5.5	1.75	0.98
7	Upgradation of NH 5 to Bahabalpur road from 0/55 to 5/65 km	5.1	1.65	1.65	3.75	5.5	1.75	0.53
8	Upgradation to Pritipur Nandipur road from 0/6 km to 5/3 km	4.7	2.49	2.49	3.75	5.5	1.75	0.79
9	Improvement to NH-200 to Ashokjhar road via Sukindagarh from 2/61 to 6/55 and 6/7 to 9/47 km	6.71	2.53	2.53	3.75	5.5	1.75	0.81
10	Upgradation of Expressway Phuljhar Chhak to Bangarkota river embankment via Tolkani and Gobardhanpur road from 0/00 to 4/545 km	4.545	2.73	2.97	3.75	5.5	1.75	0.87
11	Upgradation of Sukinda-Hatibari road from 4/4 to 10/155 km	5.755	1.64	1.64	3.75	5.5	1.75	0.52

Sl. No.	Name of the work	Length of the road taken up under ACA and CRF (in kilometer)	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Width as per IRC (in meter)	Width provided (in meter)	Excess width (in meter)	Excess cost (₹ in crore)
12	Upgradation of Rambag Chhatrapada Biripata road from 10/8 to 17/0 km (Panikoili R&B Division)	6.2	3.96	1.48	3.75	5.5	1.75	1.26
13	Improvement of Lephripada-Balisankara 49/275 to 50/95 km (Sundargarh R&B Division)	1.675	2.03	2.03	3.75	5.5	1.75	0.65
14	Improvement to Suleipat-Badampahar-Jhaldungri road from 0/00 to 2/455 and 10/14 to 11/15 km	3.465	3.43	3.12	3.75	5.5	1.75	1.09
15	Construction of Jashipur-Raruan road from 2/0 to 5/96 km (Rairangapur R&B Division)	3.96	3.63	3.63	3.75	5.5	1.75	1.16
16	Improvement to Balangir-Arjunpur-Tusura-Deogaon road from 25/0 to 28/20 km	3.2	1.75	1.75	3.75	5.5	1.75	0.56
17	Construction of road from NH-57 to Sonapur-Shardhapali PWD road	0.81	1.23	1.23	3.75	5.5	1.75	0.39

Sl. No.	Name of the work	Length of the road taken up under ACA and CRF (in kilometer)	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Width as per IRC (in meter)	Width provided (in meter)	Excess width (in meter)	Excess cost (₹ in crore)
18	Improvement to Patherchepa-Bhainsa via Sibtala road from 5/11 to 17/2 and 17/55 to 17/94 km	12.48	2.53	2.53	3.75	5.5	1.75	0.81
19	Improvement to Sahajbahal-Bhimitikira-Siali road from 0/45 to 5/45 km (Bolangir R&B Division)	5	3.14	3.14	3.75	5.5	1.75	1.00
20	Improvement to Pokharibandh-Lanjigarh road from 0/0 to 2/75 km (Kalahandi R&B Division)	2.75	2.84	2.84	3.75	5.5	1.75	0.90
21	Improvement to Panchada-Dasmantapur-Giriliguma road from 14/2 to 19/2 km (Koraput R&B Division)	5	2.72	2.14	3.75	5.5	1.75	0.87
	Central Road Fund							
22	Widening and strengthening of Suakati-Dubuna road from 12/5 to 31/0 km (Keonjhar R&B Division)	18.5	38.38	11.26	3.75	7	3.25	17.82
		121.988	112.22	81.03				42.25

Appendix 3.6.2

(Refer paragraph 3.6.5.3 at page 44)

Details of savings due to receipt of bids by more than 10 per cent less than the estimated cost

Sl. No.	Name of the work	Date of commencement/ Stipulated date of completion	Estimated cost (₹ in crore)	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Tender premium (in percentage)	Savings (₹ in crore)
1	2	3	4	5	6	7	8
	ACA						
1	Improvement to Lephripada-Balisankara road from 49/275 to 50/95 km	08.08.2013/ 07.02.2014	2.45	2.03	2.03	-17.3	-0.42
2	Improvement to Gariamal-Bamara road from 8/5 to 11/7 km	20.10.2011/ 19.04.2012	2.45	2	2	-18.6	-0.46
3	Improvement to Suleipat-Badampahar-Jhaldungri road from 0/0 to 2/445 km	10.04.2013/ 09.03.2014	4	3.43	3.12	-11.7	-0.47
4	Improvement to Balangir-Arjunpur-Tusura-Deogaon road from 25/0 to 28/0 km	12.12.2011/ 11.11.2012	1.96	1.75	1.75	-10.9	-0.21
5	Construction of road from 47/75 km NH-57 to Sonapur-Shardhapali PWD road	01.11.2011/ 30.04.2012	1.47	1.23	1.32	-16.2	-0.24
6	Improvement to Barapudgia-Bhutiabahal road from 4/69 to 8/13 km	16.12.2011/ 15.09.2012	1.18	1.05	1	-11.11	-0.13
7	Improvement to Patherchepa-Bhainsa via Sibtala road from 5/11 to 17/2 and 17/55 to 17/94 km	12.12.2011/ 11.10.2012	2.92	2.53	2.53	-13.3	-0.39
8	Widening of Thakurmunda-Dongadiha-Podadiha-Udala-Mantri-Baisanga-Rupsa road from 37/6 to 40/6 km	04.06.2013/ 03.05.2014	3.33	2.79	2.79	-16.1	-0.54
9	Widening of Pratapur-Khunta-Jaipur road from 18/0 to 22/787 km	12.08.2013/ 11.05.2014	2.94	2.43	2.43	-17.3	-0.51

Sl. No.	Name of the work	Date of commencement/ Stipulated date of completion	Estimated cost (₹ in crore)	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Tender preimum (in percentage)	Savings (₹ in crore)
10	Construction of Dharmagarh-Golamunda-Sinapali road from 37/36 to 38/535 and 39/0 to 42/14 km	21.10.2013/ 20.06.2014	2.94	2.55	2.29	-13.3	-0.39
11	Construction of Sagar-Jalaput road from 0/0 to 1/0 and 1/8 to 4/5 km	30.10.2013/ 29.06.2014	2.94	2.56	2.38	-13.1	-0.39
12	Upgradation of Satakutunia Patna road from 13/608 to 18/0 km	22.11.2012/ 21.10.2013	3.88	3.32	3.32	-14.6	-0.57
13	Construction of Barbil-Kiriburu road from 8/0 to 12/45 km	10.10.2013/ 09.09.2014	3.43	3.09	3.01	-10	-0.34
14	Upgradation of NH 5 to Bahabalpur road from 0/55 to 5/65 km	08.08.2013/ 07.02.2014	1.95	1.65	1.65	-15.6	-0.30
15	Upgradation Pritipur to Nandipur road from 0/6 to 5/3 km	08.08.2013/ 07.02.2014	2.93	2.49	2.49	-15.2	-0.45
16	Improvement to NH-200 to Ashokjhar road via Sukindagarh from 2/61 to 6/55 and 6/7 to 9/47 km	28.01.2013/ 27.07.2013	2.9	2.53	2.53	-12.9	-0.37
17	Upgradation of Kuakhia-Baruan Bari Kalamatia road from 0/325 to 7/0 km	13.05.2013/ 12.04.2014	3.4	2.91	2.91	-14.5	-0.49
18	Upgradation of Sukinda-Hatibari road from 4/4 to 10/155 km	08.08.2013/ 07.02.2014	1.96	1.64	1.64	-16.1	-0.32
19	Upgradation of Rambag Chhatrapada Biripata road from 10/8 to 17/0 km	04.02.2015/ 03.01.2016	4.41	3.96	1.48	-10.13	-0.45
	CRF						-7.43
1	Improvement to Karanjia-Thakurmunda-Satkosia-Anandapur road from 0/0 to 10/0 km	09.10.2013/ 08.01.2015	16.63	14.1	12.62	-15.2	-2.53
2	Widening and Strengthening of Ampani-Dharmagarh road from 28/855 to 41/305 km	19.12.2016/ 18.06.2018	29.14	25.92	0	-11.05	-3.22

Sl. No.	Name of the work	Date of commencement/ Stipulated date of completion	Estimated cost (₹ in crore)	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Tender preimum (in percentage)	Savings (₹ in crore)
3	Widening and Strengthening of Suakati-Dubuna road from 12/5 to 31/0 km	20.09.2016/ 19.05.2018	45.15	38.38	11.26	-14.99	-6.77
4	Widening and Strengthening of Kuanra-Banspal road from 6/0 to 14/4 km	14.09.2016/ 13.12.2017	23.72	20.16	8.61	-14.99	-3.56
5	Widening and Strengthening of Kanjipani-Kuntala road from 0/0 to 21/0 km	20.09.2016/ 19.05.2018	45.19	38.42	13.33	-14.99	-6.77
	Total		213.27	182.92	88.49		-22.85

Appendix 3.6.3

(Refer paragraph 3.6.6.1 at page 45)

Details of unwarranted provision of capping layer of sand resulted in extra cost

Sl. No.	Name of the work	Agreement cost (₹ in crore)	CBR value of the sub-soil (in percent)	Traffic density (in msa)	Required GSB as per IRC code (in mm)			Lesser/equal GSB layer provided in the work			Sand provided				Extra cost involved (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium (in ₹)	Up to date quantity executed (in cum)	Up to date payment made (in ₹)	Up to date payment made including tender premium (in ₹)
					Thickness (in mm)	Thickness (in mm)	Quantity (in cum)	Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Rate (in ₹)	Amount (in ₹)						
1	Widening of Pratapur-Khunta-Jaipur road from 18/0 to 22/787 km	2.43	4	3	280	225	4759.04	55	1163.54	1315265.6	200	6130.45	226.5	1388546.93	73281.30	-17.3	60603.64254	5862.46	1327847.19	1098129.63
2	Widening of Thakurmunda-Dongadiha-Podadiha-Udala-Mantri-Baisinga-Rupsa road from 50/77 to 55/1 km (Mayurbhanj R&B Division)	4.12	4	3	280	300	2033.89	-20	-135.592667	-266633.49	150	4114.84	261.8	1077265.11	1343898.60	-5.97	1263667.853	4137.96	1083317.93	1018643.85
3	Improvement to Balangir-Arjunpur-Tusura-Deogaon road from 25/0 to 28/2 km	1.75	7	2	150	175	1050	-25	-150	-136365	150	2475	205.72	509157	645522	-10.9	575160.102	2509.32	516217.31	459949.62

Sl. No.	Name of the work	Agreement cost (₹ in crore)	CBR value of the sub-soil (in percent)	Traffic density (in msa)	Required GSB as per IRC code (in mm)	GSB Provided			Lesser/equal GSB layer provided in the work			Sand provided				Extra cost involved (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium (in ₹)	Up to date quantity executed (in cum)	Up to date payment made (in ₹)	Up to date payment made including tender premium (in ₹)
						Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Rate (in ₹)	Amount (in ₹)						
4	Construction of road from NH-57 to Sonapur-Shardhapali PWD road	1.23	7	6	190	200	972	-10	-48.6	-59092.254	300	2430	173.66	421993.8	481086.05	-16.2	403150.1133	3062.81	531887.58	445721.80	
5	Improvement to Barapudgia-Bhutiabahal road from 4/69 to 8/13 km	1.05	5	2	215	200	786.36	15	58.977	44832.546	150	3047.15	276.03	841104.815	796272.268	-11.11	707806.4194	2993.51	826297.18	734495.56	
6	Improvement to Patherchepa-Bhainsa via Sibtala road from 5/11 to 17/2 and 17/55 to 17/94 km (Bolangir R&B Division)	2.53	6	3	190	150	2146.5	40	572.4	472939.78	150	4293	288.62	1239045.66	766105.88	-13.3	664213.8014	4380.93	1264423.72	1096255.37	

Sl. No.	Name of the work	Agreement cost (₹ in crore)	CBR value of the sub-soil (in percent)	Traffic density (in msa)	Required GSB as per IRC code (in mm)	GSB Provided			Lesser/equal GSB layer provided in the work			Sand provided				Extra cost involved (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium (in ₹)	Up to date quantity executed (in cum)	Up to date payment made (in ₹)	Up to date payment made including tender premium (in ₹)
						Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Rate (in ₹)	Amount (in ₹)						
7	Construction of Kukurbhukha-Laxmiposh-Bihar-Boarder road from 6/0 to 10/0 km	2.65	6	5	210	225	3136.04	-15	-209.069333	-266103.45	150	6798.44	205.39	1396331.59	1662435.04	-9.1	1511153.451	6575.75	1350593.29	1227689.30	
8	Improvement to Gariamal-Bamara road from 8/5 to 10/6 km (Sundargarh R&B Division)	2	2	10	460	460	5836.95	0	0	0	150	2192.4	211.03	462662.172	462662.17	-18.6	376607.008	3736.78	788572.68	641898.16	
9	Construction of Suleipat-Badampahar-Jhaldunguri road from 0/0 to 2/445 and 10/14 to 11/15 km (Rairangpur R&B Division)	3.43	6	7	230	150	1026.27	80	547.344	753117.98	150	2699.81	376.9	1017558.39	264440.41	-11.7	233500.884	2573.27	969864.33	856390.20	

Sl. No.	Name of the work	Agreement cost (₹ in crore)	CBR value of the sub-soil (in percent)	Traffic density (in msa)	Required GSB as per IRC code (in mm)	GSB Provided			Lesser/equal GSB layer provided in the work			Sand provided				Extra cost involved (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium (in ₹)	Up to date quantity executed (in cum)	Up to date payment made (in ₹)	Up to date payment made including tender premium (in ₹)
						Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Rate (in ₹)	Amount (in ₹)						
10	Upgradation of Satakutunia Patna road from 13/608 to 18/0 km (Keonjhar R&B Division)	3.32	6	8	240	300	6310.65	-60	-1262.13	-1876787.3	75	407.07	239.2	97371.144	1974158.45	-14.6	168593.132	531.07	127031.94	108485.28	
11	Improvement to Dharmagarh Golmunda Sinapali road from 37/36 to 38/535 and 39/0 to 42/14 km (Kalahandi R&B Division)	2.55	6	2	175	150	1084.5	25	180.75	167284.13	200	5061	211.45	1070148.45	902864.32	-13.3	782783.3698	5756.66	1217245.76	1055352.07	
	Central Road Fund																				

Sl. No.	Name of the work	Agreement cost (₹ in crore)	CBR value of the sub-soil (in percent)	Traffic density (in msa)	Required GSB as per IRC code (in mm)	GSB Provided			Lesser/equal GSB layer provided in the work			Sand provided				Extra cost involved (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium (in ₹)	Up to date quantity executed (in cum)	Up to date payment made (in ₹)	Up to date payment made including tender premium (in ₹)
						Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Amount (in ₹)	Thickness (in mm)	Quantity (in cum)	Rate (in ₹)	Amount (in ₹)						
12	Improvement such as 2 lanning of Khalikote-Boirani-Aska-Ballipadar-Bellaguntha road from 0/0 to 3/2 and 4/4 to 27/0 km (Ganjam R&B Division No.II)	26.41	8	6	160	150	8979.98	10	598.665333	1071371.5	150	21925.03	530.74	11636490.4	10565118.9	-6.8	9846690.854	626.49	332503.30	309893.08	
13	Widening and improvement of Nayagarh-Khandapada road from 1/0 to 16/0 km (Nayagarh R&B Division)	17.35	5	4	240	250	10355.74	-10	-414.2296	-779546.97	150	11904.52	339.27	4038846.5	4818393.47	-8.1	4428103.598	14286.85	4847099.60	4454484.53	
	Total	70.82					48477.92					73478.71		25196522	24756239		22539372	57033.86	15182901.8	13507388.5	

Appendix 3.6.4

(Refer paragraph 3.6.6.2 at page 45)

Details of avoidable cost due to unwarranted provision of surface dressing

Sl. No	Name of the work	Estimated cost (₹ in crore)	Date of commencement/ Stipulated date of completion	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Surfacing dressing provided (in Sqm)	Rate (in ₹)	Extra cost (in ₹)	Tender premium (in percentage)	Total extra cost (in ₹)
1	Improvement to Lephripada-Balisankara road from 49/275 to 50/95 km (Sundargarh R & B Division)	2.45	08.08.2013/ 07.02.2014	2.03	2.03	11550	78.4	905520	-17.3	748865.04
2	Widening of Karanjia-Thakurmunda-Satkosia-Anandapur from 30/0 to 31/902 and 34/7 to 42/04 km (Rairangpur R & B Division)	4.85	20.03.2013/ 19.02.2014	4.58	4.58	7394	67.5	499095	-5.6	471145.68
3	Upgradation of Sukinda-Hatibari road from 4/4 to 10/155 km (Panikoili R & B Division)	1.96	08.08.2013/ 07.02.2014	1.64	1.64	10359	71.6	741704.4	-16.1	622289.99
4	Construction such as Widening of Deogaon Mandar road from 6/0 to 12/16 km	4.37	01.11.2012/ 30.09.2013	3.87	3.87	16834.13	68	1144720.84	-11.5	1013077.9
5	Improvement to Kaimati-Joranda road from 0/0 to 6/4 km (Dhenkanal R & B Division)	3.38	18.11.2011/ 17.10.2012	3.12	3.13	22664	60.5	1371172	-7.7	1265591.8

6	Upgradation of Satakutunia Patna road from 13/608 to 18/0 km (Keonjhar R & B Division)	3.88	22.11.2012/ 21.10.2013	3.32	3.32	12440.5	67.73	842595.065	-14.6	719576.19
7	Improvement to Ravi Talkies to Tankapani road from 0/0 to 1/04 km (Bhubaneswar R & B Division No. I)	2.45	19.02.2014/ 18.08.2014	2.05	2	1377	81.95	112845.15	-16.5	94225.7
Central Road Fund										
8	Improvement to Karamdihi-Talsara-Lulkidihi road from 43/0 to 52/0 km (Sundargarh R & B Division)	15.68	08.08.2013/ 07.11.2014	16.26	16.24	32282.25	78.25	2526086.063	3.7	2619551.2
9	Widening and Improvement of Hatibari-Biramitrapur-Raiboga-Salangabahal Bihar Boarder road from 0/0 to 10/0 km (Rourkela R & B Division)	16.94	19.06.2015/ 18.05.2016	16.13	15.88	43771.07	83.43	3651820.37	-4.77	3477628.5
10	Improvement such as 2 lanning of Khalikote-Boirani-Aska-Ballipadar-Bellaguntha road from 0/0 to 3/2 and 4/4 to 27/0 km (Ganjam R & B Division No. II)	28.34	26.12.2016/ 25.08.2018	26.41	1.25	75697	56.76	4296561.72	-6.8	4004395.5
Total		84.3		79.41	53.94	234368.95		16092120.6		15036348

Appendix 3.6.5

(Refer paragraph 3.6.6.3 at page 46)

Details of extra cost due to unwarranted provision of semi dense bituminous concrete and bituminous macadam

Sl. No	Name of the work	Required bituminous layer as per IRC	Bituminous layer provided	As per IRC provision					Cost in DPRs					Extra cost (in ₹)	Tender premium (in percentage)	Extra cost including tender premium (in ₹)
				Items	Unit	Quantity	Rate (in ₹)	Amount (in ₹)	Items	Unit	Quantity	Rate (in ₹)	Amount (in ₹)			
1	Construction such as Widening to Charbahal Chilakpur road (MDR-120) from 2/2 km to 6/2 and 7/5 to 7/925 km	PC- 20mm	SDBC-25mm	PC	sqm	24337.5	122.65	2984994.375	SDBC	cum	608.44	7832.57	4765648.9			
				Seal coat	sqm	24337.5	46.09	1121715.375	Tack coat	sqm	24337.5	9.18	223418.25			
				Total				4106709.75	Primer	sqm	24337.5	25.31	615982.13			
										Total				5605049	1498339.52	6.8
2	Improvement to Bhawanipatana Gunupur Kasipur road from 13/0 to 17/75 km (Kalahandi R&B Division)	PC-20mm	SDBC-25mm BM 50mm	PC	sqm	21043	122.65	2580923.95	SDBC	cum	649.83	6776.61	4403644.5			
				Seal coat	sqm	21043	46.09	969871.87	BM	cum	1052.15	5118.73	5385671.8			
				Total				3550795.82	Tack coat	Sqm	25993	7.17	186369.81			
									primer	Sqm	21043	19.73	415178.39			
									Surface dressing	Sqm	1656	59.67	98813.52			
						Total				10489678	6938882.15	6.2	7369092.84			
3	Upgradation of NH-5 to Bahabalpur to road from 0/55 to 5/65 km (Panikoili)	PC-20mm	SDBC-25mm	PC	sqm	24750	122.65	3035587.5	SDBC	cum	618.75	7858.6	4862508.8			
				Seal coat	sqm	24750	46.09	1140727.5	BM	cum	1305	5876.8	7669224			
									Tack coat	Sqm	24750	9.1	225225			

Sl. No	Name of the work	Required bituminous layer as per IRC	Bituminous layer provided	As per IRC provision					Cost in DPRs					Extra cost (in ₹)	Tender premium (in percentage)	Extra cost including tender premium (in ₹)
				Items	Unit	Quantity	Rate (in ₹)	Amount (in ₹)	Items	Unit	Quantity	Rate (in ₹)	Amount (in ₹)			
	R&B Division)								primer	Sqm	10250	24.9	255225			
									Surface dressing	Sqm	0	0	0			
									Total				13012183	13012182.8	-15.6	10982282.24
4	Construction of Sagar Jalaput road from 0/0 to 1/0 km and 1/800 to 4/5 km (Koraput R&B Division)	PC-20mm	SDBC-25mm	PC	sqm	20350	122.65	2495927.5	SDBC	cum	509	8262.03	4205373.3			
				Seal coat	sqm	20350	46.09	937931.5	BM	cum	0	0	0			
									Tack coat	Sqm	20350	9.46	192511			
									primer	Sqm	0	0	0			
									Surface dressing	Sqm	20350	73.03	1486160.5			
									Total				5884045	5884044.77	-13.1	5113234.91
5	Upgradation of Lalai SH-10A to Khandadhar Waterfall from 6/0 to 15/0 km (Rourkela R&B Division)	PC-20mm BM 50mm	SDBC-25mm BM 50mm	PC	sqm	50490	122.65	6192598.5	SDBC	cum	1262.25	9710.35	12256889			
				BM	cum	2524.5	7309.49	18452807.51	BM	cum	2524.49	7309.49	18452734			
									Tack coat	Sqm	50490	10.69	539738.1			
									primer	Sqm	50053.54	29.4	1471574.1			
									Surface dressing	Sqm	0	0	0			
									Total				32720936	32720935.9	-7.11	30394477.33
								Grand total						60054385		55459313.92

Appendix 3.6.6

(Refer paragraph 3.6.6.4 at page 46)

Details of avoidable cost due to excess provision of granular sub base and bituminous macadam

Sl. No.	Name of the work	Estimated cost (₹ in crore)	Agreement cost (₹ in crore)	Expenditure incurred (₹ in crore)	CBR value of the sub-soil (in percentage)	Traffic density (in msa)	Required GSB as per IRC code	GSB Provided		Excess GSB layer provided in the work			
								Thickness (in mm)	Thickness (in mm)	Quantity (in cum)	Thickness (in mm)	Quantity (in cum)	Rate (in ₹)
1	Widening and improvement of Bargarh-Bhatli-Ambabana road from 0/0 to 18/0 km (Bargarh R&B Division)	18.23	16.77	16.62	7	17	230	300		70	0		
						Coarse	130	150	12655.09	20	1687.3453	1568.03	2645808.1
						Close	100	150	2525.57	50	841.85667	1258.09	1059131.5
2	Widening and Improvement to Dharmagarh-Golamunda-Sinapali road from 0/0 to 2/0 and 16/0 to 24/0 km	19.08	19.97	20.23	6	5	210	300					
						Coarse	110	135	13354	25	2472.963	1597.39	3950286.3
						Close	100	100	5087	0	0	1444.77	0
						BM	67	75	5610	8	598.4	6973.96	4173217.7
3	Widening and Strengthening of Ampani-Dharmagarh road from 0/0 to 11/812 km	37.73	34.49	0	8	5							
						GSB	150	200	25200	50	6300	2171.04	13677552
4	Widening and Strengthening of Ampani-Dharmagarh road from 28/855 to 41/305 km (Kalahandi R&B Division)	29.14	25.92	0	8	5							
						GSB	150	200	26643	50	6660.75	1927.34	12837530
5	Widening and Strengthening of Sinapali-Ghatipada road from 49/09 to 69/95 km	41.23	38.8	2.39	8	5	150	200	46927.19	50	11731.798	1752.43	20559154

Sl. No.	Name of the work	Estimated cost (₹ in crore)	Agreement cost (₹ in crore)	Expenditure incurred (₹ in crore)	CBR value of the sub-soil (in percentage)	Traffic density (in msa)	Required GSB as per IRC code	GSB Provided		Excess GSB layer provided in the work			
								Thickness (in mm)	Thickness (in mm)	Quantity (in cum)	Thickness (in mm)	Quantity (in cum)	Rate (in ₹)
6	Widening and Strengthening of Sinapali-Ghatipada road from 69/95 to 92/674 km (Khariar R&B Division)	42.9	36.86	1.09	8	5	150	200	51171.75	50	12792.938	1621.6	20745027
7	Upgradation of Satakutunia Patna road from 13/608 to 18/0 km (Keonjhar R&B Division)	3.88	3.22	3.32	6	8	240	300	6310.65	60	1262.13	1487	1876787.3
	Total	188.31	172.81	40.33					189173.6		44348.18		81524494

Appendix 3.6.7

(Refer paragraph 3.6.6.5 at page 47)

Details of avoidable extra cost due to excess provision of SDBC deviating IRC norms

Sl. No.	Name of the work	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	CBR in (percentage)	MSA	Thickness of SDBC provided (in mm)	Thickness of SDBC as per norms (in mm)	Excess thickness (in mm)	SDBC amount (in ₹)	Excess SDBC amount (in ₹)	Extra cost including tender premium (in ₹)
1	Construction such as Widening to Charbahal-Chilakpur road from 2/2 to 6/2 & 7/5 to 7/925 km	3.11	3.11	3	1	25	20	5	4765648	953129.6	1017942
2	Construction of Dharmagarh-Golamunda-Sinapalli road from 37/36 to 38/535 and 39/0 to 42/14 km	2.55	2.29	6	2	25	20	5	3983722	796744.4	690777.4
3	Construction such as Widening to Bhawanipatna-Gunupur-Kasipur road from 32/0 to 35/5 km	3.15	3.15	8	2	25	20	5	3786752	757350.4	814909
4	Improvement to Bhawanipatna-Gunupur-Kasipur road from 13/0 to 17/75 km (Kalahandi R&B Division)	3.09	3.09	8	2	25	20	5	4403644	880728.8	935334
5	Construction of Sagar-Jalaput road from 0/0 to 1/0 and 1/8 to 4/5 km	2.56	2.38	4	1	25	20	5	4205373	841074.6	730893.8
6	Improvement to Kunduli-Kutiya road from 7/0 to 13/9 km (Koraput R&B Division)	2.82	2.82	5	2	25	20	5	5182620	1036524	995063

Sl. No.	Name of the work	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	CBR in (percentage)	MSA	Thickness of SDBC provided (in mm)	Thickness of SDBC as per norms (in mm)	Excess thickness (in mm)	SDBC amount (in ₹)	Excess SDBC amount (in ₹)	Extra cost including tender premium (in ₹)
7	Upgradation of NH 5 to Bahabalpur road from 0/55 to 5/65 km	1.65	1.65	4	1	25	20	5	4862508.8	972501.75	820791.5
8	Upgradation to Pritipur Nandipur road from 0/6 to 5/3 km	2.49	2.49	4	2	25	20	5	5244965	1048993	889546.1
9	Upgradation of Expressway Phuljhar Chhak to Bangarkuta river embankment via Talkani and Gobardhanpur road from 0/0 to 4/545 km	2.73	2.97	4	2	25	20	5	4083075	816614.9992	757002.1
10	Upgradation of Kuakhia-Baruan Bari Kalamatia road from 0/325 to 3/0 km	2.91	2.91	3	3	25	20	5	8826635.7	1765327.141	1509355
11	Upgradation of Sukinda-Hatibari road from 4/4 to 10/155 km	1.64	1.64	4	2	25	20	5	6691212	1338242.4	1122785
12	Upgradation of Rambag Chhatrapada Biripata road from 10/8 to 17/0 km (Panikoili R&B Division)	3.96	1.48	2	2	25	20	5	8093924.9	1618784.97	1454802
	Total	32.66	29.98							12826016.1	11739201

Appendix 3.6.8

(Refer paragraph 3.6.6.7 at page 48)

Details of avoidable expenditure due to undue provision of dry lean concrete

Sl. No.	Name of the work	Estimated Cost (₹ in crore)	Agreement Value (₹ in crore)	Expenditure incurred (₹ in crore)	CBR in (percentage)	MSA/ CVPD	Quantity provided (in cum)	Rate per Cum (in ₹)	Amount (in ₹)	Tender premium in (percentage)	Extra expenditure including tender premium (in ₹)
	ACA										
1	Improvement to Suleipat-Badampahar-Jhaldungri road ODR from 0/0 to 2/445 and 10/14 to 11/15 km (Rairangapur R & B Division)	4.00	3.43	3.12	6	7/350	844.422	3234.94	2731654.505	-11.70	2412050.93
2	Improvement to Dharmagarh Golamunda Sinapali road from 37/36 to 38/535 and 39/0 to 42/14 km (Kalahandi R & B Division)	2.94	2.55	2.29	6	2/235	385	3132.26	1205920.1	-13.30	1045532.73
3	Upgradation of Expressway Phuljhar Chhak to Bangarkata river embankment via Tolkani and Gobardhanpur from 0/0 to 5/545 km (Panikoili R & B Division)	2.94	2.73	2.97	4	2/121	439.5	3185.75	1400137.125	-7.30	1297927.11
4	Upgradation of Ghatagaon-Harichandanpur road from 0/0 to 15/0 km (Ghatagaon R & B Division)	19.26	17.17	16.5	6	5/351	322.32	3599.77	1160277.866	-10.87	1034155.66

Sl. No.	Name of the work	Estimated Cost (₹ in crore)	Agreement Value (₹ in crore)	Expenditure incurred (₹ in crore)	CBR in (percentage)	MSA/ CVPD	Quantity provided (in cum)	Rate per Cum (in ₹)	Amount (in ₹)	Tender premium in (percentage)	Extra expenditure including tender premium (in ₹)
	CRF										
5	Improvement to Nayagarh-Khandapada road from 1/0 to 16/0 km (Nayagarh R & B Division)	18.88	17.35	16.36	5	4/282	298.25	3671.13	1094914.523	-8.10	1006226.45
6	Improvement to Dharmagada Golamunda Sinapali road from 0/0 to 2/0 km and 16/0 to 24/0 km (Kalahandi R & B Division)	19.08	19.97	20.23	6	5/297	1002	3566.94	3574073.88	4.71	3742412.76
7	Improvement to Karamdihi-Talsara-Lukidihi road from 43/0 to 52/0 km (Sundargarh R & B Division)	15.68	16.26	16.24	5	5/192	241.5	3616.21	873314.715	3.70	905627.36
	Total	82.78	79.46	77.71			3532.99		12040292.71		11443933.00

Appendix 3.6.9

(Refer paragraph 3.6.6.8 at page 48)

Details of extra expenditure due to provision of GSB/WMM without deduction of existing crust

Sl. No.	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Upto date expenditure incurred (₹ in crore)	Quantity provided (in cum)	Length (in meter)	Excess width provided in overlaying portion (in meter)	Excess thickness provided (in meter)	Quantity (in cum)	Rate per cum (in ₹)	Extra cost (in ₹)	Tender premium (in percentage)	Extra cost (in ₹)	Existing crust (in mm)
	CRF													
1	Widening and Improvement to Dharmagarh Golamunda Sinapali road from 0/0 to 2/0 and 15/0 to 24/0 km	19.08	19.97	20.23	19944.00	10670.00	3.66	0.210	8200.96	1597.39	13100134.69	4.71	13717151.03	210
2	Widening and Strengthening of Ampani Dharmagarh road from 0/0 to 11/812 km	37.73	34.49	0	25200.2	11438	3.75	0.200	8578.50	2171.04	18624266.64	-8.60	17022579.71	275
3	Widening and Strengthening of Ampani Dharmagarh road from 28/855 to 41/305 km (Kalahandi R&B Division)	29.14	25.92	0	26643.3	12093	3.75	0.200	9069.75	1927.34	17480491.97	-11.05	15548897.60	275
4	Widening and Strengthening of Sinapali Ghatipada road from 49/09 to 69/95 km	41.23	38.8	2.39	46927.19	20691	3.5	0.200	14483.70	1752.43	25381670.39	-5.9	23884151.84	275
5	Widening and Strengthening of Sinapali Ghatipada road from 69/95 to 92/674 km (Khariar R&B Division)	42.9	36.85	1.09	51171.75	22562.5	3.5	0.200	15793.75	1621.6	25611145.00	-9.36	23213941.83	275

Sl. No.	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Upto date expenditure incurred (₹ in crore)	Quantity provided (in cum)	Length (in meter)	Excess width provided in overlaying portion (in meter)	Excess thickness provided (in meter)	Quantity (in cum)	Rate per cum (in ₹)	Extra cost (in ₹)	Tender premium (in percentage)	Extra cost (in ₹)	Existing crust (in mm)
	WMM													
6	Widening and Improvement to Hatibari Biramitrapur Raiboga Salangabahal Bihar Border road from 0/0 to 10/0 km (Rourkela R&B Division)	16.94	16.13	15.88	23103.06	12506.02	3.66	0.1	4577.20	1565.7	7166527.24	-4.77	6824683.89	250
7	Upgradation of Dhangidisole-Deuli Baghra Morada road from 26/4 to 30/5 km under ACA	4.4	4.1	4.1	5890.99	4100	3.66	0.15	2250.90	2290.87	5156519.28	-6.8	4805875.97	300
8	Upgradation of Thakurmunda Dangadiha Podadiha Udala Manatri Baisinga Rupsa road from 50/77 to 55/1 km under ACA (Mayurbhanj R&B Division)	4.39	4.12	4.13	5072.87	4310	3.66	0.15	2366.19	2093.81	4954352.28	-5.97	4658577.45	300
	Total										117475107.49		109675859.32	

Appendix 3.6.10
(Refer paragraph 3.6.7 at page 49)
Details of undue benefit due to excess burrow earth utilised in the work under CRF

Sl. No.	Name of the work	Earth required for filling as per calculation (in cum)	Total quantity of sand, morrum, GSB, WMM etc. available (in cum)	Balance quantity required for filling (in cum)	Quantity of Earth available from cutting (in cum)	Balance quantity required from burrow earth (in cum)	Quantity of Earth burrowed (in cum)	Excess quantity burrow earth (in cum)	Rate per cum (in ₹)	Amount (in ₹)	Total extra cost (in ₹)
1	Widening and Strengthening of Ampani-Dharmagarh road from 0/0 to 11/812 km	301921.59	55642.96	246278.63	38154	208124.63	245207.78	37083.15	132.97	4930946.5	4506885.1
2	Widening and Strengthening of Ampani-Dharmagarh road from 28/855 to 41/305 km (Kalahandi R&B Division)	241858.00	57172.90	184685.10	22409	162276.10	203371.09	41094.99	132.97	5464400.8	4860584.5
3	Widening and Strengthening of Suakati-Dubuna road from 12/5 to 31/0 km	166382.58	90699.44	75683.14	36090.4	39592.74	107113.59	67520.85	132.96	8977572.2	7631834.1
4	Widening and Strengthening of Kuanra-Banspal road from 6/0 to 14/4 km (Keonjhar R&B Division)	54833.55	40665.43	14168.12	33579.93	0.00	16865	16865.00	132.96	2242370.4	1906239.1
5	Widening and Strengthening of Sinapali-Ghatipada road from 69/95 to 92/674 km	403283.63	108882.39	294401.24	49417.14	244984.10	347809.27	102825.17	132.97	13672663	12392902
6	Widening and Strengthening of Sinapali-Ghatipada road from 49/09 to 69/95 km (Khariar R & B Division)	323364.84	100154.78	223210.06	28482.62	194727.44	270980.64	76253.20	132.97	10139388	9541164.1
	Total	1491644.19	453217.90	1038426.29	208133.09	849705	1191347	341642.4		45427341	40839609

Appendix 3.6.11

(Refer paragraph 3.6.7 at page 49)

Details of extra cost towards transportation of excavated earth

Sl. No	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Quantity of excavated earth (in cum)	Rate provided for transportation of one kilometer (in ₹)	Total (in ₹)	Tender premium (in percentage)	Total extra cost (in ₹)
	ACA							
1	Construction of Sagar-Jalaput road from 0/0 to 1/0 and 1/8 to 4/5 km	2.94	2.56	2775	28.74	79753.5	-13.1	69305.792
2	Improvement to Panchada-Dasmantapur-Giriliguma road from 14/2 to 19/2 km	2.91	2.72	2402.41	28.74	69045.2634	-6.7	64419.231
3	Improvement to Panchada-Dasmantapur-Giriliguma road from 17/2 to 17/88 km	0.72	0.72	448.8	28.74	12898.512	0.3	12937.208
4	Construction such as Widening of Vizag-Jeypore road from 149/5 to 153/5 km (Koraput R&B Division)	4.37	4.32	9660	28.74	277628.4	-1.2	274296.86
5	Construction such as Widening to Charbahal-Chilakpur road from 2/2 to 6/2 & 7/5 to 7/925 km	2.91	3.11	3867.19	28.74	111143.041	6.8	118700.77

Sl. No	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Quantity of excavated earth (in cum)	Rate provided for transportation of one kilometer (in ₹)	Total (in ₹)	Tender premium (in percentage)	Total extra cost (in ₹)
6	Construction of Dharmagarh-Golamunda-Sinapali road from 37/36 to 38/535 and 39/0 to 42/14 km	2.94	2.55	7844.43	28.74	225448.918	-13.3	195464.21
7	Construction such as Widening to Bhawanipatna-Gunupur-Kasipur road from 32/0 to 35/5 km	2.93	3.15	3450.3	28.74	99161.622	7.6	106697.91
8	Improvement to Bhawanipatna-Gunupur-Kasipur road from 13/0 to 17/75 km	2.91	3.09	4572.19	28.74	131404.741	6.2	139551.83
9	Improvement to Pokharibandh-Lanjigarh road from 0/0 to 2/75 km (Kalahandi R&B Division)	2.94	2.84	2852.76	28.74	81988.3224	-3.33	79258.111
	CRF							
1	Widening and Improvement to Dharmagarh-Golamunda-Sinapali road from 0/0 to 2/0 and 16/0 to 24/0 km	19.08	19.97	9428	30.04	283217.12	4.71	296556.65

Sl. No	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Quantity of excavated earth (in cum)	Rate provided for transportation of one kilometer (in ₹)	Total (in ₹)	Tender premium (in percentage)	Total extra cost (in ₹)
2	Widening and Strengthening of Ampani-Dharmagarh road from 0/0 to 11/812 km	37.73	34.49	38154	30.04	1146146.16	-8.6	1047577.6
3	Widening and Strengthening of Ampani-Dharmagarh road from 28/855 to 41/305 km (Kalahandi R&B Division)	29.14	25.92	22409	30.04	673166.36	-11.05	598781.48
4	Widening and Strengthening of Suakati-Dubuna road from 12/5 to 31/0 km	45.15	38.38	36090.4	30.04	1084155.62	-14.99	921640.69
5	Widening and Strengthening of Kuanra-Banspal road from 6/0 to 14/4 km	23.72	20.16	33579.93	30.04	1008741.1	-14.99	857530.81
6	Widening and Strengthening of Kanjipani-Kuntala road from 0/0 to 21/0 km (Keonjhar R&B Division)	45.19	38.42	64297.5	30.04	1931496.9	-14.99	1641965.5
7	Improvement to Vizag-Jeypore road from 138/5 to 149/5 km	16.57	15.54	40428.85	30.04	1214482.65	-6.2	1139184.7

Sl. No	Name of the work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Quantity of excavated earth (in cum)	Rate provided for transportation of one kilometer (in ₹)	Total (in ₹)	Tender premium (in percentage)	Total extra cost (in ₹)
8	Improvement to Vizag-Jeypore road from 163/0 to 173/0 km	18.9	17.05	12753.18	30.04	383105.527	-9.8	345561.19
9	Improvement such as providing two lane flexible carriage way for Koraput-Laxmipur-Rayagada road from 30/0 to 40/0 km (Koraput R&B Division)	20.44	18.8	66292.06	30.04	1991413.48	-8	1832100.4
10	Widening and Improvement of Hatibari-Biramitrapur-Raiboga-Salangabahal Bihar Boarder road from 0/0 to 10/0 km (Rourkela R&B Division)	16.94	16.13	15430.12	30.04	463520.805	-4.77	441410.86
	Total	298.43	269.92	376736.12		11267918		10182942

Appendix 3.6.12

(Refer paragraph 3.6.8.4 at page 52)

Details of non-deduction of differential cost of steel and bitumen

Sl. No.	Name of the work	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Base year	Base year price per tonne of bitumen (in ₹)	Item of work	Bitumen quantity required for execution of one cum/sqm (in tonne)	Quantity executed in cum/SQM of bituminous works	Quantity of bitumen required (in MT)	Year of decrease in price	Rate per tonne (in ₹)	Difference per MT (in ₹)	Total differential cost to be recovered (in ₹)
1	Widening and strengthening to Dharmagarh Golamunda Sinapali road from 0/0 to 2/0 and 16/0 to 24/0 km under CRF	19.97	20.23	January 2014 VG-30	49515	BM	0.072	5342.62	386.97	December 15 VG-30	31647	17868	6914307.89
				VG-30	49515	SDBC	0.115	1842.88	212.64	VG-30	31647	17868	3799451.01
				SS-I	40455	Primer coat	0.060	71093.62	42.66	SS-I	25705	14750	629178.54
				RS-I	38670	Tack coat	0.020	71093.62	14.22	RS-I	26476	12194	173383.12
				SAIL	48525	Steel	1.05	149.323	156.79	SAIL	40250	8275	129743.02
2	Construction such as Widening to Charbahal Chilkpur road from 2/2 to 6/2 and 7/5 to 7/925 km under ACA	3.1	3.1	September 2012 VG-30	44483	BM	0.072	0.00	0.00	December 14 VG-30	44977	-494	0.00
				VG-30	44484	SDBC	0.115	609.68	70.35	VG-30	44977	-493	0.00
				SS-I	35067	Primer coat	0.060	24387.00	14.63	SS-I	34847	220	0.00
				RS-I	35067	Tack coat	0.020	24387.00	4.88	RS-I	36359	-1292	0.00
				SAIL	53125	Steel	1.05	26.96	28.31	SAIL	48525	4600	130216.80
3	Construction to Dharmagarh Golamunda Sinapali road from 37/36 to	2.55	2.29	April 2013 VG-30	47410	BM	0.072	0.00	0.00	March 15 VG-30	36971	10439	0.00
				VG-30	47410	SDBC	0.115	496.92	57.34	VG-30	36971	10439	598540.06
				SS-I	37958	Primer coat	0.060	19877.00	11.93	SS-I	28563	9395	112046.65

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Sl. No.	Name of the work	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Base year	Base year price per tonne of bitumen (in ₹)	Item of work	Bitumen quantity required for execution of one cum/sqm (in tonne)	Quantity executed in cum/SQM of bituminous works	Quantity of bitumen required (in MT)	Year of decrease in price	Rate per tonne (in ₹)	Difference per MT (in ₹)	Total differential cost to be recovered (in ₹)
	38/535 and 39/0 to 42/14 km under ACA			RS-I	39315	Tack coat	0.020	19877.00	3.98	RS-I	29830	9485	37706.67
				SAIL	50406	Steel	1.05	60.185	63.19	SAIL	45350	5056	319510.13
4	Improvement to Pokhribandha Lanjigarh road from 0/0 to 3/1 km under ACA	2.84	2.84	October 13 VG-30	50597	BM	0.072	852.50	61.75	September 15 VG-30	33995	16602	1025116.64
				VG-30	50597	SDBC	0.115	426.25	49.18	VG-30	33995	16602	816530.95
				SS-I	39181	Primer coat	0.060	17050.00	10.23	SS-I	27602	11579	118453.17
				RS-I	40883	Tack coat	0.020	17050.00	3.41	RS-I	27365	13518	46096.38
				SAIL	48525	Steel	1.05	15.05	15.80	SAIL	42475	6050	95605.13
5	Improvement such as providing 2 lane carriageway of Koraput Laxmipur Rayagada road SH-4 from 30/0 to 40/0 km under CRF (balance work)	18.8	18.8	April 2013 VG-30	44843.33	BM	0.072	5557.53	402.53	March 16 VG-30	25633	19210.33	7732770.59
				VG-30	44843.33	SDBC	0.115	1852.55	213.76	VG-30	25633	19210.33	4106318.32
				SS-I	35391.36	Primer coat	0.060	74095.35	44.46	SS-I	22016	13375.36	594631.19
				RS-I	36748.44	Tack coat	0.020	74095.35	14.82	RS-I	21553	15195.44	225182.29
				SAIL	49550	Steel	1.05	130.419	136.94	SAIL	40275	9275	127011.80
6	Improvement of Vizag Jeypore road MDR-52 from 138/75 to 149/5 km under CRF	15.54	16.11	April 2014 VG-30	44843.33	BM	0.072	3744.39	271.21	December 15 VG-30	31647	13196.33	3578926.09
				VG-30	44843.33	SDBC	0.115	1872.19	216.02	VG-30	31646	13197.33	2850912.23
				SS-I	35391.36	Primer coat	0.060	71709.35	43.03	SS-I	25705	9686.36	416761.55
				RS-I	36748.44	Tack coat	0.020	74887.85	14.98	RS-I	26476	10272.44	153856.19

Sl. No.	Name of the work	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Base year	Base year price per tonne of bitumen (in ₹)	Item of work	Bitumen quantity required for execution of one cum/sqm (in tonne)	Quantity executed in cum/SQM of bituminous works	Quantity of bitumen required (in MT)	Year of decrease in price	Rate per tonne (in ₹)	Difference per MT (in ₹)	Total differential cost to be recovered (in ₹)
				SAIL	49550	Steel	1.05	109.45	114.92	SAIL	40250	9300	1068779.25
7	Improvement to Vizag Jeypore road from 163/0 to 173/0 km under CRF	17.05	16.21	Janu-14 VG-30	40694	BM	0.072	5762.77	417.40	June 15 VG-30	38811	1883	785959.36
				VG-30	40694	SDBC	0.115	1920.91	221.64	VG-30	38811	1883	417354.58
				SS-I	38670	Primer coat	0.060	76665.00	46.00	SS-I	31766	6904	317577.10
				RS-I	40456	Tack coat	0.020	76837.00	15.37	RS-I	30591	9865	151599.40
				SAIL	48000	Steel	1.05	57.25	60.11	SAIL	44650	3350	201376.88
8	Improvement to Kunduli Kutiya road from 7/0 to 13/9 km under ACA	2.82	2.82	January 14 VG-30	46248	BM	0.072	0.00	0.00	September 2016 VG-30	27427	18821	0.00
				VG-30	46248	SDBC	0.115	645.00	74.42	VG-30	27427	18821	1400716.54
				SS-I	46248	Primer coat	0.060	35811.00	21.49	SS-I	22621	23627	507663.90
				RS-I	46248	Tack coat	0.020	25811.00	5.16	RS-I	23075	23173	119623.66
				SAIL	46248	Steel	1.05	102.96	108.11	SAIL	36250	9998	1080863.78
9	Upgradation of Thakurmunda Dasngadiha Podadiha Udala Manatri Baisinga Rupsa road (MDR) from 50/77 to 55/1 km under ACA	4.12	4.13	October 2014 VG-30	49108	BM	0.07243	1219.63	88.34	June 2016 VG-30	28400	20708	1829299.18
				VG-30	49108	SDBC	0.11538	609.82	70.36	VG-30	28400	20708	1457094.33
				SS-I	37501	Primer coat	0.06000	24392.50	1463.55	SS-I	22986	14515	212434.28
				RS-I	39287	Tack coat	0.02000	24393.50	487.87	RS-I	23608	15679	76493.14
				SAIL	49825	Steel	1.05	139.09	146.04	SAIL	40350	9475	138377.16

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Sl. No.	Name of the work	Agreement amount (₹ in crore)	Expenditure incurred (₹ in crore)	Base year	Base year price per tonne of bitumen (in ₹)	Item of work	Bitumen quantity required for execution of one cum/sqm (in tonne)	Quantity executed in cum/SQM of bituminous works	Quantity of bitumen required (in MT)	Year of decrease in price	Rate per tonne (in ₹)	Difference per MT (in ₹)	Total differential cost to be recovered (in ₹)
10	Upgradation of Dhangidisolie Duli Baghda Maroda road from 26/4 to 30/5 km under ACA	4.1	4.1	October 14 VG-30	49572.9	BM	0.07243	1127.50	81.66	December 2015 VG-30	31647	17925.9	1463915.49
				VG-30	49572.9	SDBC	0.11538	560.99	64.73	VG-30	31646	17926.9	1160401.19
				SS-I	38168.61	Primer coat	0.06000	22440.00	1346.40	SS-I	25705	12463.61	167810.05
				RS-I	39894.74	Tack coat	0.02000	22440.00	448.80	RS-I	26476	13418.74	60223.31
				SAIL	0	Steel	1.05	128.52	134.95	SAIL	40250	-40250	-543157.65
11	Construction such as widening of Thakurmunda Dongadiha Podadiha Udala Mantri Baisinga Rupsa road (MDR-70) from 37/6 to 40/6 km under ACA	2.79	2.79	April 2013 VG-30	44329.07	BM	0.07243	971.25	70.35	January 2015 VG-30	45168	-838.93	-59016.74
				VG-30	44329.07	SDBC	0.11538	485.63	56.03	VG-30	45168	-838.93	-47008.79
				SS-I	36186.56	Primer coat	0.06000	16399.90	983.99	SS-I	34501	1685.56	16585.81
				RS-I	49020	Tack coat	0.02000	19424.90	388.50	RS-I	36164	12856	49945.30
				SAIL	49020	Steel	1.05	146.04	153.34	SAIL	46950	2070	31741.79
Total		93.68	93.42										46798908.69

Appendix 3.7.1

(Refer paragraph 3.7 at page 53)

Details of undue benefit to contractors due to adaption of average lead

Sl. No	Name of the work	Est cost (₹ in crore)	Agt value (₹ in crore)	Shortest Lead (in km)	Lead taken (in km)	Excess lead (in km)	Lead cost (in ₹)	Description of item	Quantity (in Cum)	Multi plying factor	Materials (in cum)	Extra cost (in ₹)	Tender premium (in percentage)	Total excess expenditure including Tender premium (in ₹)	Payment made (₹ in crore)	Quantity executed	Quantity transported	Excess payment already made	Escalation Charges (₹ in crore)
1	Widening to two lane improvement of J.K. Pur - Muniguda-Bhawanipatna Boarder road from 0/00 to 49/5 km of SH-5 and 37/00 to 68/00 of SH-6	116.14	121.87	15	29	14	109.5	GSB	169798	1.28	217341	23798888	4.93	24972173	144.29	191045	244537.6	28096967	21.82
							109.5	WMM	142981	1.32	188735	20666474	4.93	21685331		149309	197087.9	22645072	
							109.5	BM	28556	1.41	40264	4408903.6	4.93	4626262.6		29526	41631.66	4783409	
							109.5	SDBC	14382	1.46	20997.7	2299250.3	4.93	2412603.4		15036	21952.56	2522312.9	
							109.5	CC	41422	0.9	37279.8	4082138.1	4.93	4283387.5		46496	41846.4	4808082.3	
						109.5	Stone	14245	1	14245	1559827.5	4.93	1636727		9812	9812	1127382.6		
2	Widening to two lane and improvement from 97/120 km to 134/960 km of Bhawanipatna-Gunupur-Kashipur-Rupkona Road(SH. No.44)	53.1	50.86	7	44	37	289.39	GSB	78421	1.28	100379	29048644	-4.23	27819886	61.56	81027	103714.6	28744366	10.53
							289.39	WMM	60881	1.32	80362.9	23256225	-4.23	22272487		61525	81213	22508086	
							289.39	BM	13504	1.41	19040.6	5510170.8	-4.23	5277090.6		13426	18930.66	5246609.8	
							289.39	SDBC	6752	1.46	9857.92	2852783.5	-4.23	2732110.7		6689	9765.94	2706618.6	
							289.39	CC	16411	0.9	14769.9	4274261.4	-4.23	4093460.1		18152	16336.8	4527724.6	
						289.39	Stone	5167	1	5167	1495278.1	-4.23	1432027.9		4486	4486	1243289.5		
3	Widening to two lane of Vijayawada-Ranchi Corridor from 6/700 to 34/350 km (Boudha-Kiakata-Rairakhol road), from 65/100 to 101/875 km	122.86	103.45	55	102	47	246.99	GSB	145291	1.28	185972	45933343	-15.8	38675875	106.96	133210	170508.8	35459961	7.64
							246.99	WMM	90880	1.32	119962	29629316	-15.8	24947884		85327	112631.6	23423504	
							246.99	BM	22498	1.49	33522	8279603.7	-15.8	6971426.3		21590	32169.1	6690065.5	
							246.99	SDBC	10948	1.46	15984.1	3947907.9	-15.8	3324138.5		10762	15712.52	3267663.3	

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Sl. No	Name of the work	Est cost (₹ in crore)	Agt value (₹ in crore)	Shortest Lead (in km)	Lead taken (in km)	Excess lead (in km)	Lead cost (in ₹)	Description of item	Quantity (in Cum)	Multi plying factor	Materials (in cum)	Extra cost (in ₹)	Tender premium (in percentage)	Total excess expenditure including Tender premium (in ₹)	Payment made (₹ in crore)	Quantity executed	Quantity transported	Excess payment already made	Escalation Charges (₹ in crore)
	(Naktideul to Aunli Road)						246.99	CC	29748	0.9	26773.2	6612712.7	-15.8	5567904.1		45935	41341.5	8597609	
							246.99	Stone	4724	1	4724	1166780.8	-15.8	982429.4		4548	4548	945827.46	
4	Widening and strengthening of existing single lane carriageway to two lane carriageway from 183/300 to 188/200 km of Kuchinda-Bamara road(SH-24)	10.31	9.52	33	83	50	370	GSB	12481	1.28	15975.7	5911001.6	-7.7	5455854.5	6.1	8479	10853.12	3706449	
							370	WMM	8813	1.32	11633.2	4304269.2	-7.7	3972840.5		6875	9075	3099203.3	
							370	BM	1690	1.49	2518.1	931697	-7.7	859956.33		490	730.1	249336.45	
							370	SDBC	859	1.46	1254.14	464031.8	-7.7	428301.35		0	0	0	
5	Widening and strengthening of existing single lane carriageway to two lane from 188/200 to 194/200 km of Kuchinda-Bamara road (SH-24)	14.96	13.83	42	86	44	307.6	GSB	14735	1.28	18860.8	5801582.1	-5.1	5505701.4	6.69	11162	14287.36	4170657.5	
							307.6	WMM	10816	1.32	14277.1	4391642.1	-5.1	4167668.4		4408	5818.56	1698509.8	
							360.7	BM	2075	1.49	3091.75	1115194.2	-5.1	1058319.3		480	715.2	244816.04	
							307.6	SDBC	1052	1.46	1535.92	472448.99	-5.1	448354.09		0	0	0	
							307.6	CC	6128	0.9	5515.2	1696475.5	-5.1	1609955.3		4160	3744	1092920	
							307.6	Stone	212	1	212	65211.2	-5.1	61885.429			610	610	178066.56
6	Widening and strengthening of existing single lane carriageway to two lane from 176 to 183 km of Kuchinda-Bamara	13.67	13.88	27	81	54	360.7	GSB	17902	1.28	22914.6	8265281.8	1.58	8395873.2	13.69	17408	22282.24	8164191.8	
							360.7	WMM	12606	1.32	16639.9	6002019.1	1.58	6096851		12446	16428.72	6019467.6	
							360.7	BM	2417	1.49	3601.33	1298999.7	1.58	1319523.9		2418	3602.82	1320069.9	
							360.7	SDBC	1225	1.46	1788.5	645111.95	1.58	655304.72		1268	1851.28	678307.25	

Sl. No	Name of the work	Est cost (₹ in crore)	Agt value (₹ in crore)	Shortest Lead (in km)	Lead taken (in km)	Excess lead (in km)	Lead cost (in ₹)	Description of item	Quantity (in Cum)	Multi plying factor	Materials (in cum)	Extra cost (in ₹)	Tender premium (in percentage)	Total excess expenditure including Tender premium (in ₹)	Payment made (₹ in crore)	Quantity executed	Quantity transported	Excess payment already made	Escalation Charges (₹ in crore)
	road(SH-24)						360.7	CC	4257	0.9	3831.3	1381949.9	1.58	1403784.7		5938	5344.2	1958109.9	
							360.7	Stone	255	1	255	91978.5	1.58	93431.76		481	481	176237.95	
7	Widening and strengthening of existing single lane carriageway to two lane from 171 to 174 km of Kuchinda-Bamara road (SH-24)	10.33	10.21	20	80	60	411	GSB	8180	1.28	10470.4	4303334.4	1.11	4351101.4	10.19	8859	11339.52	4712274.7	
							411	WMM	5867	1.32	7744.44	3182964.8	1.11	3218295.7		5859	7733.88	3213907.4	
							411	BM	1125	1.49	1676.25	688938.75	1.11	696585.97		1123	1673.27	695347.6	
							411	SDBC	578	1.46	843.88	346834.68	1.11	350684.54		562	820.52	340977.01	
							411	CC	4913	0.9	4421.7	1817318.7	1.11	1837490.9		5713	5141.7	2136695.6	
							411	Stone	1055	1	1055	433605	1.11	438418.02		1848	1848	767958.76	
	Total	341.37	323.62								1285494	272434399		256139386	349.48		1292607	251968056	39.99

Appendix 3.9.1

(Refer paragraph 3.9 at page 56)

Details of avoidable extra cost due to unwarranted/excess provision of Bituminous items

Sl.No	Name of the Work	Estimated cost (₹ in crore)	Agreement Value (₹ in crore)	CBR value (in percent age)	Traffic density in terms of MSA	Description of item	Thick ness required (in mm)	Thick ness provided (in mm)	Excess thickness	Quantity provided (in cum)	Quantity required (in cum)	Excess quantity (in cum)	Rate per cum	Extra cost (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium (in ₹)	Payment made (₹ in crore)
1	Improvement to Malkangiri Mottu Road from 102/0 to 149/0 km	65.76	62.38	5	1	BM	0	50	50	17187	0	17187.00	5900	101403300	-5.14	96191170.38	59.29
						SDBC	20	25	5	8593.5	6874.8	1718.70	6940	11927778	-5.14	11314690.21	
2	Widening and Improvement to JKMM Road from 149/0 to 202/7 km	87.74	87.41	2	1	BM	0	60	60	22919	0	22919.00	6600	151265400	-0.37	150705718	100.28
						SDBC	20	30	10	11460	7640	3820.00	7200	27504000	-0.37	27402235.2	
3	Widening and Improvement to CJP Road from 0/0 to 29/5 km	33.93	37.28	3.5	1	BM	0	50	50	10532	0	10532.00	6213	65435316	9.89	71906868.75	10.12
						SDBC	20	25	5	5266	4212.8	1053.20	8090	8520388	9.89	9363054.373	
4	Improvement to Malkangiri Balimela Road from 0/0 to 29/2 km	33.4	31.27	5	1	BM	0	50	50	10353	0	10353.00	5200	53835600	-6.39	50395505.16	33.43

Sl.No	Name of the Work	Estimated cost(₹ in crore)	Agreement Value (₹ in crore)	CBR value (in percent age)	Traffic density in terms of MSA	Description of item	Thick ness required (in mm)	Thick ness provided (in mm)	Excess thickness	Quantity provided (in cum)	Quantity required (in cum)	Excess quantity (in cum)	Rate per cum	Extra cost (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium (in ₹)	Payment made (₹ in crore)
						SDBC	20	25	5	5176	4140.8	1035.20	6700	6935840	-6.39	6492639.824	
5	Improvement to Balimela Junction to Tunnel	36.59	34.72	3.5	1	BM	0	50	50	8925	0	8925.00	5900	52657500	-5.13	49956170.25	28.03
						SDBC	20	25	5	4463	3570.4	892.60	6940	6194644	-5.13	5876858.763	
6	Widening and Improvement of KP Road from 0/0 to 30/0 km	37.58	35.57	4.5	1	BM	0	50	50	10660	0	10660.00	5200	55432000	-5.34	52471931.2	42.63
						SDBC	20	25	5	5330	4264	1066.00	7000	7462000	-5.34	7063529.2	
7	Improvement to GSM road from 0/0 to 45/535 km	76.44	74.49	3.5	1	BM	0	50	50	16319	0	16319	6330	103299270	-2.55	100665138.6	14.93
						SDBC	20	25	5	8195	6556	1639.00	8791	14408449	-2.55	14041033.55	
Total		371.44	363.12											666281485		653846543.5	288.71
						BM	96895	0	96895								
						SDBC	48484	37259	11224.7								

Appendix 3.11.1

(Refer paragraph 3.11 at page 58)

Details of undue benefit to contractors due to provision of extra lead charges from mixing plant to worksite

Sl. No	Name of the Work	Estimated cost (₹ in crore)	Agreement value (₹ in crore)	Description of item	Quantity (in cum)	Multiplication factor	Total quantity (in cum)	Lead charges (in ₹)	Lead charges including OHC, CP and 1% Cess (in ₹)	Total (in ₹)	Quantity executed (in cum)	Total quantity executed (in cum)	Excess payment already made (in ₹)	Payment made (₹ in crore)
1	Widening to two lane and improvement to Parlakhemundi-R-Udayagiri-Mohana Road (SH-34) from O/o to 102/9 km under LWE Scheme	141.2	153.91	WMM	181143	1.32	239108.76	83.2	99.8	23870231.34	181289	239301.48	23889470.6	192.79
				BM	35723	1.42	50726.66	83.2	99.8	5064043.279	35700	50694	5060782.83	
				SDBC	17862	1.46	26078.52	83.2	99.8	2603419.069	17876	26098.96	2605459.59	
2	Widening to two lane and improvement of Gunupur-Kasinagar - Parlakhemundi Road from 25/2 to 102/0 km excluding 40/2 to 48/0 km and 52/8 to 57/0 km (SH-4) under LWE Scheme	84.08	68.13	WMM	110363	1.32	145679.16	64	76.8	11187040.67	110162	145413.84	11166666.1	79.18
				BM	21742	1.42	30873.64	64	76.8	2370858.442	21637	30724.54	2359408.71	
				SDBC	10871	1.46	15871.66	64	76.8	1218821.594	10818	15794.28	1212879.4	
3	Widening of existing single intermediate lane with strengthening from 0/0 to 14/0 km of NH 20 (Erstwhile Km 202/0 to 216/0 km of NH 75/Extn)	36.71	30.39	WMM	26611	1.32	35126.52	22.4	27.4	961589.8901	26611	35126.52	961589.89	30.14
				BM	7964	1.42	11308.88	22.4	27.4	309581.0424	7964	11308.88	309581.042	
				SDBC	2664	1.46	3889.44	22.4	27.4	106473.5756	2664	3889.44	106473.576	
	Total	261.99	252.43				558663.24			47692058.9		558351.94	47672312	302.11

Appendix 3.12.1

(Refer paragraph 3.12 at page 59)

Details of avoidable cost on provision of capping layer of sand

Sl. No.	Name of the work	Estimated cost (₹ In crore)	Agreement value (₹ in crore)	Payment made (₹ in crore)	CBR (in percentage)	M S A	Required thickness (in mm)	Thickness provided (in mm)	Quantity provided (in cum)	Quantity required (in cum)	less (+)/ excess (-) quantity (in cum)	Rate (in ₹)	Less	Capping layer of sand (in mm)	Quantity (in cum)	Rate (in ₹)	Cost (in ₹)	Extra cost (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium
1	Improvement to Kodala-Chunchipada Road from 10/00 to 21/800 km.	13.66	11.61	2.71	8	2	150	150	6780	6780	0	0	0	150	12264	596.17	7311428.88	7311428.88	-14.99	6215445.69
2	Widening & Strengthening of Chhatrapur-Ganjam road (SH-26) to 2-lane from 0/00 to 7/150 km.	10.56	10.54	7.63	8	2	150	250	7591.53	4554.92	-3036.61	1497.57	-4547536	450	15584.4	329.18	5130072.79	9677608.79	-0.1	9667931.18
3	Improvement to Sumandal-Angargaon Road (ODR) from 0/00 to 10/00 km.	10.93	10.29	0	4	2	265	265	5033.73	5033.73	0	0	0	115	5597.65	670.51	3753280.30	3753280.30	-5.8	3555590.04
4	Improvement to Rambha-Khandadeuli Road from 0/00 to 11/00 km.	6.63	6.26	5.71	5	2	215	200	3980	4278.5	298.5	1684.11	502707	150	5970	617.45	3686176.50	3183469.50	-5.5	3008378.68

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Sl. No.	Name of the work	Estimated cost (₹ In crore)	Agreement value (₹ in crore)	Payment made (₹ in crore)	CBR (in percentage)	M S A	Required thickness (in mm)	Thickness provided (in mm)	Quantity provided (in cum)	Quantity required (in cum)	less (+)/ excess (-) quantity (in cum)	Rate (in ₹)	Less	Cap ping layer of sand (in mm)	Quantity (in cum)	Rate (in ₹)	Cost (in ₹)	Extra cost (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium
5	Improvement such as widening and strengthening of Khallikote-Boirani-Ballipadar-Belaguntha Road from 0/00 to 3/200 km and 4/400 to 27/00 km (SH-30).	28.34	26.41	0	8	6	160	150	8979.98	9578.65	598.67	1789.6	1071380	150	21925.03	530.74	11636490.42	10565110.42	-6.8	9846682.91
6	Improvement to Karanjia-Mahadevdeuli Road (ODR) from 0/00 to 15/180 km.	20.88	19.75	12.91	5	5	250	275	12537.52	11397.75	-1139.77	1690.33	1926587	150	13196.91	334.03	4408163.85	2481576.85	-5.4	2347571.7
7	Improvement to Amati - Jhirlapali Road from 0/00 to 7/300 km.	5.03	4.67	4.34	5	1	205	225	5046.96	4598.34	-448.62	2043.5	-916755	150	7766.44	421.7	3275107.75	4191862.75	-7.2	3890048.63
8	Improvement to Laikera-Sahaspur-Bamra Road from 0/00 to 26/500 km.	39.87	42.47	41.9	6	7	250	250	26816	26816	0	0	0.00	150	20360.7	464.47	9456934.33	9456934.33	6.5	10071635.1

Sl. No.	Name of the work	Estimated cost (₹ In crore)	Agreement value (₹ in crore)	Payment made (₹ in crore)	CBR (in percentage)	M S A	Required thickness (in mm)	Thickness provided (in mm)	Quantity provided (in cum)	Quantity required (in cum)	less (+)/ excess (-) quantity (in cum)	Rate (in ₹)	Less	Cap ping layer of sand (in mm)	Quantity (in cum)	Rate (in ₹)	Cost (in ₹)	Extra cost (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium
9	Widening & Strengthening to Borigumma -B- Singhpur-Tarabhatta Road from 14/00 to 24.00 km.	13.12	11.73	5.63	5	3	230	230	4519.62	4519.62	0	0	0.00	150	11170.14	338.1	3776624.33	3776624.33	-10.6	3376302.15
10	Widening & Strengthening to B.Singpur - Muran Dam Road from 0/00 to 13/009 km	11.48	10.03	2.69	8	2	150	150	9043.51	9043.51	0	0	0.00	150	11591.8	457.72	5305798.70	5305798.70	-12.62	4636206.9
11	Improvement to Saradeipur-Nimapara Road from 0/00 to 28/00 km.	16.77	15.65	12.46	4	2	265	275	9443.47	9100.071	-343.39890	1591.7	-546590	150	21079	352	7419808.00	7966398.00	-6.67	7435039.25
12	Improvement such as Widening and Strengthening of Moter-Jaipatna Road (MDR-99) from 5/689 to 26/00 km.	20.82	17.7	0.71	6	7	235	260	17594.9	15903.08	-1691.82	1944.15	-3289146.6	150	17153.21	596.17	10226229.21	13515375.82	-14.99	114894.21
	Total	198.09	187.11	96.69					117367.22	111604.17	5763.05							81185468.67		75520253.23

Appendix 3.14.1

(Refer paragraph 3.14 at page 62)

Details of excess provision of pavement thickness led to extra cost

Sl. No	Name of the Work	Estimated cost (₹ in crore)	Agreement Value (₹ in crore)	Payment made (₹ in crore)	CBR value (in percentage)	msa	Total thickness required as per IRC (in mm)	Thickness provided (in mm)	Description of pavement layer	Required thickness as per IRC (in mm)	Thickness provided (in mm)	Excess/ less provision (in mm)	Total cost (in ₹)	Extra cost (in ₹)	Tender premium (in percentage)	Extra cost including Tender premium (in ₹)
1	Widening of two lane of Vijayawada-Ranchi Corridor from 377/700 to 471/900 km (Berhampur-Taptapani-Rayagada road SH-17 from 67/00 to 150/100 km and Koraput-Laxmipur-Rayagada road SH-4 from 149/00 to 160/100 km in Gajapati and Rayagada district.	181.35	144.66	47.47	4	5	620	685	GSB	285	325	40	211774821	26064593.35	-20.23	20791726.12
									WMM	250	250	0	0	0	-20.23	0
									DBM	60	70	10	154104159	22014879.86	-20.23	17561269.66
									BC	25	40	15	99917472	37469052	-20.23	29889062.78
2	Widening and strengthening of Godabhaga Turum road from 0/220 to 6/050 km & 6/330 to 39/800 km under SHDP.	50.75	44.9	9.02	5	4	570	585	GSB	250	250	0	0	0	-7	0
									WMM	240	250	10	102028479	4081139.16	-7	3795459.419
									DBM/ BM	55	55	0	0	0	-7	0
									SDBC/ BC	25	30	5	61322199	10220366.5	-7	9504940.845
3	Widening and strengthening of Chipat Junction to Baripada Baghra Road (ODR) from 14/00 to 39/00 km Under ISC Scheme.	49.66	43.56	11.98	6	5	535	540	GSB	210	225	15	127390643	8492709.533	-12.29	7448955.532
									WMM	250	235	-15	108621888	-6933312	-12.29	-6081207.955
									DBM	50	50	0	0	0	-12.29	0
									BC	25	30	5	58063339	9677223.167	-12.29	8487892.439
4	Widening and strengthening of Nayagarh-Odagaon-Laukhal road (SH-21) to two lane without paved shoulder from 4/00 to 25/840 km and 26/500 to 31/00 km under SHDP.	40.69	44.4	20.3	5	3	530	535	GSB	230	230	0	0	0	9.1	0
									WMM	225	225	0	0	0	9.1	0
									DBM/ BM	50	50	0	0	0	9.1	0
									SDBC/BC	25	30	5	53064138	8844023	9.1	9648829.093
5	Improvement to Dhenkanal-Kamakhyanagar road (MDR 19) from 0/0 to 29/0 km.	25.56	21.35	0	8	8	515	615	GSB	175	250	75	68117025	20435107.5	-16.45	17073532.32
									WMM	250	265	15	27615844	1563160.981	-16.45	1306021
									DBM	60	60	0	27054520	0	-16.45	0
									BC	30	40	10	58365227	14591306.75	-16.45	12191036.79
Total		348.01	298.87	88.77									156520249.8		131617518	

Appendix 3.15.1

(Refer paragraph 3.15 at page 62)

Statement showing Inspection Reports / Paragraphs issued up to 31 March 2017 but not settled by 30 June 2017

Sl. No.	Name of the Department	Reports awaiting settlement (Up to June 2017)		Reports awaiting settlements for more than 10 years		Reports to which even first reply has not been received
		Number of Reports	Number of Paragraphs	Number of Reports	Number of Paragraphs	Number of Reports
1	Agriculture	527	1,757	157	305	28
2	Co-operation	96	428	17	54	11
3	Energy	182	470	42	81	14
4	Forest & Environment	514	1,450	222	624	42
5	Fisheries and Animal Resources Development	453	1,583	148	326	90
6	Industries	16	56	1	1	1
7	MSME	122	528	24	46	30
8	Skill Development & Technical Education	145	586	46	107	28
9	Textile, Handloom & Handicraft	62	254	1	2	24
10	Tourism	22	71	3	5	3
11	Water Resources	468	1,191	236	432	29
12	Works	337	845	149	230	19
Total		2,944	9,219	1,046	2,213	319

Appendix 3.15.2

(Refer paragraph 3.15 at page 62)

Statement showing the year-wise break up of outstanding Inspection Reports / Paragraphs issued up to 31st March 2017 but not settled by June 2017

<i>Year</i>	<i>Number of Inspection Reports</i>	<i>Number of Paragraphs</i>
1984-85	1	1
1985-86	3	6
1986-87	3	3
1987-88	3	4
1988-89	2	9
1989-90	11	25
1990-91	7	8
1991-92	15	25
1992-93	27	41
1993-94	21	40
1994-95	22	50
1995-96	28	57
1996-97	42	84
1997-98	32	67
1998-99	37	88
1999-00	59	109
2000-01	72	207
2001-02	72	179
2002-03	80	173
2003-04	129	288
2004-05	135	269
2005-06	148	283
2006-07	153	332
2007-08	143	312
2008-09	153	395
2009-10	192	455
2010-11	237	696
2011-12	75	193
2012-13	216	777
2013-14	145	520
2014-15	174	739
2015-16	245	1,199
2016-17	262	1,585
Total	2,944	9,219

Appendix 3.15.3
(Refer paragraph 3.15 at page 62)

Statement showing serious irregularities noticed and reported in Inspection Reports

<i>Sl. No.</i>	<i>Name of the objection</i>	<i>Number of Paragraphs</i>	<i>Amount (₹ in Lakh)</i>
A. Non-Compliance with rules and regulations			
1	Infructuous/ Unfruitful/ Avoidable/ Extra liability/Excess expenditure	110	36,112.63
2	Inadmissible/irregular payment	13	84,859.44
3	Advance payment/less recovery of advance	27	6,744.48
Sub total (A)		150	1,27,716.55
B. Audit against propriety / expenditure without justification			
4	Excess payment to firms/contractors	16	6,930.48
5	Loss, misappropriation and shortage of stores	6	1,175.54
6	Undue financial aid to contractors/firms	40	64,087.48
Sub total (B)		62	72,193.5
C. Persistent and pervasive irregularities			
7	Idle store/surplus/unserviceable store/blockage of Government money	41	25,572.60
8	Retention of un-disbursed amount	1	400
9	Demurrage/penalty	14	2,802.37
10	Short/non realisation of Government dues	49	21,877.12
Sub total (C)		105	50,652.09
D. Failure of oversight / governance			
11	Irregular purchase/Non-accountal of stock/Non-adjustment of cost of materials	2	507.87
12	Non-recovery of dues from firms/contractors and others	10	3,348.95
13	Under utilisation of departmental machinery	3	434.08
Sub total (D)		15	4,290.9
Grand total (A+B+C+D)		332	2,54,853.04