

Appendix 2 - Work Programme under (Unconstrained) Budget Scenario

Work space name:Jhunjhunu_2ndJan24, Survey year:2023, Budget: Unconstrained

Analysis Year	Road Code	Road Name	Section Start	Section End	Road Class	Length (km)	Surface Class	Roughness	AADT	VC Ratio	Work Description	NPV/CAP	Cost in Millions	Cum. Cost in Millions
2024	MDR082	Bissau To Loharu Up To District Border Via Mandrella, Pilani.	MDR082:25452	MDR082:27700	MD	2.248	Bituminous	6.66	4676	0.14	Rehabilitation Low	5.32	7.44	7.44
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:22732	MDR025B:23925	MD	1.193	Bituminous	5.78	3958	0.97	Single Lane to 2Lane PS	5.19	29.24	36.68
	MDR082	Bissau To Loharu Up To District Border Via Mandrella, Pilani.	MDR082:38806	MDR082:40900	MD	2.094	Bituminous	4.81	4676	0.14	Overlay 30mm	5.01	2.81	39.49
	MDR082	Bissau To Loharu Up To District Border Via Mandrella, Pilani.	MDR082:30300	MDR082:33519	MD	3.219	Bituminous	6.38	4676	0.14	Rehabilitation Low	4.92	10.66	50.15
	MDR082	Bissau To Loharu Up To District Border Via Mandrella, Pilani.	MDR082:27700	MDR082:30300	MD	2.600	Bituminous	6.14	4676	0.14	Rehabilitation Low	4.39	8.61	58.76
	MDR093	Badagaon (Sh-37) To Nizampura Up To State Border Via Chanana, Jasrapur, Rajota.	MDR093:14947	MDR093:17200	MD	2.253	Bituminous	4.84	3922	0.1	Overlay 30mm	4.14	3.03	61.79
	MDR064	Pilani (Sh-13) Pachheri Kalan Up To State Border Via Surajgarh, Bhuhana.	MDR064:37200	MDR064:39900	MD	2.700	Bituminous	5.25	4734	0.16	Overlay 30mm	4.09	3.63	65.42
	MDR093	Badagaon (Sh-37) To Nizampura Up To State Border Via Chanana, Jasrapur, Rajota.	MDR093:20170	MDR093:22630	MD	2.460	Bituminous	5.25	3922	0.1	Overlay 30mm	3.84	3.31	68.73
	MDR093	Badagaon (Sh-37) To Nizampura Up To State Border Via Chanana, Jasrapur, Rajota.	MDR093:0	MDR093:4019	MD	4.019	Bituminous	4.85	3922	0.1	Overlay 30mm	3.28	5.40	74.13
	MDR064	Pilani (Sh-13) Pachheri Kalan Up To State Border Via Surajgarh, Bhuhana.	MDR064:33928	MDR064:37200	MD	3.272	Bituminous	4.73	4734	0.16	Overlay 30mm	3.25	4.40	78.53
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:14650	MDR025B:16800	MD	2.150	Bituminous	5.3	3963	0.1	Overlay 30mm	2.75	2.89	81.42
	MDR082	Bissau To Loharu Up To District Border Via Mandrella, Pilani.	MDR082:33519	MDR082:38806	MD	5.287	Bituminous	3.91	4676	0.14	Overlay 30mm	2.74	7.11	88.53
	MDR064	Pilani (Sh-13) Pachheri Kalan Up To State Border Via Surajgarh, Bhuhana.	MDR064:39900	MDR064:45004	MD	5.104	Bituminous	4.59	4734	0.16	Overlay 30mm	2.69	6.86	95.39
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:35000	MDR025B:38254	MD	3.254	Bituminous	5.01	3958	0.1	Overlay 30mm	2.65	4.37	99.76
	MDR093	Badagaon (Sh-37) To Nizampura Up To State Border Via Chanana, Jasrapur, Rajota.	MDR093:6580	MDR093:8650	MD	2.070	Bituminous	4.42	3926	0.1	Overlay 30mm	2.59	2.78	102.54
	MDR093	Badagaon (Sh-37) To Nizampura Up To State Border Via Chanana, Jasrapur, Rajota.	MDR093:8650	MDR093:10700	MD	2.050	Bituminous	4.35	3926	0.1	Overlay 30mm	2.49	2.76	105.3
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:2100	MDR160:5400	MD	3.300	Bituminous	4.79	1615	0.23	Overlay 30mm	2.20	3.48	108.78
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:16800	MDR025B:18900	MD	2.100	Bituminous	6.01	3963	0.1	Rehabilitation Low	2.04	6.95	115.73
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:23925	MDR025B:26844	MD	2.919	Bituminous	4.36	3958	0.1	Overlay 30mm	1.80	3.92	119.65
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:26844	MDR025B:28900	MD	2.056	Bituminous	4.29	3958	0.1	Overlay 30mm	1.76	2.76	122.41
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:28900	MDR025B:31000	MD	2.100	Bituminous	4.25	3958	0.1	Overlay 30mm	1.72	2.82	125.23
	MDR093	Badagaon (Sh-37) To Nizampura Up To State Border Via Chanana, Jasrapur, Rajota.	MDR093:4019	MDR093:6580	MD	2.561	Bituminous	3.64	3926	0.1	Overlay 30mm	1.71	3.44	128.67
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:33000	MDR025B:35000	MD	2.000	Bituminous	4.11	3958	0.1	Overlay 30mm	1.59	2.69	131.36
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:42096	MDR160:44700	MD	2.604	Bituminous	7.43	1617	0.23	Rehabilitation Low	1.54	6.77	138.13
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:31000	MDR025B:33000	MD	2.000	Bituminous	4.04	3958	0.1	Overlay 30mm	1.45	2.69	140.82
	MDR082	Bissau To Loharu Up To District Border Via Mandrella, Pilani.	MDR082:40900	MDR082:44660	MD	3.760	Bituminous	4.41	4676	0.67	Single Lane to 2Lane PS	1.28	92.17	232.99
	MDR064	Pilani (Sh-13) Pachheri Kalan Up To State Border Via Surajgarh, Bhuhana.	MDR064:9100	MDR064:13704	MD	4.604	Bituminous	7.55	4731	0.76	Single Lane to 2Lane PS	1.17	112.86	345.85
	MDR064	Pilani (Sh-13) Pachheri Kalan Up To State Border Via Surajgarh, Bhuhana.	MDR064:0	MDR064:2100	MD	2.100	Bituminous	7.09	4731	0.76	Single Lane to 2Lane PS	1.14	51.48	397.33
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:49700	MDR234:51900	MD	2.200	Bituminous	5.77	707	0.24	Overlay 30mm	1.08	1.48	398.81
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:46700	MDR160:49000	MD	2.300	Bituminous	6.62	1617	0.23	Rehabilitation Low	1.07	5.98	404.79
	MDR064	Pilani (Sh-13) Pachheri Kalan Up To State Border Via Surajgarh, Bhuhana.	MDR064:4800	MDR064:6800	MD	2.000	Bituminous	7.23	4731	0.76	Single Lane to 2Lane PS	1.03	49.03	453.82
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:16400	MDR234:18600	MD	2.200	Bituminous	5.92	1147	0.14	Overlay 30mm	1.01	2.32	456.14

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Analysis Year	Road Code	Road Name	Section Start	Section End	Road Class	Length (km)	Surface Class	Roughness	AADT	VC Ratio	Work Description	NPV/CAP	Cost in Millions	Cum. Cost in Millions
2024	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:47700	MDR234:49700	MD	2.000	Bituminous	5.68	707	0.24	Overlay 30mm	1.01	1.34	457.48
	MDR064	Pilani (Sh-13) Pachari Kalan Up To State Border Via Surajgarh, Bhuhana.	MDR064:6800	MDR064:9100	MD	2.300	Bituminous	7.07	4731	0.76	Single Lane to 2Lane PS	0.98	56.38	513.86
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:79400	MDR234:82396	MD	2.996	Bituminous	12.18	704	0.24	Reconstruction Low	0.93	11.82	525.68
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:75400	MDR234:77400	MD	2.000	Bituminous	12.07	704	0.24	Reconstruction Low	0.90	7.89	533.57
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:45400	MDR234:47700	MD	2.300	Bituminous	7.56	707	0.24	Rehabilitation Low	0.90	3.81	537.38
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:91100	MDR234:93100	MD	2.000	Bituminous	7.57	704	0.24	Rehabilitation Low	0.89	3.31	540.69
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:93100	MDR234:95100	MD	2.000	Bituminous	7.35	704	0.24	Rehabilitation Low	0.78	3.31	544
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:77400	MDR234:79400	MD	2.000	Bituminous	11.54	704	0.24	Reconstruction Low	0.75	7.89	551.89
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:40540	MDR025B:42600	MD	2.060	Bituminous	3.67	2021	0.06	Overlay 30mm	0.71	2.77	554.66
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:101200	MDR234:105104	MD	3.904	Bituminous	11.08	704	0.24	Reconstruction Low	0.61	15.40	570.06
	MDR064	Pilani (Sh-13) Pachari Kalan Up To State Border Via Surajgarh, Bhuhana.	MDR064:2100	MDR064:4800	MD	2.700	Bituminous	5.03	4731	0.76	Single Lane to 2Lane PS	0.52	66.19	636.25
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:5400	MDR160:11169	MD	5.769	Bituminous	3.42	1615	0.68	Overlay 30mm	0.49	3.88	640.13
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:95100	MDR234:97100	MD	2.000	Bituminous	6.71	704	0.24	Rehabilitation Low	0.49	3.31	643.44
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:18600	MDR234:20600	MD	2.000	Bituminous	7.04	1147	0.14	Rehabilitation Low	0.47	5.20	648.64
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:38492	MDR160:42096	MD	3.604	Bituminous	10.77	1615	0.68	Reconstruction Low	0.36	14.22	662.86
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:68110	MDR234:70700	MD	2.590	Bituminous	4.63	704	0.24	Overlay 30mm	0.36	1.74	664.6
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:34485	MDR160:38492	MD	4.007	Bituminous	10.16	1615	0.68	Reconstruction Low	0.34	15.81	680.41
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:5289	MDR234:10900	MD	5.611	Bituminous	4.68	1147	0.14	Overlay 30mm	0.31	5.93	686.34
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:36700	MDR234:38800	MD	2.100	Bituminous	5.76	704	0.02	Overlay 30mm	0.25	2.02	688.36
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:51900	MDR234:55063	MD	3.163	Bituminous	4.4	707	0.24	Overlay 30mm	0.21	2.13	690.49
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:38800	MDR234:41100	MD	2.300	Bituminous	5.65	704	0.02	Overlay 30mm	0.21	2.21	692.7
			VCR >= 0 and VCR <= 0.3			114.144	(km)				Total cost (Millions Rs.):		692.70	
			VCR > 0.3 and VCR <= 0.5			0.000	(km)				Total cost (Lakh Rs.):		6,927.00	
			VCR > 0.5			32.037	(km)				Total cost (Crore Rs.):		69.27	

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Analysis Year	Road Code	Road Name	Section Start	Section End	Road Class	Length (km)	Surface Class	Roughness	AADT	VC Ratio	Work Description	NPV/CAP	Cost in Millions	Cum. Cost in Millions
2025	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:0	MDR160:2100	MD	2.100	Bituminous	4.82	1718	0.25	Overlay 30mm	7.20	2.22	2.22
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:4100	MDR025B:6100	MD	2.000	Bituminous	10.01	4223	0.52	Single Lane to 2Lane PS	1.19	49.03	51.25
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:2100	MDR025B:4100	MD	2.000	Bituminous	9.89	4223	0.52	Single Lane to 2Lane PS	1.16	49.03	100.28
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:0	MDR025B:2100	MD	2.100	Bituminous	8.2	4223	0.52	Single Lane to 2Lane PS	0.81	51.48	151.76
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:8100	MDR025B:10200	MD	2.100	Bituminous	7.62	4223	0.52	Single Lane to 2Lane PS	0.71	51.48	203.24
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:58100	MDR234:61200	MD	3.100	Bituminous	7.12	751	0.25	Rehabilitation Low	0.63	5.13	208.37
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:6100	MDR025B:8100	MD	2.000	Bituminous	7.07	4223	0.52	Single Lane to 2Lane PS	0.60	49.03	257.4
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:12500	MDR025B:14650	MD	2.150	Bituminous	6.8	4223	0.52	Single Lane to 2Lane PS	0.55	52.70	310.1
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:10200	MDR025B:12500	MD	2.300	Bituminous	6.71	4223	0.52	Single Lane to 2Lane PS	0.54	56.38	366.48
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:18900	MDR025B:22732	MD	3.832	Bituminous	6.48	4223	0.52	Single Lane to 2Lane PS	0.51	93.94	460.42
			VCR >= 0 and VCR <= 0.3			5.200	(km)				Total cost (Millions Rs.):	460.42		
			VCR > 0.3 and VCR <= 0.5			0.000	(km)				Total cost (Lakh Rs.):	4,604.20		
			VCR > 0.5			18.482	(km)				Total cost (Crore Rs.):	46.04		

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Analysis Year	Road Code	Road Name	Section Start	Section End	Road Class	Length (km)	Surface Class	Roughness	AADT	VC Ratio	Work Description	NPV/CAP	Cost in Millions	Cum. Cost in Millions
2026	MDR093	Badagaon (Sh-37) To Nizampura Up To State Border Via Chanana, Jasrapur, Rajota.	MDR093:12800	MDR093:14947	MD	2.147	Bituminous	4.11	4454	0.11	Overlay 30mm	2.41	2.89	2.89
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:61200	MDR234:63200	MD	2.000	Bituminous	7	800	0.27	Rehabilitation Low	0.60	3.31	6.2
			VCR >= 0 and VCR <= 0.3			4.147	(km)				Total cost (Millions Rs.):	6.20		
			VCR > 0.3 and VCR <= 0.5			0.000	(km)				Total cost (Lakh Rs.):	62.00		
			VCR > 0.5			0.000	(km)				Total cost (Crore Rs.):	0.62		

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2027	MDR093	Badagaon (Sh-37) To Nizampura Up To State Border Via Chanana, Jasrapur, Rajota.	MDR093:17200	MDR093:20170	MD	2.970	Bituminous	3.8	4740	0.12	Overlay 30mm	2.71	3.99	3.99
	MDR025B	Golyana (Sh-37B) To Mandawa Via Nawalgarh.	MDR025B:42600	MDR025B:48000	MD	5.400	Bituminous	3.87	2436	0.07	Overlay 30mm	0.77	7.26	11.25
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:30300	MDR234:32400	MD	2.100	Bituminous	6.67	853	0.29	Rehabilitation Low	0.39	3.48	14.73
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:32400	MDR234:34700	MD	2.300	Bituminous	6.61	853	0.29	Rehabilitation Low	0.38	3.81	18.54
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:34700	MDR234:36700	MD	2.000	Bituminous	6.31	853	0.29	Rehabilitation Low	0.24	3.31	21.85
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:10900	MDR234:14400	MD	3.500	Bituminous	4.31	1389	0.16	Overlay 30mm	0.00	3.70	25.55
			VCR >= 0 and VCR <= 0.3			18.270	(km)				Total cost (Millions Rs.):	25.55		
		VCR > 0.3 and VCR <= 0.5				0.000	(km)				Total cost (Lakh Rs.):	255.50		
		VCR > 0.5				0.000	(km)				Total cost (Crore Rs.):	2.55		

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2028	MDR082	Bissau To Loharu Up To District Border Via Mandrella, Pilani.	MDR082:4660	MDR082:6920	MD	2.260	Bituminous	3.04	5980	0.17	Overlay 30mm	39.56	3.04	3.04
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:5400	MDR160:11169	MD	5.769	Bituminous	2.78	2070	0.79	Single Lane to 2Lane PS	0.49	141.42	144.46
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:38492	MDR160:42096	MD	3.604	Bituminous	2.26	2070	0.79	Single Lane to 2Lane PS	0.36	88.35	232.81
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:34485	MDR160:38492	MD	4.007	Bituminous	2.27	2070	0.79	Single Lane to 2Lane PS	0.34	98.23	331.04
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:49000	MDR160:51072	MD	2.072	Bituminous	10.34	2072	0.79	Single Lane to 2Lane PS	0.33	50.79	381.83
	MDR160	Sultan Gurha Bhatiyar Ker Kakariya Bhagoli Sarai Neemkathana	MDR160:44700	MDR160:46700	MD	2.000	Bituminous	10.26	2072	0.79	Single Lane to 2Lane PS	0.31	49.03	430.86
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:82396	MDR234:84510	MD	2.114	Bituminous	4.85	910	0.3	Overlay 30mm	0.25	1.52	432.38
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:43390	MDR234:45400	MD	2.010	Bituminous	9.52	913	0.31	Reconstruction Low	0.19	7.93	440.31
	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:28300	MDR234:30300	MD	2.000	Bituminous	9.01	910	0.3	Reconstruction Low	0.06	7.89	448.2

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2028	MDR234	Mandawa Ramgarh Rosawa Dantru Batranu Jajod Narsas Dotasara Patoda Phagalwa Up To Sh - 20	MDR234:73400	MDR234:75400	MD	2.000	Bituminous	8.76	910	0.3	Reconstruction Low	0.01	7.89	456.09
						VCR >= 0 and VCR <= 0.3	8.374 (km)				Total cost (Millions Rs.):		456.09	
						VCR > 0.3 and VCR <= 0.5	2.010 (km)				Total cost (Lakh Rs.):		4,560.90	
						VCR > 0.5	17.452 (km)				Total cost (Crore Rs.):		45.61	

Grand Total cost (Millions Rs.):	1,640.96
Grand Total cost (Lakh Rs.):	16,409.60
Grand Total cost (Crore Rs.):	164.10

