

**Details of Chemical Analysis of Channel Samples Collected in Chitrangi Block,
District - Singrauli, Madhya Pradesh**

Sl. No.	Channel Number	Location		Avg. Chemical Analysis					Sample Number	Chemical Analysis					
		Latitude (DD)	Longitude (DD)	T Fe (%)	FeO (%)	SiO ₂ (%)	Al ₂ O ₃ (%)	P (%)		T Fe (%)	FeO (%)	SiO ₂ (%)	Al ₂ O ₃ (%)	P (%)	S (%)
1	Channel 01	24° 29' 50.85" N	82° 34' 37.48" E	36.44	3.80	43.62	0.50	0.35	CTRCH-1/01	45.50	3.74	28.66	0.84	0.36	<0.01
									CTRCH-1/02	38.59	2.66	39.30	0.64	0.28	0.01
									CTRCH-1/03	31.63	6.55	51.44	0.48	0.15	<0.01
									CTRCH-1/04	30.05	2.23	55.07	0.03	0.59	<0.01
2	Channel 02	24° 29' 41.52" N	82° 33' 44.75" E	27.53	2.628	49.03	0.146	4.788	CTRCH-2/01	16.07	7.42	52.18	0.05	13.34	0.01
									CTRCH-2/02	16.08	5.69	53.34	0.11	12.43	0.02
									CTRCH-2/03	32.78	1.30	47.85	0.29	0.53	0.07
									CTRCH-2/04	35.31	0.43	44.72	0.19	0.79	0.08
									CTRCH-2/05	33.94	0.58	46.13	0.06	0.40	0.01
									CTRCH-2/06	30.99	0.36	49.95	0.19	1.25	0.06
3	Channel 03	24° 29' 35.46" N	82° 33' 23.62" E	38.87	6.048	41.22	0.329	0.298	CTRCH-3/01	32.46	7.85	50.90	0.30	0.22	0.01
									CTRCH-3/02	39.13	7.20	41.57	0.30	0.23	0.01
									CTRCH-3/03	45.00	3.10	31.21	0.39	0.44	0.01
4	Channel 04	24° 29' 31.12" N	82° 33' 6.83" E	30.01	2.316	53.57	0.083	0.837	CTRCH-4/01	30.67	2.38	54.09	0.04	0.71	<0.01
									CTRCH-4/02	32.08	1.87	49.89	0.08	1.35	<0.01
									CTRCH-4/03	30.69	2.16	52.88	0.10	0.70	0.01
									CTRCH-4/04	26.64	2.38	59.47	0.09	0.87	0.01
									CTRCH-4/05	27.58	1.80	54.28	0.13	0.64	0.02
									CTRCH-4/06	32.40	3.31	50.78	0.06	0.74	<0.01

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5	Channel 05	24° 29' 37.57" N	82° 33' 39.8" E	37.72	4.404	42.18	0.47	0.24	CTRCH-5/01	42.53	3.96	34.43	0.49	0.30	0.01
									CTRCH-5/02	45.58	2.59	29.08	0.61	0.37	0.01
									CTRCH-5/03	43.68	1.73	32.20	0.65	0.36	<0.01
									CTRCH-5/04	33.35	5.47	49.52	0.40	0.11	0.01
									CTRCH-5/05	30.34	6.19	53.95	0.41	0.16	<0.01
									CTRCH-5/06	30.82	6.48	53.93	0.27	0.13	0.01
6	Channel 06	24° 29' 45.31" N	82° 33' 58.55" E	39.01	0.624	33.76	0.057	1.762	CTRCH-6/01	40.81	0.36	31.41	0.06	1.66	0.01
									CTRCH-6/02	39.67	0.36	33.01	0.06	1.58	0.01
									CTRCH-6/03	39.84	0.65	33.25	0.07	1.51	0.01
									CTRCH-6/04	37.61	0.79	34.42	0.05	1.98	0.01
									CTRCH-6/05	36.97	0.36	36.80	0.05	2.27	0.02
									CTRCH-6/06	39.15	1.22	33.67	0.05	1.57	0.01
7	Channel 07	24° 29' 52.05" N	82° 34' 40.59" E	40.82	4.32	37.52	0.468	0.296	CTRCH-7/01	35.97	5.54	44.35	0.46	0.40	<0.01
									CTRCH-7/02	48.73	2.74	24.57	0.56	0.35	<0.01
									CTRCH-7/03	51.41	5.90	21.69	0.65	0.31	<0.01
									CTRCH-7/04	26.31	1.66	60.22	0.33	0.19	<0.01
									CTRCH-7/05	42.87	3.46	33.33	0.52	0.39	0.01
									CTRCH-7/06	47.42	7.85	27.38	0.53	0.26	0.01
									CTRCH-7/07	33.05	3.10	51.09	0.22	0.16	0.01
8	Channel 08	24° 29' 40.42" N	82° 33' 53.44" E	40.55	3.27	37.48	0.31	0.52	CTRCH-8/01	41.76	3.60	35.47	0.50	0.37	0.01
									CTRCH-8/02	40.69	2.66	37.15	0.48	0.42	0.01
									CTRCH-8/03	32.52	5.11	50.01	0.38	0.16	0.01
									CTRCH-8/04	46.57	2.52	29.11	0.51	0.29	<0.01
									CTRCH-8/05	44.23	2.02	28.90	1.08	0.26	0.01
									CTRCH-8/06	30.82	6.12	53.79	0.28	0.17	0.01
									CTRCH-8/07	44.06	3.17	32.60	0.53	0.28	0.01
									CTRCH-8/08	36.18	1.87	44.84	0.24	0.44	0.01
									CTRCH-8/09	48.15	2.38	25.43	0.72	0.37	<0.01

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9	Channel 09	24° 29' 1.65" N	82° 31' 32.23" E	29.58	1.49	55.41	0.88	0.04	CTRCH-9/01	26.11	1.44	60.48	0.04	0.95	<0.01
									CTRCH-9/02	32.70	1.51	50.84	0.06	1.00	<0.01
									CTRCH-9/03	29.95	1.51	54.92	0.03	0.69	0.01
10	Channel 10	24° 28' 32.55" N	82° 30' 19.25" E	29.76	3.76	53.75	0.61	0.45	CTRCH-10/01	29.76	3.96	52.98	0.58	0.69	<0.01
									CTRCH-10/02	30.19	3.74	53.40	0.41	0.57	<0.01
									CTRCH-10/03	28.60	3.67	56.22	0.25	0.65	<0.01
									CTRCH-10/04	31.84	3.60	49.99	0.59	0.69	<0.01
									CTRCH-10/05	28.90	3.96	55.09	0.46	0.57	<0.01
									CTRCH-10/06	28.84	4.10	55.47	0.41	0.58	<0.01
									CTRCH-10/07	30.19	3.31	53.12	0.47	0.52	<0.01
11	Channel 11	24° 29' 14.19" N	82° 32' 53.41" E	14.45	1.19	58.9	9.17	0.07	CTRCH-11/01	13.51	0.72	62.16	0.10	8.10	0.01
									CTRCH-11/02	14.96	1.30	57.29	0.06	9.59	0.01
									CTRCH-11/03	14.97	1.30	57.70	0.05	9.49	0.01
									CTRCH-11/04	14.35	1.44	58.45	0.05	9.50	0.01
12	Channel 12	24° 29' 18.37" N	82° 32' 32.5" E	31.58	1.42	52.58	0.83	0.04	CTRCH-12/01	32.65	1.22	51.34	0.03	0.72	<0.01
									CTRCH-12/02	30.93	1.08	53.24	0.06	0.67	<0.01
									CTRCH-12/03	31.18	1.94	53.17	0.02	1.10	<0.01
13	Channel 13	24° 28' 29.76" N	82° 30' 21.7" E	11.4	3.93	68.14	7.79	0.2	CTRCH-13/01	10.12	3.24	71.60	0.28	6.88	0.01
									CTRCH-13/02	11.69	4.18	67.15	0.19	8.06	0.01
									CTRCH-13/03	12.99	5.18	64.37	0.15	8.55	0.01
									CTRCH-13/04	8.94	2.16	74.56	0.23	6.31	0.01
									CTRCH-13/05	13.24	4.90	63.00	0.15	9.14	0.01
14	Channel 14	24° 29' 18.37" N	82° 32' 16.77" E	32.89	1.01	51.03	0.54	0.05	CTRCH-14/01	37.52	1.08	44.12	0.09	0.38	<0.01
									CTRCH-14/02	29.86	1.44	55.51	0.03	0.55	<0.01
									CTRCH-14/03	31.29	0.50	53.45	0.03	0.70	0.01
15	Channel 15	24° 29' 12.74" N	82° 32' 23.23" E	14.93	0.52	63.92	7.2	0.18	CTRCH-15/01	14.55	0.43	64.95	0.18	6.67	0.01
									CTRCH-15/02	13.12	0.50	69.79	0.22	5.31	0.01
									CTRCH-15/03	16.08	0.65	60.18	0.16	8.47	0.01
									CTRCH-15/04	15.96	0.50	60.77	0.16	8.35	0.01

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16	Channel 16	24° 29' 4.59" N	82° 31' 50.88" E	15.74	0.65	64.74	6.13	0.15	CTRCH-16/01	16.64	0.72	59.04	0.10	9.21	0.03
									CTRCH-16/02	15.32	0.79	62.51	0.09	8.36	0.03
									CTRCH-16/03	14.43	0.72	71.63	0.22	2.70	0.02
									CTRCH-16/04	16.56	0.36	65.79	0.20	4.26	0.03
17	Channel 17	24° 29' 26.74" N	82° 32' 43.08" E	24.2	1.33	59.9	0.86	0.28	CTRCH-17/01	25.32	2.16	59.28	0.13	0.72	0.01
									CTRCH-17/02	23.08	0.50	60.53	0.43	1.00	0.01
18	Channel 18	24° 29' 38.58" N	82° 33' 49.16" E	48.21	2.25	26.27	0.28	0.58	CTRCH-18/01	53.89	0.86	18.74	0.52	0.28	<0.01
									CTRCH-18/02	50.34	1.30	23.15	0.59	0.30	<0.01
									CTRCH-18/03	48.95	2.16	25.34	0.52	0.28	<0.01
									CTRCH-18/04	49.80	1.22	23.50	0.66	0.26	<0.01
									CTRCH-18/05	45.12	2.59	30.65	0.59	0.26	0.01
									CTRCH-18/06	52.72	1.87	19.63	0.66	0.31	<0.01
									CTRCH-18/07	45.68	3.89	30.04	0.57	0.26	0.01
									CTRCH-18/08	46.52	3.10	29.33	0.45	0.31	0.01
									CTRCH-18/09	49.29	1.80	24.88	0.47	0.23	0.01
									CTRCH-18/10	39.55	2.81	38.65	0.56	0.28	0.02
19	Channel 19	24° 28' 42.66" N	82° 30' 34.61" E	12.59	1.04	72.72	3.86	0.28	CTRCH-18/11	48.45	3.10	25.11	0.74	0.26	<0.01
									CTRCH-19/01	10.65	0.50	76.58	0.11	3.32	0.03
20	Channel 20	24° 28' 53.5" N	82° 31' 6.1" E	30.37	0.58	54.91	0.44	0.06	CTRCH-19/02	14.53	1.58	68.86	0.46	4.40	0.02
									CTRCH-20/01	30.37	0.58	54.91	0.06	0.44	<0.01
21	Channel 21	24° 28' 37.72" N	82° 30' 5.81" E	25.25	2.74	54.3	4.16	0.21	CTRCH-21/01	11.17	3.24	68.17	0.21	7.97	0.01
									CTRCH-21/02	39.33	2.23	40.42	0.21	0.34	0.01
22	Channel 22	24° 29' 49.99" N	82° 34' 10.86" E	34.67	0.5	48.67	0.45	0.05	CTRCH-22/01	35.59	0.50	46.82	0.05	0.46	<0.01
									CTRCH-22/02	33.75	0.50	50.52	0.04	0.43	<0.01