

Generated River Discharge
of Madi River at Confluence of Seti River

Generated Daily River Discharge (m3/sec)

Location : End of Madi River : Madi

Index No. : Drainage area : 1,102 km2

Note : DNA means data not acquired

Year	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
1	27.87	34.94	21.32	14.77	23.50	41.23	27.87	34.94	24.79	22.61	29.54	28.38	26.20
2	28.90	34.94	21.32	14.77	22.48	42.51	25.56	36.22	24.79	22.61	30.44	28.38	25.30
3	28.90	33.65	20.29	13.87	22.48	42.51	25.56	36.22	24.79	22.61	29.54	28.38	25.30
4	27.87	33.65	20.29	13.87	22.48	41.23	25.56	34.94	24.02	21.83	29.54	27.23	25.30
5	27.87	33.65	19.14	13.87	21.32	41.23	24.40	34.94	24.02	21.83	28.77	27.23	25.30
6	26.72	32.37	19.14	13.87	21.32	39.94	24.02	34.94	24.02	21.83	27.87	27.23	24.27
7	25.69	33.65	19.14	14.77	21.32	41.23	23.38	34.94	23.38	21.83	27.10	26.20	24.27
8	25.69	32.37	19.14	13.87	21.32	41.23	23.38	34.94	23.38	21.83	27.10	62.68	24.27
9	25.69	33.65	19.14	12.97	21.32	41.23	23.38	33.65	22.61	21.83	26.20	48.29	24.27
10	24.53	33.65	18.11	12.97	21.32	39.94	22.35	33.65	22.61	21.19	27.10	33.14	23.38
11	24.53	33.65	18.11	12.97	21.32	38.66	22.35	34.94	22.61	21.19	27.10	29.54	23.38
12	24.53	33.65	18.11	12.97	20.29	37.50	21.32	33.65	22.61	20.42	27.10	28.38	24.27
13	24.53	36.22	18.11	12.97	20.29	37.50	21.32	33.65	22.61	20.42	26.20	28.38	23.38
14	24.53	32.37	16.95	12.97	19.14	37.50	21.32	32.37	22.61	19.78	26.20	28.38	24.27
15	23.50	31.08	16.95	12.97	19.14	36.22	21.32	32.37	22.61	19.78	25.43	28.38	24.27
16	23.50	31.08	16.95	12.97	19.14	36.22	21.32	31.08	21.83	19.78	25.43	27.23	25.30
17	23.50	30.05	15.93	12.97	19.14	36.22	22.35	32.37	21.19	19.78	25.43	27.23	24.27
18	23.50	30.05	16.95	12.97	19.14	36.22	22.35	32.37	21.19	19.78	25.43	26.20	24.27
19	23.50	30.05	16.95	12.03	19.14	36.22	21.32	31.08	20.42	19.78	25.43	26.20	25.30
20	23.50	30.05	15.93	12.03	19.14	37.50	21.32	31.08	19.78	19.78	25.43	26.20	25.30
21	23.50	28.90	15.93	12.03	19.14	36.22	20.29	30.05	19.01	19.78	25.43	26.20	25.30
22	23.50	28.90	15.93	12.97	19.14	37.50	20.29	30.05	19.01	19.78	25.43	26.20	25.30
23	22.35	28.90	15.93	12.97	19.14	37.50	20.29	30.05	19.01	19.01	24.79	26.20	25.30
24	23.60	28.90	15.93	12.03	18.11	36.22	19.27	28.90	18.37	19.01	24.79	27.23	24.27
25	22.35	28.90	15.93	14.77	18.11	36.22	19.27	28.90	18.37	19.01	24.79	26.20	25.30
26	22.35	28.90	15.93	12.03	21.32	36.22	19.27	28.90	19.01	19.01	24.02	26.20	25.30
27	21.32	28.90	14.77	12.03	38.40	34.94	19.27	27.87	19.01	19.01	24.02	27.23	24.27
28	21.32	28.90	15.93	12.03	23.50	34.94	18.24	28.90	18.37	19.01	23.38	27.23	23.38
29	22.35	31.08	15.93	12.03	21.32	38.66	18.24	27.87	19.78	19.01	23.38	27.23	22.35
30	21.32	28.90	15.93	10.21	20.29	38.66	18.24	27.87	18.37	19.01	23.38	27.23	22.35
31	21.32	28.90	15.93	12.97	19.14	37.50	18.24	27.87	18.37	19.01	23.38	27.23	21.32

Location : End of Madi River River : Madi
 Index No. : 1,102 km2
 Drainage area

Year	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Month	2	2	2	2	2	2	2	2	2	2	2	2	2
Day	21.32	28.90	15.93	12.03	22.48	36.22	18.24	27.87	17.85	18.37	24.02	27.23	21.32
1	20.16	27.87	15.93	11.12	19.14	36.22	19.27	26.72	17.85	18.37	24.02	27.23	20.42
2	20.16	27.87	18.11	11.12	19.14	34.94	20.29	27.87	17.85	18.37	24.02	26.20	20.42
3	20.16	27.87	16.95	11.12	20.29	34.94	18.24	26.72	17.85	18.37	24.02	26.20	20.42
4	20.16	27.87	15.93	11.12	20.29	34.94	18.24	26.72	17.85	18.37	23.38	27.23	20.42
5	19.27	26.72	14.77	11.12	18.11	34.94	17.21	32.37	17.85	18.37	24.79	26.20	20.42
6	19.27	27.87	14.77	12.03	18.11	33.65	17.21	26.72	17.85	18.37	24.02	26.20	19.39
7	21.32	43.80	15.93	11.12	22.48	33.65	16.18	27.87	17.21	18.37	24.79	25.30	20.42
8	20.16	30.05	14.77	10.21	22.48	33.65	16.18	28.90	17.21	17.85	24.02	24.27	20.42
9	19.27	30.05	14.77	12.03	19.14	33.65	15.16	27.87	17.85	17.85	23.38	23.38	19.39
10	19.27	28.90	14.77	10.21	19.14	33.65	15.16	26.72	17.21	17.85	23.38	23.38	27.23
11	19.27	28.90	14.77	10.21	18.11	33.65	14.13	27.87	17.21	17.85	22.61	23.38	21.32
12	19.27	28.90	14.77	10.21	18.11	33.65	14.13	26.72	17.21	17.85	24.02	24.27	21.32
13	20.16	28.90	15.93	10.21	19.14	32.37	15.16	26.72	17.21	18.37	24.79	23.38	27.23
14	20.16	28.90	14.77	10.21	18.11	32.37	14.13	26.72	19.01	17.85	23.38	22.35	24.27
15	19.27	27.87	14.77	10.21	18.11	32.37	14.13	26.72	17.85	17.85	22.61	22.35	21.32
16	19.27	27.87	16.95	10.21	21.32	32.37	16.18	25.69	17.85	17.85	21.83	22.35	21.32
17	20.16	27.87	15.93	10.21	22.48	32.37	16.18	25.69	17.85	18.37	21.83	22.35	21.32
18	33.65	27.87	13.87	10.21	20.29	31.08	15.16	25.69	17.85	17.85	21.83	23.38	20.42
19	24.53	27.87	12.97	10.21	21.32	32.37	14.13	28.90	17.21	17.21	21.83	23.38	20.42
20	20.16	31.08	12.97	9.30	19.14	32.37	14.13	31.08	17.21	17.21	21.83	22.35	19.39
21	19.27	27.87	13.87	10.21	20.29	36.22	14.13	27.87	16.57	16.57	21.83	22.35	19.39
22	19.27	27.87	13.87	9.30	18.11	42.51	14.13	24.53	16.57	16.57	24.79	23.38	23.38
23	19.27	27.87	13.87	9.30	19.14	38.66	14.13	34.94	16.05	17.85	21.83	21.32	22.35
24	18.37	26.72	18.11	16.95	13.49	36.22	13.49	32.37	16.05	16.05	24.79	21.32	22.35
25	18.37	26.72	19.14	9.30	16.95	34.94	13.49	37.50	15.41	16.05	23.38	22.35	21.32
26	19.27	26.72	15.93	9.30	18.11	34.94	13.49	33.65	15.41	17.21	21.83	22.35	20.42
27	20.16	26.72	16.95	9.30	19.14	38.66	13.49	33.65	15.41	16.57	22.61	25.30	24.27
28	19.27	26.72	16.95	9.30	19.14	37.50	12.79	36.22	15.41	17.85	21.83	25.30	21.32
29			15.93				13.49				23.38		

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km²

Year	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Month	1927	2569	2132	1021	2029	3750	1349	4123	1721	1657	2183	2427	2132
1	1927	2569	1593	930	2029	3750	1516	3866	1657	1605	2183	2132	2132
2	1927	2569	1593	930	2466	3750	1413	3750	1605	1605	2183	2235	2132
3	1927	2569	1811	1021	2029	3750	1516	3365	1413	1605	2119	2235	2042
4	1837	2569	2132	930	2029	3622	1413	3494	1541	1541	2338	2132	1939
5	1837	2569	2466	930	2029	3622	1413	3365	2119	1541	2261	2132	1939
6	1927	2569	2132	1112	2569	3494	1516	3365	1837	1605	2183	2235	1939
7	1837	2569	1811	1021	2132	3494	1413	3237	1721	1657	2183	2235	1939
8	1837	2569	1593	930	2132	3750	1516	3365	1605	1657	3378	2235	1939
9	1837	2453	1593	930	2132	3750	1516	3237	1605	1721	2877	2338	2530
10	1927	2453	1477	839	2029	3622	2029	3237	1605	1721	2338	2235	2427
11	1927	2453	1477	839	1811	3750	1516	3108	2710	1721	2338	2235	2235
12	3994	2453	1387	839	1811	3622	3249	2890	4149	1785	2877	2338	2235
13	2890	2453	1387	839	1695	3622	1927	2672	4983	1785	2620	2235	2235
14	2350	2453	1387	748	1695	3622	1616	2569	2620	2338	2402	2235	2132
15	2132	2453	1297	748	1914	3622	1516	2569	1978	1837	2338	2427	2042
16	2132	2453	1477	1112	2132	3750	1413	2453	1901	1837	2338	2338	2132
17	2016	2453	1593	1297	2569	3750	1516	2453	1837	2402	2338	2338	2235
18	2453	2453	1593	1021	3699	3622	1516	2350	1721	2877	2338	2132	2338
19	2569	2569	1593	930	2710	3994	1413	2235	1657	2620	2338	2427	2235
20	2350	2453	1477	1297	2466	3750	1279	2132	1605	1978	2338	3070	2132
21	2132	2453	1477	1695	2569	3622	1279	2235	1605	1901	2183	2530	2954
22	2016	2453	1811	1477	2993	3494	1349	2569	1605	1901	2183	2620	2530
23	2016	2453	2350	1203	2851	3365	1616	2350	1413	1901	2183	3429	3314
24	1927	2453	1811	930	2993	3365	1413	2350	1361	1837	2479	2954	3429
25	1927	2453	1695	839	2851	3365	1279	2235	1361	1785	2338	2723	2530
26	1927	2350	1593	839	2466	3494	1721	2235	1297	1978	2338	2530	2235
27	1837	2350	1477	839	2466	3494	1721	2132	1297	1901	2261	2427	2132
28	1927	2350	1387	839	2466	3237	1516	2672	1297	1837	2261	2338	2042
29	1927	2453	1297	1021	2350	3237	1616	2787	1541	1785	2119	2427	1939
30	1927	2569	1811	1695	2350	3237	1824	2890	1361	1721	2042	2338	1939
31	2016	3237	1593	1914	2569	3365	2132	3494	1361	1657	2183	2235	1939

Location : End of Madi River River : Madi
 Index No. Drainage area : 1,102 km2

Year Month/Day	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
4 1	20.16	36.22	14.77	19.14	25.69	33.65	31.34	26.72	12.97	18.37	21.83	21.32	19.39
4 2	19.27	27.87	13.87	14.77	28.51	33.65	24.40	24.53	12.97	18.37	20.42	34.29	18.50
4 3	19.27	26.72	13.87	13.87	25.69	33.65	19.27	25.69	12.50	20.42	21.19	34.29	18.50
4 4	18.37	28.90	13.87	14.77	27.10	33.65	15.16	24.53	12.50	17.85	21.19	26.20	19.39
4 5	20.16	27.87	14.77	14.77	29.93	32.37	13.49	23.50	12.02	17.85	21.19	26.20	19.39
4 6	19.27	25.69	13.87	16.95	22.37	32.37	12.12	22.35	12.02	17.85	22.61	28.38	19.39
4 7	19.27	25.69	14.77	13.87	25.69	33.65	12.12	20.16	12.02	19.78	22.61	28.38	19.39
4 8	18.37	26.72	15.93	12.97	25.69	33.65	13.49	21.32	11.55	19.01	24.79	30.70	23.38
4 9	20.16	28.90	15.93	12.97	23.50	32.37	12.79	21.32	12.02	27.10	25.43	33.14	27.23
4 10	21.32	28.90	16.95	11.12	25.69	33.65	12.79	32.37	13.61	20.42	23.38	29.54	26.20
4 11	20.16	34.94	14.77	14.77	23.50	34.94	12.12	36.22	24.79	20.42	23.38	27.23	26.20
4 12	21.32	28.90	15.93	16.95	24.66	32.37	12.12	38.66	23.38	18.37	24.02	27.23	29.54
4 13	22.35	27.87	14.77	19.14	23.50	32.37	11.46	41.23	32.11	16.57	22.61	26.20	37.76
4 14	23.50	26.72	15.93	14.77	22.48	38.66	11.46	39.94	67.56	16.05	23.38	25.30	30.70
4 15	25.69	26.72	14.77	19.14	25.69	33.65	15.16	38.66	36.60	16.57	36.60	25.30	28.38
4 16	24.53	37.50	15.93	25.69	28.51	33.65	14.13	36.22	30.44	16.57	30.44	28.38	29.54
4 17	27.87	31.08	14.77	25.69	28.51	33.65	30.18	36.22	21.83	16.57	28.77	25.30	31.85
4 18	31.08	27.87	13.87	34.16	32.75	32.37	24.40	33.65	17.85	17.21	24.79	24.27	28.38
4 19	53.82	26.72	16.95	21.32	28.51	32.37	25.56	33.65	17.21	27.10	24.02	23.38	34.29
4 20	38.66	26.72	18.11	20.29	25.69	31.08	22.35	34.94	17.21	20.42	27.10	23.38	42.90
4 21	27.87	36.22	22.48	20.29	25.69	31.08	17.21	33.65	19.01	19.01	27.87	24.27	35.45
4 22	25.69	34.94	23.50	20.29	24.66	32.37	14.13	52.40	45.47	21.19	24.79	23.38	50.99
4 23	39.94	28.90	32.75	32.75	23.50	38.66	12.79	89.91	40.46	22.61	30.44	26.20	40.20
4 24	38.66	27.87	23.50	25.69	29.93	37.50	16.18	41.23	39.56	23.38	24.79	25.30	36.60
4 25	30.05	28.90	21.32	20.29	27.10	33.65	18.24	34.94	82.71	24.79	24.79	24.27	37.76
4 26	23.50	30.05	20.29	20.29	29.93	37.50	14.13	31.08	24.02	24.79	26.20	25.30	34.29
4 27	26.72	30.05	19.14	19.14	27.10	37.50	15.16	28.90	19.78	21.19	24.02	24.27	36.60
4 28	25.69	31.08	19.14	16.95	25.69	37.50	16.18	26.72	18.78	20.42	24.79	24.27	58.18
4 29	31.08	52.40	22.48	19.14	34.16	48.16	37.50	34.94	19.01	19.01	25.43	24.27	38.92
4 30	30.05	32.37	16.95	21.32	36.99	39.94	40.59	31.08	18.37	35.71	27.10	23.38	34.29

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km²

Year	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
5 1	45.21	43.80	16.95	22.48	27.10	50.99	26.72	37.50	17.85	26.20	27.10	24.27	33.14
5 2	31.08	41.23	19.14	20.29	28.51	41.23	20.29	31.08	19.78	33.01	29.54	30.70	33.14
5 3	34.94	41.23	21.32	23.50	38.40	41.23	19.27	36.22	19.01	30.44	26.20	30.70	29.54
5 4	33.65	37.50	21.32	21.32	47.52	39.94	20.29	37.50	19.01	27.87	26.20	33.14	33.14
5 5	32.37	34.94	25.69	25.69	32.75	69.49	22.35	38.66	19.01	24.02	25.43	33.14	34.29
5 6	50.99	31.08	20.29	34.16	35.58	71.03	85.80	41.23	19.01	27.87	24.79	31.85	34.29
5 7	45.21	30.05	23.50	61.39	34.16	61.39	48.29	37.50	19.01	28.77	24.79	33.14	30.70
5 8	43.80	28.90	21.32	50.60	31.34	48.16	33.65	34.94	19.01	24.79	34.29	28.38	29.54
5 9	36.22	32.37	20.29	35.58	25.69	46.62	156.69	34.94	21.19	29.54	39.56	34.29	29.54
5 10	41.23	27.87	21.32	29.93	36.99	53.82	46.75	37.50	19.78	25.43	27.87	35.45	59.72
5 11	46.62	32.37	21.32	25.69	41.36	49.58	33.65	50.99	19.01	24.79	29.54	37.76	31.85
5 12	43.80	34.94	23.50	25.69	35.58	63.06	31.34	48.16	19.78	22.61	39.56	34.29	52.27
5 13	79.50	33.65	21.32	22.48	47.52	55.36	60.37	43.80	28.77	21.19	31.34	33.14	56.77
5 14	53.82	43.80	18.11	22.48	42.80	50.99	51.38	36.22	30.44	21.83	31.34	34.29	59.72
5 15	59.85	59.85	19.14	25.69	34.16	49.58	48.29	133.58	34.08	20.42	31.34	30.70	49.58
5 16	66.27	253.02	21.32	29.93	32.75	53.82	205.50	88.24	49.83	21.19	28.77	33.14	46.88
5 17	67.82	49.58	24.66	27.10	29.93	53.82	105.32	77.71	53.04	20.42	27.87	55.23	73.85
5 18	64.60	43.80	21.32	25.69	28.51	52.40	81.69	50.99	38.53	21.83	58.95	37.76	65.63
5 19	61.39	38.66	23.50	25.69	27.10	49.58	56.77	58.18	29.54	20.42	52.02	52.27	59.72
5 20	59.85	41.23	20.29	27.10	27.10	53.82	51.38	46.62	27.87	21.19	60.11	42.90	58.18
5 21	86.44	53.82	25.69	36.99	25.69	50.99	65.76	52.40	25.43	23.38	37.63	80.53	64.22
5 22	59.85	76.04	25.69	29.93	25.69	55.36	73.47	43.80	23.38	25.43	34.68	52.27	50.99
5 23	52.40	43.80	27.10	25.69	25.69	50.99	100.18	41.23	21.83	46.49	39.56	55.23	44.31
5 24	52.40	38.66	20.29	23.50	24.66	61.39	60.37	39.94	20.42	65.12	47.65	58.18	46.88
5 25	52.40	36.22	20.29	21.32	24.66	49.58	63.96	56.77	19.78	28.77	36.60	52.27	40.20
5 26	53.82	34.94	21.32	22.48	27.10	52.40	85.80	114.70	19.78	26.20	33.78	91.06	65.63
5 27	56.77	38.66	20.29	101.21	28.51	53.82	69.36	76.04	19.78	22.61	38.53	163.12	53.82
5 28	71.03	33.65	19.14	39.82	35.58	50.99	73.47	59.85	19.01	24.79	38.53	101.98	49.58
5 29	69.49	32.37	20.29	29.93	38.40	49.58	83.74	55.36	17.85	26.20	39.56	91.06	68.84
5 30	63.06	31.08	20.29	25.69	45.98	58.18	71.41	48.16	19.01	27.10	40.46	72.18	52.27
5 31	66.27	31.08	29.93	49.05	44.44	53.82	95.04	52.40	19.01	27.10	39.56	65.63	45.60

Location : End of Madi River River : Madi
 Index No. Drainage area : 1,102 km²

Year Month Day	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
6 1	64.60	31.08	23.50	53.69	55.23	50.99	55.76	69.49	22.61	34.68	45.47	58.18	70.51
6 2	59.85	31.08	39.82	103.26	45.98	49.58	60.37	101.21	19.01	30.44	35.71	53.82	59.72
6 3	67.82	33.65	29.93	61.01	39.82	114.70	164.40	95.43	19.01	30.44	34.68	55.23	175.96
6 4	64.60	32.37	52.15	57.16	38.40	101.21	113.03	106.86	23.38	60.11	32.11	85.67	115.98
6 5	61.39	30.05	29.93	49.06	68.71	64.60	213.21	97.36	19.01	50.86	33.01	62.68	96.59
6 6	143.85	41.08	25.69	44.44	62.93	61.39	156.69	99.28	24.79	36.60	33.01	132.29	78.86
6 7	77.71	31.08	36.99	36.99	66.79	58.18	118.16	101.21	34.68	47.65	35.71	70.51	70.51
6 8	81.17	48.16	49.06	35.58	52.15	56.77	105.32	67.82	24.02	47.65	33.78	65.63	61.27
6 9	120.86	66.27	251.74	36.99	138.71	64.60	85.80	63.06	27.87	47.65	33.01	65.63	72.18
6 10	101.21	41.23	62.93	35.58	64.86	55.36	120.73	58.18	23.38	74.37	47.65	68.84	129.72
6 11	82.97	63.06	50.60	34.16	109.43	61.39	143.85	86.44	34.68	58.95	53.04	77.19	124.59
6 12	86.44	59.85	187.52	34.16	76.55	59.85	182.38	58.18	47.65	55.23	71.67	65.63	82.20
6 13	99.28	53.82	52.15	34.16	76.55	53.82	128.44	53.82	81.17	53.04	169.54	108.02	80.53
6 14	186.24	50.99	50.60	41.36	86.82	48.16	110.46	59.85	72.95	42.38	90.16	92.99	70.51
6 15	106.86	72.70	52.15	39.82	76.55	55.36	110.46	56.77	47.65	43.41	140.00	204.22	308.25
6 16	91.70	50.99	50.60	57.16	164.40	55.36	143.85	84.77	60.11	88.62	107.37	132.29	109.94
6 17	84.77	46.82	44.44	47.52	192.66	59.85	146.42	77.71	56.23	58.95	140.00	124.59	105.96
6 18	91.70	63.06	38.40	99.15	131.01	58.18	161.83	72.70	117.52	71.67	126.25	115.98	183.67
6 19	128.44	64.60	41.36	45.98	82.71	61.39	131.01	69.49	119.19	53.04	151.56	206.79	168.25
6 20	97.36	55.36	90.93	55.23	78.60	58.18	133.58	124.84	166.97	43.41	102.49	199.08	186.24
6 21	150.27	82.37	68.71	61.01	70.64	59.85	342.93	140.00	74.37	40.46	156.69	156.69	201.65
6 22	178.53	59.85	57.16	59.08	66.79	58.18	202.93	93.63	223.48	49.83	127.92	122.02	156.69
6 23	146.42	59.85	61.01	72.57	66.71	99.28	231.19	128.44	313.39	49.83	126.25	96.59	148.99
6 24	150.27	63.06	101.21	64.86	78.60	76.04	172.11	103.01	237.61	49.83	161.83	163.12	145.14
6 25	274.86	89.91	88.88	62.93	128.44	59.85	208.07	122.79	179.81	44.31	140.00	118.03	156.69
6 26	247.89	295.41	68.71	70.64	78.60	59.85	159.26	106.86	186.24	48.68	126.25	151.56	168.25
6 27	255.59	173.39	80.66	120.73	74.49	99.28	148.99	210.64	192.66	44.31	173.39	242.75	199.08
6 28	213.21	181.10	70.64	141.28	76.55	116.75	190.09	188.80	206.79	63.83	151.56	277.43	145.14
6 29	260.73	178.53	74.49	355.77	70.64	101.21	174.68	143.85	187.52	173.39	117.52	240.18	152.84
6 30	384.03	202.93	72.57	371.19	66.79	202.93	350.64	146.42	215.78	282.56	107.37	199.08	150.27

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km²

Year	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
7 1	381.46	208.07	255.59	276.14	64.86	159.26	404.58	161.83	227.34	226.05	136.14	287.70	145.14
7 2	318.53	431.55	55.23	192.66	62.93	142.57	362.20	137.43	192.66	183.67	245.32	196.51	118.03
7 3	208.07	441.83	107.37	287.70	70.64	155.41	323.66	128.44	173.39	232.47	151.56	273.57	160.55
7 4	282.56	260.73	82.71	322.38	136.14	108.66	470.08	152.84	182.36	229.90	186.24	204.22	173.39
7 5	309.54	210.64	118.16	285.13	294.12	137.43	589.53	200.36	215.78	190.09	335.22	199.08	196.51
7 6	394.31	159.26	400.73	209.35	201.65	164.40	629.35	282.56	192.66	223.48	310.82	196.51	145.14
7 7	297.98	135.58	179.81	174.68	296.69	106.86	558.71	394.31	155.41	161.83	260.73	173.39	137.43
7 8	625.49	155.41	184.95	318.53	488.52	101.21	588.52	136.14	147.70	271.00	192.66	201.65	232.47
7 9	536.87	148.42	462.38	182.38	197.79	99.28	485.50	169.54	145.14	206.79	226.05	160.55	282.47
7 10	431.55	218.34	182.38	278.71	337.79	280.73	439.26	331.37	161.83	204.22	215.78	154.13	188.80
7 11	396.87	223.48	211.92	184.95	563.84	110.59	489.35	313.39	152.84	290.45	208.07	155.41	287.70
7 12	340.36	186.24	184.95	408.72	226.05	99.28	516.32	359.63	147.70	213.21	328.80	191.37	191.37
7 13	280.00	215.78	318.53	218.34	218.34	103.01	570.27	381.46	140.00	215.78	313.39	163.12	193.94
7 14	286.42	190.09	472.65	215.78	208.07	625.49	531.73	337.79	503.48	190.09	227.34	222.20	342.93
7 15	253.02	295.41	434.12	209.35	200.36	581.83	470.08	317.24	299.26	177.24	201.65	271.00	265.87
7 16	455.96	371.19	756.50	437.97	190.09	202.93	446.97	328.80	268.44	169.54	220.91	191.37	227.34
7 17	306.97	349.35	518.89	409.72	170.82	450.82	439.26	196.51	265.87	218.34	204.22	186.24	242.75
7 18	309.54	441.83	500.91	479.07	192.66	164.40	431.55	175.96	226.05	196.51	282.56	219.63	381.46
7 19	322.38	324.95	468.80	476.51	300.55	154.13	377.61	227.34	215.78	192.66	201.65	368.62	385.31
7 20	468.80	337.79	653.75	468.80	175.96	154.13	385.31	213.21	206.79	220.91	175.96	322.38	282.56
7 21	342.93	381.46	583.11	483.20	213.21	123.30	412.29	199.08	253.02	308.25	247.89	211.92	229.90
7 22	340.36	407.15	472.65	480.63	166.97	118.16	385.31	404.58	218.34	263.30	213.21	199.08	326.23
7 23	274.86	417.42	633.20	486.23	186.24	102.75	400.73	342.93	201.65	282.56	215.78	186.24	313.39
7 24	362.20	583.11	544.58	448.25	240.18	118.16	423.85	299.26	206.79	258.16	201.65	173.39	277.43
7 25	384.03	466.23	526.60	386.87	208.07	107.89	389.17	466.23	204.22	580.54	208.07	178.53	235.04
7 26	272.29	417.42	482.93	571.55	197.79	197.79	489.35	434.12	210.64	359.63	229.90	157.98	229.90
7 27	312.10	437.97	479.07	897.78	280.00	197.79	504.76	448.25	273.57	282.56	201.65	204.22	229.90
7 28	518.89	468.80	606.23	529.17	260.73	131.01	385.31	400.73	273.57	287.70	245.32	163.12	247.89
7 29	482.93	490.63	500.91	563.84	218.34	123.30	481.64	368.62	287.70	245.32	215.78	391.74	224.77
7 30	327.52	466.23	715.40	493.20	192.66	102.75	419.99	346.78	308.25	242.75	192.66	277.43	206.79
7 31	387.88	563.84	579.26	657.60	245.32	102.75	295.41	301.83	346.78	237.61	308.25	280.00	211.92

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km2

Year	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
8 1	507.33	500.91	617.79	500.91	202.93	169.54	458.52	235.04	237.61	229.90	495.77	337.79	188.80
8 2	563.84	417.42	552.28	804.02	192.66	377.61	295.41	204.22	206.79	247.89	317.24	268.44	201.65
8 3	455.96	507.33	702.56	500.91	231.19	288.99	231.19	213.21	227.34	280.00	211.92	240.18	175.96
8 4	458.52	431.59	563.84	466.23	226.05	358.34	308.25	201.65	218.34	227.34	285.13	199.08	165.69
8 5	377.61	421.28	529.17	629.35	786.04	263.30	202.93	183.67	317.24	201.65	204.22	204.22	173.39
8 6	375.04	387.86	497.06	434.12	192.66	292.84	200.36	182.38	195.23	245.32	206.79	305.68	209.35
8 7	337.79	865.67	637.05	423.85	173.39	263.30	197.79	177.24	175.96	208.07	448.25	237.61	178.53
8 8	409.72	883.66	522.74	497.06	362.20	233.76	805.31	175.96	299.26	206.79	217.06	237.61	170.82
8 9	482.93	567.70	507.33	197.79	218.34	210.64	197.79	156.69	258.16	268.44	199.08	362.20	204.22
8 10	353.21	500.91	482.93	184.95	200.36	200.36	188.80	155.41	310.82	280.00	317.24	245.32	211.92
8 11	540.72	482.93	482.93	390.45	190.09	238.90	195.23	152.84	252.02	419.99	232.47	292.84	292.84
8 12	486.78	479.07	486.78	396.87	197.79	286.42	272.29	151.56	245.32	491.92	310.82	260.73	559.99
8 13	340.36	462.38	486.78	396.87	178.53	543.29	228.62	147.70	229.90	331.37	222.20	277.43	260.73
8 14	300.55	476.51	486.78	211.92	157.98	462.38	166.97	159.26	213.21	342.93	201.65	235.04	226.05
8 15	277.43	421.28	468.80	322.38	170.82	233.76	236.33	145.14	250.45	271.00	292.84	232.47	197.79
8 16	178.53	390.45	431.55	300.55	142.57	223.48	170.82	145.14	247.89	232.47	199.08	305.68	211.92
8 17	303.11	390.45	417.42	303.11	DNA	208.07	250.45	140.00	195.23	210.64	196.51	413.57	211.92
8 18	511.18	434.12	413.57	229.90	DNA	202.93	242.75	165.69	195.23	190.09	201.65	299.26	317.24
8 19	297.98	511.18	421.28	518.89	DNA	197.79	255.59	147.70	263.30	196.51	308.25	277.43	236.33
8 20	384.03	610.08	423.85	529.17	DNA	244.03	253.02	148.99	232.47	187.52	242.75	271.00	184.95
8 21	272.29	590.82	507.33	342.93	DNA	187.52	183.67	148.99	218.34	179.81	242.75	260.73	178.53
8 22	260.73	625.49	462.38	324.95	DNA	220.91	200.36	165.69	235.04	173.39	235.04	346.78	165.69
8 23	263.30	515.04	409.72	309.54	DNA	213.21	173.39	151.56	223.48	165.69	423.85	271.00	159.26
8 24	226.05	497.06	476.51	232.47	DNA	187.52	540.72	140.00	208.07	260.73	349.35	242.75	174.68
8 25	272.29	444.40	441.83	287.70	DNA	280.00	220.91	172.11	196.51	163.12	292.84	245.32	190.09
8 26	258.16	482.93	423.85	355.77	DNA	260.73	260.73	159.26	215.78	301.83	301.83	263.30	161.83
8 27	300.55	586.96	381.46	209.35	DNA	205.50	233.76	151.56	201.65	199.08	305.68	282.56	187.52
8 28	220.91	462.38	455.96	192.66	DNA	205.50	236.33	186.24	196.51	215.78	299.26	232.47	150.27
8 29	208.07	427.70	387.88	187.52	DNA	200.36	255.59	199.08	187.52	199.08	328.80	258.16	146.42
8 30	202.93	407.15	291.55	192.66	DNA	323.66	263.30	226.05	165.69	196.51	277.43	224.77	138.71
8 31	315.96	437.97	235.04	237.61	DNA	231.19	247.89	215.78	159.26	186.24	242.75	217.06	143.85

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km²

Year	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
9 1	202.93	396.87	606.23	226.05	DNA	335.22	231.19	218.34	271.00	247.89	240.18	204.22	126.90
9 2	159.26	434.12	476.51	211.92	DNA	290.45	218.34	208.07	208.07	206.79	232.47	211.92	119.83
9 3	155.41	448.25	448.25	211.92	DNA	439.26	213.21	220.91	179.81	227.34	258.16	196.51	116.49
9 4	173.39	529.17	303.11	195.23	DNA	256.88	208.07	255.59	235.04	218.34	245.32	240.18	113.03
9 5	164.40	567.70	452.10	195.23	DNA	276.14	208.07	328.80	226.05	190.09	250.45	235.04	161.83
9 6	186.24	409.72	540.72	215.78	DNA	335.22	210.64	263.30	245.32	187.52	253.02	245.32	128.44
9 7	197.79	387.88	318.53	175.82	DNA	350.64	291.55	206.79	210.64	173.39	301.83	242.75	187.52
9 8	189.54	407.15	291.55	204.22	DNA	350.64	242.75	195.23	175.96	199.08	340.36	277.43	143.85
9 9	362.20	413.57	195.23	206.79	DNA	276.14	213.21	187.52	349.35	173.39	290.27	219.63	157.98
9 10	386.62	413.57	613.93	417.42	DNA	385.31	315.96	177.24	317.24	165.69	263.30	199.08	211.92
9 11	282.56	452.10	444.40	197.79	DNA	292.84	215.78	175.96	353.21	166.97	235.04	199.08	310.82
9 12	197.79	384.03	281.28	187.52	DNA	231.19	202.93	166.97	417.42	155.41	227.34	223.48	197.79
9 13	215.78	192.66	455.96	192.66	DNA	231.19	202.93	166.97	473.94	151.56	206.79	199.08	187.52
9 14	427.70	166.97	362.20	187.52	DNA	250.45	218.34	148.99	521.46	145.14	199.08	235.04	187.52
9 15	267.15	151.56	229.90	220.91	DNA	276.14	213.21	140.00	337.79	148.99	188.80	204.22	184.95
9 16	208.07	172.11	226.05	182.38	DNA	244.03	245.32	151.56	240.18	140.00	186.24	186.24	169.54
9 17	190.09	146.42	349.35	184.95	142.57	276.14	231.19	152.84	213.21	136.14	186.24	181.10	172.11
9 18	178.53	131.01	390.45	197.79	137.43	269.72	215.78	141.28	204.22	129.72	224.77	181.10	182.38
9 19	283.30	141.28	211.92	184.95	152.84	416.14	205.50	147.70	183.67	132.29	175.96	178.53	175.96
9 20	175.96	131.01	197.79	187.52	226.05	273.57	579.26	141.28	172.11	156.69	168.25	209.35	181.10
9 21	161.83	120.73	264.58	169.54	195.23	238.90	205.50	152.84	173.39	137.43	159.26	232.47	169.54
9 22	164.40	107.37	197.79	161.83	258.16	250.45	188.80	159.26	163.12	172.11	155.41	217.06	161.83
9 23	155.41	101.21	192.66	156.69	169.54	323.66	169.54	152.84	172.11	151.56	156.69	204.22	154.13
9 24	148.99	101.21	177.24	125.87	175.96	241.46	161.83	152.84	163.12	133.58	157.98	209.35	161.83
9 25	148.99	90.93	166.97	92.99	142.57	233.76	148.99	148.99	175.96	132.29	148.99	214.49	159.26
9 26	150.27	78.60	164.40	92.99	124.84	319.81	142.57	145.14	179.81	132.29	173.39	188.80	154.13
9 27	322.38	74.49	92.99	105.32	124.84	236.33	137.43	140.00	187.52	120.99	151.56	175.96	157.98
9 28	240.18	90.93	86.82	159.26	116.75	197.79	133.58	140.00	186.24	115.72	148.99	181.10	166.97
9 29	210.64	84.77	118.16	403.30	112.64	182.38	128.44	155.41	172.11	112.26	150.27	170.82	150.27
9 30	242.75	70.64	184.95	174.68	106.86	146.42	122.79	148.99	175.96	114.05	145.14	178.53	157.98

Location : End of Madi River River : Madi
 Index No. : Drainage area : 1,102 km2

Year	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
10 1	228.82	72.57	95.04	138.71	103.01	128.44	118.81	133.58	169.54	107.37	129.72	160.55	152.20
10 2	152.84	72.57	88.98	136.14	99.28	131.01	114.70	126.25	183.67	109.04	119.96	157.98	121.50
10 3	148.99	78.60	84.77	156.69	95.43	125.87	112.64	117.52	151.56	99.28	118.03	152.84	125.61
10 4	142.57	82.71	80.66	133.58	93.63	118.16	112.64	115.72	147.70	88.62	118.03	148.99	114.70
10 5	150.27	95.04	76.55	84.77	91.70	118.16	112.64	115.72	145.14	93.12	119.96	134.86	129.72
10 6	137.43	76.55	80.66	80.66	89.91	113.03	110.59	114.05	148.99	84.13	118.03	129.72	101.72
10 7	133.58	74.49	76.55	80.66	89.91	102.75	110.59	112.26	140.90	81.17	114.05	127.15	102.62
10 8	126.90	70.64	72.57	78.60	88.24	102.75	110.59	105.83	136.14	79.76	119.96	122.02	96.59
10 9	124.84	97.10	68.71	74.49	88.24	113.03	110.59	107.37	132.29	78.48	109.94	127.15	114.70
10 10	120.86	195.23	68.71	70.64	89.91	148.99	110.59	163.12	127.92	77.06	108.02	118.03	120.48
10 11	116.75	169.54	66.79	68.71	86.44	197.79	106.86	120.99	136.14	75.78	108.02	112.00	107.12
10 12	110.59	209.35	64.86	68.71	84.77	289.26	106.86	112.26	141.28	75.78	101.98	108.02	108.02
10 13	106.86	109.43	62.93	68.71	82.97	269.72	103.01	104.16	133.58	71.67	98.36	108.02	101.72
10 14	104.93	95.04	61.01	66.79	81.17	256.88	120.86	104.16	137.43	74.37	94.79	98.36	110.84
10 15	103.01	84.77	59.08	66.79	77.71	256.88	120.86	100.95	127.92	72.95	87.47	96.59	88.24
10 16	101.21	80.66	59.08	64.86	77.71	208.07	104.93	97.74	129.72	71.67	82.20	94.79	76.93
10 17	97.36	78.60	57.16	64.86	76.04	146.42	103.01	110.59	126.25	70.26	75.52	87.47	79.12
10 18	95.43	74.49	55.23	64.86	76.04	125.87	97.36	129.72	126.25	63.83	73.85	85.67	77.71
10 19	95.43	70.64	52.15	61.01	74.24	115.59	95.43	165.69	119.19	65.12	72.18	78.86	76.16
10 20	89.91	68.71	52.15	59.08	74.24	110.46	99.28	119.19	117.52	96.07	73.85	77.19	74.11
10 21	88.24	66.79	50.60	57.16	74.24	105.32	93.63	110.59	115.72	70.26	73.85	75.52	67.94
10 22	86.44	64.86	49.06	57.16	72.70	100.18	91.70	107.37	114.05	68.97	73.85	72.18	71.28
10 23	82.97	62.93	49.06	57.16	91.70	100.18	89.91	104.16	110.59	67.56	68.84	70.51	70.64
10 24	81.17	61.01	49.06	55.23	71.03	95.04	86.44	102.49	110.59	68.97	68.84	68.84	67.94
10 25	79.50	61.01	47.52	55.23	71.03	95.04	84.77	99.28	109.04	66.27	65.63	67.17	63.45
10 26	77.71	59.08	45.98	55.23	67.82	92.48	82.97	97.74	109.04	63.83	64.22	67.17	61.01
10 27	77.71	59.08	44.44	52.15	67.82	87.85	81.17	97.74	107.37	61.39	62.68	65.63	59.85
10 28	77.71	57.16	42.90	50.60	67.82	85.80	79.50	84.13	105.83	60.11	61.27	64.22	56.26
10 29	74.24	55.23	41.36	52.15	66.27	83.74	77.71	72.95	104.16	60.11	59.72	62.68	55.23
10 30	72.70	53.69	39.82	50.60	66.27	156.69	76.04	68.97	104.16	60.11	58.18	61.27	54.59
10 31	71.03	52.15	39.82	50.60	64.60	79.63	72.70	67.56	104.16	61.39	56.77	59.72	52.92

Location : End of Madi River River : Madi
 Index No. : 1,102 km2
 Drainage area

Year	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
11	69.49	50.60	38.40	49.06	63.06	79.63	71.03	67.56	102.49	57.67	56.77	56.77	50.22
11	67.82	49.06	36.99	47.52	63.06	75.52	71.03	62.68	100.95	56.51	56.77	58.18	50.22
11	71.03	47.52	36.99	49.06	63.06	73.47	71.03	62.68	100.95	55.23	56.77	56.77	48.68
11	67.82	45.98	35.58	59.08	61.39	73.47	71.03	58.95	99.28	55.23	52.27	55.23	47.65
11	66.27	45.98	35.58	49.06	61.39	71.41	69.49	57.67	99.28	54.20	56.77	53.82	47.65
11	64.60	44.44	34.16	49.06	59.85	69.36	67.82	56.51	78.48	53.04	50.99	52.27	45.72
11	64.60	42.90	34.16	49.06	61.39	69.36	67.82	54.20	46.49	52.02	49.58	52.27	45.72
11	63.06	42.90	32.75	47.52	58.18	67.56	66.27	53.04	46.49	50.99	48.29	50.99	44.18
11	63.06	41.36	32.75	45.98	58.18	65.76	64.60	53.04	45.47	49.83	48.29	50.99	43.28
11	61.39	41.36	32.75	42.90	61.39	63.96	66.27	53.04	44.31	49.83	48.29	49.58	42.38
11	61.39	39.82	31.34	39.82	58.18	63.96	64.60	54.20	44.31	49.83	46.88	48.29	40.46
11	59.85	38.40	31.34	39.82	62.16	62.16	63.06	52.02	48.68	49.83	45.60	48.29	39.56
11	58.18	38.40	29.93	39.82	58.18	60.37	61.39	48.68	45.47	48.68	44.31	48.29	38.79
11	56.77	36.99	28.51	38.40	56.77	58.57	61.39	48.68	41.49	46.49	42.90	46.88	37.89
11	55.36	36.99	28.51	38.40	56.77	56.77	59.85	46.49	40.46	45.47	49.58	46.88	37.89
11	55.36	35.58	28.51	36.99	55.36	54.97	61.39	45.47	40.46	45.47	48.29	44.31	36.99
11	53.82	35.58	27.10	35.58	55.36	51.38	59.85	45.47	39.56	44.31	44.31	42.90	36.60
11	53.82	34.16	27.10	34.16	56.77	49.83	59.85	44.31	38.53	43.41	44.31	42.90	36.60
11	53.82	36.99	27.10	34.16	53.82	49.83	59.85	43.41	38.53	43.41	42.90	44.31	34.16
11	52.40	35.58	25.69	34.16	53.82	48.29	59.85	42.38	37.63	42.38	44.31	41.61	33.01
11	52.40	35.58	24.66	32.75	52.40	46.75	58.18	41.49	37.63	42.38	42.90	41.61	32.24
11	52.40	32.75	24.66	32.75	52.40	45.21	58.18	41.49	36.60	41.49	41.61	40.20	31.08
11	50.99	32.75	23.50	31.34	52.40	45.21	56.77	41.49	35.71	41.49	41.61	38.92	30.70
11	49.58	34.16	23.50	31.34	50.99	43.67	56.77	40.46	34.88	40.46	38.92	41.61	30.31
11	48.16	32.75	23.50	31.34	52.40	43.67	56.77	40.46	33.78	39.56	38.92	40.20	29.67
11	46.62	31.34	23.50	29.93	50.99	43.67	55.36	39.56	33.01	38.53	36.60	38.92	29.67
11	46.62	31.34	22.48	29.93	50.99	42.13	53.82	38.53	32.11	39.56	35.45	37.76	29.93
11	46.62	31.34	23.50	29.93	49.58	42.13	53.82	37.63	31.34	38.53	35.45	36.60	29.93

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km²

Year Month Day	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
12 1	46.62	35.58	22.48	29.93	50.99	39.05	52.40	37.63	31.34	37.63	35.45	36.60	30.31
12 2	50.99	31.34	22.48	29.93	49.58	40.59	50.99	36.60	30.44	38.53	35.45	36.60	28.51
12 3	49.58	31.34	21.32	29.93	48.16	39.05	50.99	35.71	30.44	37.63	37.76	36.60	29.28
12 4	46.62	29.93	21.32	28.51	49.58	37.50	49.58	35.71	30.44	37.63	36.60	35.45	28.51
12 5	45.21	29.93	21.32	28.51	48.16	35.96	48.16	35.71	30.44	36.60	37.76	35.45	28.51
12 6	43.80	28.51	21.32	28.51	48.16	35.96	46.62	34.68	29.54	35.71	35.45	34.29	27.87
12 7	43.80	27.10	20.29	28.51	46.62	34.81	46.62	34.68	28.77	35.71	35.45	34.29	27.87
12 8	43.80	25.69	20.29	28.51	46.62	34.81	46.62	34.68	28.77	36.60	34.29	34.29	26.84
12 9	43.80	25.69	20.29	28.51	46.62	34.81	45.21	33.78	27.87	35.71	34.29	34.29	25.17
12 10	43.80	25.69	20.29	28.51	46.62	34.81	45.21	33.01	27.87	35.71	34.29	34.29	25.56
12 11	42.51	25.69	19.14	27.10	46.62	33.65	45.21	32.11	27.10	35.71	34.29	33.14	25.56
12 12	42.51	24.66	19.14	27.10	46.62	33.65	43.80	31.34	26.20	42.38	34.29	33.14	25.82
12 13	41.23	24.66	19.14	25.69	46.62	33.65	43.80	31.34	26.20	38.53	33.14	34.29	26.46
12 14	41.23	24.66	18.11	25.69	45.21	32.49	43.80	30.44	29.54	35.71	31.85	33.14	24.27
12 15	39.94	23.50	18.11	24.66	46.62	32.49	42.51	30.44	26.20	35.71	31.85	31.85	24.27
12 16	39.94	24.66	18.11	24.66	46.62	31.34	41.23	30.44	26.20	35.71	31.85	31.85	25.56
12 17	38.66	23.50	18.11	23.50	45.21	31.34	41.23	29.54	26.20	35.71	30.70	30.70	23.63
12 18	37.50	23.50	18.11	23.50	43.80	31.34	41.23	29.54	27.87	33.78	29.54	30.70	23.63
12 19	39.94	23.50	18.11	22.48	43.80	30.18	39.94	27.87	27.10	33.01	29.54	30.70	21.06
12 20	38.66	22.48	18.11	23.50	43.80	30.18	39.94	27.10	26.20	32.11	29.54	29.54	20.16
12 21	38.66	23.50	18.11	22.48	43.80	30.18	39.94	27.10	24.79	30.44	28.38	29.54	20.16
12 22	38.66	21.32	16.95	22.48	43.80	27.87	38.66	27.10	24.79	30.44	28.38	29.54	19.91
12 23	37.50	21.32	16.95	22.48	42.51	27.87	37.50	26.20	24.02	30.44	28.38	29.54	19.91
12 24	37.50	22.48	16.95	22.48	42.51	27.87	38.66	26.20	24.02	30.44	28.38	28.38	19.65
12 25	37.50	21.32	16.95	22.48	42.51	26.72	37.50	25.43	23.38	29.54	28.38	29.54	19.65
12 26	36.22	21.32	12.03	22.48	41.23	33.65	37.50	25.43	23.38	29.54	64.22	27.23	19.65
12 27	36.22	21.32	9.30	22.48	41.23	34.81	36.22	37.63	23.38	29.54	36.60	27.23	19.39
12 28	36.22	21.32	14.77	23.50	41.23	30.18	36.22	36.60	23.38	29.54	36.60	27.23	19.39
12 29	36.22	21.32	14.77	22.48	41.23	29.03	36.22	29.54	23.38	29.54	29.54	27.23	18.62
12 30	36.22	24.66	14.77	21.32	39.94	29.03	36.22	26.20	22.61	29.54	29.54	26.20	18.88
12 31	36.22	22.48	12.97	23.50	42.51	29.03	34.94	25.43	22.61	29.54	29.54	26.20	19.39

Location : End of Madi River River : Madi
 Index No. Drainage area : 1,102 km2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
1	20.55	29.16	21.32	24.53	9.50	34.16	25.94	22.86	19.78	22.98	25.69	59.62	61.10
2	19.39	29.16	21.09	23.90	9.38	32.37	26.33	22.86	19.52	22.76	24.92	58.52	55.29
3	18.88	28.38	21.32	23.63	9.25	32.37	26.33	22.61	19.52	22.33	23.67	58.52	54.59
4	18.88	28.38	20.68	23.76	9.25	32.37	26.33	22.86	19.52	22.33	23.67	58.52	54.59
5	18.82	28.38	20.68	26.46	9.12	31.47	25.69	22.22	19.52	22.12	23.91	57.43	53.89
6	17.85	27.74	20.68	25.94	8.99	29.41	25.05	22.22	19.52	21.70	23.67	58.52	53.89
7	17.21	27.74	21.74	25.30	8.86	29.41	24.40	22.22	19.27	21.49	23.18	57.43	53.89
8	17.34	27.74	24.02	25.17	8.86	28.38	23.76	21.71	18.88	21.08	23.18	57.43	53.19
9	17.85	29.16	21.32	25.56	9.63	26.20	23.38	21.71	18.75	21.08	23.18	56.36	52.85
10	17.85	29.16	20.68	23.94	8.99	26.20	23.25	22.22	20.16	21.08	23.18	57.43	52.85
11	17.34	28.16	20.68	25.17	9.25	25.05	22.86	23.38	19.27	20.88	23.18	54.24	52.85
12	17.21	30.70	20.68	25.30	9.38	22.61	22.86	22.99	18.75	20.47	22.46	56.36	52.85
13	17.21	26.97	21.32	25.56	9.38	22.61	22.86	22.99	18.75	21.29	22.46	57.43	52.50
14	16.95	26.97	21.32	25.30	8.99	26.20	22.86	21.06	18.50	21.29	22.22	57.43	51.47
15	18.11	26.97	20.04	25.05	8.99	50.35	22.61	21.71	18.50	20.68	21.99	56.36	51.82
16	17.85	26.20	20.04	28.77	9.12	42.26	22.22	21.06	18.50	20.47	22.22	73.60	51.47
17	16.95	26.20	20.68	25.69	9.25	37.63	22.22	20.68	18.24	20.08	21.76	59.62	51.47
18	16.44	26.20	19.39	25.56	9.25	33.27	22.22	20.55	17.98	19.88	22.22	57.43	51.47
19	15.80	25.43	19.39	25.17	8.99	29.41	22.22	20.16	17.98	19.88	21.76	57.43	51.47
20	15.80	25.43	19.39	25.17	9.12	23.89	24.40	20.04	18.11	19.88	21.99	56.36	51.47
21	15.93	25.43	18.75	25.05	9.25	22.61	24.02	20.04	17.98	19.88	21.53	56.36	51.47
22	16.95	26.97	18.11	25.05	8.99	19.91	23.76	19.65	17.98	19.68	21.53	55.29	51.13
23	16.95	25.43	18.11	25.05	9.25	18.37	24.02	19.78	17.98	19.29	22.22	55.29	50.12
24	15.80	25.43	18.11	25.05	8.99	18.37	22.99	19.65	17.47	19.29	21.76	55.29	50.12
25	15.93	25.43	17.60	25.05	8.86	18.37	22.86	19.52	17.47	19.29	21.76	55.29	50.12
26	15.93	25.43	18.75	25.56	8.86	18.37	22.86	19.52	17.60	19.29	21.76	55.29	50.12
27	16.70	26.20	18.75	25.94	8.73	18.37	22.48	19.14	17.47	19.10	21.99	55.29	49.79
28	17.21	25.43	18.11	25.69	8.73	18.37	22.48	18.88	17.47	18.72	21.76	58.52	50.46
29	17.21	25.43	17.60	25.69	8.73	14.90	22.22	18.88	17.47	18.72	21.53	55.29	52.16
30	17.21	24.66	17.08	26.59	8.73	12.84	22.22	19.14	17.34	18.72	21.99	53.19	50.80
31	16.95	26.97	18.75	26.33	8.73	12.84	22.22	18.88	16.95	18.72	21.76	54.24	50.46

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km²

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
1	16.70	26.20	22.73	25.05	8.73	12.84	22.22	18.88	16.95	18.72	22.22	54.24	61.10
2	18.11	25.43	19.39	24.27	8.73	12.84	22.61	18.88	17.08	18.53	21.07	55.29	53.19
2	16.70	35.83	19.39	24.27	8.73	12.84	22.86	18.88	16.83	18.15	20.40	55.29	50.12
2	16.44	26.97	22.09	24.15	8.48	12.84	22.61	18.75	16.83	18.15	19.74	55.29	49.79
2	15.16	24.66	21.32	24.02	8.48	12.84	22.09	18.50	16.44	18.15	19.74	55.29	49.12
2	15.16	24.66	22.09	23.76	8.73	12.84	21.71	18.50	16.44	19.68	19.31	55.29	49.12
2	15.16	26.97	18.75	23.63	8.48	12.84	21.71	17.98	16.44	18.53	19.52	54.24	48.45
2	14.90	27.74	18.11	24.15	8.73	12.84	21.45	17.98	16.44	18.15	20.18	54.24	48.45
2	15.16	26.20	18.75	25.30	9.12	16.70	21.06	17.72	16.44	18.15	20.62	53.19	48.45
2	15.16	24.02	18.11	24.66	8.48	22.61	20.94	17.47	16.31	18.15	21.30	54.24	48.12
2	14.90	24.66	18.11	24.15	8.73	29.41	20.55	17.47	16.05	18.15	20.62	55.29	47.80
2	15.28	25.43	18.11	25.05	8.35	21.32	20.55	17.47	16.05	17.97	19.74	54.24	47.80
2	15.80	24.66	17.08	24.15	8.73	18.37	20.55	17.47	16.05	17.60	19.52	53.19	46.82
2	15.16	24.02	22.09	23.76	8.48	12.84	20.55	18.11	16.05	17.06	19.52	52.16	46.82
2	14.90	23.38	20.04	23.50	8.99	32.37	20.29	17.72	16.05	17.06	19.31	52.16	45.85
2	14.90	23.38	19.39	23.63	8.99	22.61	20.04	20.16	16.05	17.06	19.31	52.16	46.17
2	14.64	22.73	22.09	23.50	8.35	22.61	20.04	20.04	15.93	17.06	18.68	51.13	45.85
2	14.64	24.02	17.08	23.12	10.02	22.61	20.04	18.24	15.54	17.06	18.68	51.13	46.17
2	14.90	22.73	15.83	22.99	8.48	21.32	20.04	21.71	15.54	16.71	20.18	51.13	64.49
2	13.87	22.73	15.41	22.99	8.35	12.84	19.78	23.63	15.54	16.53	18.68	51.13	56.72
2	14.26	22.73	14.90	22.86	8.22	23.89	19.52	19.78	15.80	16.53	19.31	51.13	50.46
2	14.26	22.09	14.26	24.02	7.83	21.32	19.52	17.98	15.41	16.53	19.31	51.13	50.80
2	14.90	22.09	13.74	23.50	8.35	18.37	20.16	17.34	15.16	16.53	19.10	50.12	48.79
2	14.90	21.32	13.74	23.12	8.48	18.37	19.78	17.72	15.16	16.35	19.96	50.12	48.45
2	14.64	21.32	13.74	22.99	7.96	18.37	20.04	20.55	15.16	16.01	20.62	55.29	47.80
2	15.80	20.68	13.23	22.99	7.96	27.36	19.65	18.75	16.05	16.01	26.47	54.24	52.16
2	15.54	20.68	13.23	23.12	8.99	12.84	20.94	18.24	15.54	16.01	20.18	52.16	52.16
2	15.16	20.68	17.08	24.53	8.86	26.20	21.32	18.24	15.54	16.01	19.74	52.16	48.12
2						22.61				16.01			

Location : End of Madi River River : Madi
 Index No. Drainage area : 1,102 km²

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
1	14.64	20.04	15.41	24.02	8.99	23.89	20.55	18.11	15.16	16.01	19.10	51.13	49.12
2	14.39	22.09	13.74	23.50	8.73	22.61	19.78	19.78	15.16	16.86	18.47	51.13	47.80
3	14.26	24.66	13.74	23.76	8.73	21.32	25.05	18.24	15.16	17.42	18.47	52.16	48.79
4	14.26	26.20	13.74	24.02	8.35	35.96	22.61	18.50	15.16	17.24	18.47	51.13	50.12
5	15.93	25.43	13.23	23.50	8.22	25.05	21.32	21.45	15.16	17.06	17.85	50.12	48.79
6	16.44	24.02	13.23	23.12	8.22	22.61	21.83	25.56	15.41	16.88	17.85	53.19	47.80
7	14.26	23.38	13.23	24.15	8.73	19.91	23.25	28.38	15.54	16.53	17.85	52.16	47.80
8	14.26	23.38	13.23	23.50	8.61	26.20	20.68	21.06	15.03	16.53	17.25	50.12	55.29
9	14.26	23.38	13.23	23.12	8.48	23.89	20.55	20.04	15.28	16.01	17.45	51.13	49.12
10	16.18	23.38	13.23	23.63	8.61	22.61	21.32	18.88	15.03	16.01	17.06	50.12	48.45
11	14.90	22.73	12.24	23.12	8.73	18.37	20.94	20.29	14.77	16.88	17.06	51.13	47.80
12	14.64	24.02	12.68	23.12	8.22	14.90	30.57	19.52	14.64	17.06	17.45	51.13	46.82
13	14.26	22.09	12.24	26.97	8.35	35.96	30.05	18.75	14.26	20.68	16.47	53.19	46.82
14	14.26	23.38	12.24	24.79	8.22	29.41	27.10	18.50	14.26	DNA	16.86	57.43	47.14
15	14.26	22.73	13.23	30.44	8.48	33.27	25.30	17.72	13.87	DNA	17.06	52.16	49.12
16	14.00	22.09	12.68	26.33	8.73	37.63	24.92	17.98	13.87	DNA	18.68	51.13	48.79
17	14.26	23.38	12.24	29.54	8.48	32.37	25.69	17.47	14.26	DNA	17.06	51.13	53.54
18	14.00	22.73	11.80	27.36	8.73	29.41	24.40	17.08	13.87	DNA	17.06	51.13	48.45
19	14.00	22.09	11.80	26.84	8.61	23.89	28.38	19.27	14.00	DNA	16.47	50.12	48.12
20	14.00	22.09	11.80	29.54	8.86	19.91	29.80	17.47	15.03	DNA	16.47	51.13	48.12
21	14.00	22.09	11.37	27.36	8.73	26.97	26.59	18.11	15.16	DNA	18.68	52.16	50.46
22	13.87	25.43	10.93	26.33	8.73	26.72	27.49	17.34	14.26	DNA	18.47	52.16	50.12
23	13.87	22.73	10.93	24.79	10.40	28.00	25.05	33.65	13.87	DNA	18.26	50.12	49.12
24	14.90	22.09	10.49	23.76	10.53	27.23	23.38	33.65	13.87	DNA	17.65	73.60	58.52
25	13.61	22.09	10.49	24.66	10.15	26.72	22.61	27.23	15.28	DNA	16.47	59.62	55.29
26	13.36	21.32	16.44	28.51	13.36	27.23	22.61	22.99	14.13	DNA	16.86	60.73	50.46
27	13.36	22.09	16.44	25.94	20.55	28.77	22.48	21.45	13.61	DNA	16.67	54.24	51.47
28	13.36	24.02	11.37	24.66	12.72	28.26	22.48	23.38	13.61	DNA	16.47	52.16	48.45
29	13.36	24.02	10.49	31.21	13.36	27.87	22.61	24.40	15.28	DNA	19.31	51.13	57.07
30	14.00	21.32	10.06	29.54	12.59	32.62	36.35	32.11	15.80	DNA	17.06	49.12	64.88
31	21.06	20.68	10.93	28.51	10.66	30.70	26.59	25.94	16.05	DNA	16.67	50.12	58.16

Location : End of Madi River River : Madi
 Index No. : Drainage area : 1,102 km²

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
4 1	38.79	20.04	9.62	31.47	9.63	28.77	25.69	25.05	16.44	DNA	16.09	56.36	55.29
4 2	23.63	20.04	9.18	28.77	9.38	27.23	30.83	23.63	16.33	DNA	15.53	61.84	57.80
4 3	28.26	20.68	8.75	26.84	9.12	27.36	28.38	22.22	15.28	DNA	15.35	65.26	56.36
4 4	17.60	20.04	8.75	26.97	8.99	26.97	29.41	23.63	15.03	DNA	16.09	58.52	61.10
4 5	16.18	19.39	8.75	45.60	8.99	26.59	27.74	24.66	14.64	DNA	16.09	59.62	57.43
4 6	15.54	20.68	9.18	29.41	8.86	26.84	28.00	22.86	14.13	DNA	18.06	59.62	53.19
4 7	15.28	20.68	10.49	27.61	8.73	26.59	26.84	22.61	13.61	DNA	15.35	60.73	51.13
4 8	15.16	20.04	10.49	26.59	8.86	27.36	24.40	26.84	14.77	DNA	16.86	57.43	50.12
4 9	26.46	23.38	10.93	26.33	9.12	27.23	26.20	24.27	15.28	DNA	16.86	62.97	49.12
4 10	25.56	24.02	10.49	25.56	10.28	26.72	26.84	22.86	14.90	DNA	16.47	60.73	49.12
4 11	16.70	23.38	12.68	24.79	10.79	25.69	28.00	22.22	14.77	DNA	16.09	55.29	59.25
4 12	16.95	22.73	11.80	24.27	10.28	25.69	25.30	21.06	17.08	DNA	16.28	55.29	53.19
4 13	16.44	22.73	11.80	23.76	10.92	25.56	25.30	20.29	17.60	22.55	16.47	54.24	51.47
4 14	15.80	24.66	15.93	23.63	8.09	26.20	30.83	20.55	19.52	23.19	24.66	56.36	57.07
4 15	15.54	22.73	13.74	24.15	8.09	26.20	26.84	19.78	16.70	22.98	20.84	55.29	54.24
4 16	14.64	20.68	12.68	23.50	7.96	26.84	28.38	18.88	15.54	20.68	18.89	57.43	53.89
4 17	14.39	20.68	13.74	23.25	8.09	26.20	29.54	19.78	14.77	22.12	18.89	62.97	56.72
4 18	14.39	28.38	14.26	24.02	9.76	27.74	29.41	21.06	14.77	19.88	22.94	66.42	54.24
4 19	14.39	23.38	11.80	24.27	12.07	26.59	27.23	21.83	14.13	20.27	20.40	68.77	55.65
4 20	14.90	21.32	13.23	25.56	11.69	26.20	26.59	22.09	15.28	20.68	20.18	62.97	61.10
4 21	14.64	21.32	12.68	25.56	9.89	27.74	25.69	25.69	16.70	22.55	22.70	61.84	54.94
4 22	14.39	20.04	13.23	25.05	9.12	26.84	26.20	23.76	18.11	26.84	24.41	60.73	52.50
4 23	14.64	21.32	17.60	26.46	10.28	26.20	27.10	24.92	17.60	23.19	28.10	61.84	52.50
4 24	14.39	20.68	23.38	24.27	10.40	25.69	28.00	23.38	22.48	26.37	22.70	60.73	56.36
4 25	14.39	20.68	18.75	24.15	10.15	26.20	33.39	49.83	17.47	22.76	25.17	64.11	57.43
4 26	14.39	20.04	15.93	23.76	12.46	27.74	30.05	30.83	17.08	24.30	27.82	65.26	58.16
4 27	15.16	22.09	11.80	23.76	11.30	25.69	31.60	29.80	18.62	24.30	43.97	64.11	56.72
4 28	16.70	20.04	10.93	24.02	19.39	26.59	30.83	27.23	16.95	24.30	35.27	61.84	55.29
4 29	16.70	20.04	18.11	24.53	12.72	27.74	31.60	26.59	16.31	23.19	33.99	59.62	59.25
4 30	15.93	25.43	11.37	25.17	14.77	30.44	31.85	47.39	16.95	27.81	30.36	59.62	53.54

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
5 1	20.16	32.24	10.49	25.05	13.36	30.31	28.38	39.69	17.72	24.97	29.21	60.73	53.19
5 2	17.85	28.38	11.80	23.50	12.20	29.54	30.57	39.69	18.24	23.19	82.64	60.73	53.19
5 3	35.32	26.20	10.93	25.56	11.17	28.90	29.41	50.99	17.08	23.41	35.91	62.97	54.24
5 4	19.65	29.93	12.24	26.59	10.79	29.54	28.13	63.71	17.72	23.85	31.24	60.73	66.81
5 5	16.95	28.38	20.68	27.23	10.40	30.31	31.60	65.50	16.05	26.13	29.78	61.84	58.16
5 6	17.60	24.66	20.04	26.07	11.17	35.83	30.05	44.95	18.88	24.97	27.28	68.77	53.19
5 7	38.79	23.38	30.70	24.53	11.56	30.83	28.13	52.40	17.98	32.69	33.06	67.59	52.16
5 8	29.28	23.38	31.47	26.97	13.61	30.44	30.83	39.69	17.60	26.37	29.78	64.11	50.12
5 9	32.24	21.32	22.09	28.77	11.94	31.98	34.42	33.39	18.11	24.97	80.36	69.96	49.45
5 10	36.99	37.63	26.20	37.89	13.10	30.05	33.14	32.62	21.06	29.78	49.43	87.74	51.13
5 11	21.58	29.16	29.93	28.77	17.47	32.37	34.42	29.16	20.16	25.66	45.48	94.59	49.45
5 12	22.73	27.74	29.93	26.46	13.49	29.80	30.31	28.64	25.94	30.83	40.68	85.08	53.19
5 13	19.14	26.20	26.20	27.61	14.13	30.31	28.64	28.00	18.88	32.16	37.57	78.59	55.65
5 14	18.37	27.74	35.83	26.33	15.41	38.02	30.83	29.54	20.68	31.10	54.03	109.09	59.62
5 15	19.91	27.74	29.93	28.38	17.34	34.16	30.31	31.34	21.32	29.30	41.40	85.08	58.16
5 16	23.63	26.20	29.16	30.18	58.31	33.65	29.80	28.64	22.22	35.19	42.85	109.09	57.43
5 17	23.38	46.24	29.93	25.56	91.19	34.55	28.38	29.41	18.11	34.63	35.59	86.40	60.36
5 18	22.22	40.33	29.16	33.65	121.50	34.55	28.64	35.58	31.08	36.92	33.68	155.33	57.80
5 19	30.31	34.04	24.02	25.94	59.34	32.49	28.13	37.50	17.98	39.00	48.22	144.72	57.80
5 20	24.02	29.16	24.66	39.17	47.65	30.31	34.42	32.62	17.98	49.84	34.31	116.73	58.89
5 21	35.71	29.16	24.02	29.54	21.19	29.28	32.88	31.60	22.22	45.04	33.37	103.16	54.59
5 22	27.23	25.43	22.09	37.26	19.52	29.80	41.10	41.10	24.92	41.79	34.31	98.83	65.26
5 23	44.18	27.74	22.09	33.65	16.95	29.80	45.98	40.20	42.77	43.07	35.27	93.20	57.80
5 24	29.28	25.43	24.02	57.54	15.93	33.65	37.89	42.77	39.30	71.40	38.25	94.59	60.36
5 25	35.71	29.93	27.74	50.73	15.03	32.49	39.05	58.31	41.49	49.13	49.84	94.59	69.17
5 26	38.27	28.38	25.43	47.91	15.03	35.45	35.58	39.69	47.78	58.03	42.85	90.45	64.11
5 27	33.78	52.40	50.22	34.81	15.54	35.06	34.16	39.05	81.43	106.56	56.22	87.74	66.03
5 28	59.85	36.73	28.38	34.29	15.93	36.99	38.79	56.64	68.20	81.64	51.91	86.40	64.49
5 29	32.24	26.97	35.83	33.01	15.54	36.86	40.20	53.56	77.83	71.85	43.59	110.60	64.88
5 30	37.38	50.22	31.47	35.96	16.31	36.86	40.59	81.94	50.99	80.68	41.40	107.59	67.20
5 31	33.39	37.63	29.93	35.96	17.08	36.35	37.89	49.83	42.77	71.85	46.64	90.45	65.65

Location : End of Madi River River : Madi
 Index No. : Drainage area : 1,102 km2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
6	28.26	33.14	37.63	32.37	16.95	35.06	36.73	45.98	34.16	64.91	51.07	91.82	78.17
6	25.17	33.14	34.04	34.29	16.83	41.36	38.15	45.34	31.85	63.25	130.12	90.45	69.56
6	23.12	32.24	33.14	53.69	17.72	38.02	37.25	43.67	28.13	64.08	180.40	87.74	65.26
6	27.23	33.14	35.83	43.03	16.95	38.53	33.91	42.77	26.20	66.87	226.11	87.74	74.83
6	44.70	32.24	39.43	35.32	36.73	36.35	34.42	38.79	24.66	60.81	139.79	91.82	69.17
6	39.17	31.47	42.26	35.71	116.88	35.58	35.83	41.49	23.38	99.79	120.18	89.09	64.88
6	126.64	32.24	40.33	33.39	95.94	34.16	35.83	42.77	22.61	233.57	86.15	109.09	76.49
6	96.68	37.63	39.43	35.06	66.66	33.78	38.40	40.84	22.22	401.33	93.47	94.59	71.57
6	42.77	31.47	44.18	33.65	72.05	33.65	37.25	38.15	22.22	200.95	101.87	100.26	70.36
6	124.59	33.14	39.43	44.44	73.34	33.78	44.95	36.35	34.42	135.85	115.04	136.17	82.02
6	95.69	31.47	39.43	31.60	57.54	44.05	46.75	35.32	31.08	116.02	77.57	160.78	100.75
6	62.29	34.04	71.54	43.28	67.82	36.86	44.70	50.99	42.77	112.41	103.20	142.99	90.00
6	64.73	47.27	72.70	65.50	260.47	39.30	39.94	42.38	267.79	100.34	221.56	136.17	100.75
6	137.30	43.28	67.69	65.89	182.25	51.38	40.59	39.05	89.65	99.79	123.18	137.86	90.45
6	94.79	80.92	103.14	63.83	114.31	39.56	40.84	36.73	55.10	151.88	127.00	153.54	92.28
6	81.30	43.28	79.50	97.10	87.59	40.59	186.55	39.69	61.65	110.05	181.39	148.21	97.41
6	74.75	44.18	95.43	103.91	246.73	61.39	57.54	38.15	77.83	159.95	157.86	144.72	96.00
6	107.12	78.09	165.69	145.39	829.71	52.02	142.69	62.42	52.79	154.78	126.23	139.56	98.83
6	93.12	71.54	132.29	94.92	503.35	50.86	97.23	59.47	79.37	169.07	110.06	242.71	92.74
6	90.68	253.02	95.43	170.44	355.13	45.98	78.35	71.03	67.30	146.88	156.97	177.71	145.88
6	85.15	100.05	104.68	221.17	221.17	120.73	55.49	120.73	100.18	201.81	133.29	201.65	120.92
6	205.24	184.95	163.12	187.01	220.14	120.73	81.94	75.39	366.13	229.57	229.57	162.62	194.17
6	276.27	100.05	106.35	186.11	544.58	120.22	53.17	70.64	70.51	250.08	192.46	151.75	157.74
6	171.98	108.02	163.12	134.09	292.58	49.06	75.39	17.98	156.05	476.55	133.29	195.52	182.90
6	135.12	111.36	109.69	152.58	254.18	97.74	80.40	53.30	180.71	266.28	159.66	151.75	140.12
6	122.53	96.97	140.00	107.50	199.98	77.71	69.61	30.57	137.17	207.93	122.42	149.98	133.93
6	130.88	96.97	121.37	94.40	151.69	61.14	71.93	20.55	180.11	180.11	124.70	18.65	171.34
6	117.52	126.90	111.36	146.93	677.38	51.63	141.92	17.98	133.32	304.02	138.14	155.33	203.71
6	170.69	106.35	119.70	109.30	530.58	64.99	100.82	17.60	137.17	253.07	156.97	300.17	246.50

Location : End of Madi River River : Madi
 Index No. : Drainage area : f.102 km2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
7 1	222.20	92.35	165.69	114.31	568.72	40.46	141.15	312.23	131.01	308.54	146.50	280.32	238.20
7 2	209.35	96.97	166.97	121.50	355.13	38.02	98.38	467.64	154.38	332.96	133.29	421.83	204.40
7 3	255.59	93.89	159.26	199.88	260.47	48.93	107.12	477.79	607.64	317.70	130.91	280.32	267.48
7 4	245.32	83.61	172.11	143.85	197.92	52.79	111.10	319.68	303.50	295.11	120.18	323.33	387.51
7 5	204.22	79.50	172.11	162.47	191.89	35.83	260.09	290.78	206.14	343.79	158.76	242.71	286.04
7 6	235.04	116.37	148.99	122.92	169.54	40.59	297.72	294.89	152.58	375.05	115.04	339.27	286.04
7 7	346.78	148.99	172.11	114.31	466.74	40.20	419.61	383.90	253.79	419.02	116.49	277.89	259.60
7 8	242.75	106.35	166.97	199.88	216.80	53.56	213.72	394.43	228.49	295.11	116.49	336.58	388.47
7 9	342.93	103.14	147.70	124.20	205.12	77.71	229.65	306.33	169.41	265.25	103.88	323.33	778.99
7 10	235.04	148.99	172.11	124.84	657.73	59.98	218.22	200.88	147.58	320.02	159.66	320.72	462.88
7 11	299.26	121.37	179.81	138.46	576.17	160.68	249.94	175.06	425.13	335.35	272.60	256.49	365.76
7 12	227.34	161.83	172.11	132.68	448.38	114.18	239.02	236.58	198.82	268.35	264.86	273.06	340.16
7 13	211.92	147.70	154.13	128.31	394.95	111.48	192.66	185.59	175.96	229.79	221.56	224.94	300.17
7 14	217.06	140.00	186.24	106.86	363.48	179.43	316.60	179.81	153.48	295.11	200.79	275.47	335.69
7 15	355.77	140.00	163.12	139.23	252.89	132.55	197.79	239.02	130.24	353.61	389.33	251.85	282.77
7 16	250.45	123.30	200.36	102.24	217.96	274.86	220.40	189.57	134.86	285.29	513.85	242.71	324.21
7 17	232.47	235.04	177.24	94.92	220.14	395.72	177.89	204.09	207.30	287.46	315.04	203.71	322.46
7 18	219.63	272.29	177.24	109.30	220.14	634.36	184.69	234.27	281.15	255.08	262.31	254.17	331.25
7 19	227.34	250.45	200.36	152.58	179.43	407.92	213.72	267.79	154.38	215.97	221.56	240.45	331.25
7 20	219.63	227.34	214.49	155.02	272.16	391.35	163.12	316.60	249.94	275.68	268.71	358.35	352.85
7 21	292.84	196.51	191.37	147.70	173.13	299.26	225.02	236.58	173.13	221.43	208.28	369.50	308.65
7 22	214.49	193.94	255.59	137.81	179.43	372.21	182.64	228.49	205.12	257.09	335.60	312.93	312.93
7 23	253.02	177.24	214.49	201.01	143.85	283.33	194.71	299.26	242.62	207.05	203.98	305.24	324.21
7 24	229.90	282.56	197.79	149.37	132.68	282.44	170.31	212.69	347.43	260.13	180.40	461.83	267.48
7 25	214.49	217.06	186.24	182.25	118.16	249.43	187.65	199.85	312.23	343.79	369.74	493.87	303.55
7 26	206.79	205.50	214.49	180.46	136.27	238.51	156.95	165.81	274.47	253.07	341.64	331.25	294.31
7 27	199.08	184.95	191.37	389.55	420.89	236.20	174.03	156.05	257.52	265.25	270.00	290.16	328.60
7 28	229.90	175.96	253.02	245.57	209.35	229.39	164.02	130.24	248.78	289.63	273.90	377.97	305.24
7 29	235.04	163.12	229.90	224.51	171.34	220.66	141.92	131.01	180.71	325.86	585.24	389.43	311.21
7 30	235.04	175.96	224.77	204.09	152.58	207.17	182.64	126.51	177.89	242.22	570.02	401.05	429.88
7 31	240.18	214.49	240.18	197.92	189.06	190.99	136.40	176.86	228.49	382.82	425.28	290.16	432.92

Location : End of Madi River River : Madi
 Index No. : Drainage area : 1,102 km2

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
8 1	224.77	345.50	339.08	216.03	213.59	177.50	154.38	153.48	156.05	347.45	347.76	323.33	333.91
8 2	299.26	232.47	411.00	184.57	204.09	170.82	228.49	125.10	149.25	561.88	331.12	406.93	326.84
8 3	377.61	237.61	332.66	159.78	194.84	190.99	183.67	526.47	334.84	440.04	434.17	302.70	319.85
8 4	310.82	245.32	296.69	145.14	189.06	174.42	178.79	230.80	216.03	382.82	303.68	310.36	300.17
8 5	282.56	224.77	339.08	143.08	184.18	177.50	187.65	221.56	136.40	310.78	310.75	290.16	277.08
8 6	271.00	240.18	296.69	172.24	160.03	225.79	165.81	210.51	129.47	267.32	295.35	244.98	263.53
8 7	346.78	289.26	255.59	152.71	146.16	242.36	176.86	164.91	136.40	250.08	208.28	218.46	252.62
8 8	346.78	272.29	282.56	139.74	157.47	189.70	199.85	206.14	126.51	233.57	249.84	203.71	273.86
8 9	296.69	219.63	326.23	187.01	160.03	250.97	168.51	217.06	115.21	230.57	195.55	195.52	240.45
8 10	287.70	210.64	373.76	164.14	151.69	292.97	229.65	170.31	119.32	295.11	219.31	216.32	246.50
8 11	319.81	197.79	277.43	287.83	134.86	261.50	180.71	375.42	125.74	246.13	201.85	231.53	233.74
8 12	313.39	196.51	237.61	250.84	132.68	222.84	396.10	453.77	177.89	255.08	212.65	318.11	239.70
8 13	277.43	182.38	202.93	217.83	167.74	499.37	319.68	425.13	233.12	223.27	275.21	305.24	262.74
8 14	403.30	169.54	263.30	286.80	132.68	638.98	324.18	357.19	204.09	205.30	202.91	280.32	277.89
8 15	308.25	267.15	219.63	236.71	180.46	407.92	251.23	324.18	216.03	251.08	186.36	254.17	271.46
8 16	372.47	196.51	219.63	202.42	174.99	388.14	247.50	260.09	156.95	199.23	276.52	258.82	321.59
8 17	413.57	227.34	237.61	179.94	145.39	578.23	296.31	355.52	155.15	187.44	246.18	227.13	301.86
8 18	208.07	283.02	219.63	218.73	164.27	450.82	771.79	826.24	170.31	218.69	572.18	270.66	315.52
8 19	247.89	222.20	428.98	227.59	151.69	364.89	281.15	417.81	157.85	233.57	611.88	270.66	273.06
8 20	323.66	219.63	314.67	187.01	213.59	289.50	239.02	290.78	158.62	207.93	420.01	392.32	265.89
8 21	213.21	250.45	308.25	196.64	226.82	336.77	205.12	1,058.59	148.47	331.77	474.76	380.82	250.32
8 22	191.37	345.50	305.68	175.32	151.69	282.44	189.57	700.89	147.58	317.70	1,171.16	446.22	268.27
8 23	193.94	345.50	272.29	208.33	136.27	238.51	188.55	421.41	241.46	257.09	1,078.65	344.67	328.60
8 24	219.63	380.16	272.29	199.98	210.38	212.69	189.57	481.90	154.38	275.68	618.79	302.70	294.31
8 25	196.51	326.23	277.43	257.52	153.36	192.91	169.41	610.08	318.14	295.11	474.76	265.89	295.98
8 26	200.36	274.86	240.18	316.86	183.15	183.15	182.64	504.89	605.20	219.60	456.00	242.71	291.82
8 27	210.64	291.55	214.49	230.29	169.54	213.46	135.63	428.86	252.51	281.00	379.45	233.74	306.09
8 28	200.36	247.89	205.50	225.79	175.83	178.14	112.51	302.09	309.28	419.02	470.97	216.32	301.01
8 29	213.21	235.04	200.36	190.22	173.13	176.99	126.51	488.07	235.43	325.86	353.94	199.59	346.48
8 30	303.11	214.49	229.90	166.33	159.13	198.95	140.25	293.61	349.10	430.15	287.18	183.55	341.96
8 31	235.04	214.49	232.47	157.59	141.54	182.64	134.86	557.81	275.76	324.69	291.24	189.49	333.02

Location : End of Madi River River : Madi
 Index No. Drainage area : 1,102 km²

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
9 1	245.32	197.79	219.63	146.93	165.69	391.74	128.70	739.93	230.80	372.96	268.27	171.97	322.46
9 2	332.66	188.80	200.36	173.13	162.86	342.42	160.42	434.51	234.27	452.31	272.26	166.33	405.95
9 3	253.02	182.38	229.90	178.53	166.71	288.09	127.28	471.75	350.64	320.82	243.47	160.78	349.20
9 4	224.77	179.81	205.50	134.86	166.20	320.32	105.19	401.50	245.06	291.24	219.18	251.85	379.87
9 5	258.16	184.95	253.02	122.92	168.00	317.37	106.48	363.74	195.74	243.76	443.14	218.46	448.29
9 6	258.16	191.37	354.49	110.59	184.66	460.84	117.91	408.69	231.96	317.92	277.08	195.52	539.44
9 7	235.04	179.39	242.75	106.86	163.24	331.24	102.75	254.95	166.71	334.10	247.26	175.79	327.72
9 8	253.02	173.39	214.49	101.59	161.32	267.54	202.93	158.62	459.71	296.82	296.82	162.62	318.98
9 9	305.68	173.39	200.36	149.37	158.36	244.55	109.17	178.79	219.37	335.60	314.65	157.14	314.65
9 10	255.59	172.11	188.80	208.20	152.97	239.67	104.55	155.15	175.06	288.53	302.70	162.62	331.25
9 11	277.43	177.24	184.95	141.54	148.73	285.26	128.05	141.92	150.91	247.39	324.21	151.75	351.02
9 12	242.75	227.34	166.97	137.04	146.42	239.67	170.31	129.47	150.14	238.96	274.66	144.72	328.60
9 13	242.75	227.34	166.97	137.04	146.42	239.67	170.31	129.47	150.14	238.96	274.66	144.72	328.60
9 14	219.63	196.51	182.38	151.69	142.82	175.96	127.28	114.44	137.17	197.64	235.22	137.86	292.65
9 15	214.49	191.37	175.96	181.35	143.59	187.65	159.52	96.59	119.32	197.64	222.77	142.99	355.59
9 16	210.64	184.95	165.69	149.37	141.03	152.58	162.22	80.40	123.56	178.45	216.32	141.27	294.31
9 17	245.32	196.51	159.26	122.92	138.84	137.17	150.14	71.41	116.49	199.73	208.57	148.21	239.70
9 18	205.50	166.97	148.99	122.14	145.91	133.32	134.86	83.10	91.32	230.73	203.71	177.71	228.59
9 19	200.36	161.83	147.70	150.14	137.04	126.64	120.73	109.81	83.10	376.19	190.15	142.99	224.94
9 20	191.37	148.99	145.14	134.86	133.83	119.45	111.74	76.81	68.20	452.31	178.36	132.82	205.78
9 21	186.24	136.14	134.86	114.95	136.92	113.28	127.28	79.89	145.14	291.24	176.43	126.26	236.71
9 22	182.38	131.01	141.28	101.59	145.91	98.77	115.21	67.69	104.55	259.79	166.95	170.08	210.67
9 23	177.24	125.10	136.14	97.61	143.34	96.33	98.38	67.69	120.73	236.59	179.65	148.21	211.37
9 24	172.11	123.30	242.75	92.73	167.36	101.08	93.63	93.12	121.50	211.55	173.24	139.56	233.74
9 25	166.97	121.37	196.51	82.59	168.25	214.11	88.49	69.10	114.44	187.37	178.36	142.99	200.96
9 26	155.41	113.03	166.97	76.93	155.41	187.65	85.15	69.10	127.28	173.62	161.39	144.72	184.86
9 27	154.13	121.37	154.13	72.95	146.16	221.94	84.13	62.93	95.43	151.67	161.39	164.47	177.71
9 28	148.99	145.14	159.26	69.10	151.81	169.41	104.55	87.34	110.46	144.80	152.94	142.99	168.20
9 29	145.14	242.75	163.12	66.66	158.24	245.83	103.39	77.32	94.27	149.93	148.80	134.49	155.33
9 30	145.14	191.37	147.70	62.29	147.96	150.14	97.23	68.71	109.81	131.70	141.27	131.17	157.74

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km²

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
10 1	140.00	173.39	143.85	59.72	145.91	137.94	94.79	104.59	85.80	120.92	141.84	127.88	151.75
10 2	138.71	159.26	140.00	56.51	148.86	167.61	78.86	81.43	100.82	115.77	142.99	126.26	144.72
10 3	128.44	143.85	136.14	52.40	146.16	129.59	78.86	77.83	149.25	114.32	137.86	119.87	141.27
10 4	132.29	136.14	131.01	50.48	141.03	141.92	72.44	79.89	91.32	109.36	154.73	121.45	134.49
10 5	128.44	154.13	131.01	54.07	136.14	228.88	72.95	69.61	115.85	102.53	142.99	118.30	127.88
10 6	134.86	123.30	125.10	53.69	127.15	149.25	74.88	64.22	137.94	99.23	157.14	116.73	126.80
10 7	148.99	116.37	128.44	47.91	122.40	137.17	62.04	62.42	101.47	92.22	147.63	115.18	119.87
10 8	136.14	108.02	125.10	42.38	119.96	113.92	60.37	61.14	78.86	93.47	134.49	115.18	114.67
10 9	126.90	103.14	119.70	50.48	115.08	114.70	57.03	65.12	65.12	91.60	141.84	115.18	112.12
10 10	119.70	100.05	114.70	41.10	113.92	96.33	62.93	58.70	63.32	90.37	151.75	109.09	112.12
10 11	116.37	113.03	109.69	38.40	114.57	102.37	55.10	52.79	58.31	83.80	147.04	109.09	109.09
10 12	108.02	103.14	106.35	36.22	116.24	96.97	52.79	53.94	54.33	83.80	134.49	107.59	107.59
10 13	104.68	93.89	108.02	32.11	124.59	97.48	49.45	47.01	47.01	74.30	126.26	104.63	106.11
10 14	103.14	95.43	111.36	28.13	114.18	83.48	49.45	51.63	45.72	72.71	123.04	100.26	97.41
10 15	103.14	95.43	111.36	26.07	106.99	76.93	48.42	50.60	43.67	71.13	119.34	98.83	96.94
10 16	100.05	147.70	114.70	24.02	112.13	71.15	47.39	49.83	41.74	68.56	116.73	97.41	92.74
10 17	98.51	140.00	108.02	21.83	109.43	66.66	45.98	50.99	39.69	68.56	112.12	96.00	90.00
10 18	95.43	154.13	103.14	22.99	113.67	69.36	46.37	49.83	40.59	66.56	112.12	96.00	88.64
10 19	92.35	111.36	103.14	21.06	106.99	65.76	43.41	47.39	39.05	66.56	112.12	96.00	86.40
10 20	85.03	101.59	96.97	21.06	103.26	64.48	43.41	48.81	38.79	63.62	110.09	93.20	86.40
10 21	80.92	106.35	95.43	21.06	101.08	63.19	41.74	48.81	36.35	66.06	108.59	93.20	83.76
10 22	79.50	95.43	90.81	20.42	101.08	61.52	41.49	50.60	34.68	69.07	107.10	89.09	82.02
10 23	79.50	90.81	87.85	20.04	98.38	61.52	41.49	50.60	33.91	61.24	103.16	86.40	79.44
10 24	78.09	83.61	86.44	20.04	96.33	60.37	47.39	46.37	33.91	61.24	103.16	86.40	79.44
10 25	76.68	80.92	85.03	19.52	95.04	59.98	44.05	45.34	32.88	61.71	103.65	86.40	78.17
10 26	75.26	80.92	80.92	19.14	92.22	60.37	41.74	44.31	31.60	58.01	101.23	86.40	80.73
10 27	72.70	75.26	79.50	19.27	89.65	56.00	40.59	43.41	30.57	55.78	99.79	85.08	76.08
10 28	71.54	71.54	78.09	19.27	87.47	55.23	39.30	41.49	29.80	53.17	98.83	85.08	73.60
10 29	71.54	68.97	76.68	19.39	87.47	54.84	38.79	40.84	28.16	53.60	96.94	83.76	73.60
10 30	61.52	66.40	73.98	19.27	85.54	52.66	39.30	40.59	28.13	52.75	95.53	83.76	73.60
10 31	60.37	61.52	72.70	18.75	82.84	51.63	37.25	39.94	27.74	52.75	96.00	82.45	71.97

Location : End of Madi River : Madi
 Index No. : Drainage area : 1,102 km²

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
1	59.21	59.21	71.54	18.50	79.76	50.48	36.73	38.79	27.10	53.17	94.59	81.16	70.76
2	59.21	58.05	70.26	18.37	77.19	49.45	35.83	37.50	26.33	54.47	93.20	79.87	69.96
3	59.21	57.03	63.96	17.85	74.75	47.78	35.58	37.25	25.69	49.02	91.82	78.59	67.20
4	59.21	55.87	62.68	17.47	72.95	46.37	35.58	35.83	24.66	49.02	92.28	78.59	66.81
5	58.05	53.56	60.37	17.08	73.34	45.47	34.68	35.58	23.63	48.22	91.82	77.33	66.03
6	57.03	52.40	59.21	16.83	70.26	44.82	33.65	35.06	23.25	48.22	90.45	76.08	65.65
7	57.03	51.25	58.05	16.70	68.84	44.44	33.65	34.42	22.61	47.82	90.00	76.08	64.88
8	55.87	50.22	59.21	16.44	67.94	43.54	32.62	33.65	22.09	45.87	86.40	74.83	63.73
9	53.56	49.19	58.05	16.31	67.43	42.90	32.11	32.88	21.45	44.72	84.64	74.83	62.97
10	51.25	48.29	55.87	16.31	106.19	42.64	31.60	32.37	21.06	43.23	85.08	73.60	62.22
11	50.22	46.24	54.71	16.31	147.06	41.74	31.08	32.11	20.94	44.72	83.76	72.38	61.84
12	50.22	45.21	53.56	16.05	100.05	41.10	30.57	31.34	20.29	47.82	82.89	72.38	60.36
13	48.19	44.18	54.71	15.67	88.62	40.84	29.80	30.83	20.04	42.85	82.02	76.08	59.62
14	48.29	42.26	53.56	15.28	83.61	39.94	29.41	30.57	20.29	42.12	81.59	74.83	59.25
15	48.29	43.28	53.56	15.28	80.53	39.30	29.16	30.05	19.78	40.68	82.02	71.16	58.16
16	47.27	42.26	53.56	15.03	78.48	39.30	28.64	30.57	19.27	40.33	81.59	69.96	56.36
17	47.27	41.23	52.40	14.77	76.04	39.05	28.38	29.80	18.75	39.98	81.16	69.96	56.36
18	46.24	40.33	47.27	14.64	74.24	37.89	28.00	29.41	18.50	38.59	80.73	68.77	54.94
19	45.21	39.43	39.43	14.51	70.77	37.38	31.85	29.80	18.50	36.90	80.73	68.77	53.89
20	45.21	38.53	38.53	14.39	68.46	36.48	30.05	29.16	18.50	36.90	79.44	67.59	53.19
21	44.18	37.63	37.63	14.13	66.02	35.71	28.64	28.13	18.24	36.24	78.59	67.59	52.85
22	43.28	35.83	36.73	14.00	64.60	35.19	27.49	27.74	17.98	35.91	78.17	67.59	52.85
23	42.26	34.94	36.73	13.61	63.58	34.68	26.84	27.23	17.72	34.94	76.91	67.59	52.16
24	42.26	34.04	36.73	13.36	62.55	34.42	26.33	27.74	17.47	34.63	76.91	67.59	52.16
25	41.23	34.04	35.83	13.36	61.01	34.42	27.49	27.10	17.08	34.94	76.08	67.59	52.16
26	41.23	34.04	35.83	13.36	60.49	33.91	30.83	26.59	16.18	34.31	75.25	67.59	51.47
27	40.33	34.04	34.94	13.10	59.98	33.65	27.49	26.59	16.05	33.37	74.83	66.42	51.82
28	40.33	34.04	34.94	13.10	58.44	33.39	26.33	26.33	16.05	32.45	74.42	66.42	51.47
29	40.33	33.14	34.04	13.23	56.77	32.62	25.69	26.33	15.93	32.14	73.60	66.42	50.80
30	39.43	32.24	34.04	14.51	54.46	31.85	25.30	25.69	15.54	31.84	72.38	65.26	50.12

Location : End of Madi River : Madi
 Index No. : 1.102 km2
 Drainage area

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
1	38.53	32.24	34.04	13.87	53.94	31.21	27.49	25.30	15.54	30.95	73.19	64.11	50.12
2	38.53	32.24	33.14	12.97	53.30	30.70	26.59	25.30	15.28	30.65	72.38	62.97	49.45
3	37.66	34.04	33.14	12.97	52.15	30.44	25.69	25.05	15.16	30.65	72.38	62.97	49.45
4	36.73	31.47	32.24	12.72	53.30	29.93	25.05	24.92	15.16	30.36	72.38	62.97	48.79
5	35.83	31.47	32.24	12.33	52.15	29.28	24.66	24.92	14.90	30.07	71.16	62.97	48.12
6	36.73	29.93	31.47	12.20	52.15	29.03	24.40	24.66	14.77	30.07	70.76	61.84	46.82
7	35.83	29.16	30.70	12.07	51.50	28.64	24.02	24.40	14.77	30.07	70.76	60.73	46.17
8	35.83	29.16	31.47	12.46	51.50	28.64	24.02	24.02	14.39	29.21	70.36	60.73	46.17
9	34.94	29.16	30.70	12.33	50.35	28.84	26.20	24.02	14.26	28.93	69.96	60.73	46.17
10	34.94	27.74	29.93	12.07	49.71	28.38	25.64	24.02	14.13	28.93	69.96	59.62	45.53
11	33.14	28.38	29.93	11.82	48.42	28.00	25.58	23.76	13.87	28.37	68.77	59.62	45.85
12	33.14	27.74	29.93	11.56	47.78	28.00	25.58	23.76	13.87	28.37	68.77	59.62	45.21
13	33.14	27.74	29.16	11.56	46.37	28.00	25.58	23.25	13.61	28.65	68.38	59.62	45.21
14	33.14	26.20	29.16	11.56	45.72	27.49	25.98	22.86	13.36	28.37	67.59	59.62	44.57
15	33.14	26.20	28.38	11.69	45.72	27.23	25.68	22.61	13.23	28.37	67.59	59.62	44.26
16	33.14	26.20	28.38	11.30	44.44	27.23	25.38	22.22	12.33	28.10	65.26	58.52	43.94
17	33.14	25.43	27.74	11.30	44.44	27.23	25.64	22.22	12.33	28.37	64.88	58.52	42.69
18	33.14	24.66	26.97	11.05	44.44	27.10	27.74	21.83	12.33	28.10	64.49	58.52	41.16
19	32.24	24.66	26.97	11.05	44.44	26.59	28.00	21.71	12.33	28.65	64.11	58.52	42.08
20	32.24	24.66	26.97	10.53	44.44	26.59	27.49	21.71	12.33	27.55	64.11	57.43	41.47
21	31.47	24.02	26.97	10.28	42.90	26.59	27.10	21.06	12.33	27.55	64.49	56.36	40.56
22	31.47	24.02	26.97	10.02	41.49	26.46	26.33	21.06	12.33	27.01	63.73	56.36	40.25
23	30.70	23.38	26.97	10.02	39.94	25.82	25.69	21.06	12.33	27.01	62.97	55.29	39.36
24	30.70	22.73	26.97	10.02	39.94	25.82	25.30	20.68	12.33	27.28	63.35	55.29	39.06
25	35.83	22.73	26.97	9.76	39.94	25.82	25.05	20.55	12.20	27.01	62.59	55.29	38.77
26	37.63	22.73	26.97	9.76	39.94	25.43	24.66	20.55	12.07	26.21	62.59	55.29	38.77
27	31.47	23.38	26.20	9.76	39.17	25.17	24.40	20.55	12.07	26.21	61.84	55.29	38.77
28	31.47	22.09	26.20	9.63	37.63	25.17	24.02	20.55	11.82	25.69	61.47	55.29	38.77
29	30.70	22.09	26.20	9.63	37.63	24.53	24.02	20.55	11.69	25.43	60.36	55.29	43.32
30	29.93	22.09	26.20	9.50	36.73	24.15	23.76	20.29	11.69	25.43	60.36	55.29	41.16
31	29.93	22.09	26.20	9.63	35.06	24.02	23.25	20.04	11.69	25.17	60.36	55.29	40.56

Location : Upper Seti Dam Site River : Seti
 Index No. Drainage area : 1,502 km²

Year	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1	31.77	34.04	24.58	20.61	24.89	18.35	20.18	23.72	25.74	25.12	36.84	33.04	22.32	22.69	32.26	37.67	25.24	18.20
2	30.37	29.50	22.18	20.73	20.52	14.60	17.27	18.66	20.32	17.56	33.66	32.12	23.13	20.38	29.59	33.75	22.89	14.85
3	30.06	29.70	20.98	20.06	24.72	15.16	16.25	19.38	18.01	19.38	32.59	30.18	19.82	20.69	27.20	29.80	25.28	15.59
4	31.86	32.68	19.38	22.82	25.26	14.96	24.59	29.13	20.90	25.82	40.77	22.84	24.94	30.17	29.39	37.66	26.57	28.71
5	68.92	36.28	22.22	24.48	34.95	16.62	35.26	39.58	52.87	39.19	38.99	24.02	40.87	46.85	68.65	51.89	37.13	40.06
6	77.95	151.00	63.46	57.79	141.86	34.37	91.23	187.67	106.60	176.30	91.67	84.91	190.23	92.36	162.15	84.68	107.89	95.89
7	134.27	293.51	228.35	231.34	336.10	127.99	380.80	291.21	325.57	244.01	343.35	426.99	380.26	288.47	381.04	314.96	425.14	400.55
8	460.52	368.53	259.65	213.24	287.01	314.95	412.05	300.57	362.45	389.00	411.63	328.44	342.27	408.97	349.62	446.97	446.49	376.47
9	313.05	190.27	159.75	185.77	222.70	264.02	202.12	212.78	251.57	265.26	254.36	305.53	216.04	248.32	215.58	239.35	313.65	242.69
10	112.38	62.61	66.04	77.16	326.56	79.48	106.12	145.69	108.55	259.44	131.67	139.16	88.37	111.76	105.97	107.18	82.48	96.95
11	82.03	46.89	38.59	43.52	42.07	40.30	56.82	67.72	51.45	74.40	43.78	54.09	43.61	74.82	64.34	57.50	43.81	50.19
12	53.82	31.26	25.54	33.82	23.72	26.10	33.38	40.00	33.44	39.12	34.07	30.36	33.79	43.31	47.69	34.59	26.23	36.88
Average	118.92	108.86	79.23	79.28	125.86	80.58	116.34	114.62	114.87	131.10	124.45	125.97	118.80	117.40	126.12	123.00	131.90	118.09

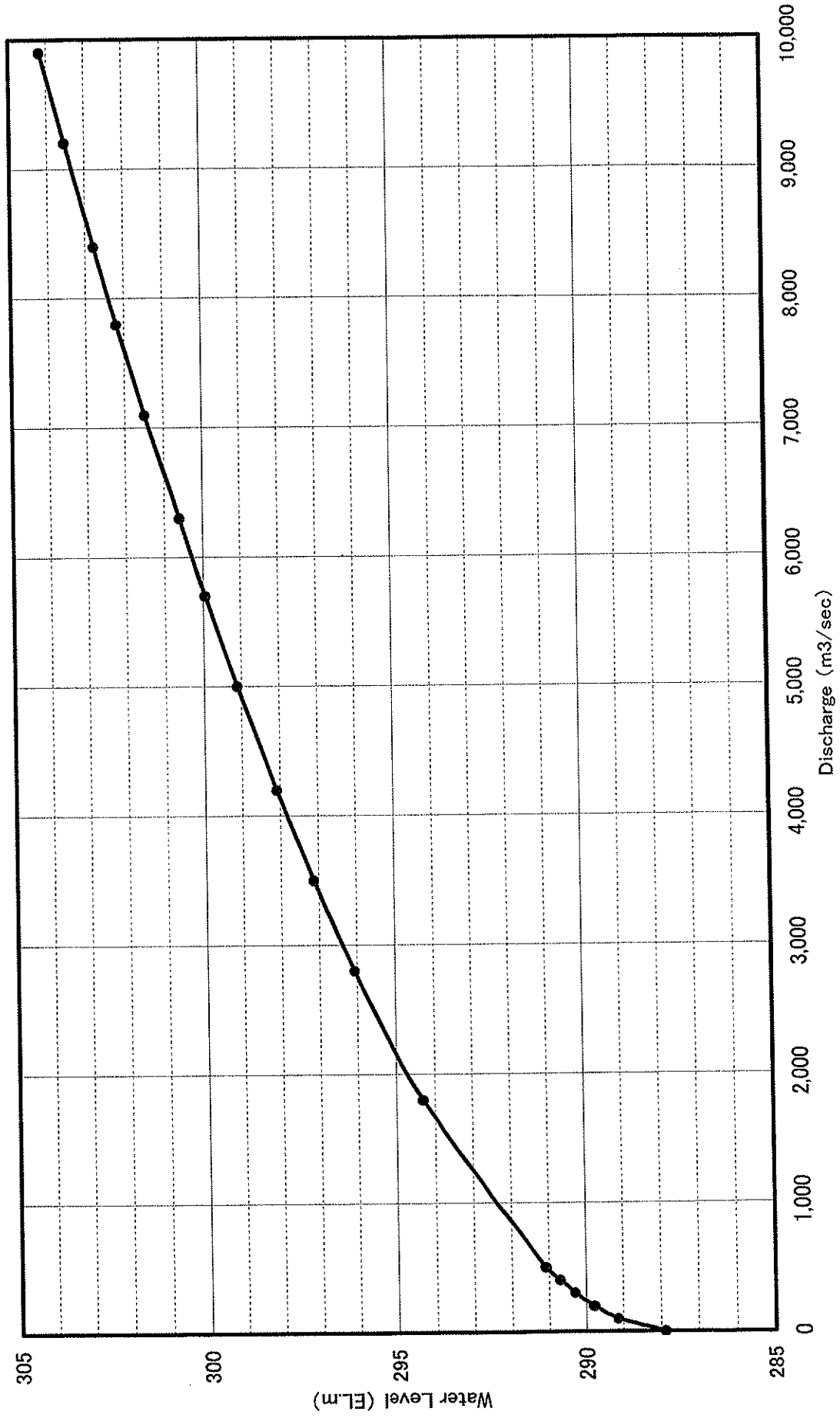
Year	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1	33.34	39.84	27.98	36.90	24.71	23.51	30.17	33.86	28.11	19.88	31.14	23.19	29.31	10.51	30.10	27.15	24.23	21.30
2	30.80	36.60	21.22	33.46	19.78	20.42	26.84	27.76	24.81	17.60	27.94	20.60	27.49	9.92	21.63	24.01	21.52	18.50
3	36.11	35.33	21.67	32.95	21.40	21.43	27.04	27.79	25.97	16.75	26.47	14.47	29.76	11.27	30.90	28.37	24.86	16.96
4	40.10	34.52	24.02	39.10	28.51	23.65	28.79	30.51	35.90	20.28	25.15	14.69	30.12	11.93	30.87	32.61	29.06	18.82
5	48.89	46.66	62.84	61.12	27.89	31.15	40.70	59.40	55.18	33.39	35.73	30.02	37.03	28.25	37.61	38.43	48.67	34.78
6	96.90	72.84	151.94	114.94	117.82	72.15	146.63	152.91	114.93	82.02	97.75	106.76	165.88	69.25	74.86	149.30	93.07	93.07
7	257.70	210.40	445.11	333.41	260.70	279.97	284.43	251.67	271.89	281.02	188.94	218.40	184.16	314.95	227.03	229.59	288.07	264.77
8	271.34	270.49	287.29	197.46	259.80	279.54	320.46	310.70	237.33	320.41	289.77	321.32	233.91	193.92	319.76	258.88	452.58	238.65
9	155.55	276.75	243.47	202.86	280.16	183.62	238.87	240.20	194.11	250.18	197.45	215.41	142.80	178.89	252.24	141.60	207.34	174.21
10	85.90	143.17	96.07	126.16	147.86	87.26	102.64	113.93	102.75	117.19	124.81	122.40	174.76	129.86	107.58	61.76	64.24	67.41
11	54.49	54.66	58.63	56.45	59.19	54.22	52.94	53.84	44.46	56.25	50.28	56.84	17.67	85.89	45.79	35.05	35.63	23.11
12	48.33	35.64	41.31	35.98	30.68	39.24	38.58	36.44	27.31	38.97	30.51	33.33	12.93	52.74	31.53	33.12	26.02	15.28
Average	96.37	104.74	123.46	105.90	106.53	93.01	106.93	111.06	100.06	107.25	92.52	97.37	74.14	106.75	100.37	82.12	114.29	82.24

Location : End of Madi River River : Madi
 Index No. Drainage area : 1,102 km²

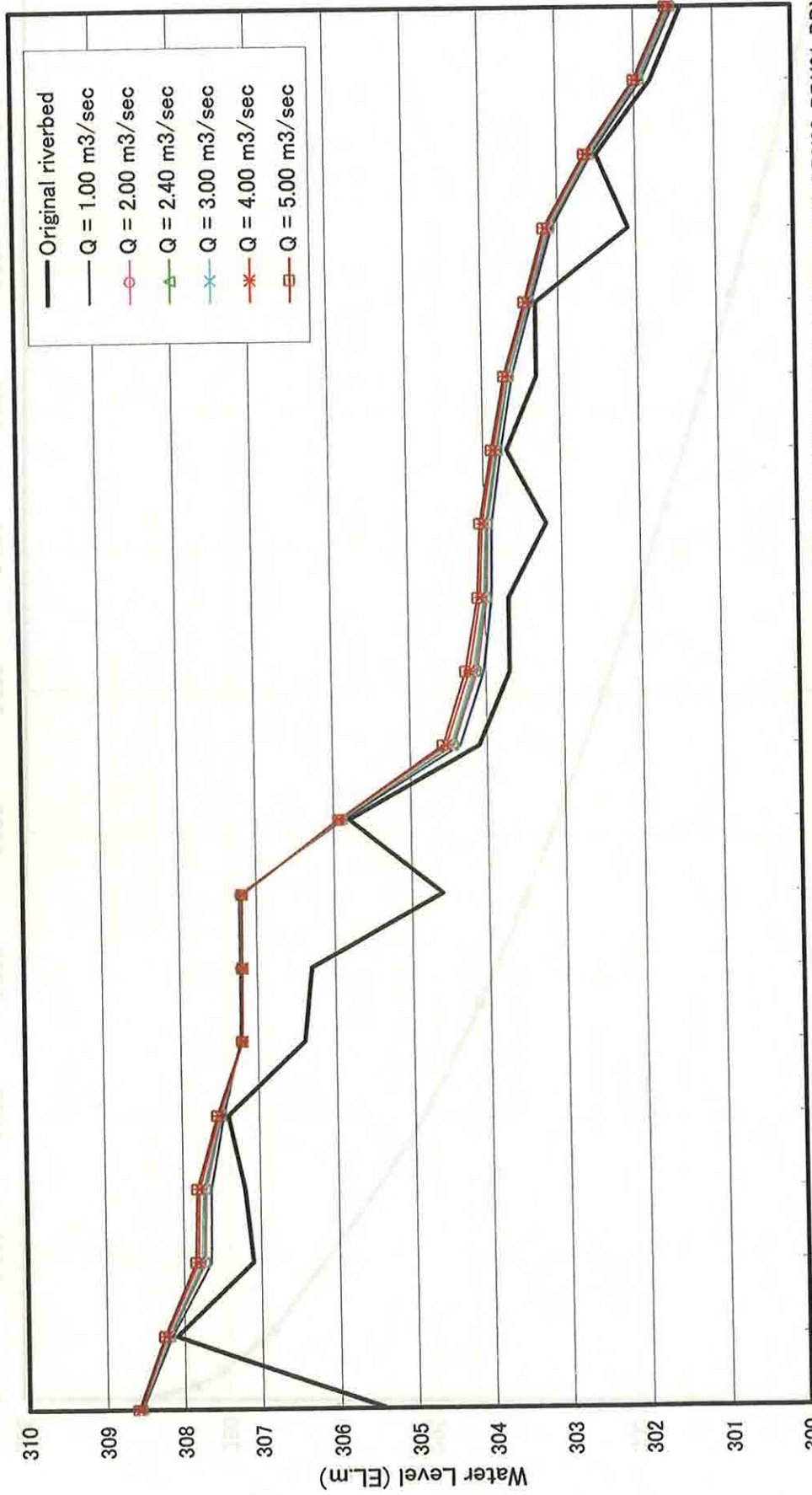
Year	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
1	24.32	31.48	17.82	12.99	21.04	38.36	21.93	31.99	21.42	20.38	26.15	29.35	24.37	17.32	26.99	20.10	25.41	9.11	26.09	23.53	21.01	18.46	20.47	22.58	57.27	52.37
2	20.34	28.68	15.56	10.34	19.52	34.74	15.35	29.00	17.14	17.70	23.27	24.06	21.50	15.25	24.09	17.86	23.83	8.60	18.88	20.81	18.66	16.03	17.35	20.12	53.10	49.98
3	21.06	25.06	16.88	10.52	23.48	35.76	15.98	28.56	18.54	18.57	23.43	24.08	22.51	14.52	22.94	12.55	25.80	9.77	26.78	24.59	21.54	14.70	17.01	17.52	52.82	50.70
4	26.13	30.38	17.53	19.11	26.96	34.72	18.29	33.89	24.71	20.50	24.95	26.45	31.12	17.57	21.80	12.74	26.10	10.34	26.85	28.27	25.19	16.31	23.22	21.76	60.59	55.14
5	54.26	46.13	21.81	30.72	32.94	53.00	66.08	52.97	24.18	27.00	35.28	51.48	47.83	28.94	30.97	26.02	32.09	24.49	32.60	33.31	42.19	30.15	42.62	42.46	89.92	58.37
6	138.69	78.14	66.82	79.42	82.97	72.74	159.22	99.63	101.95	62.54	96.83	127.09	132.54	99.62	71.09	84.73	92.53	221.79	51.46	64.88	46.52	80.67	180.43	137.97	140.31	119.47
7	361.70	335.56	408.85	388.59	225.08	178.01	455.09	289.99	225.97	242.67	229.20	218.14	235.66	243.58	163.77	189.30	159.62	272.99	196.78	199.00	249.69	229.48	294.28	257.93	314.55	337.59
8	346.58	503.89	471.16	358.47	238.98	258.56	263.71	171.15	225.18	242.29	277.76	269.31	205.71	277.72	251.16	278.50	202.74	168.08	277.16	224.39	392.28	206.86	230.84	392.21	275.07	288.91
9	168.48	189.69	231.85	149.71	156.16	214.56	164.82	135.26	186.80	122.43	159.26	160.15	129.42	166.81	131.65	143.62	95.21	112.27	168.18	94.41	138.24	116.15	202.40	176.88	121.59	217.33
10	108.31	84.19	60.66	73.63	80.70	136.53	99.28	109.35	128.16	75.63	88.96	98.75	89.06	101.57	108.18	106.09	32.71	112.56	93.25	53.53	55.68	58.43	77.90	122.90	101.71	101.20
11	57.82	38.79	29.48	39.63	56.66	57.96	62.39	48.93	51.31	47.00	45.89	46.67	38.54	48.76	43.58	49.26	15.32	74.45	39.69	30.38	30.88	20.03	41.18	82.44	71.76	58.40
12	40.92	24.97	18.07	25.34	45.07	32.71	42.45	31.19	26.59	34.01	33.44	31.58	23.67	33.78	26.45	28.89	11.21	45.71	27.33	28.71	22.55	13.24	28.15	66.48	58.70	44.31
Average	113.88	118.08	114.67	99.87	84.13	95.64	115.38	88.41	87.66	77.56	88.70	92.26	83.49	88.79	76.89	80.80	61.86	89.50	82.09	68.82	88.70	68.38	102.99	113.44	116.45	119.48

Rating Curves

Rating Curve at Section PX-9 (Tailrace Outlet)

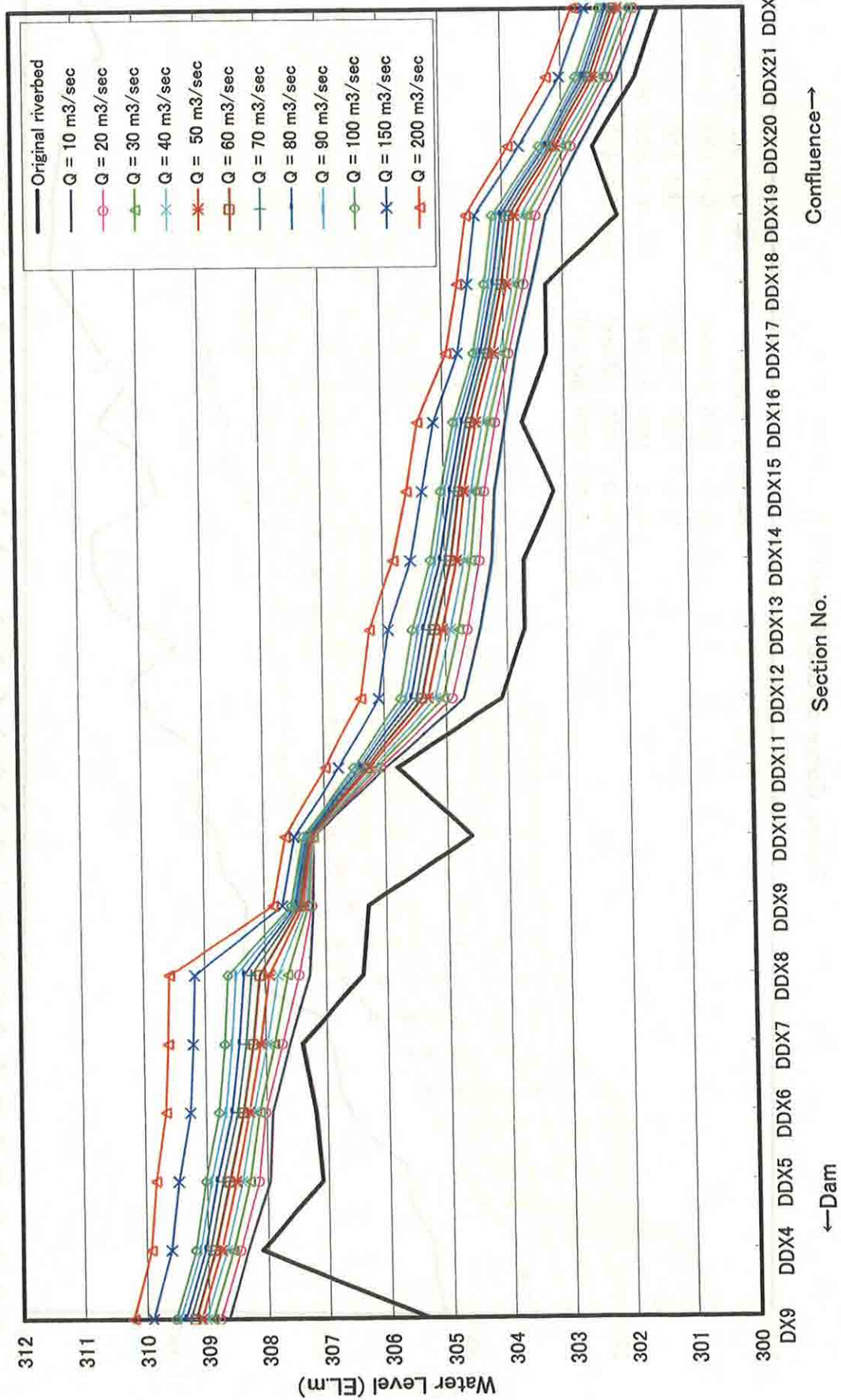


Rating Curve of Seti River for Environmental Discharge



←-Dam Section No. Confluence→

Rating Curve of Seti River for Sediment Flushing Discharge



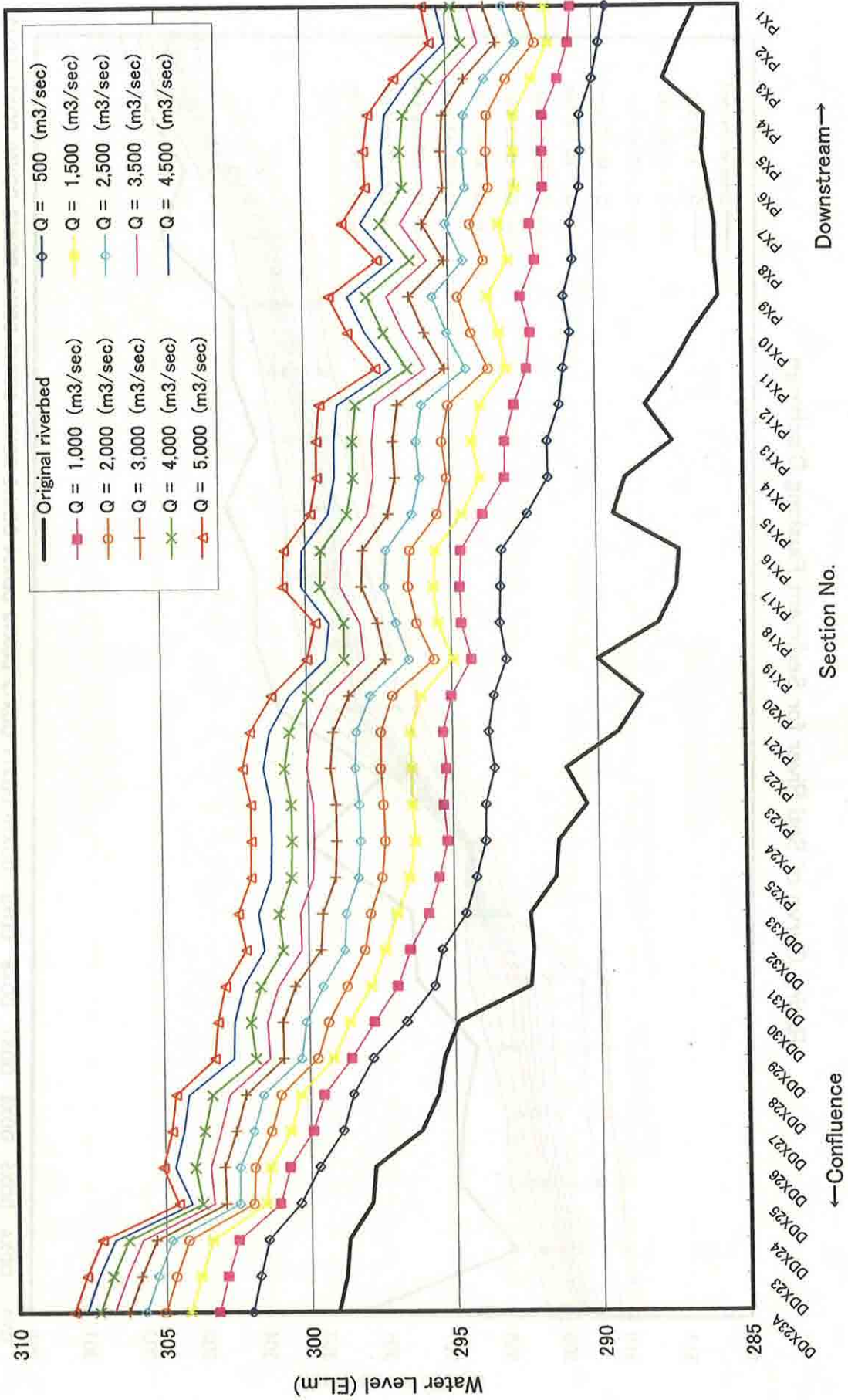
←Dam

Section No.

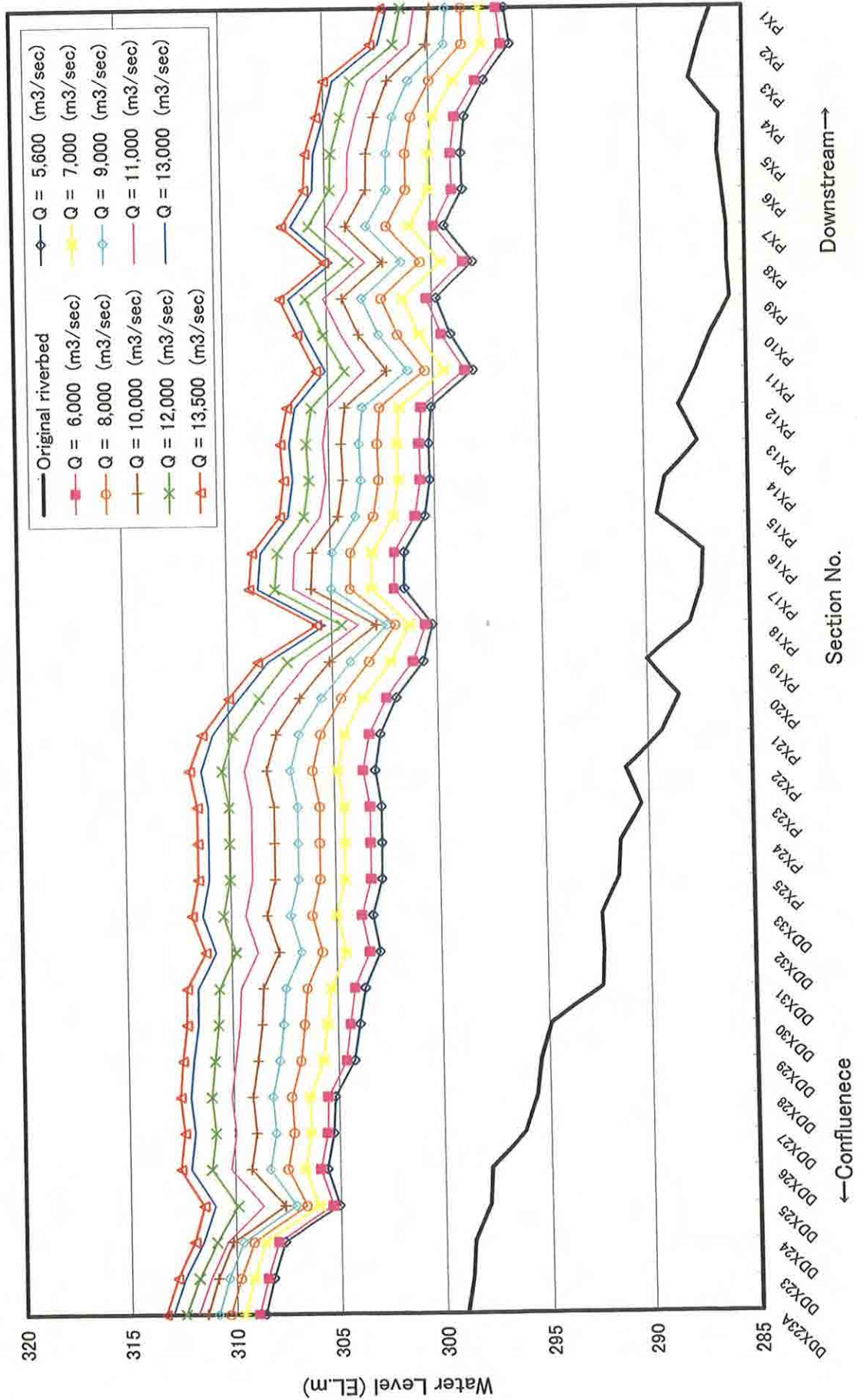
Confluence→

DX9 DDX4 DDX5 DDX6 DDX7 DDX8 DDX9 DDX10 DDX11 DDX12 DDX13 DDX14 DDX15 DDX16 DDX17 DDX18 DDX19 DDX20 DDX21 DDX22

Rating Curve of Seti River (1/2)



Rating Curve of Seti River (2/2)



River Cross Sections

Note : Section number “RCX-○○” of the plans corresponds to
“RX-○○” of the river cross sections.

C:\SMA\AS

24 000E

24 500E

25 000E

25 500E

26 000E

26 500E

27 000E

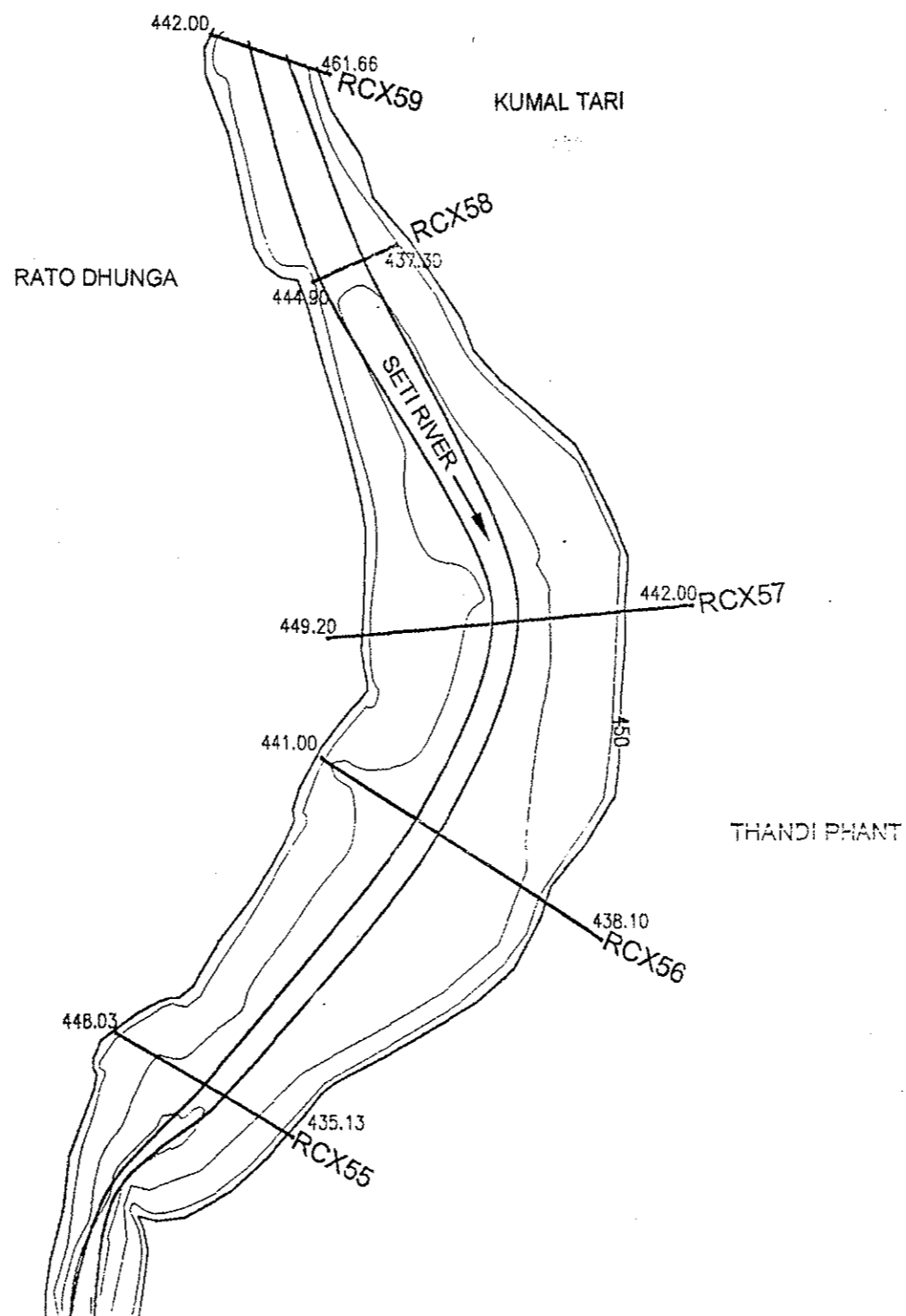
PLUS SCALE 1:1

59 000N

58 500N

58 000N

57 500N

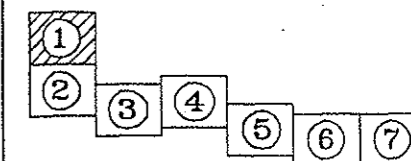


Legend

- TRACK
- ROAD
- KHOLA
- BOULDERS WITH SAND
- CLIFF
- HOUSES
- LANDSLIDE
- CULTIVATED LIMIT
- TREE
- SPOT HEIGHT 461.56



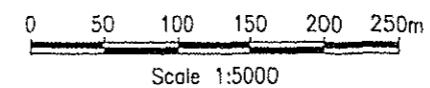
INDEX



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 Durbar Marg, Kathmandu (Nepal)

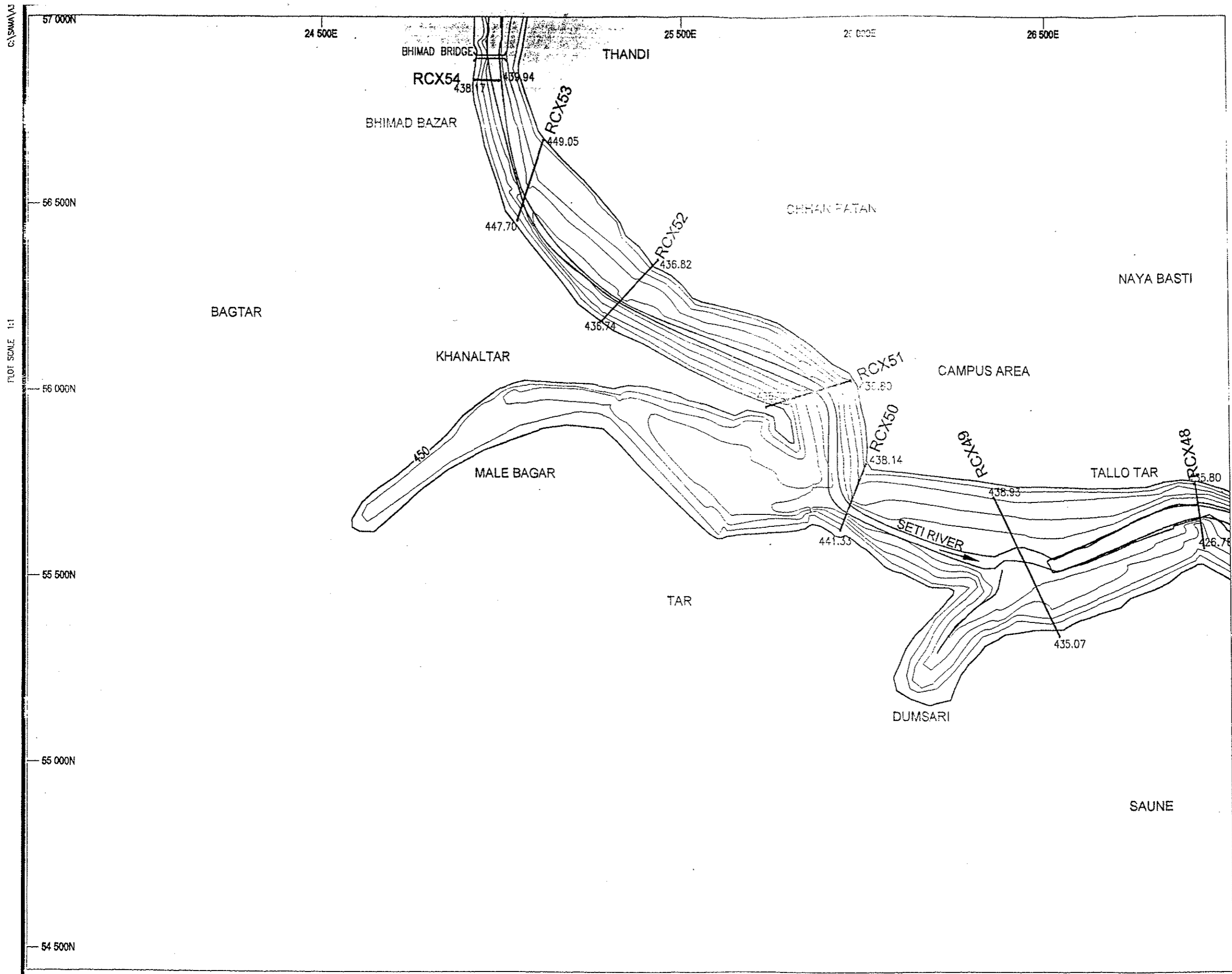
Project Preparation and Studies Department
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 Soil, Rock and Concrete Laboratory

Upper Seti Hydroelectric Project

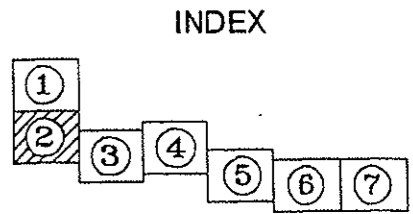


TITLE
**CROSS SECTION PLAN
 RESERVOIR**

Figure No.
 #



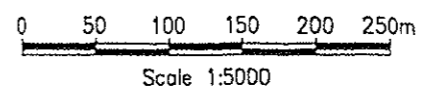
- ### Legend
- TRACK
 - ROAD
 - KHOLA
 - BOULDERS WITH SAND
 - CLIFF
 - HOUSES
 - LANDSLIDE
 - CULTIVATED LIMIT
 - TREE
 - SPOT HEIGHT 436.80



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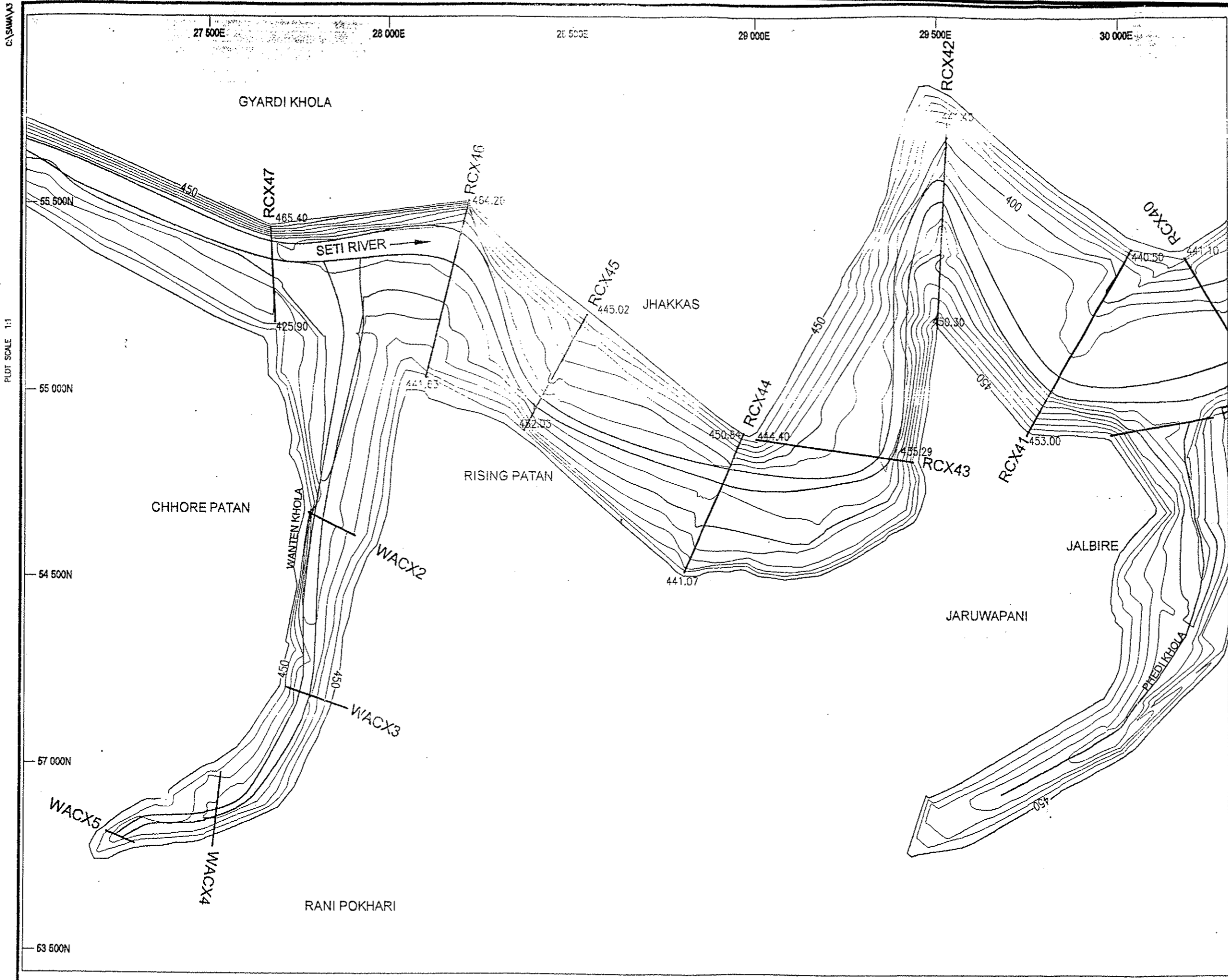
Project Preparation and Studies Department
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Upper Seti Hydroelectric Project

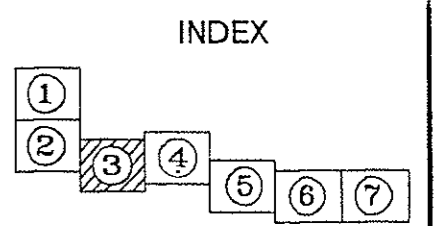


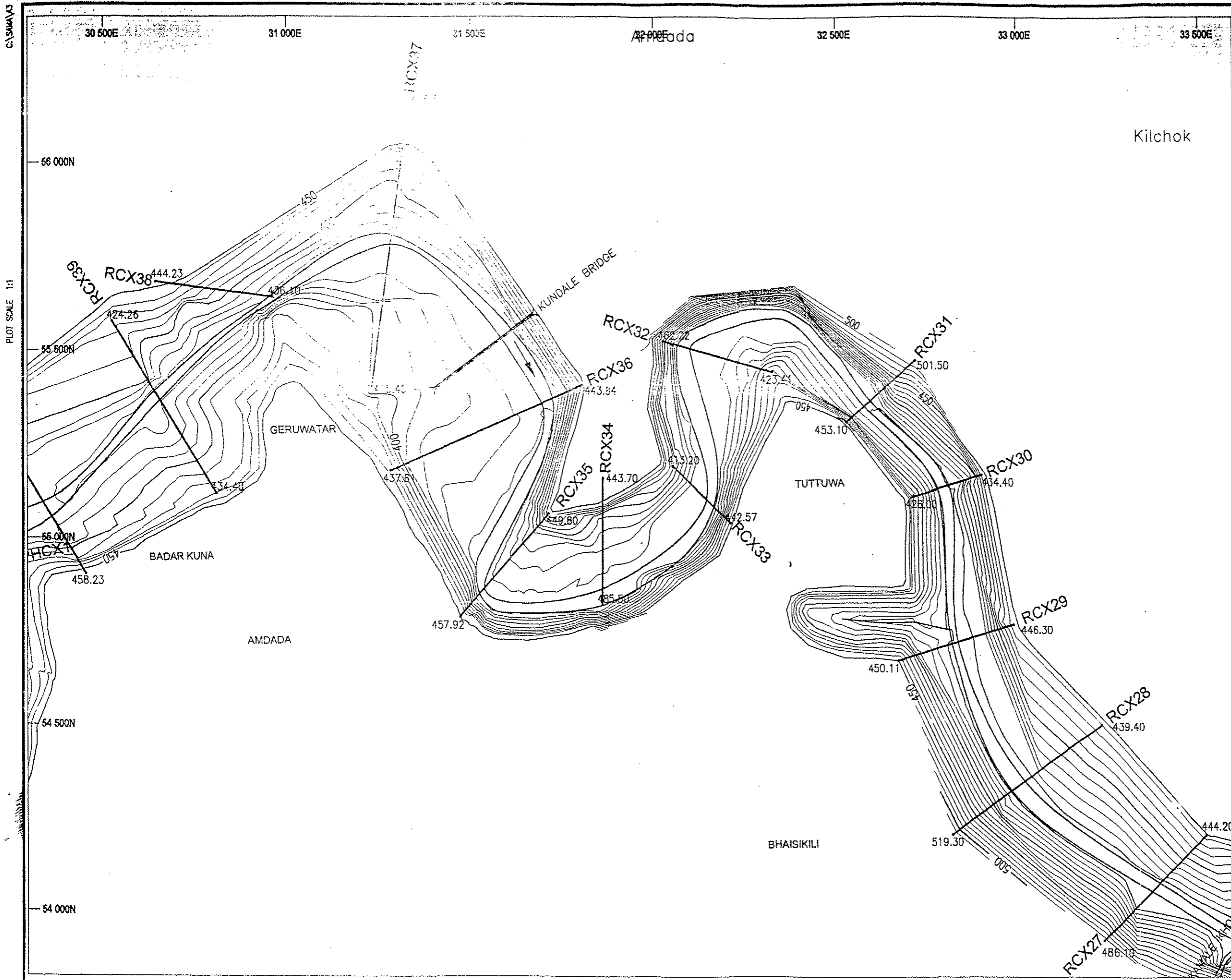
TITLE
**CROSS SECTION PLAN
 RESERVOIR**

Figure No. #

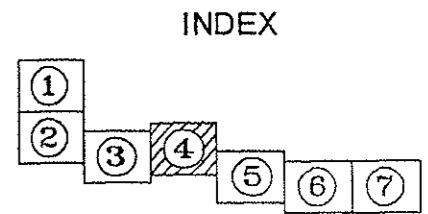


- ### Legend
- TRACK
 - ROAD
 - KHOLA
 - BOULDERS WITH SAND
 - CLIFF
 - HOUSES
 - LANDSLIDE
 - CULTIVATED LIMIT
 - TREE
 - SPOT HEIGHT 453.00





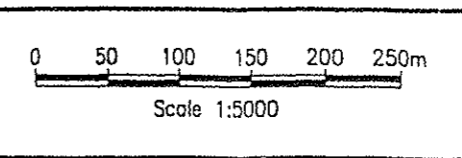
Legend	
TRACK	
ROAD	
KHOLA	
BOULDERS WITH SAND	
CLIFF	
HOUSES	
LANDSLIDE	
CULTIVATED LIMIT	
TREE	
SPOT HEIGHT	.434.00



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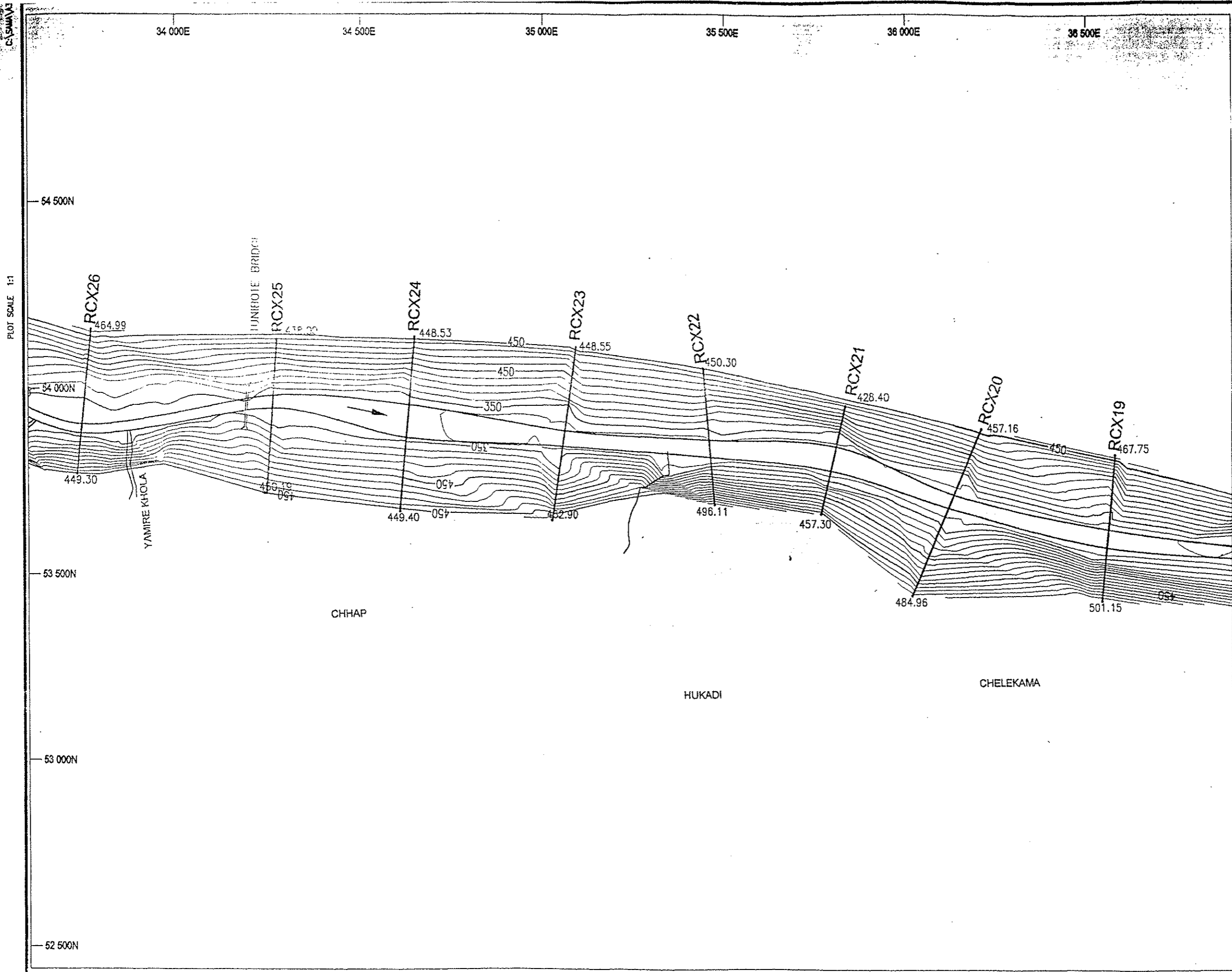
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Upper Seti Hydroelectric Project

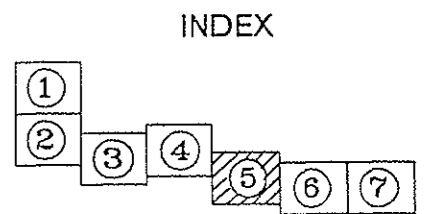


TITLE
**CROSS SECTION PLAN
RESERVOIR**

Figure No.
#



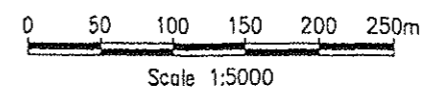
- ### Legend
- TRACK
 - ROAD
 - KNOS
 - BOULDER WITH SAND
 - CLIFF
 - HOUGH
 - LANDSLIDE
 - CULTIVATED LIMIT
 - TREE
 - SPOT HEIGHT 467.75



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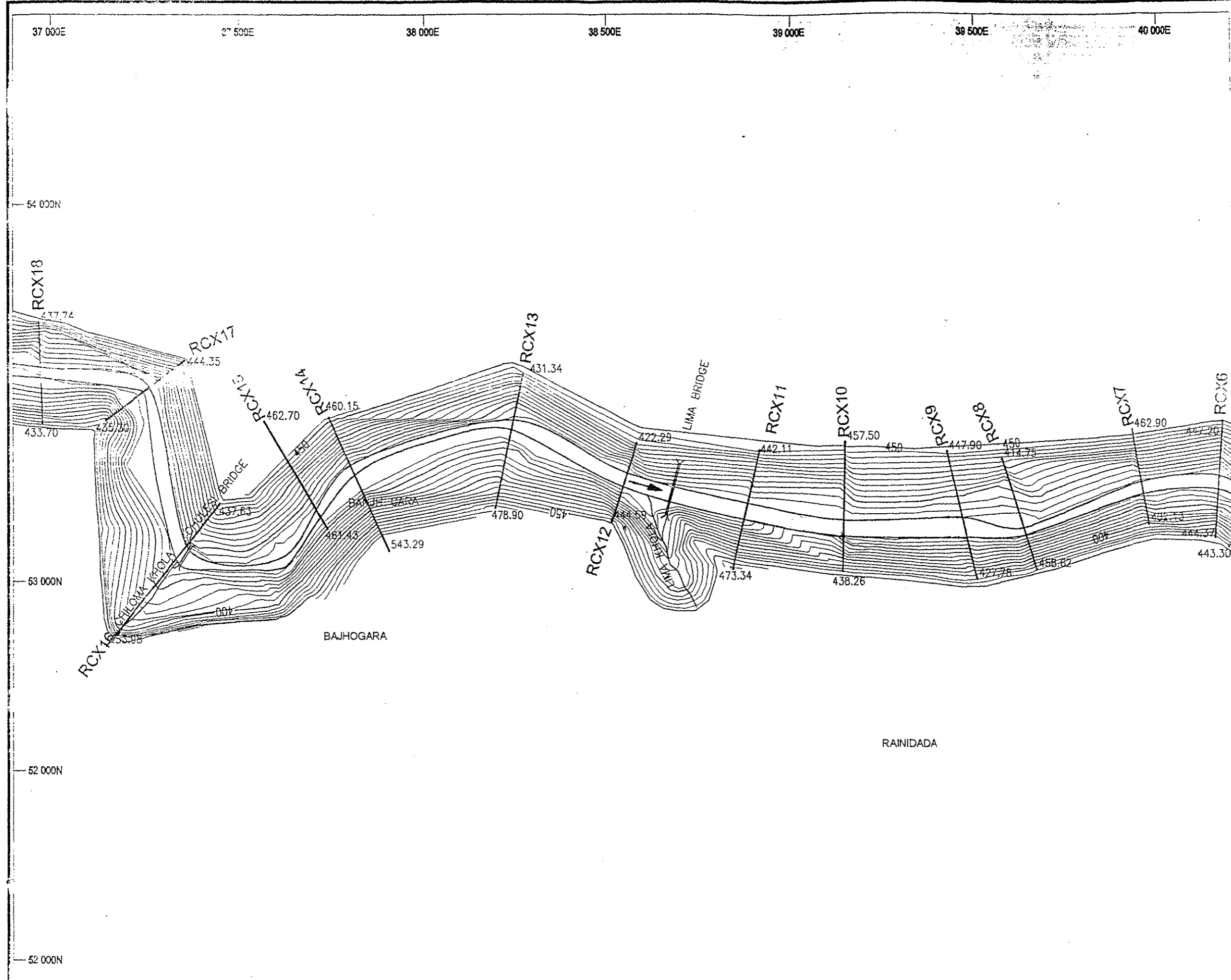


TITLE
CROSS SECTION PLAN
RESERVOIR

Figure No.
#

C:\SWANAS

PLOT SCALE 1:1

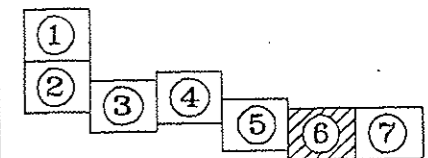


Legend

- TRAIL
- ROAD
- BOUNDARY WITH SHAL
- CLIFF
- RAIL
- LANDSLIDE
- CULTIVATED LIMIT
- TREE
- SPOT HEIGHT 462.90



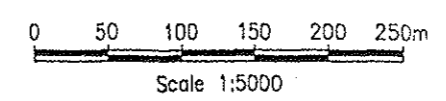
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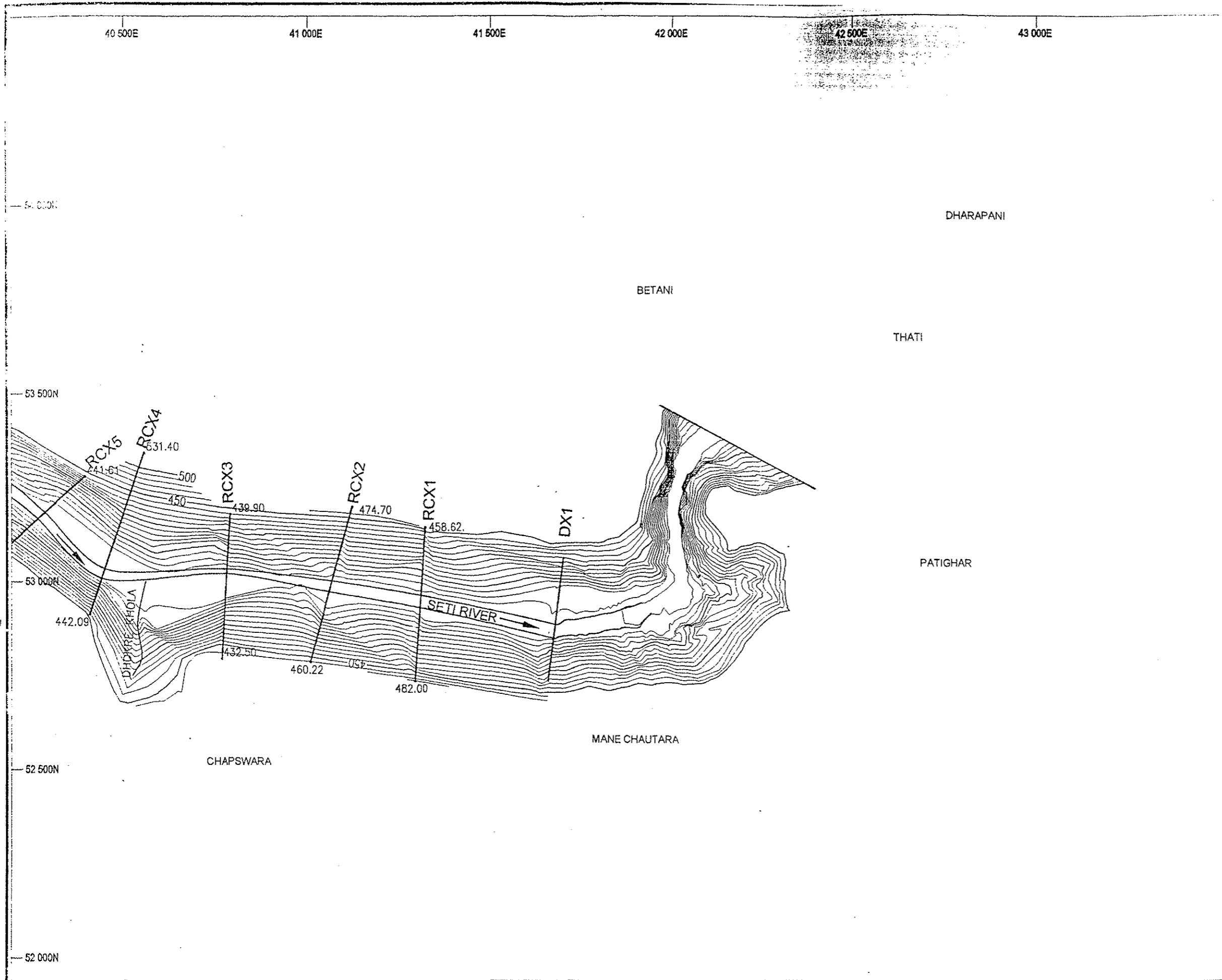
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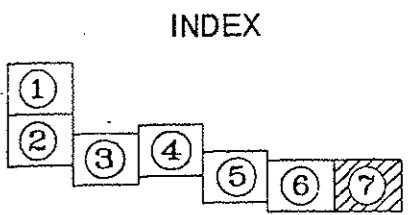


TITLE
**CROSS SECTION PLAN
 RESERVOIR**

Figure No.
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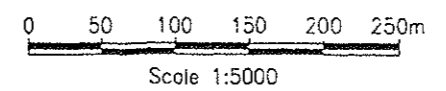
- ### Legend
- TRACK
 - ROAD
 - KHOLA
 - BOULDERS WITH SAND
 - CLIFF
 - HOUSES
 - LANDSLIDE
 - CULTIVATED LIMIT
 - TREE
 - SPOT HEIGHT 796.60



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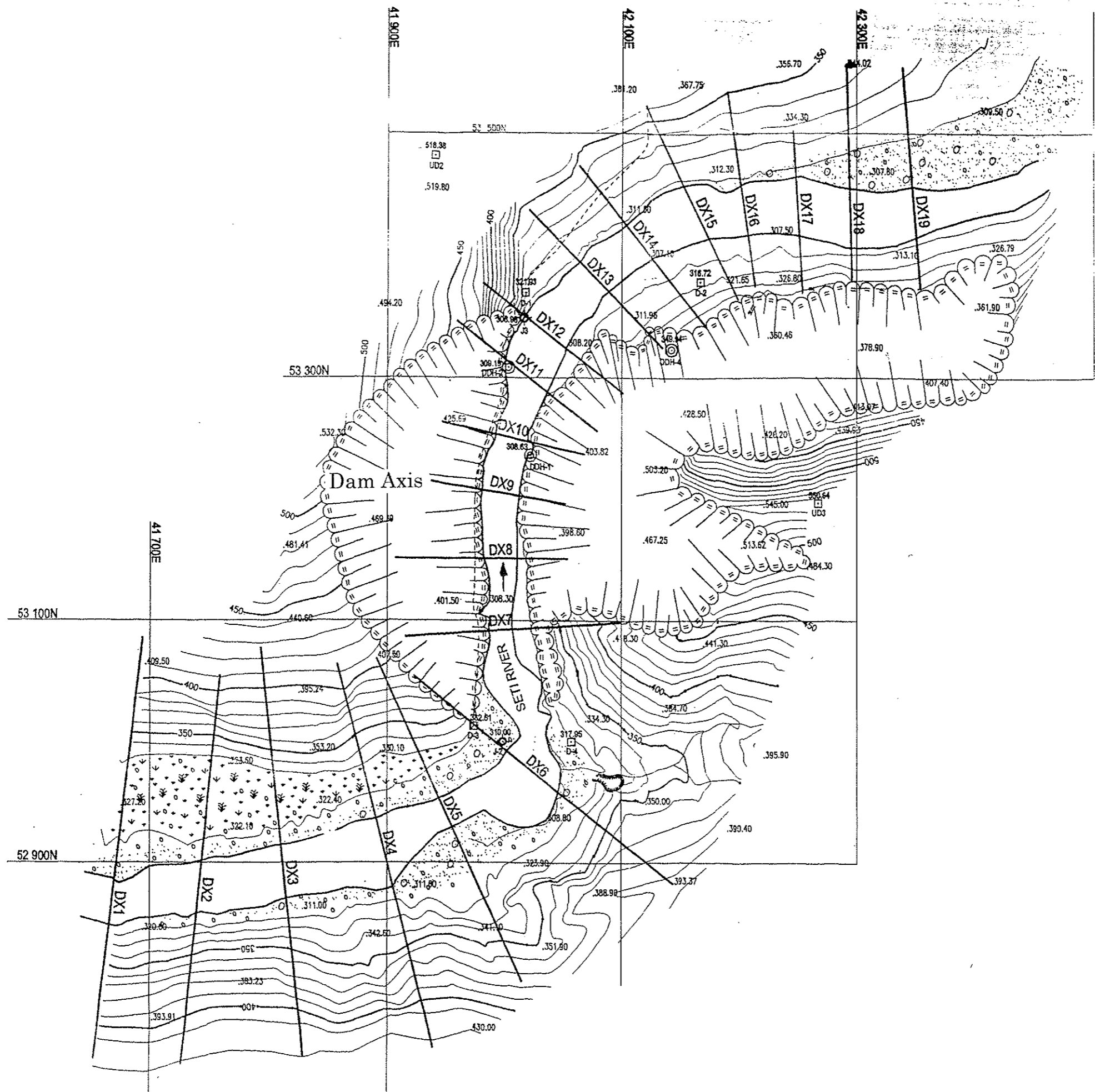
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Upper Seti Hydroelectric Project



TITLE
**CROSS SECTION PLAN
 RESERVOIR**

Figure No.
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Legend	
TRACI	
ROAD	
WATER	
ROCKETS WITH SAND	
CLIFF	
CAVE	
LANDSLIDE	
CULTIVATED LIMIT	
TREE	
SPOT HEIGHT	361.90
PERMANENT TRAVERSE POINT	550.64
TRAVERSE POINT	310.00
	J-2
DRILL HOLE	349.94
	DDH-4



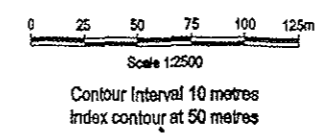
Reduced from Original Scale



NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

Upper Seti Hydroelectric Project

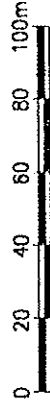
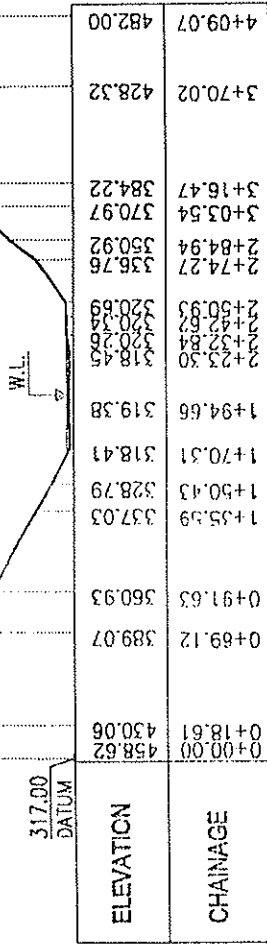


Title
CROSS SECTION PLAN OF
Dam Site

Figure No.
2.35

RIGHT BANK

LEFT BANK



Horizontal 1:2000
Vertical 1:2000

Section No.

River Cross Section
Reservoir

Rx 1

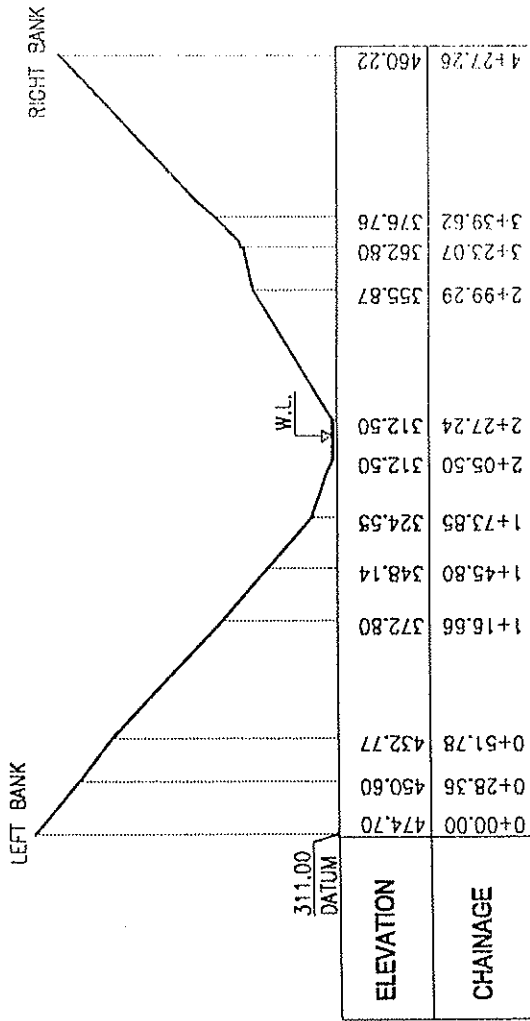
Title

Upper Seti Hydroelectric Project

Department of Studies
In Association with
Soil, Water and Concrete Laboratory

Department of Studies
In Association with
Soil, Water and Concrete Laboratory





Section No.

Rx 2

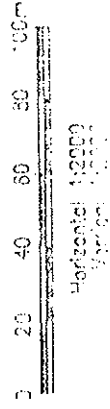
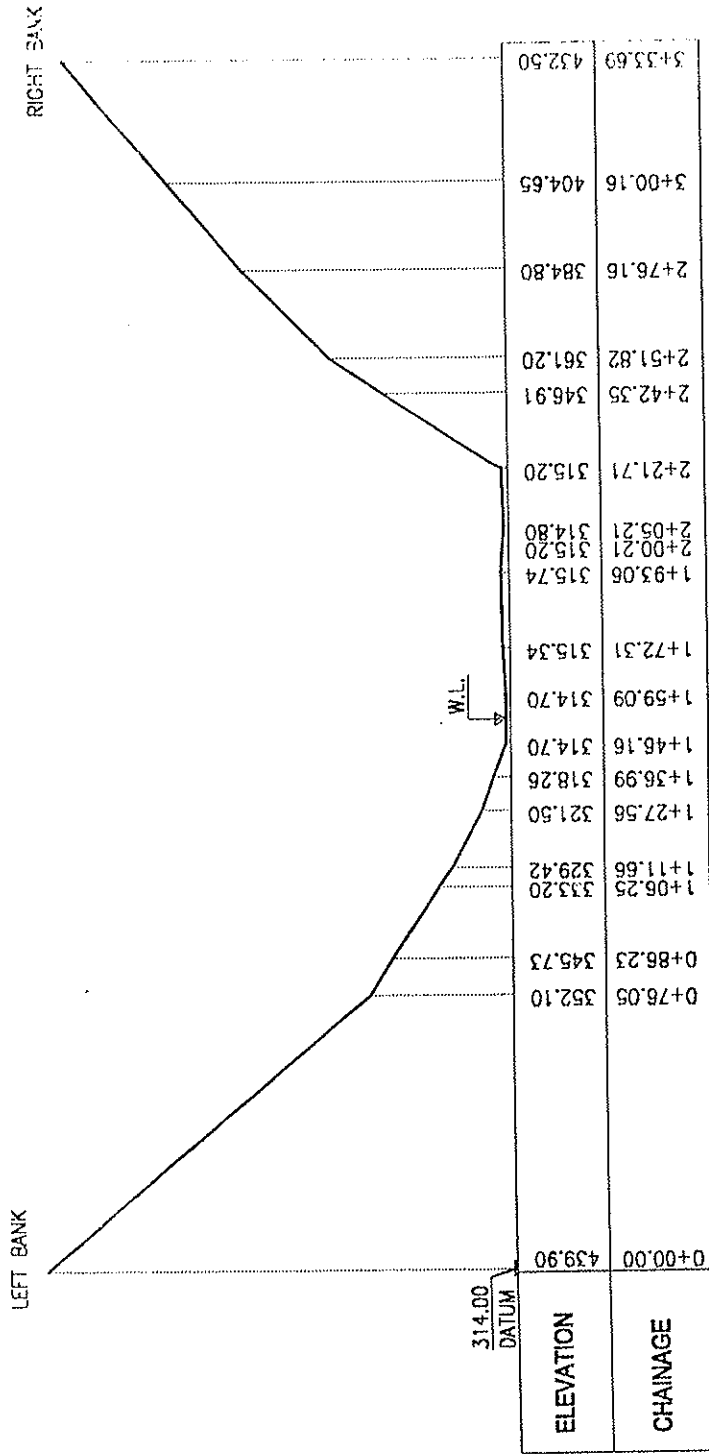
Title

River Cross Section
Reservoir

Project Preparation & Studies Division
in Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbār Marg, Kathmandu





NEPAL ELECTRICITY AUTHORITY
Durbār Marg, Kathmandu

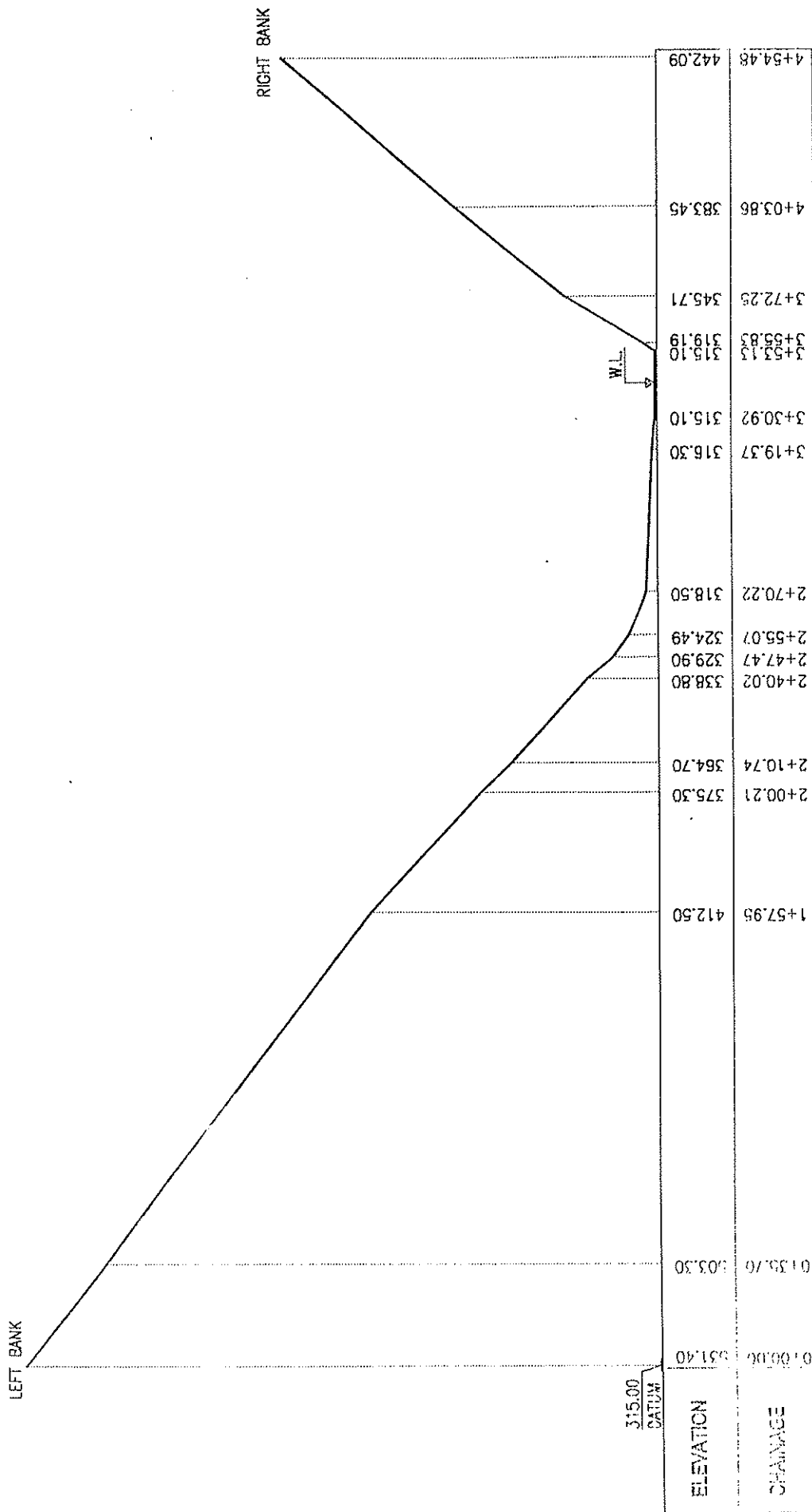
Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

Upper Seti Hydroelectric Project

Title

River Cross Section
Essential

Rx 3



Horizontal 1:2000
Vertical 1:2000

Section No

RX 4

Title

River Cross Section
Reservoir

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with

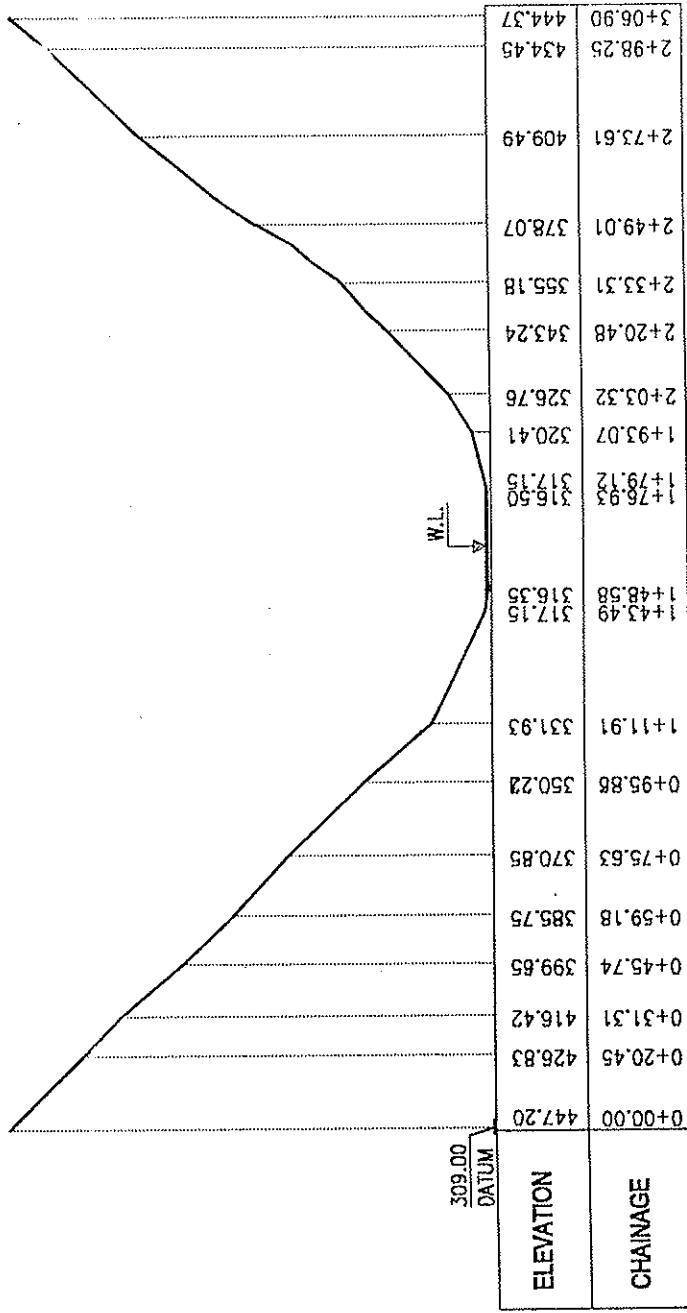
Soil, Rock and Concrete Laboratory

APL Engineering & Consultancy
Private Limited, Kathmandu



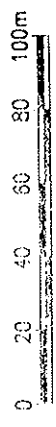
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W.L.

309.00
DATUM



Horizontal: NAD80
Vertical: NAD80

Section No.

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

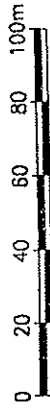
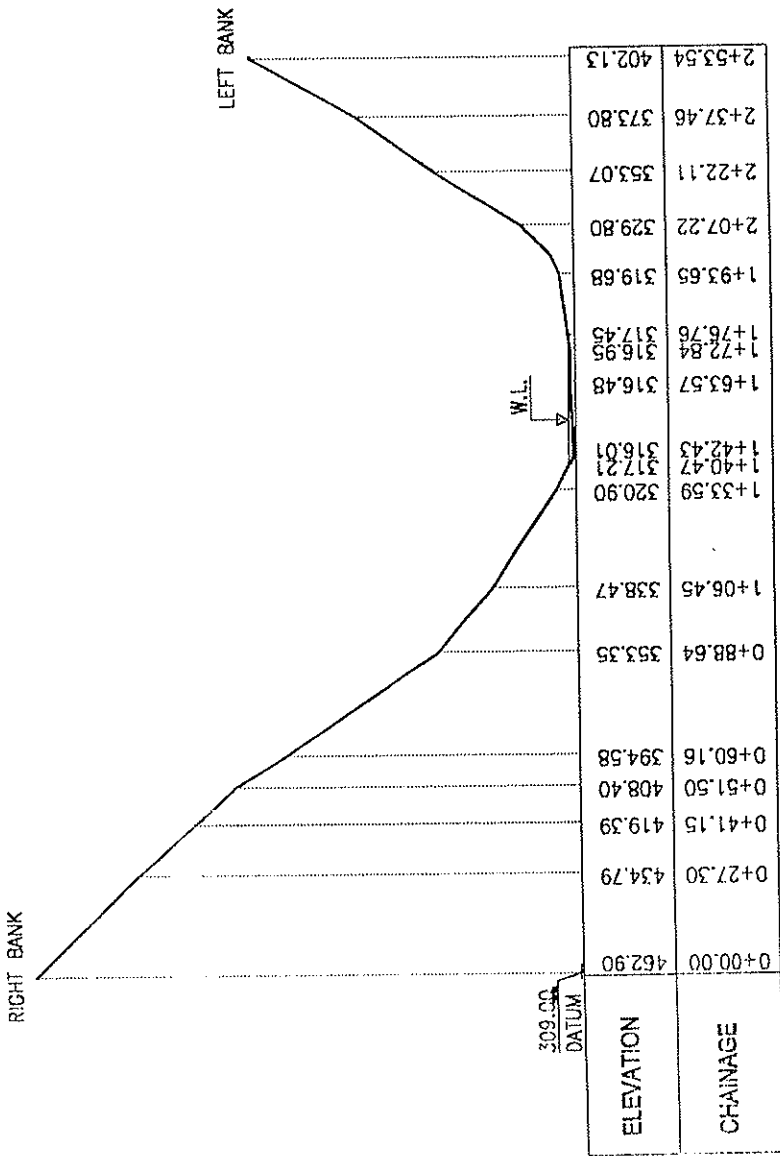
Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



RX 6



Horizontal 1:2000
Vertical 1:2000

Section No.

Rx 7

River Cross Section
Reservoir

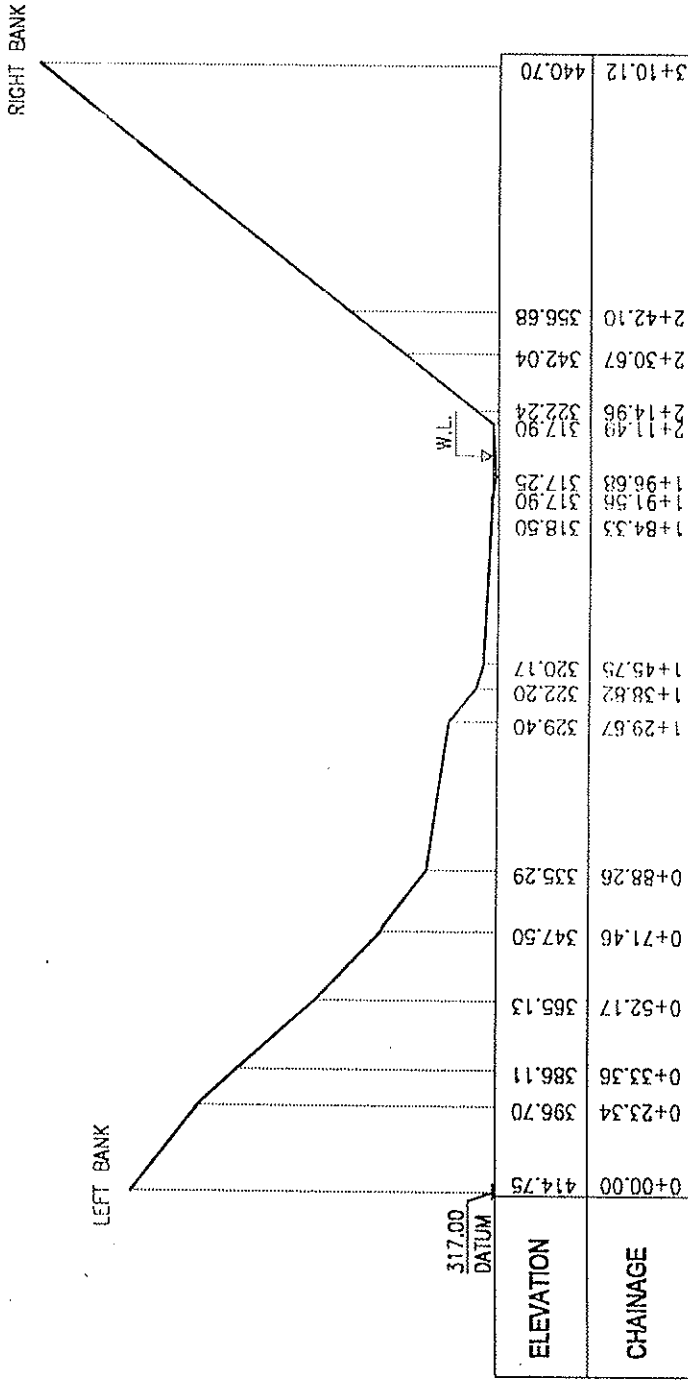
Title

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

APTA ELECTRICITY AUTHORITY
D. Kumar, Manoj, Subramandu





Section No.
Rx 8

**River Cross Section
Reservoir**

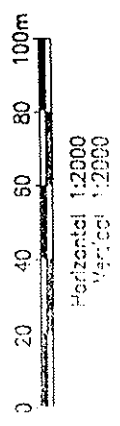
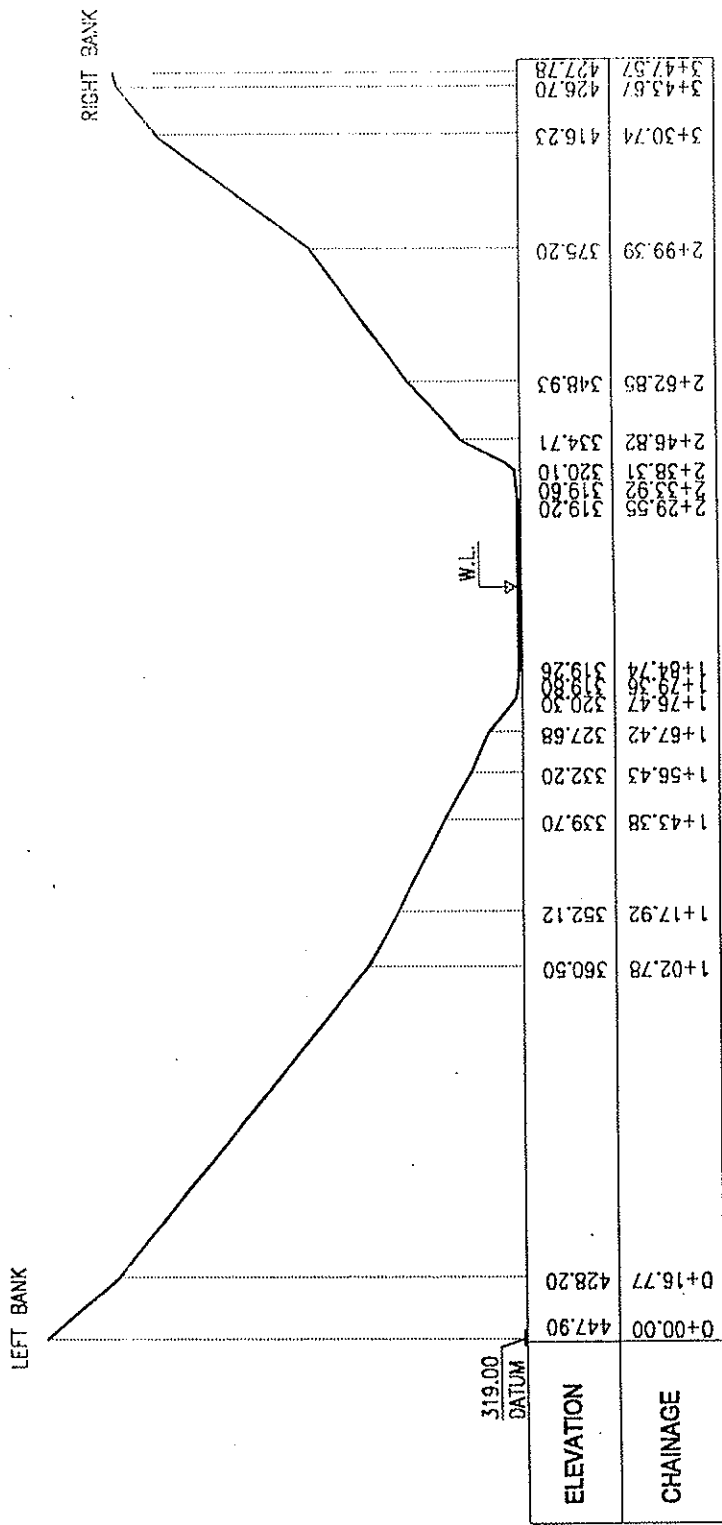
Title


Upper Seti Hydroelectric Project

Project Preparation & Design Services
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



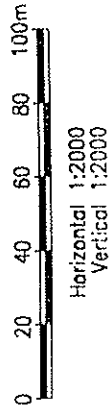
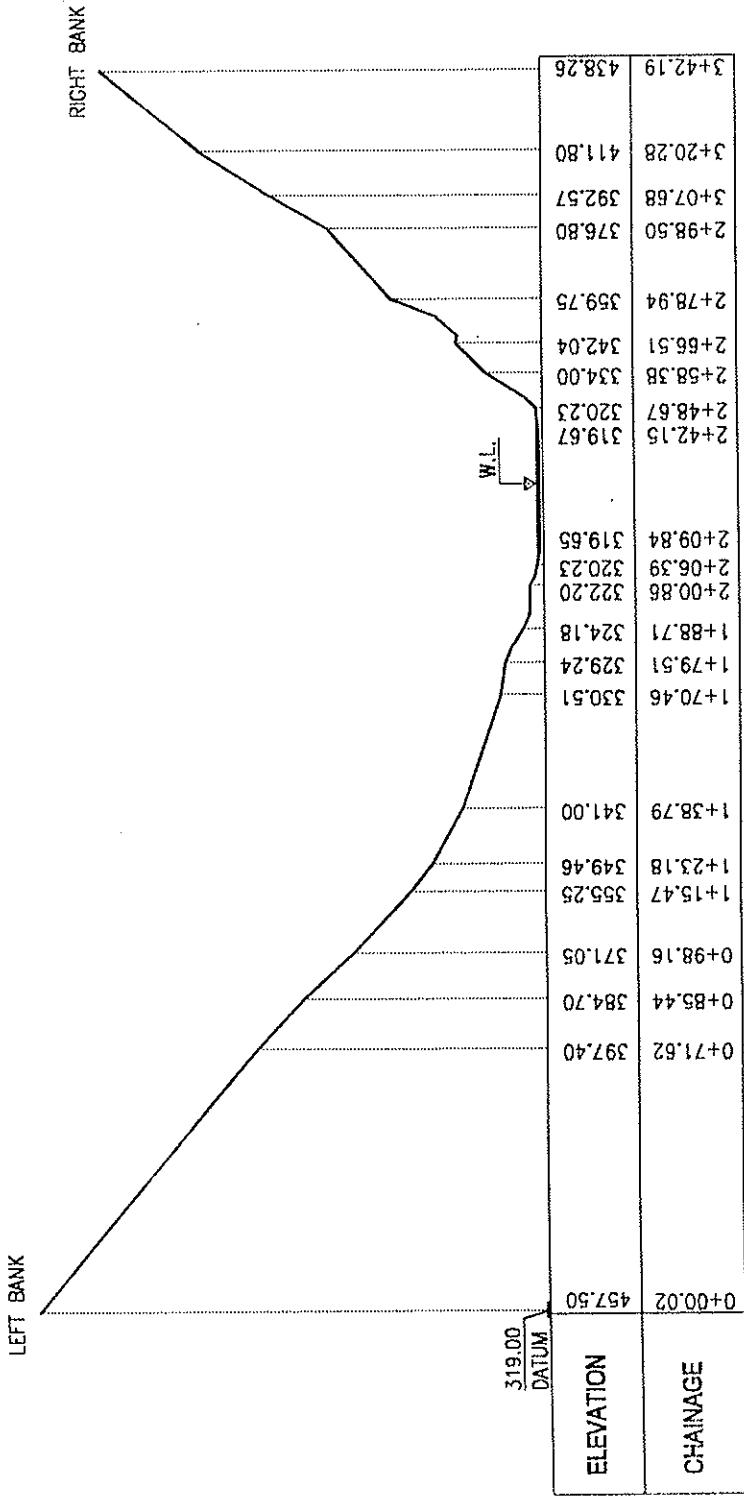




NEPAL ELECTRICITY AUTHORITY
Durbat Marg, Kathmandu

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

Section No.
RX 9



Rx 10

River Cross Section
Reservoir

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

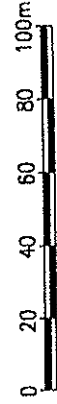
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W.L.

320.00
DATUM

ELEVATION	CHAINAGE
442.11	0+00.00
403.81	0+26.62
395.90	0+36.94
384.30	0+49.25
374.60	0+57.83
364.26	0+68.59
355.80	0+77.38
348.50	0+84.28
340.90	0+96.96
334.76	1+07.80
329.52	1+24.19
323.20	1+36.34
321.00	1+43.25
320.29	1+51.20
320.41	1+84.67
321.70	1+87.70
323.90	1+97.02
339.00	2+12.08
365.30	2+27.48
385.40	2+46.39
423.50	2+80.74
437.50	2+88.75
473.34	3+22.77



Horizontal 1:2000
Vertical 1:2000



NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

Project: Upper Seti Hydroelectric Project
in Association with
Soil, Rock and Concrete Laboratory

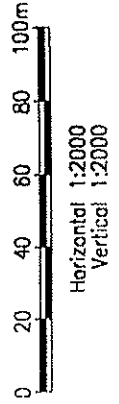
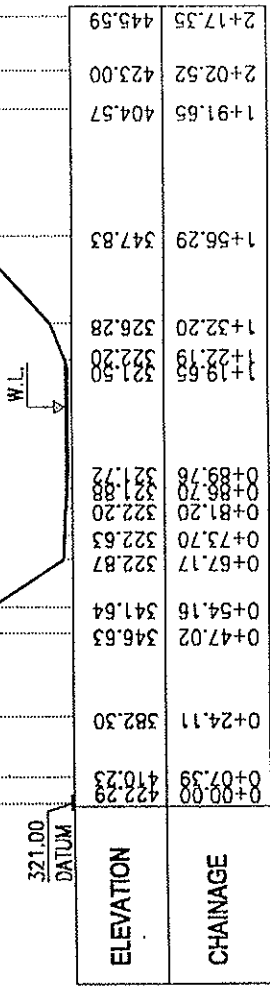
Upper Seti Hydroelectric Project

River Cross Section
Reservoir

Section No.
Rx 11

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LEFT BANK



Section No.
RX 12

**River Cross Section
Reservoir**

Upper Soil Hydrostatic Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbhar Marg, Kathmandu





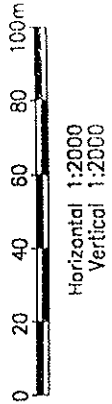
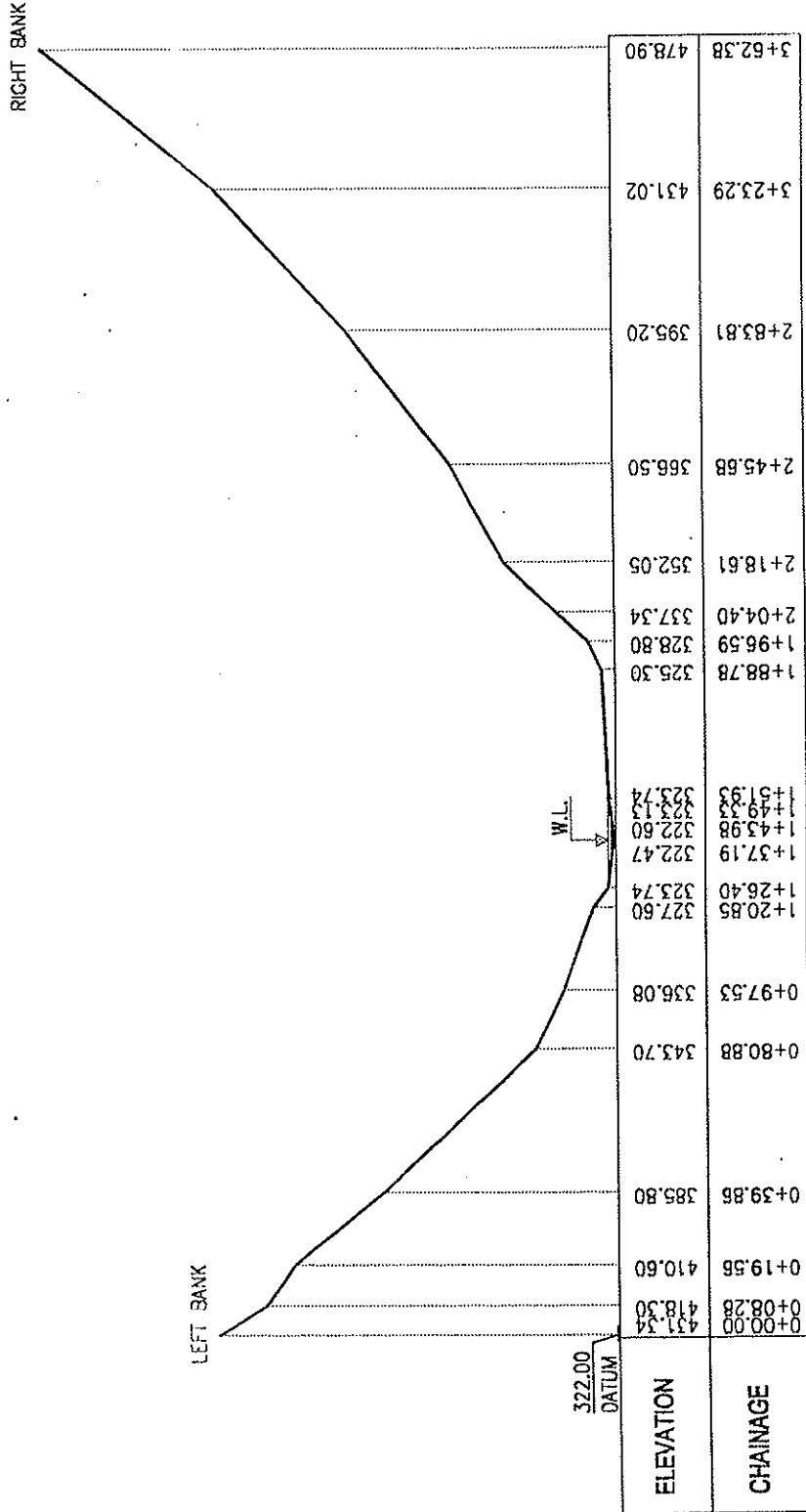
NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

Upper Seti Hydroelectric Project

River Cross Section
Reservoir

PX 13



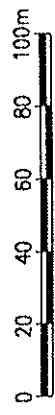
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W.L.

324.00
DATUM

ELEVATION	CHAINAGE
460.15	0+00.00
428.90	0+32.32
420.00	0+40.37
403.00	0+57.92
393.37	0+67.03
373.30	0+86.00
359.00	0+97.58
347.00	1+06.60
338.60	1+20.80
325.60	1+33.14
324.00	1+40.48
324.00	1+40.48
324.00	1+63.60
324.00	1+63.60
324.00	1+68.98
325.80	1+72.98
328.99	2+09.46
338.60	2+17.69
381.20	2+47.46
543.29	3+88.46



Horizontal 1:2000
Vertical 1:2000

Section No.
RX 14

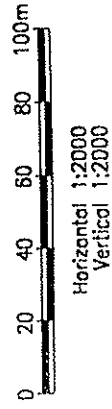
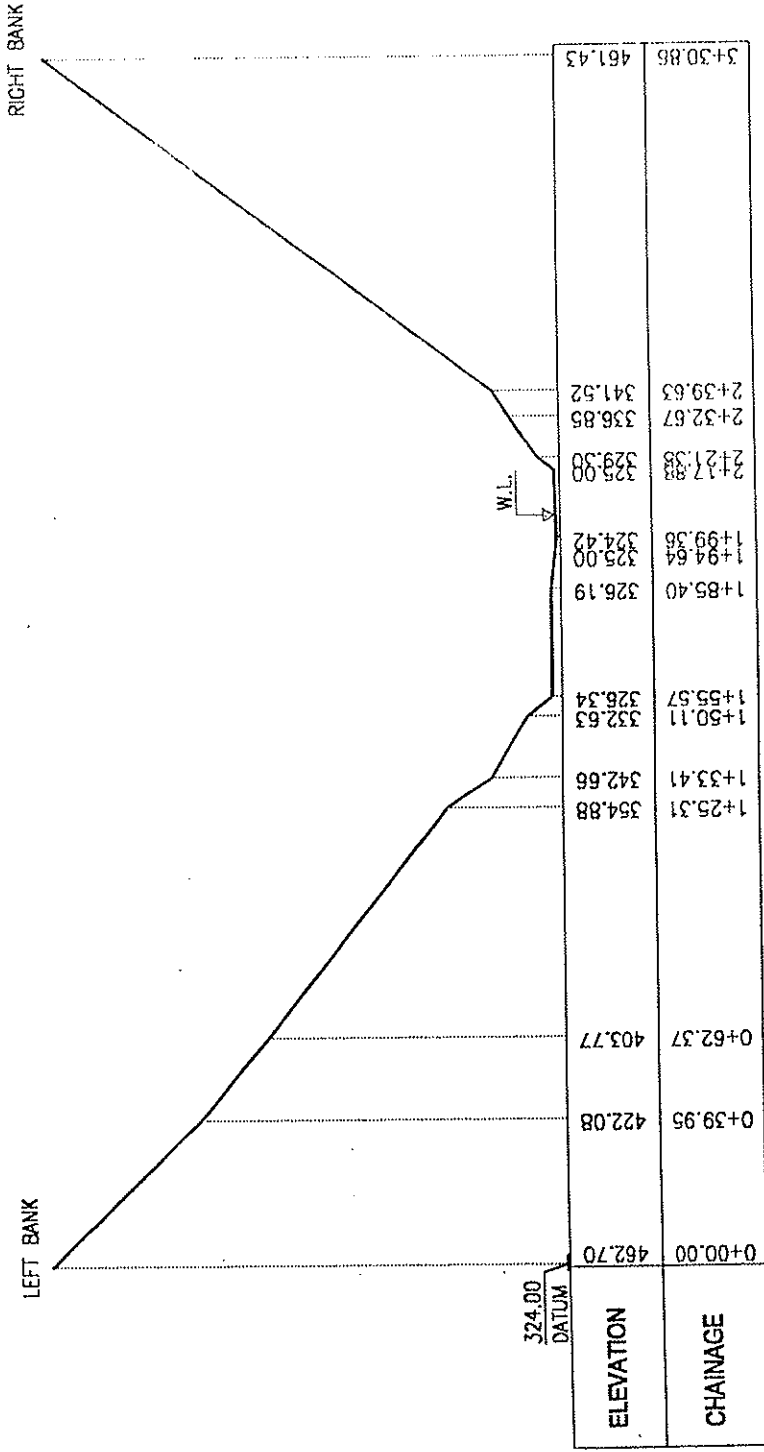
Title
**River Cross Section
Reservoir**

Upper Seti Hydroelectric Project

Prepared by: **Soil, Rock and Concrete Laboratory**
in Association with
Geotechnical & Studies Department

NEPAL ELECTRICITY AUTHORITY
Durbār Marg, Kathmandu





Section No. **RX 15**

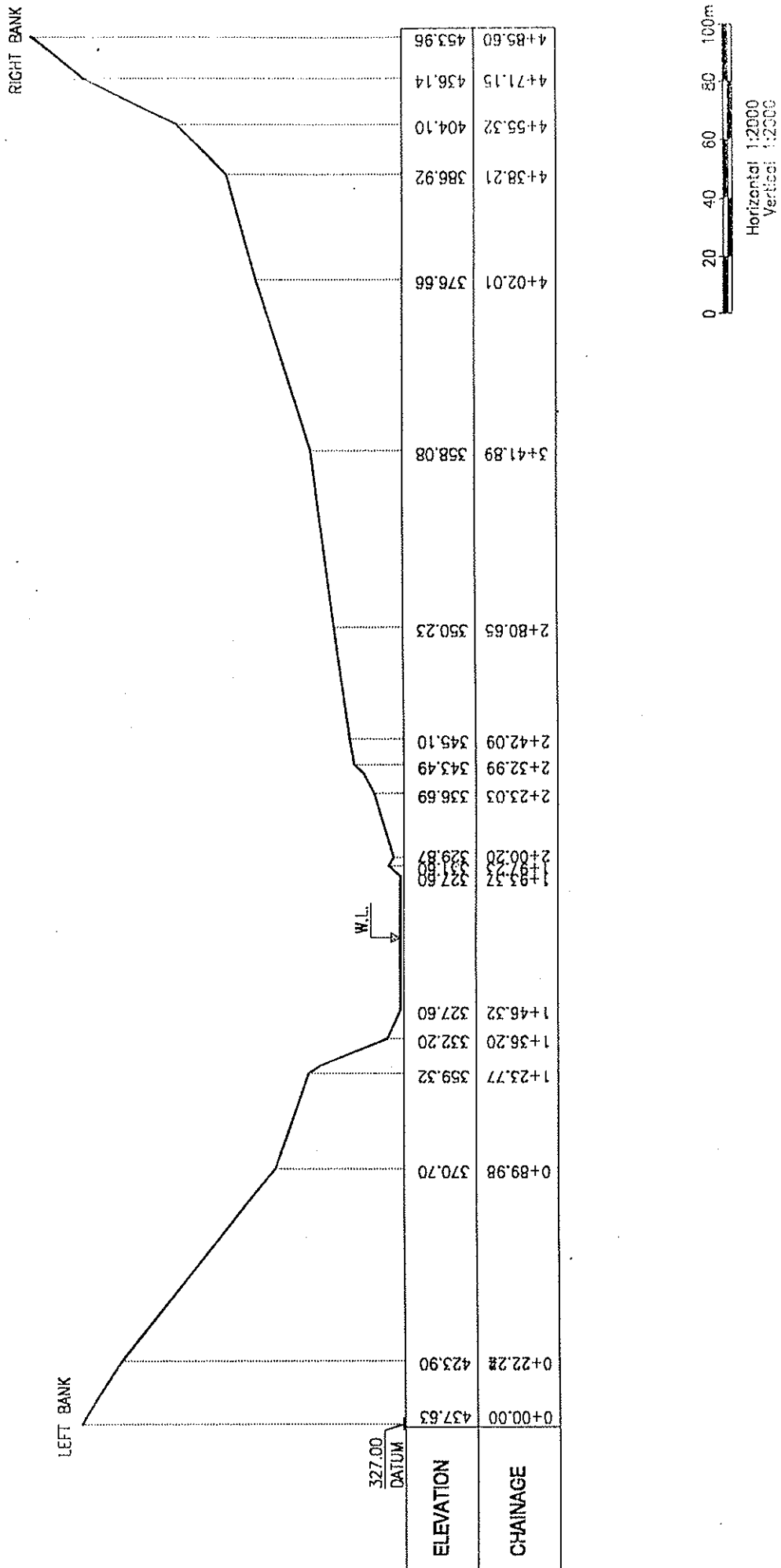
River Cross Section Reservoir

Upper Set Hydroelectric Project

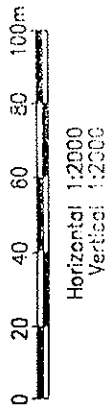
Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory


NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

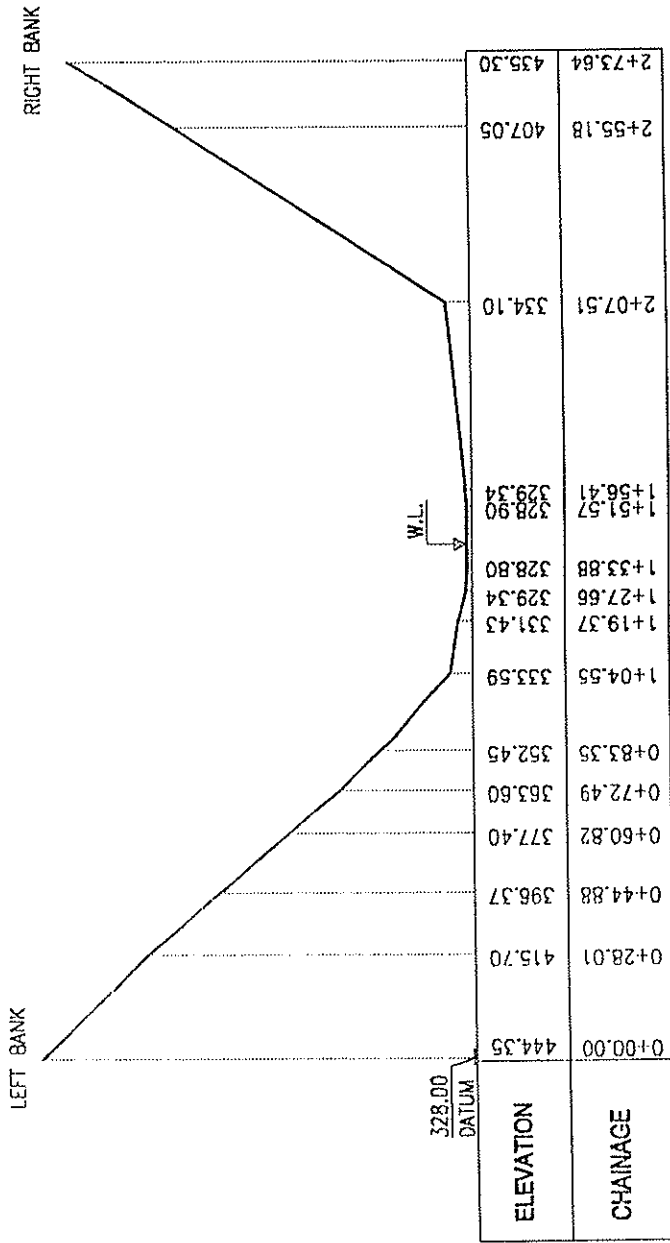




ELEVATION	CHAINAGE
0+00.00	437.63
0+22.28	423.90
0+89.98	370.70
1+23.77	359.32
1+36.20	332.20
1+46.32	327.60
1+83.32	327.60
1+87.32	327.60
2+00.20	329.87
2+23.03	336.69
2+32.99	343.49
2+42.09	345.10
2+80.65	350.23
3+41.89	358.08
4+02.01	376.66
4+38.21	386.92
4+55.32	404.10
4+71.15	436.14
4+85.60	453.96



 NEPAL ELECTRICITY AUTHORITY Durbār Marg, Kathmandu	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	Title Upper Seti Hydroelectric Project	River Cross Section Reservoir R x 16
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Section No. Rx 17

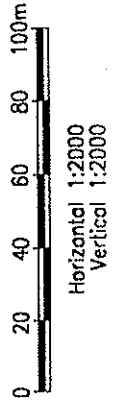
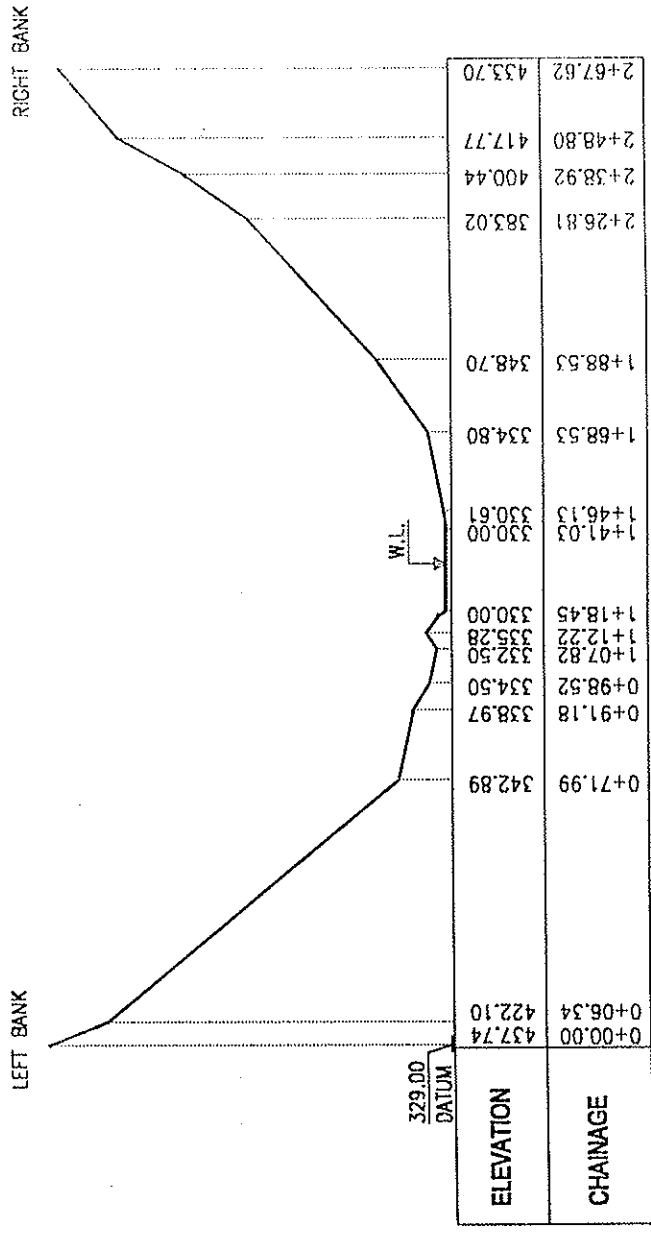
River Cross Section Reservoir


Title Upper Seti Hydroelectric Project

Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbhar Maiti, Kathmandu





Section No. Rx 18	Title River Cross Section Reservoir	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	 NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu
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NEPAL ELECTRICITY AUTHORITY
Durbār Marg, Kathmandu

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

Upper Seti Hydroelectric Project

Title

River Cross Section
Reservoir

Page 19

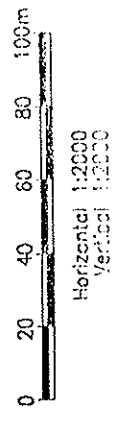
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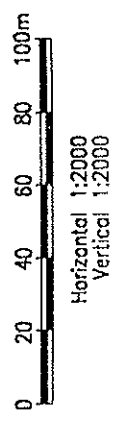
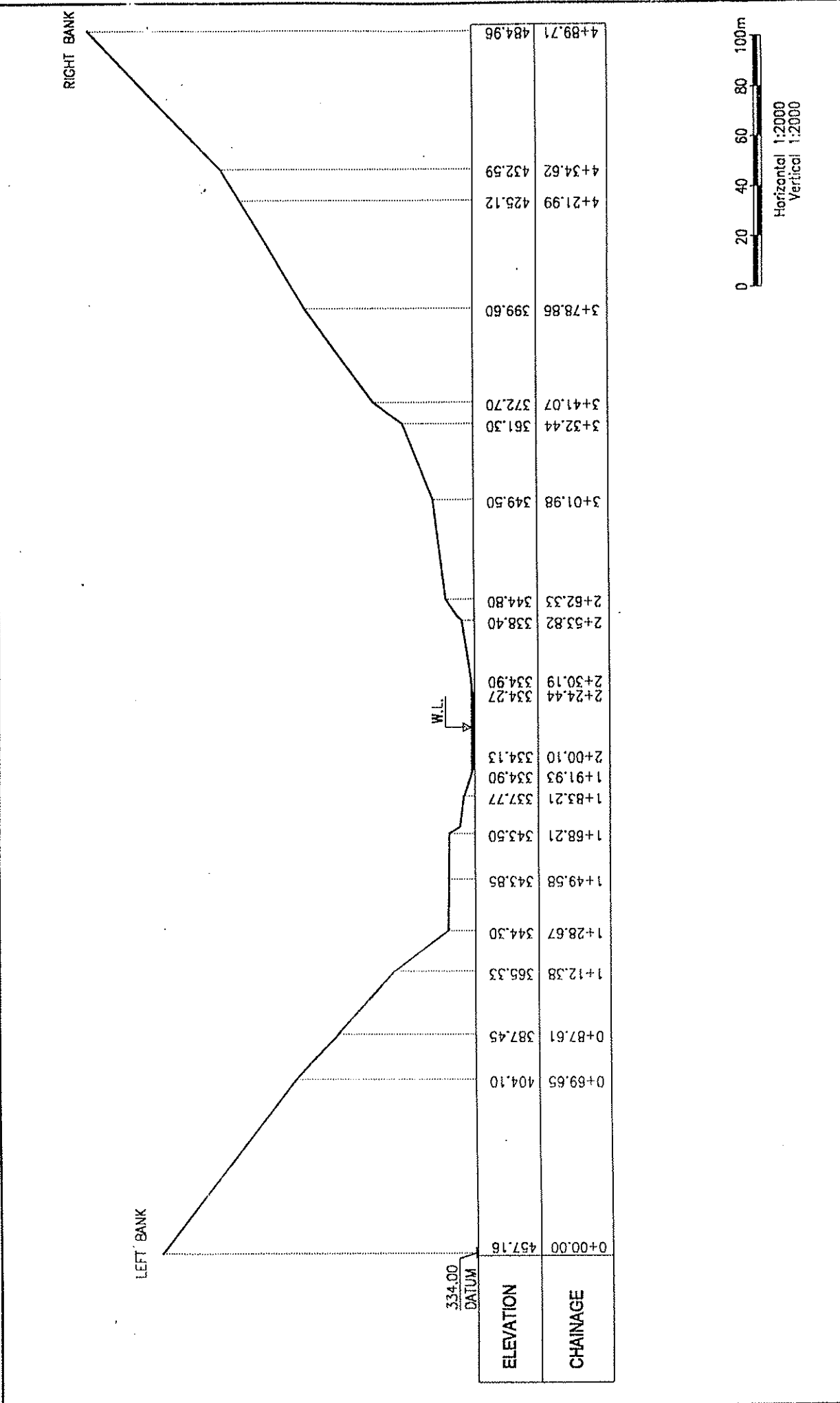
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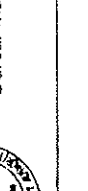
W.L.

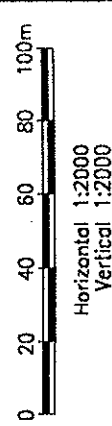
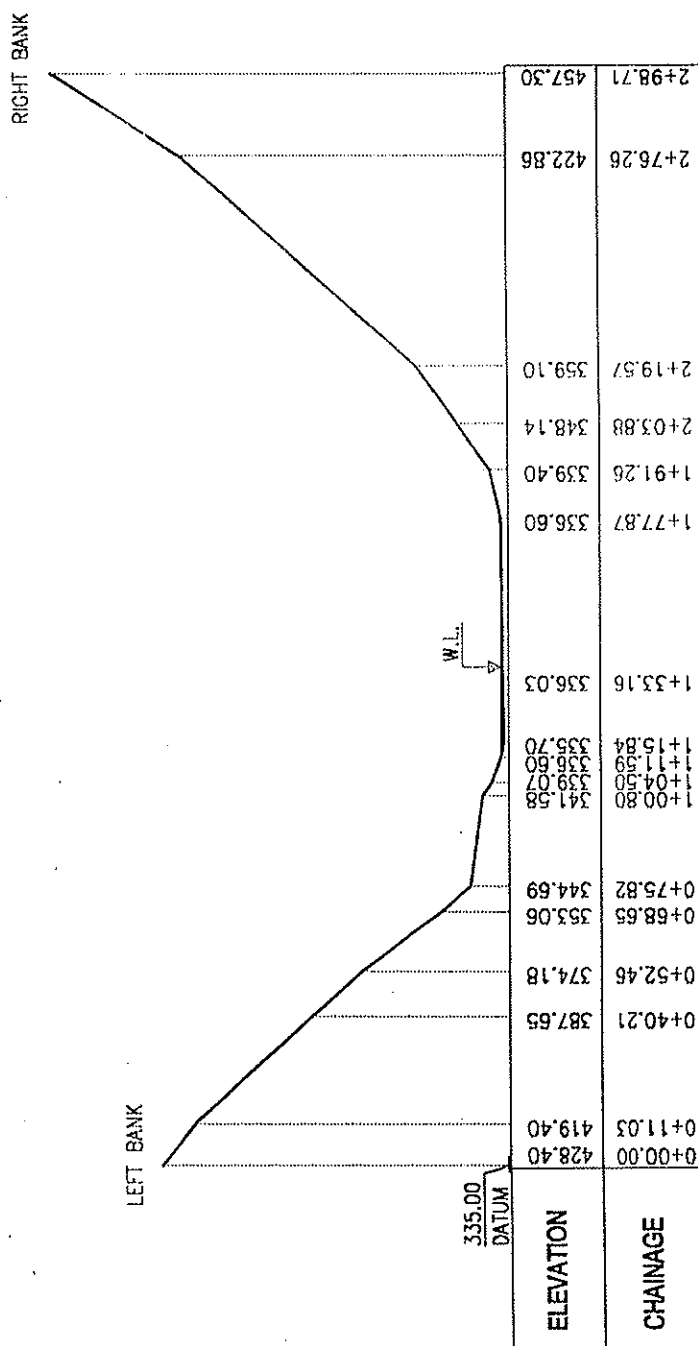
331.00
DATUM


ELEVATION	CHAINAGE
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396.75	3+13.17
357.41	2+91.04
339.88	2+66.97
338.88	2+64.72
334.08	2+58.18
332.57	2+51.06
331.80	2+46.47
332.07	2+24.73
332.57	2+07.20
332.70	2+02.48
333.74	1+97.35
337.40	1+89.61
341.01	1+82.70
344.80	1+65.20
381.60	0+78.12
421.60	0+36.26
457.75	0+00.00





Section No.	Rx 20
Title	River Cross Section Reservoir
Project Preparation & Studies Department in Association with Soil, Rock and Concrete Laboratory	Upper Seti Hydroelectric Project
NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu	





NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

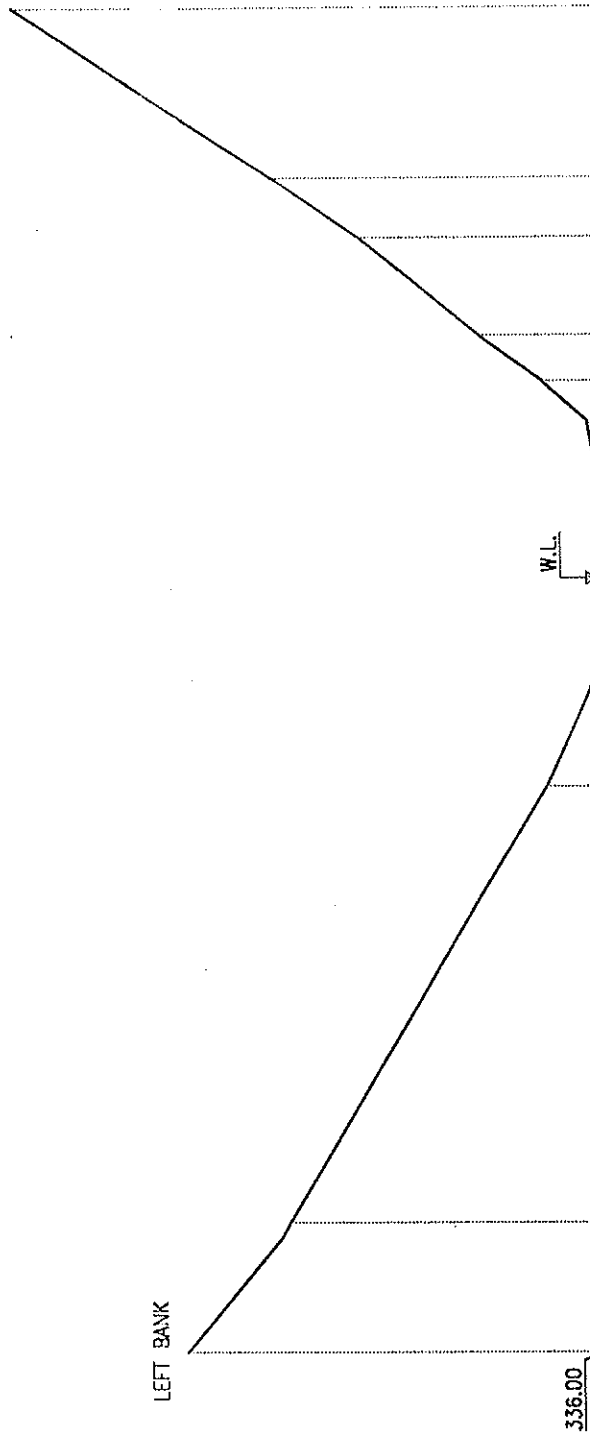
Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

Section No.
Rx 21

Title
River Cross Section Reservoir

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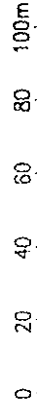
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W.L.

336.00
DATUM

ELEVATION	CHAINAGE
450.30	0+00.00
421.99	0+35.64
351.44	1+56.07
339.80	1+82.54
337.34	1+90.94
336.29	2+00.30
336.75	2+40.38
337.34	2+55.76
339.84	2+66.52
369.00	2+79.62
401.50	3+06.79
425.20	3+23.24
496.11	3+69.96



Horizontal 1:2000
Vertical 1:2500

Section No.

RX 22

River Cross Section
Reberair

Upper Seti Hydroelectric Project

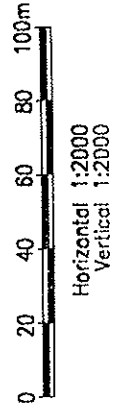
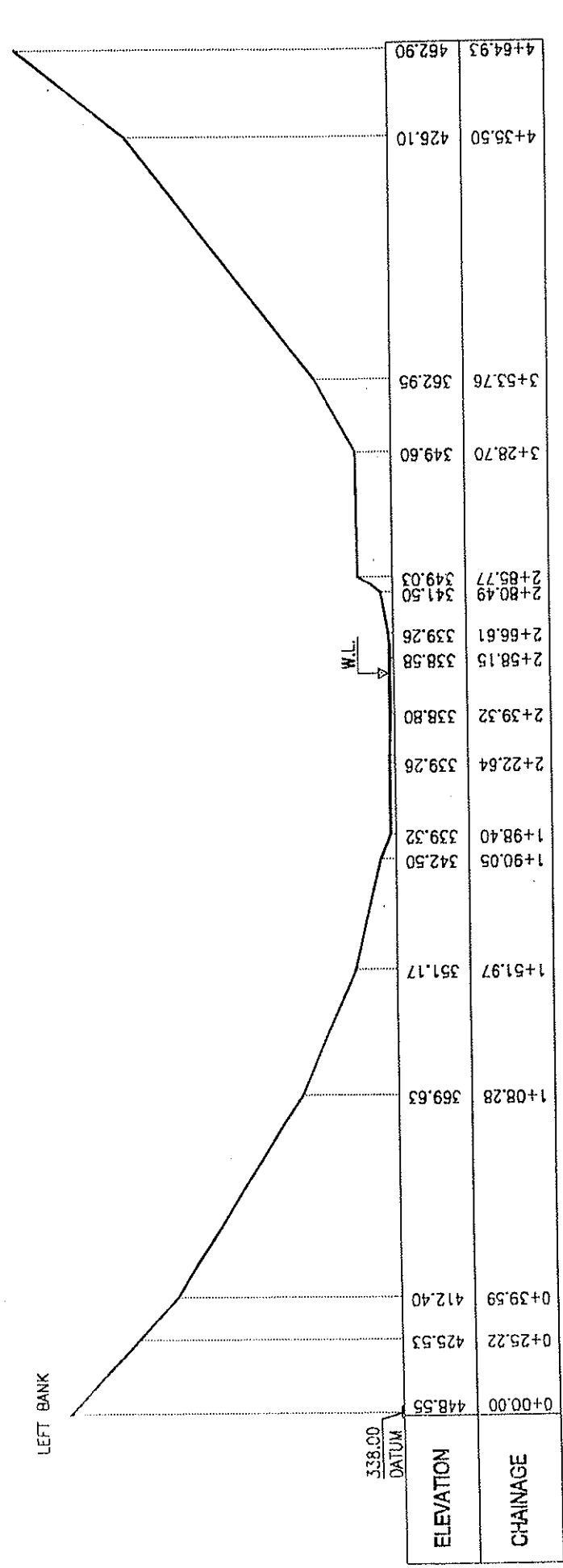
Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



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Section No. **Rx 23**

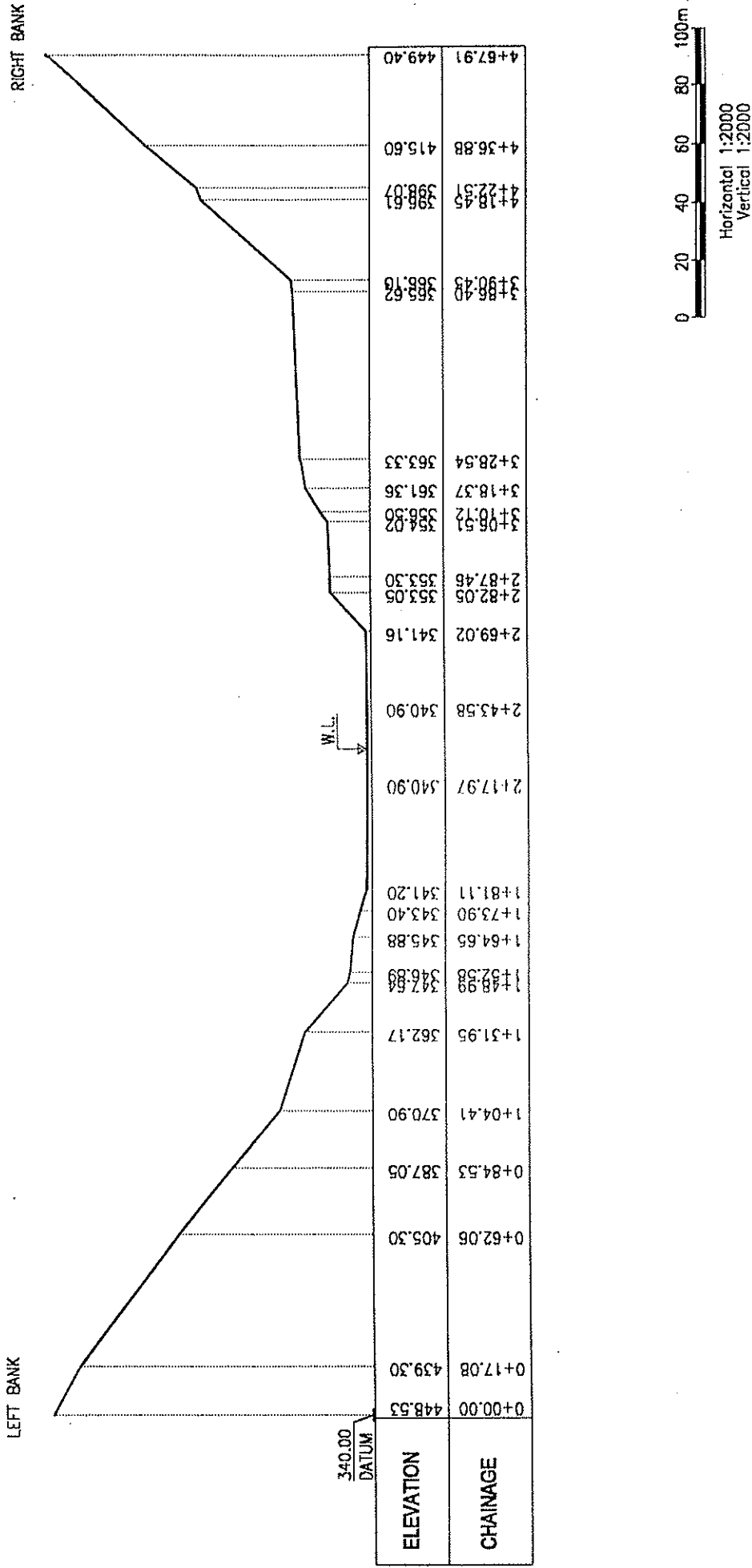
River Cross Section
Reservoir

Title
Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Darbar Marg, Kathmandu





Section No.
Rx 24

**River Cross Section
Reservoir**

Title
Upper Seti Hydroelectric Project

Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu





NEPAL ELECTRICITY AUTHORITY
Durbat Marg, Kathmandu

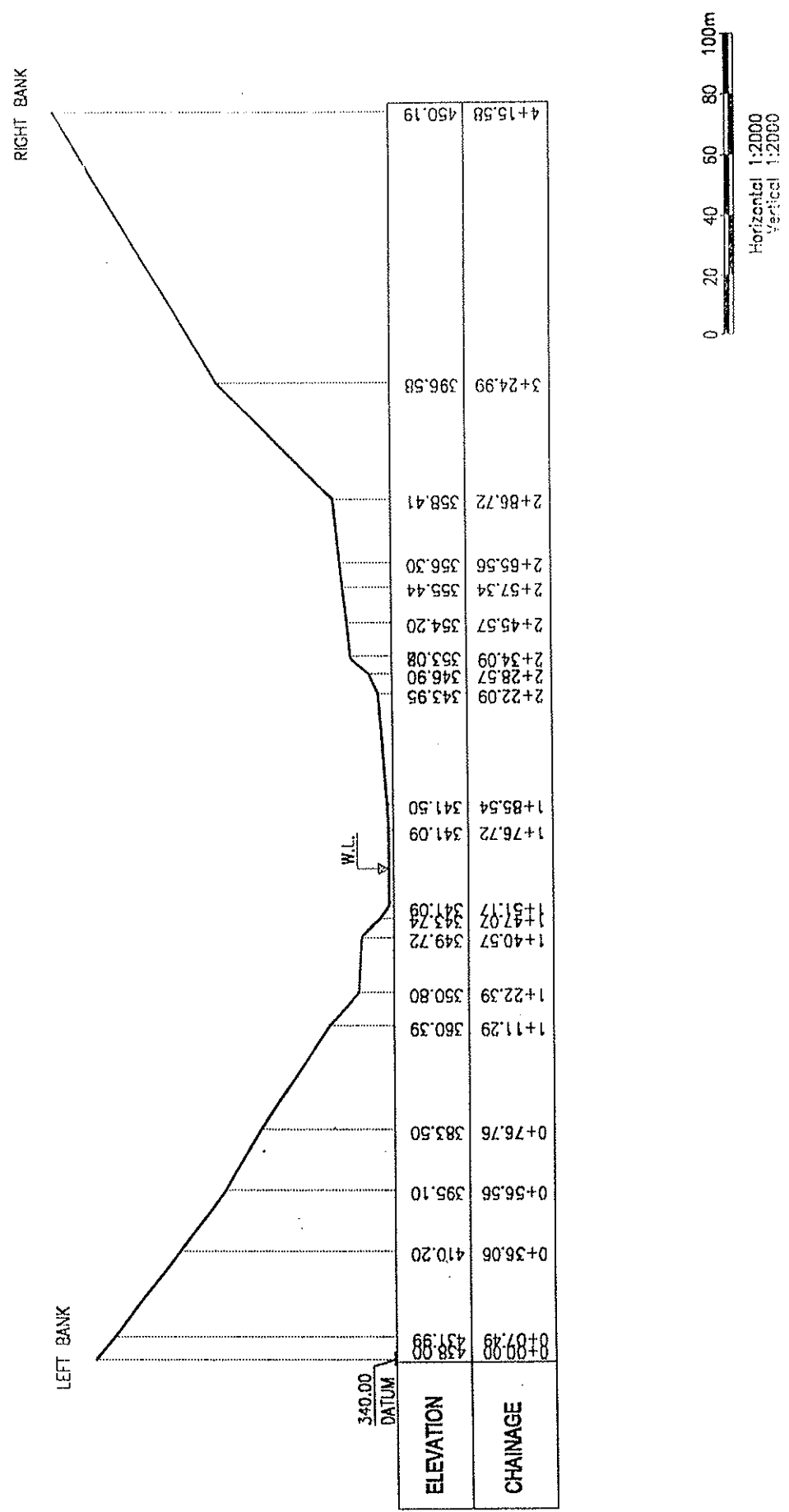
Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

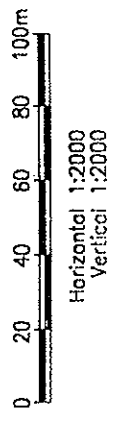
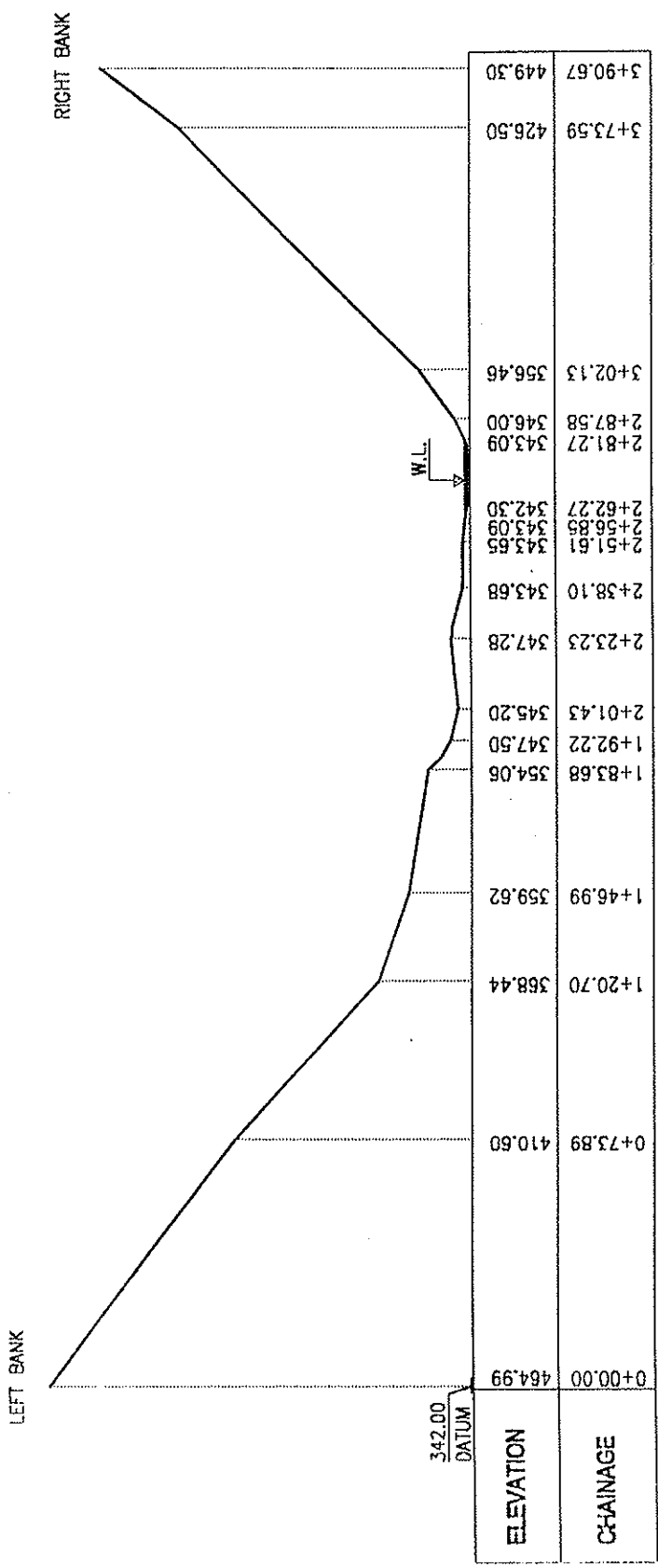
Upper Seti Hydroelectric Project

river Cross Section
Reservoir

Section No.

Rx 25






Section No. **Rx 26**

Title **River Cross Section Reservoir**

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbas Marg, Kathmandu





NEPAL ELECTRICITY AUTHORITY
Durbār Marg, Kathmandu

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

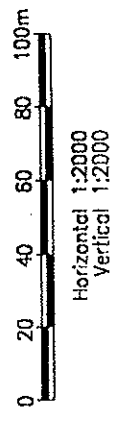
Upper Seti Hydroelectric Project

River Cross Section
Reservoir

Section No.

Rx 27

Title



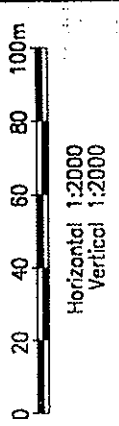
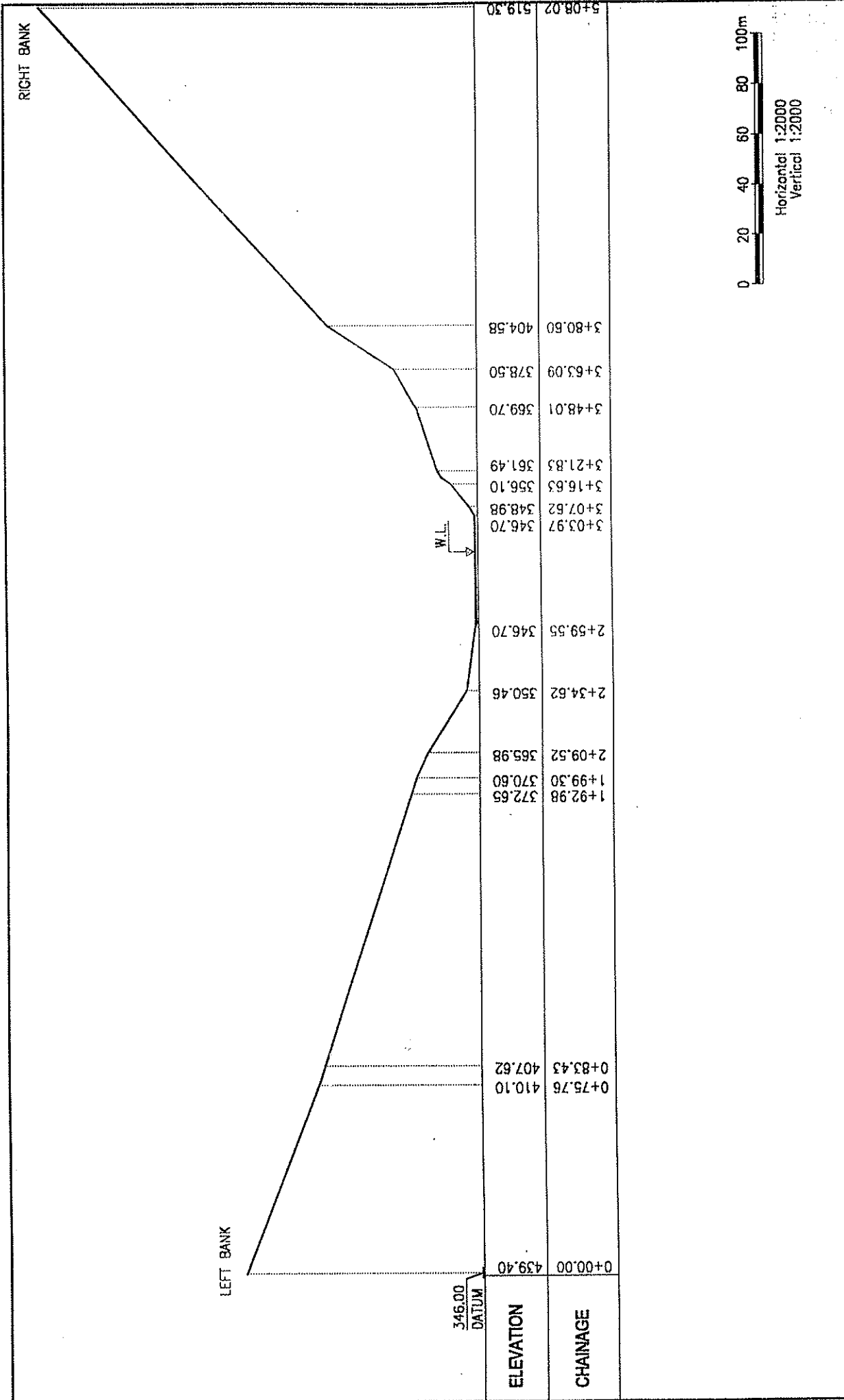
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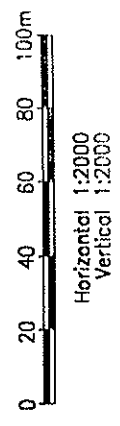
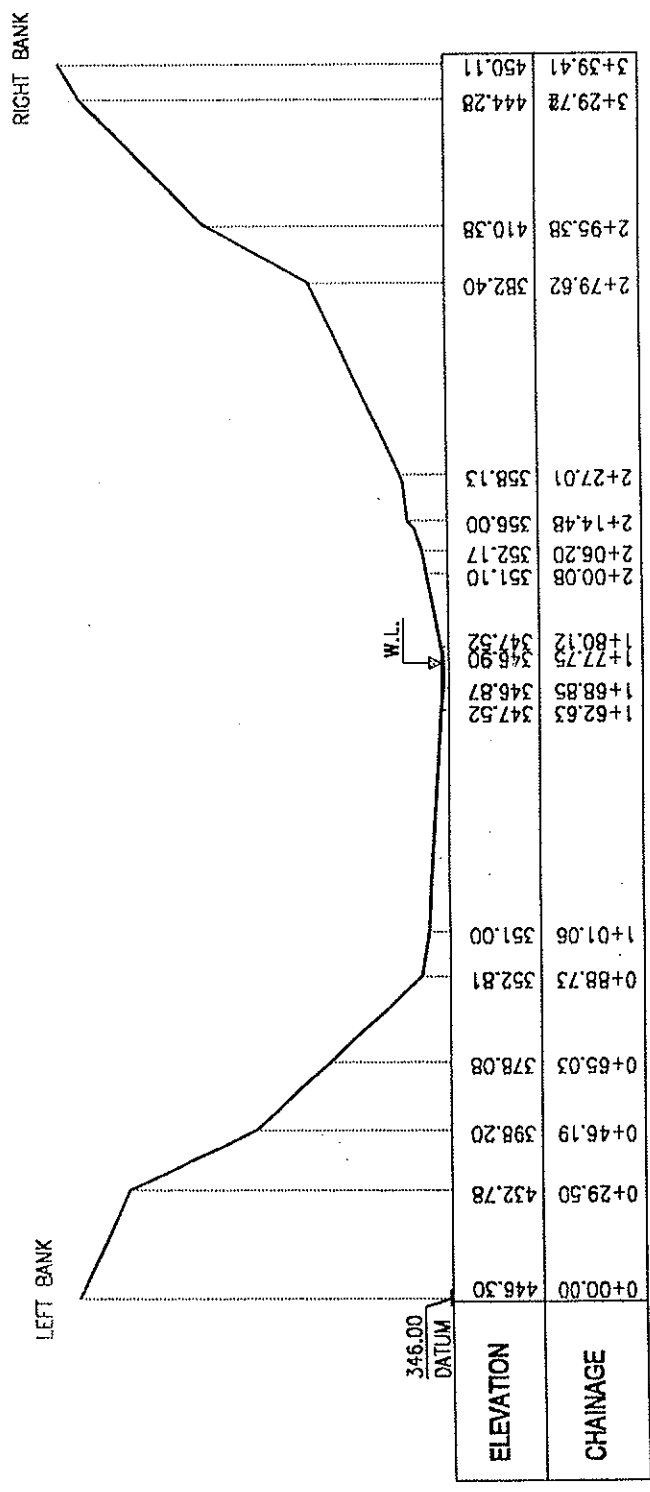
W.L.


344.00
DATUM

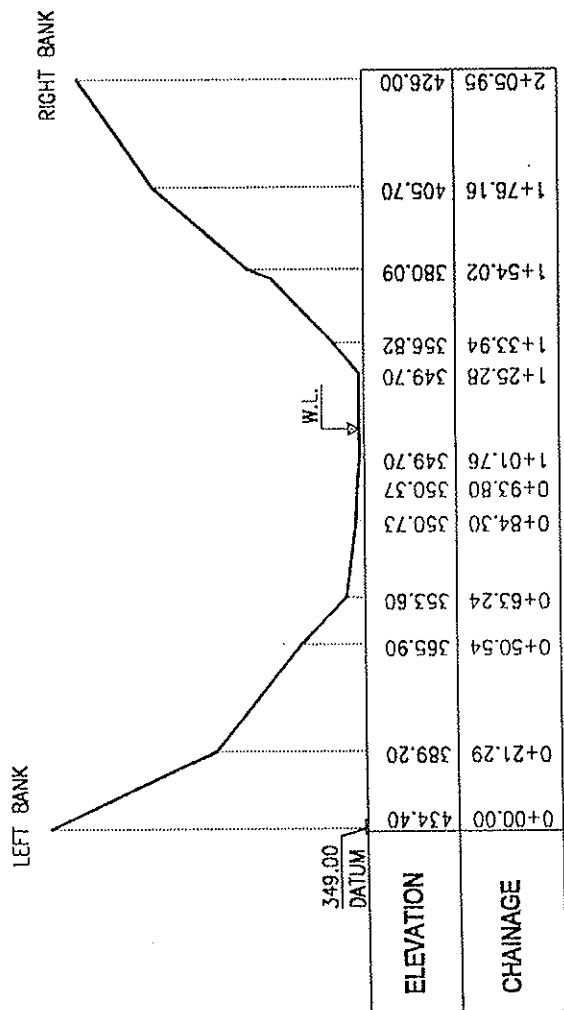
ELEVATION	CHAINAGE
444.20	0+00.00
362.11	1+62.81
346.27	1+70.92
345.06	1+76.90
349.68	2+02.91
346.53	2+30.79
346.11	2+65.81
372.99	2+87.77
486.10	3+93.53



 NEPAL ELECTRICITY AUTHORITY Durbat Marg, Kathmandu	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	Upper Seti Hydroelectric Project	River Cross Section Reservoir	Section No. Rx 28
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 NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	Upper Seti Hydroelectric Project	Title River Cross Section Reservoir Section No. Rx 29
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Section No.
Rx 30

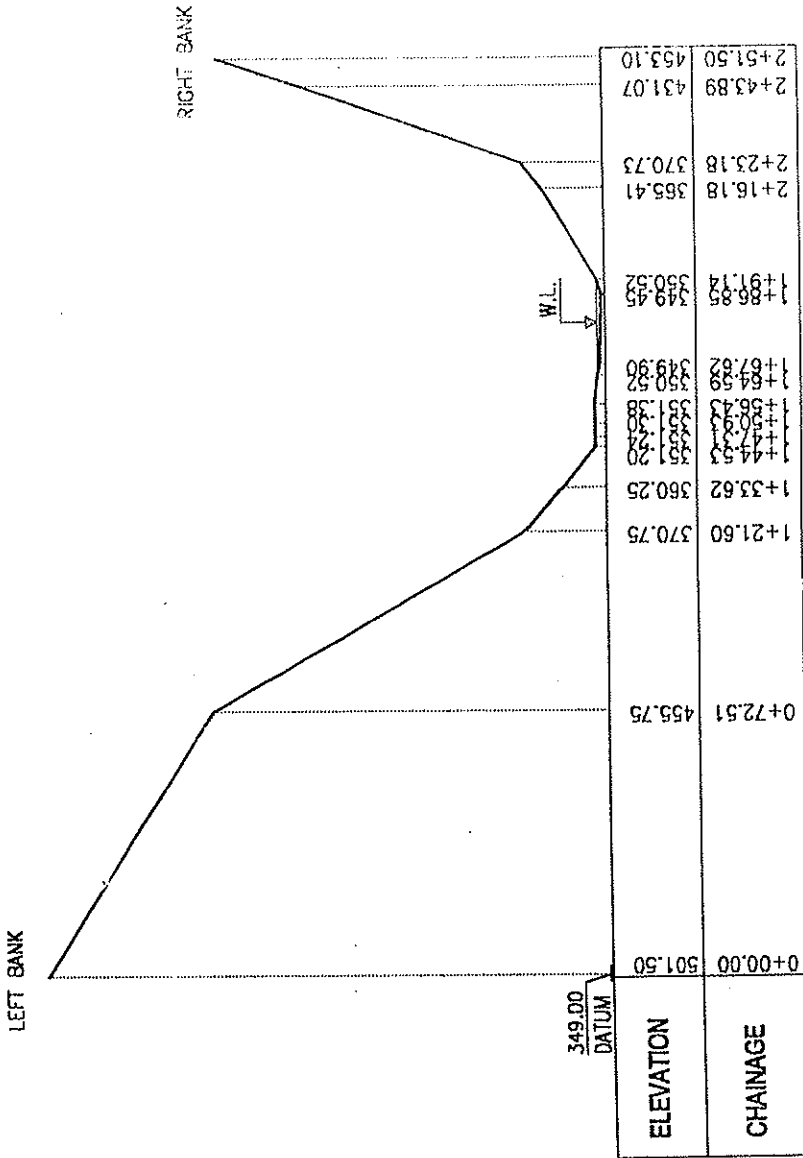
**River Cross Section
Reservoir**

Title
Upper Seti Hydroelectric Project

Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbat Marg, Kathmandu





Section No. **Rx 31**

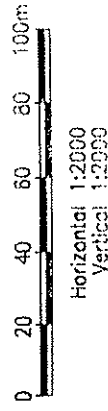
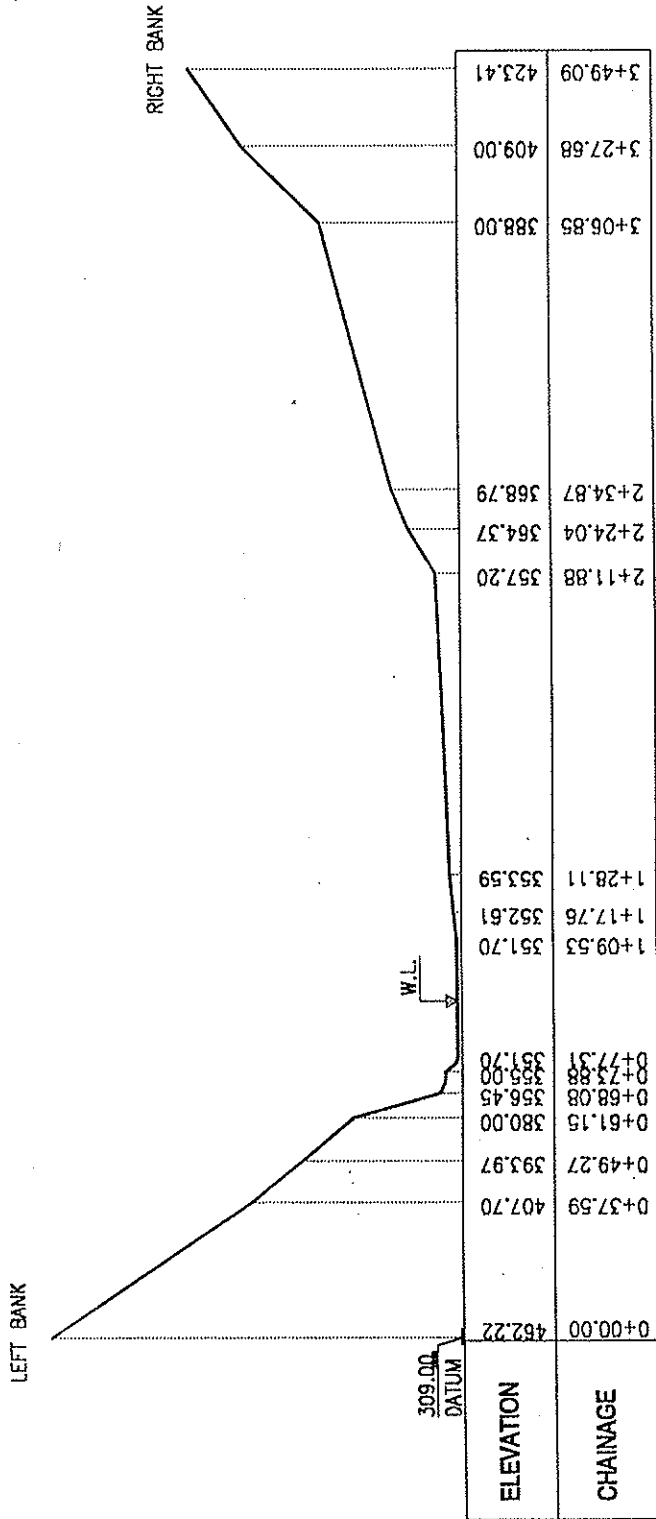
River Cross Section Reservoir

Title **Upper Seti Hydroelectric Project**

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu





Section No. **PK 32**

Title **River Cross Section Reservoir**

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



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W.L.

354.00
DATUM

ELEVATION	CHAINAGE
0+00.00	413.20
0+19.24	398.01
0+55.14	371.90
0+62.86	366.32
0+76.23	356.80
1+10.35	356.46
1+32.54	354.90
1+45.44	354.30
1+59.50	354.90
1+66.40	358.70
1+76.13	367.87
1+82.75	376.50
1+95.73	407.23
2+02.90	424.20
2+19.61	442.50



Horizontal 1:2000
Vertical 1:2000

Section No.

Rx 33

Title

River Cross Section
Reservoir

Upper Seti Hydroelectric Project

Project Preparation & Studies Department

In Association with

Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY

Durbar Marg, Kathmandu



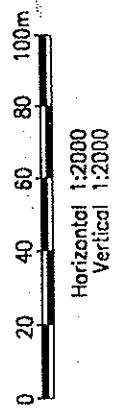
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W.L.

356.00
DATUM

ELEVATION	CHAINAGE
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418.51	0+14.38
397.40	0+25.09
386.37	0+38.71
369.40	1+25.83
363.50	1+34.53
361.70	1+61.83
361.31	1+79.81
359.78	1+84.62
356.60	2+26.54
356.10	2+36.84
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485.50	3+39.60



Section No.

Rx 34

Title

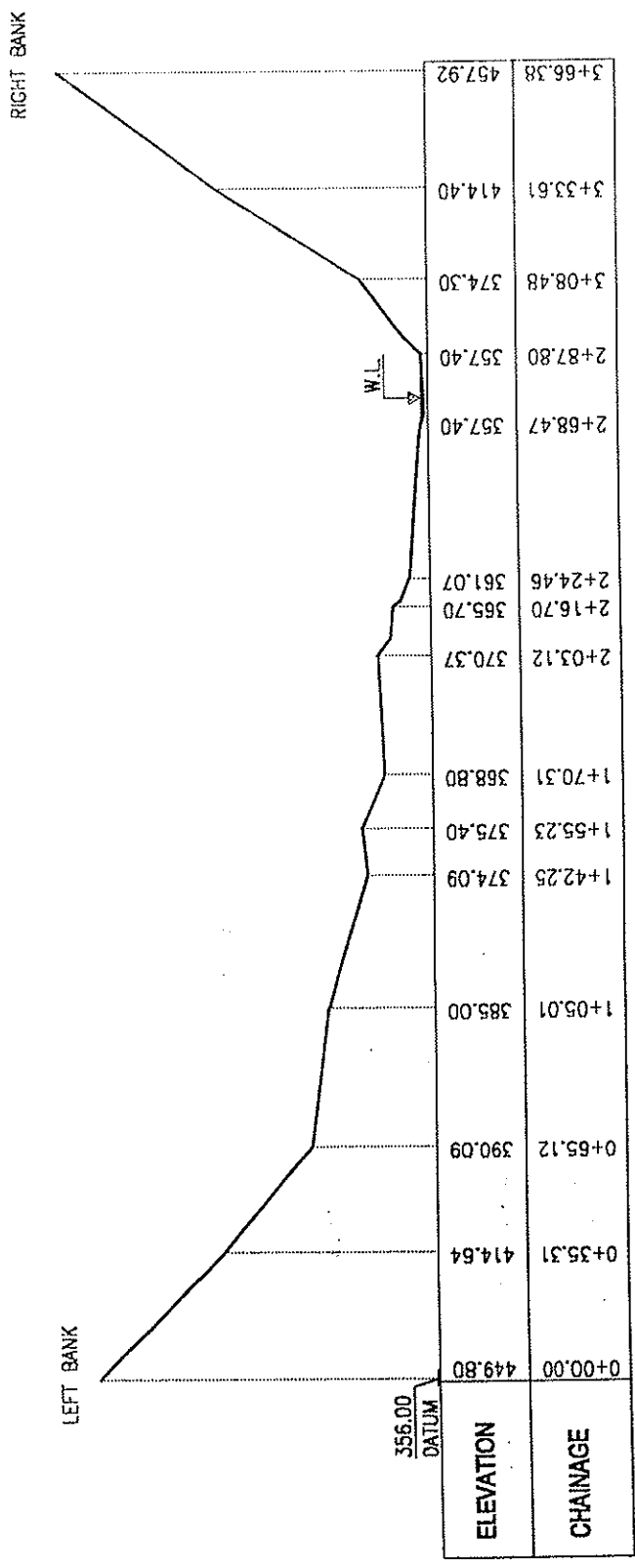
River Cross Section
Reservoir


Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

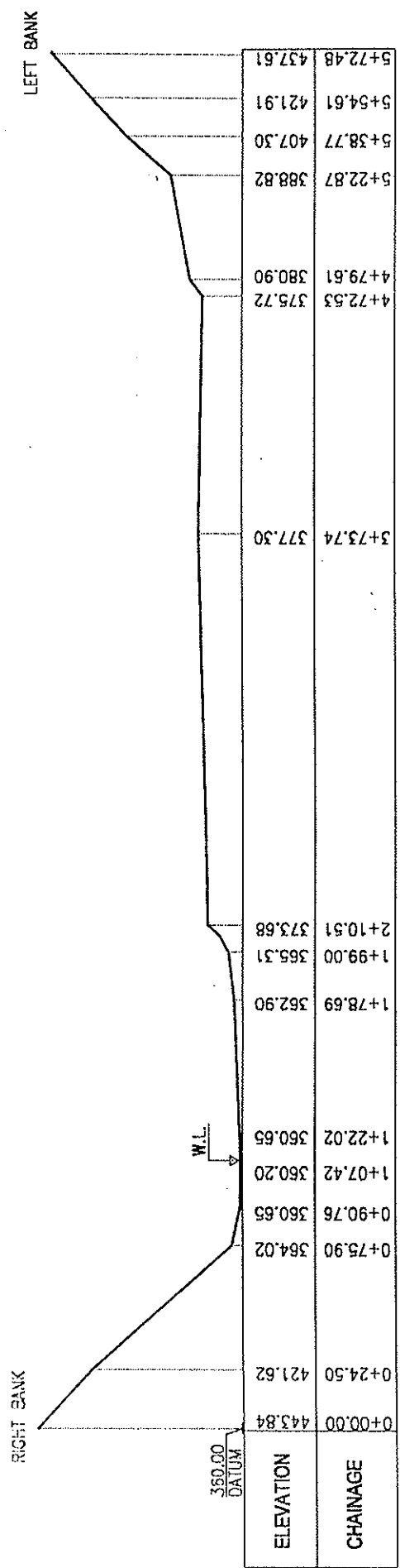
Upper Seti Hydroelectric Project

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu





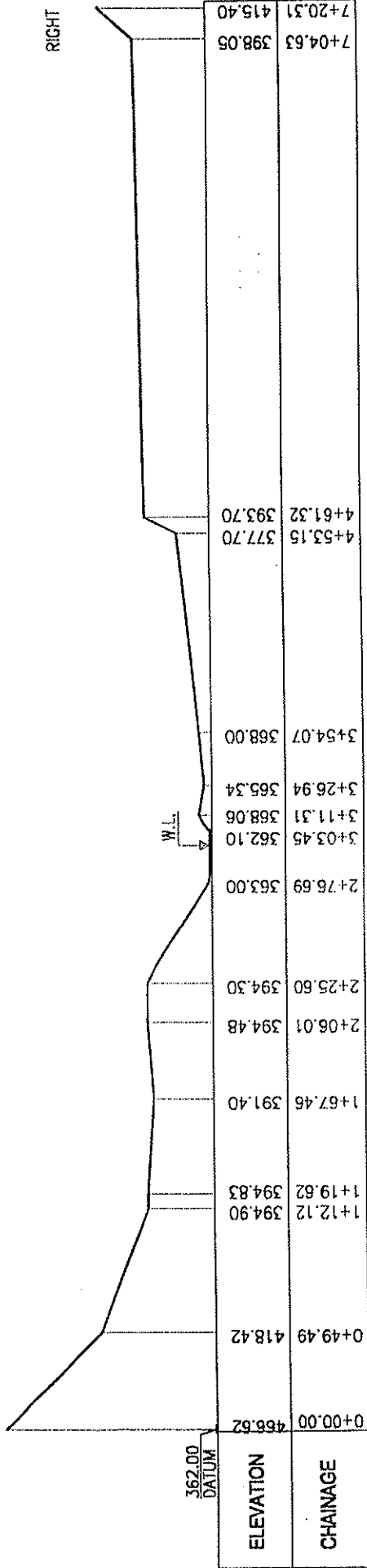
 NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	Title Upper Seti Hydroelectric Project	Section No. Rx 35
	This River Cross Section Reservoir		



Section No.	Title	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	 NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu
Rx 36	River Cross Section Reservoir	Upper Seti Hydroelectric Project	

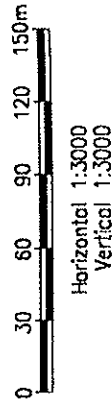
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DATUM



NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

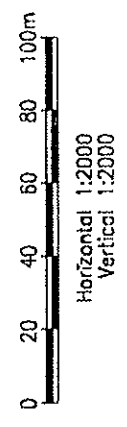
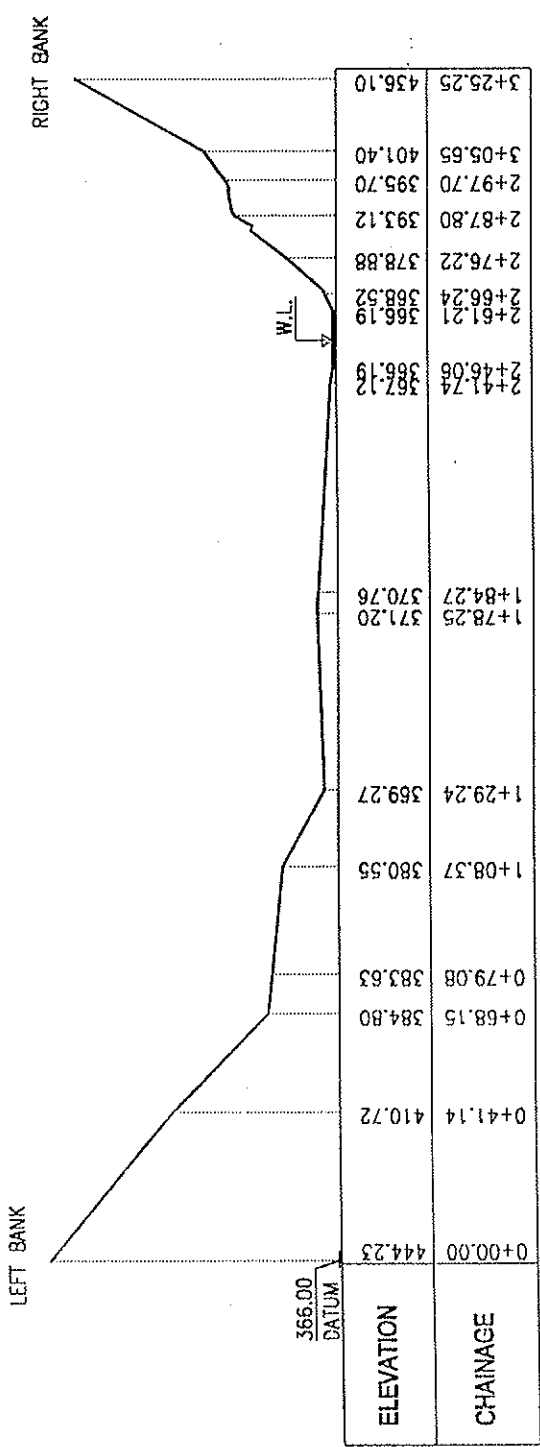
Upper Seti Hydroelectric Project

Title

River Cross Section
Reservoir

Section No.

Rx 37



Section No.
RX 38

Title
**River Cross Section
Reservoir**

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEW ELECTRICITY SUPPLY
Durbar Marg, Kathmandu



NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

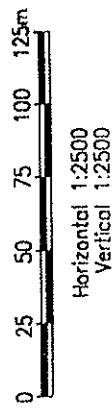
Upper Sati Hydroelectric Project

Title

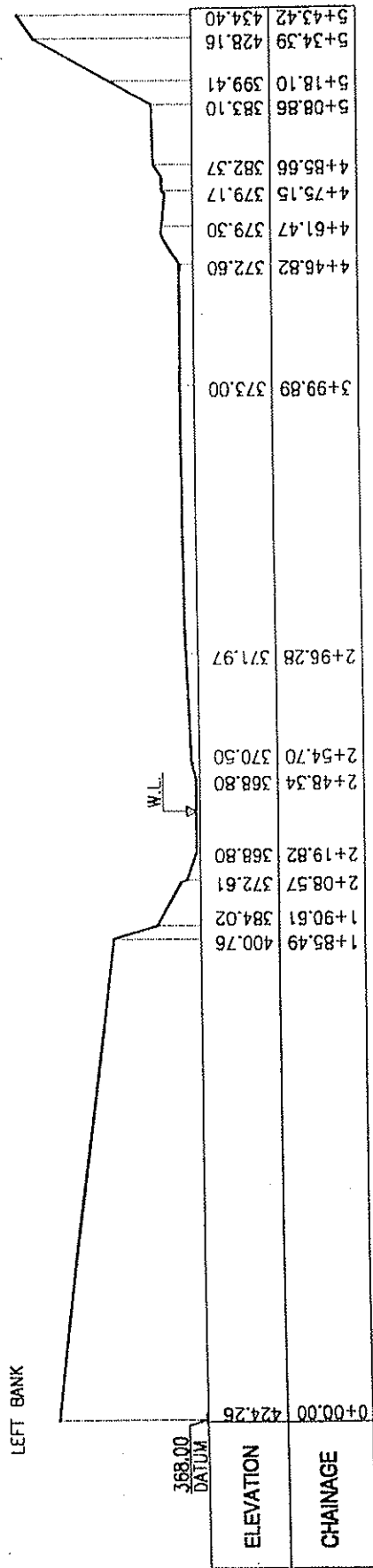
River Cross Section
Reservoir

Section No.

Rx 39



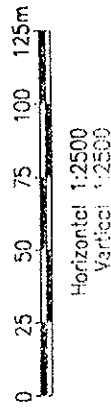
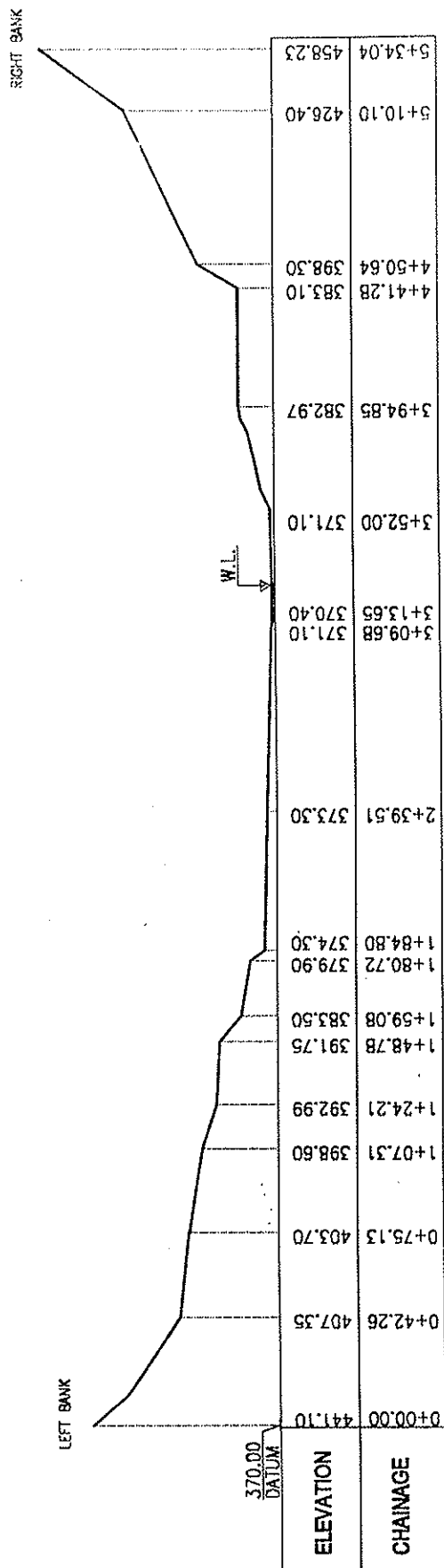
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 NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	Title Upper Seti Hydroelectric Project	Section No. Rx 40
	River Cross Section Reservoir		



NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

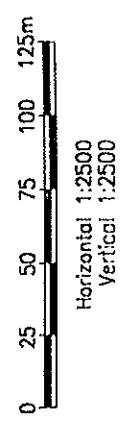
Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

Upper Seti Hydroelectric Project

River Cross Section
Reservoir

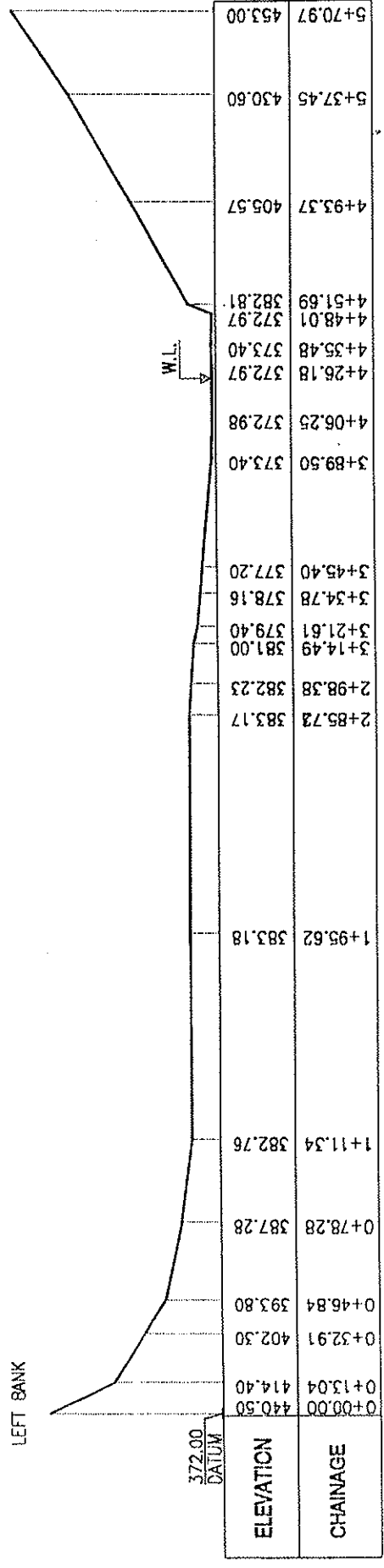
Section No.

Rx 41



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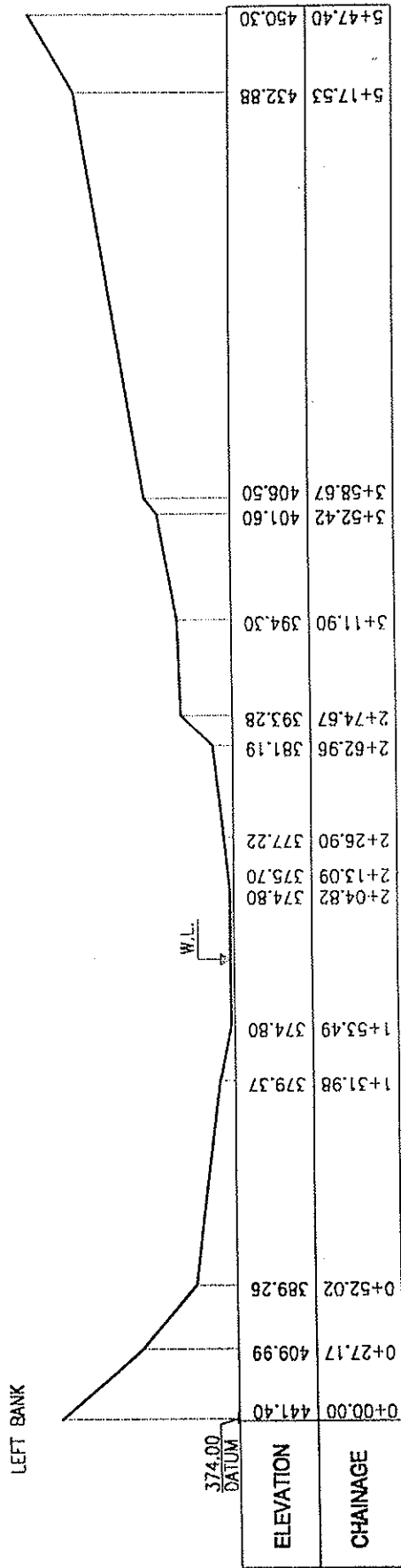
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DATUM

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374.00
DATUM



Horizontal 1:2500
Vertical 1:2500

Section No.

Rx 42

Title

River Cross Section
Reservoir

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

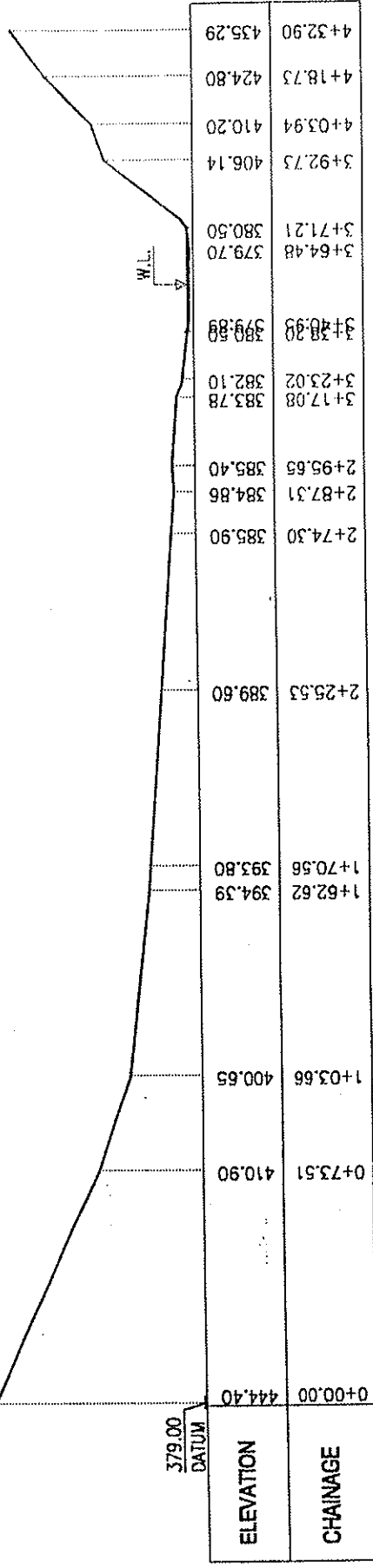
NEPAL ELECTRICITY AUTHORITY

Durbar Marg, Kathmandu



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379.00
DATUM



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Vertical 1:2000

Section No.
Rx 43

River Cross Section
Reservoir

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbat Marg, Kathmandu





NEPAL ELECTRICITY AUTHORITY
Durtar Marg, Kathmandu

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

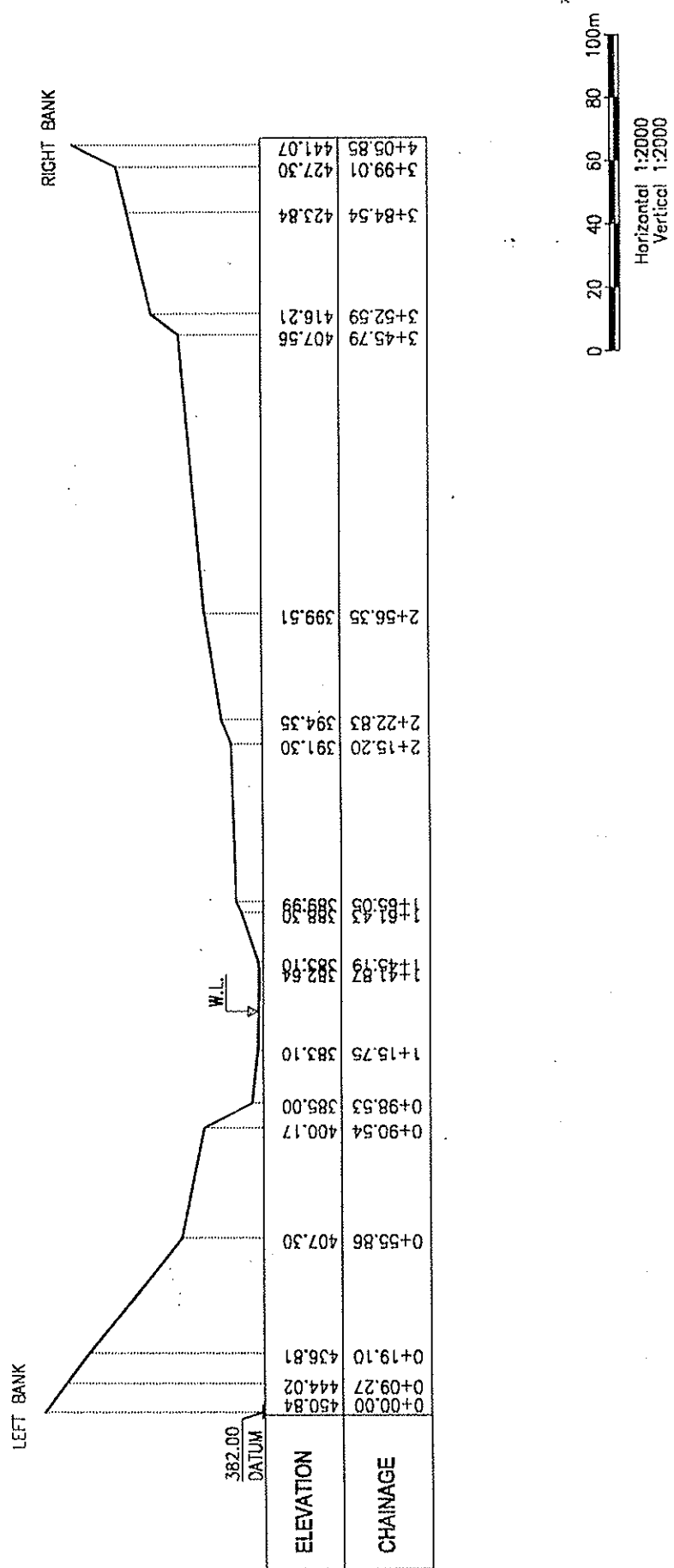
Upper Seti Hydroelectric Project

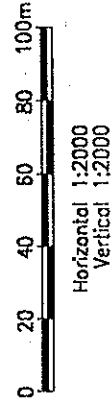
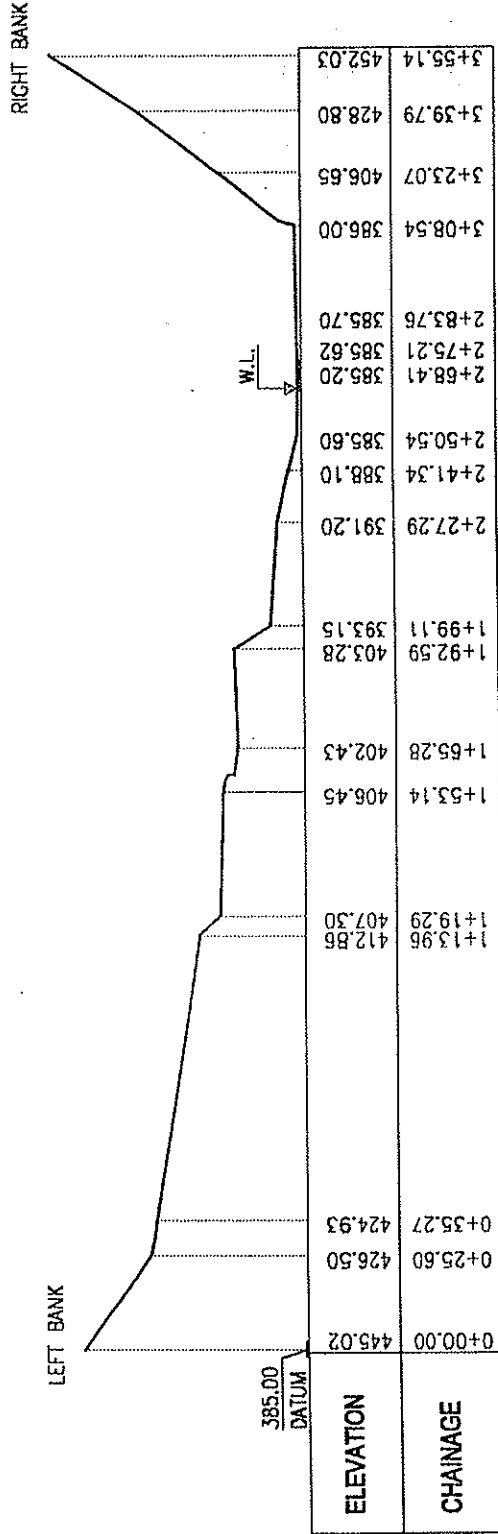
Title

River Cross Section
Reservoir

Section No.

Rx 44





Section No.
RX 45

**River Cross Section
Reservoir**

Title
Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



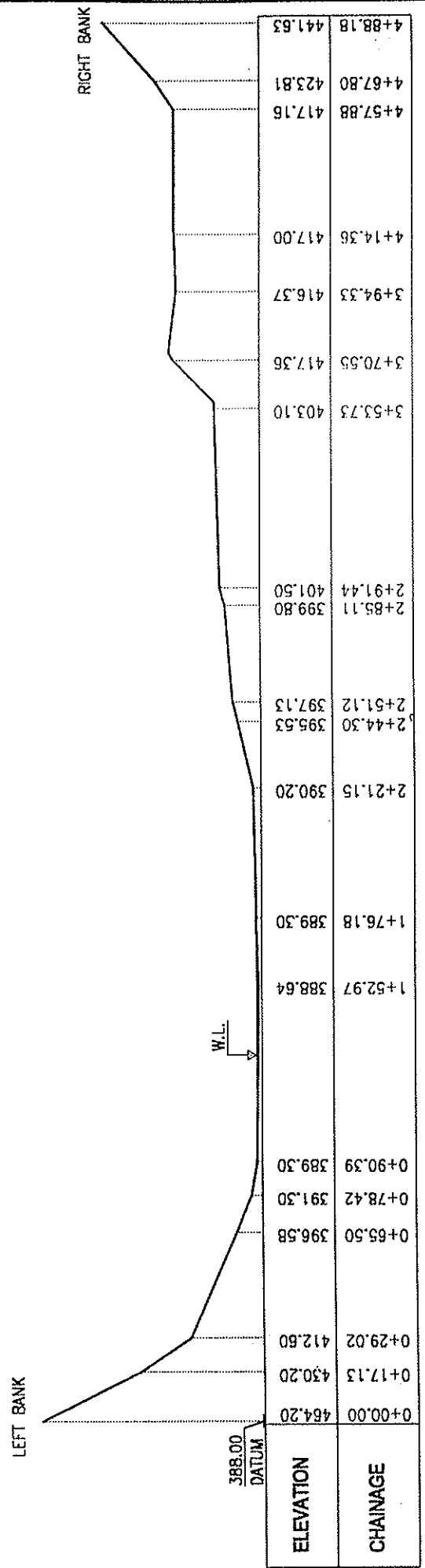
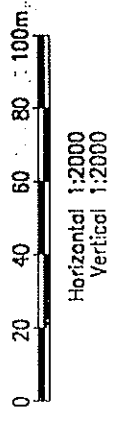
Section No.
Rx 46

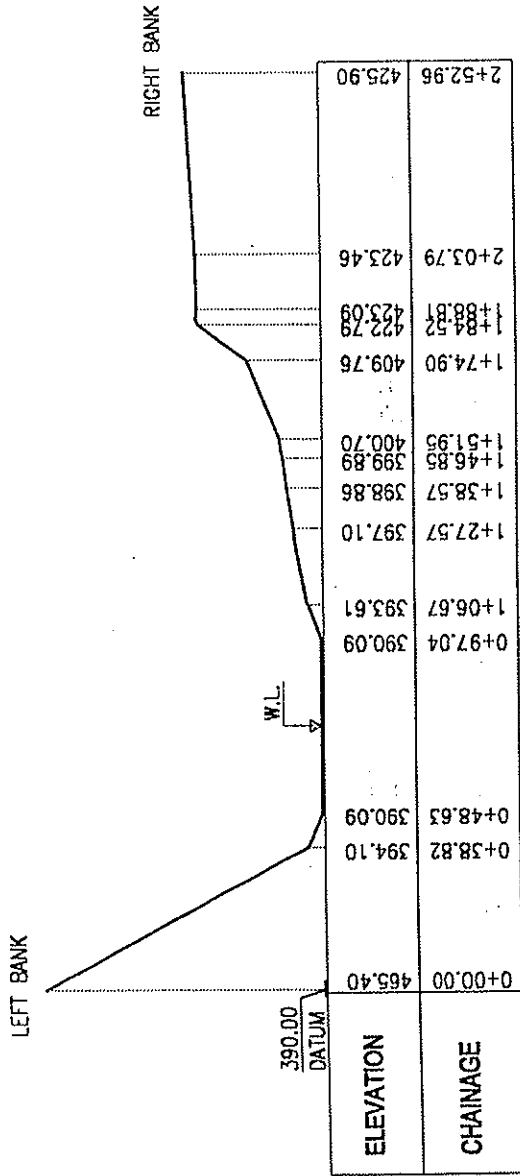
**River Cross Section
Reservoir**

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu





Section No. Rx 47

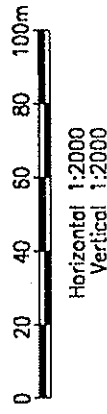
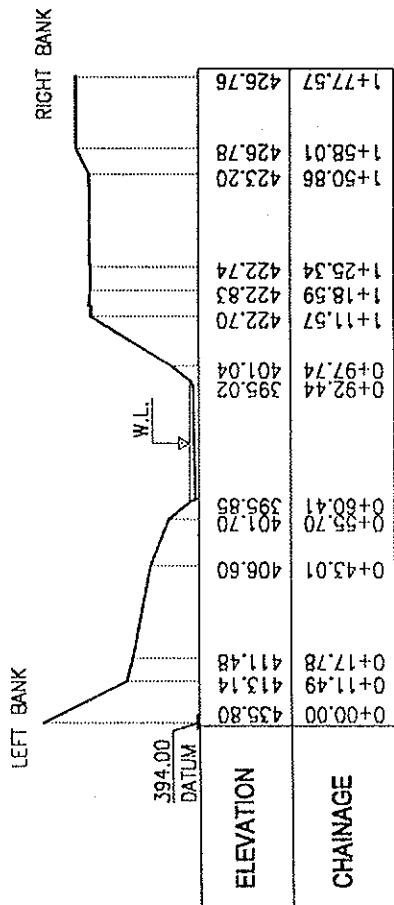
River Cross Section Reservoir

Title Upper Seti Hydroelectric Project

Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu





Section No.

Rx 48

Title

River Cross Section
Reservoir

Upper Seti Hydroelectric Project

Project Preparation & Studies Department

In Association with

Soil, Rock and Concrete Laboratory

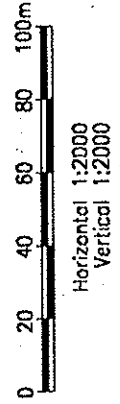
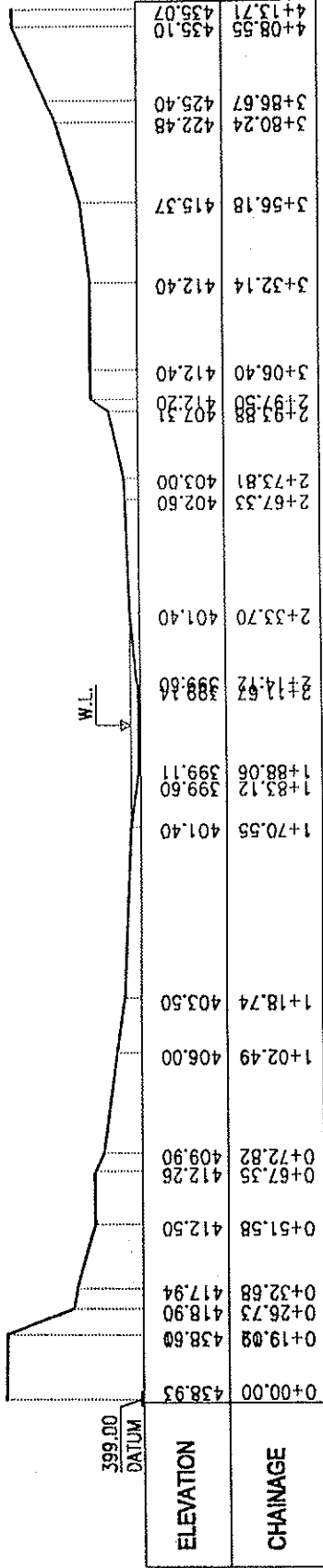
NEPAL ELECTRICITY AUTHORITY

Durbar Marg, Kathmandu



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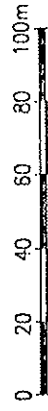
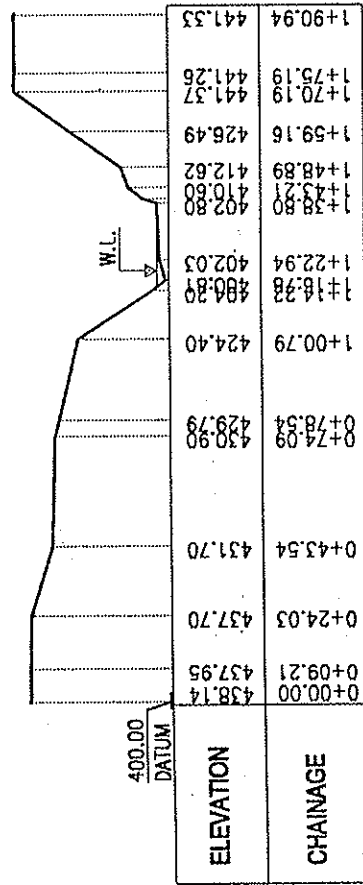
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Section No.	River Cross Section Reservoir	Upper Seti Hydroelectric Project	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	 NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu
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Rx 50

River Cross Section
Reservoir

Upper Seti Hydroelectric Project

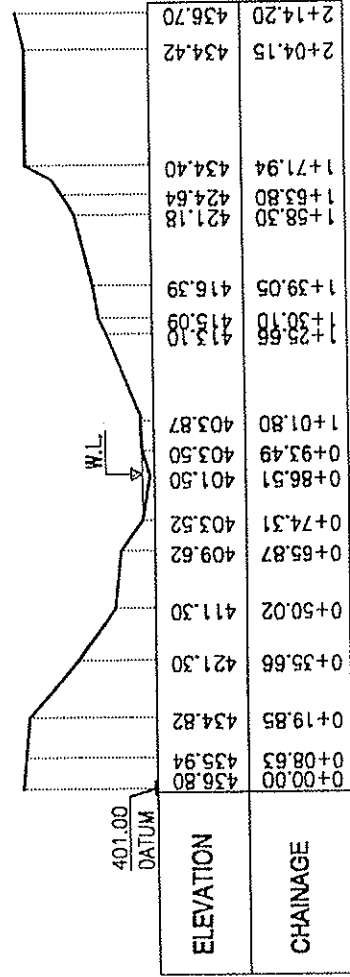
Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



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Section No
Rx 51

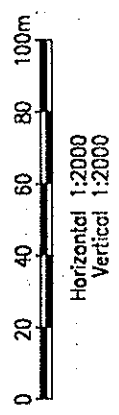
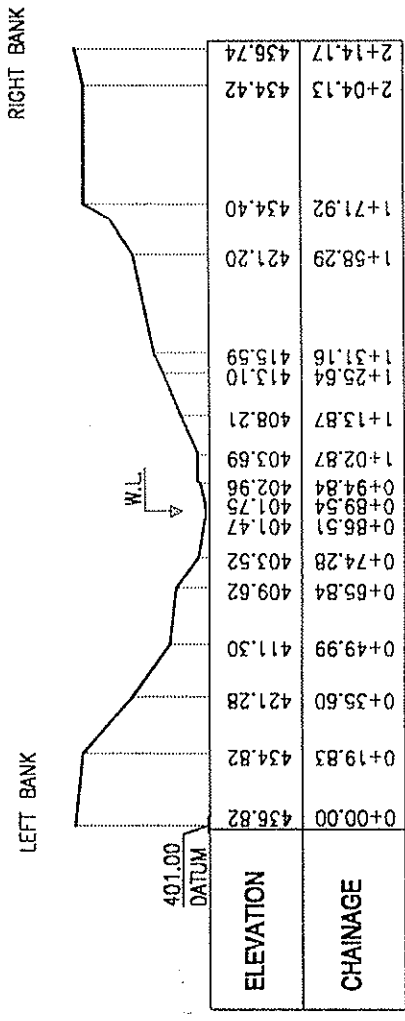
**River Cross Section
Reservoir**

Title
Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Dunbar Marg, Kathmandu





Section No.
Rx 52

**River Cross Section
Reservoir**

Title
Upper Soil Hydroelectric Project

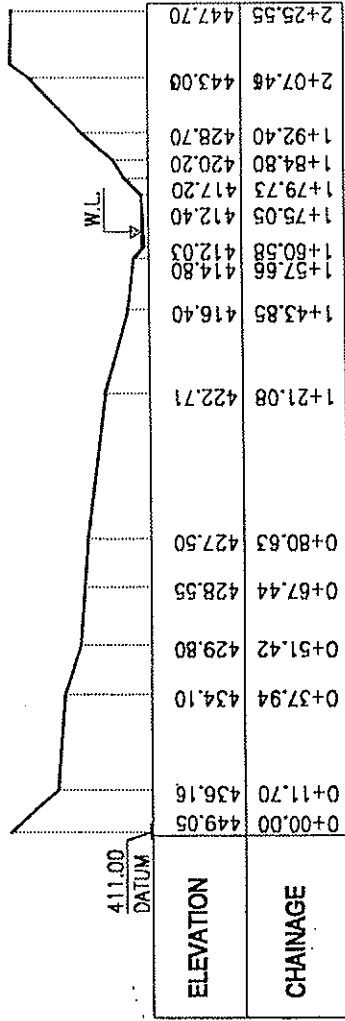
Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory


NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu

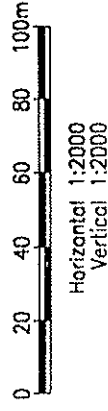
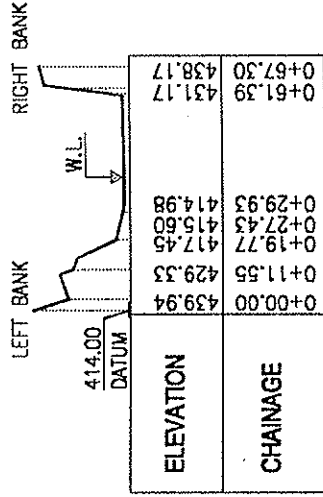


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 <p>NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu</p>	<p>Project Preparation & Studies Department in Association with Soil, Rock and Concrete Laboratory</p>	<p>Upper Seti Hydroelectric Project</p>	<p>River Cross Section Reservoir</p>	<p>Section No. Rx 53</p>
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Section No.
Rx 54

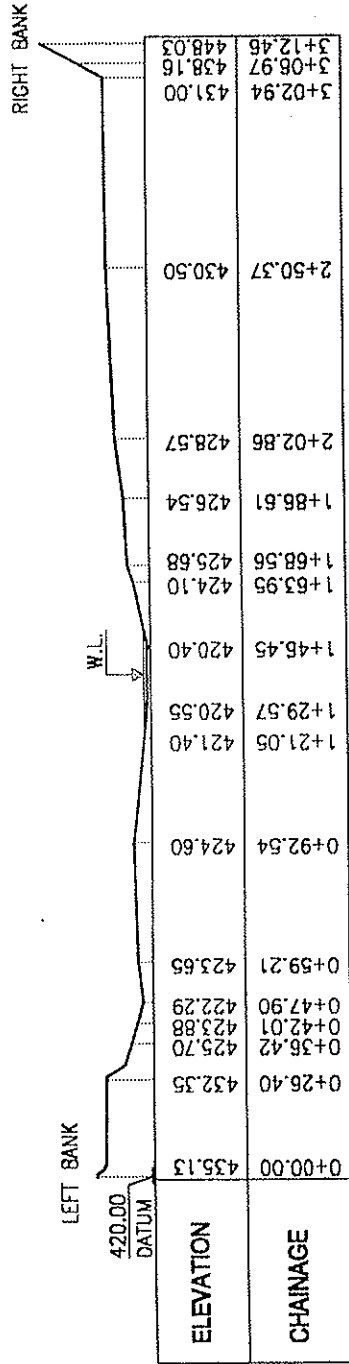
Title
**River Cross Section
Reservoir**

Upper Sefi Hydroelectric Project

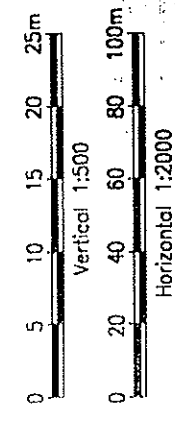
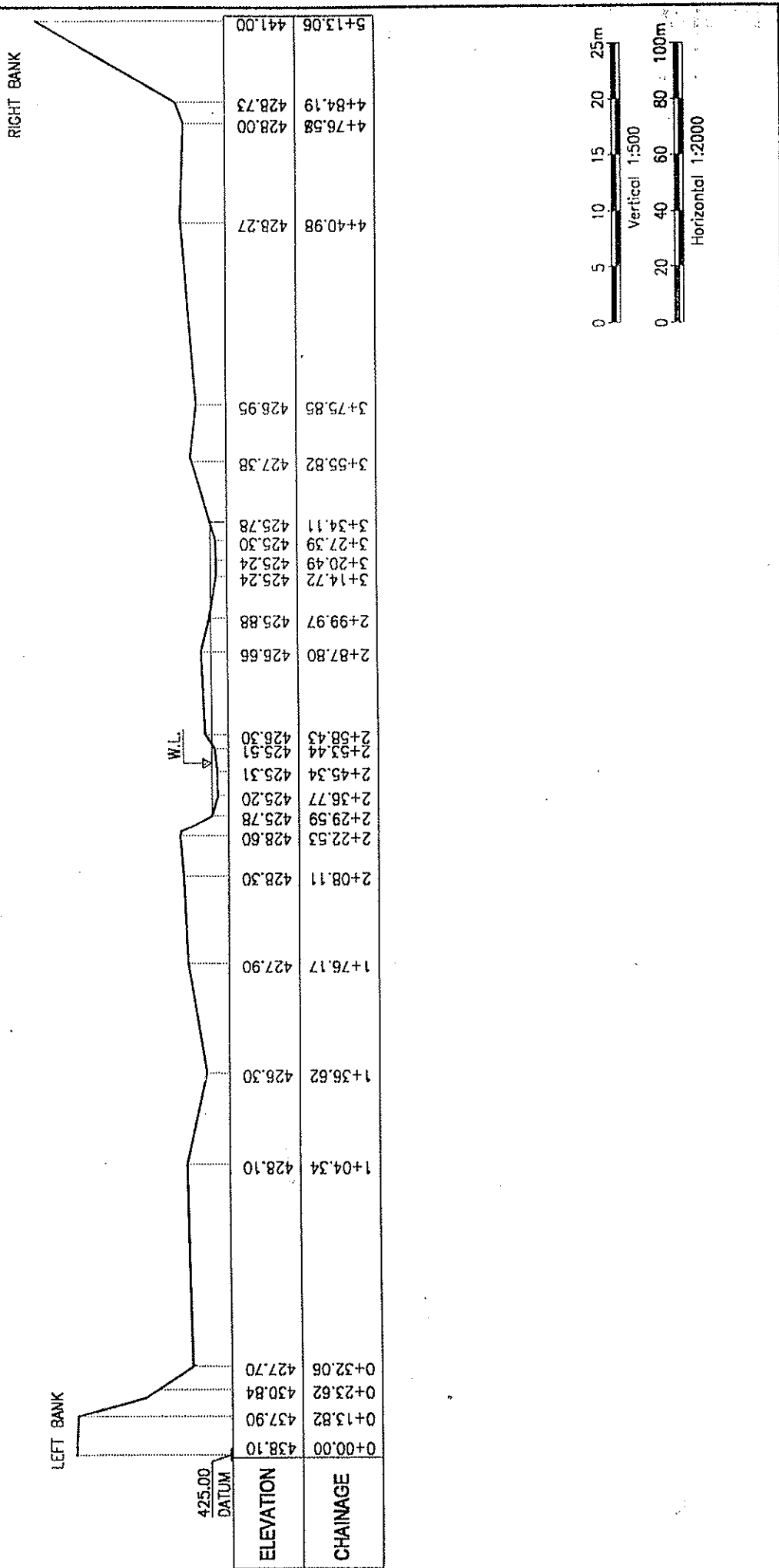
Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu





Section No.	Rx 55
Title	River Cross Section Reservoir
Project Preparation & Studies Department in Association with Soil, Rock and Concrete Laboratory	Upper Seti Hydroelectric Project
NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu	NEPAL ELECTRICITY AUTHORITY



CHAINAGE	ELEVATION
0+00.00	438.10
0+13.82	437.90
0+23.62	430.84
0+32.06	427.70
1+04.34	428.10
1+36.62	428.30
1+76.17	427.90
2+08.11	428.30
2+22.53	428.60
2+29.59	425.78
2+36.77	425.20
2+45.34	425.31
2+53.44	425.51
2+58.43	428.30
2+87.80	426.66
2+99.97	425.88
3+14.72	425.24
3+20.49	425.24
3+27.39	425.30
3+34.11	425.78
3+55.82	427.38
3+75.85	426.95
4+40.98	428.27
4+76.58	428.00
4+84.19	428.73
5+13.06	441.00

 NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory	River Cross Section Reservoir	Section No. Rx 56
	Upper Seti Hydroelectric Project		



NEPAL ELECTRICITY AUTHORITY
 Durbar Marg, Kathmandu

Project Preparation & Studies Department
 In Association with
 Soil, Rock and Concrete Laboratory

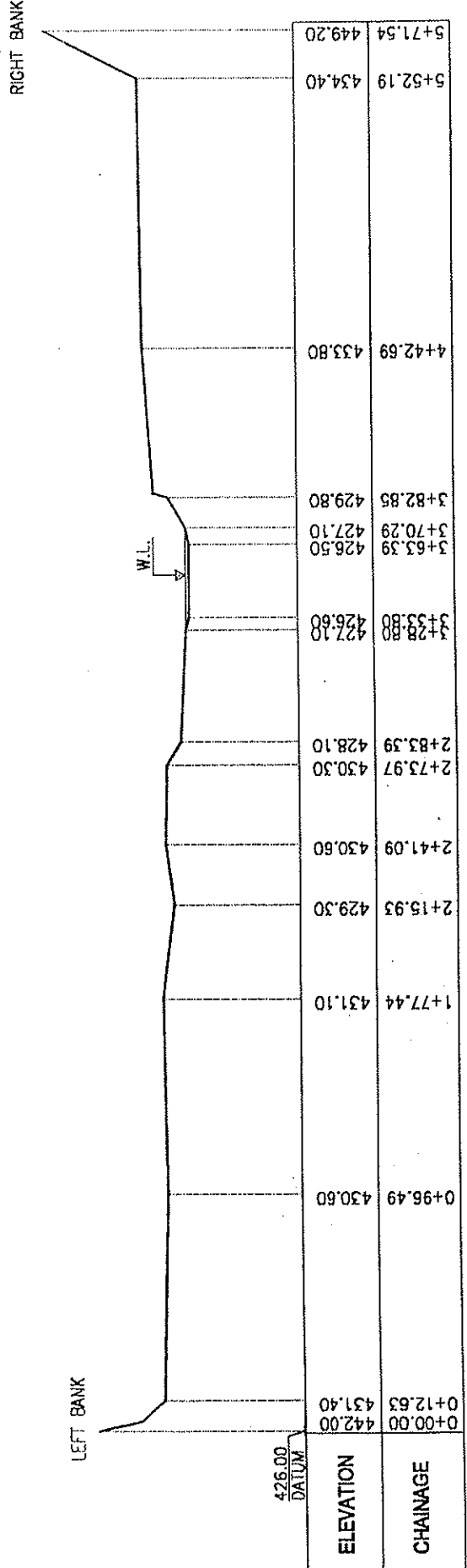
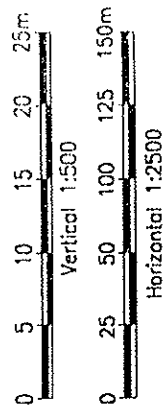
Upper Seti Hydroelectric Project

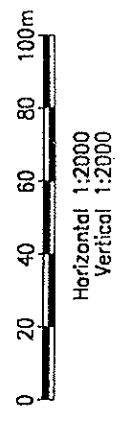
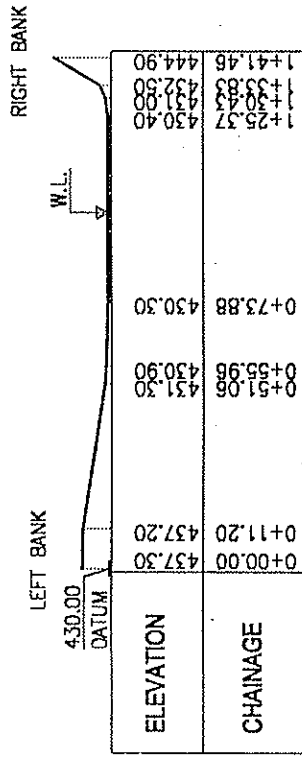
Title

River Cross Section
 Reservoir

Section No

RX 57





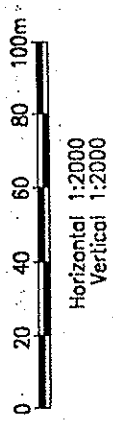
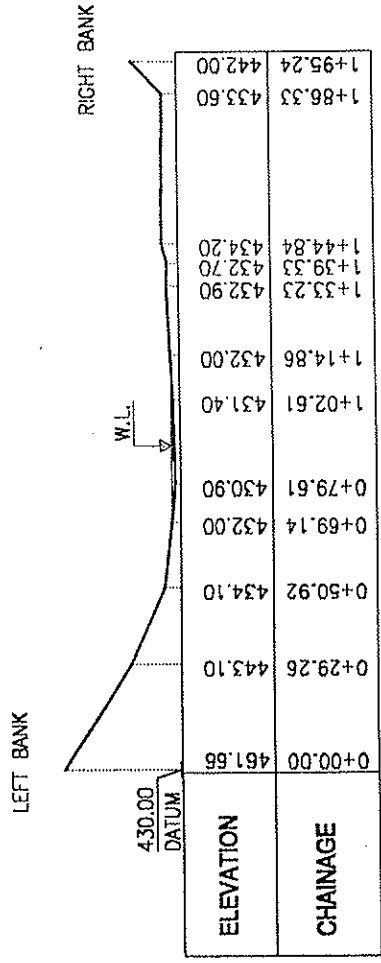
NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu


Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

Upper Seti Hydroelectric Project

Title
River Cross Section
Reservoir

Section No.
Rx 58



 <p>NEPAL ELECTRICITY AUTHORITY Durbār Marg, Kathmandu</p>	<p>Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory</p>	<p>Upper Seti Hydroelectric Project</p>	<p>River Cross Section Reservoir</p>	<p>Section No. Rx 59</p>
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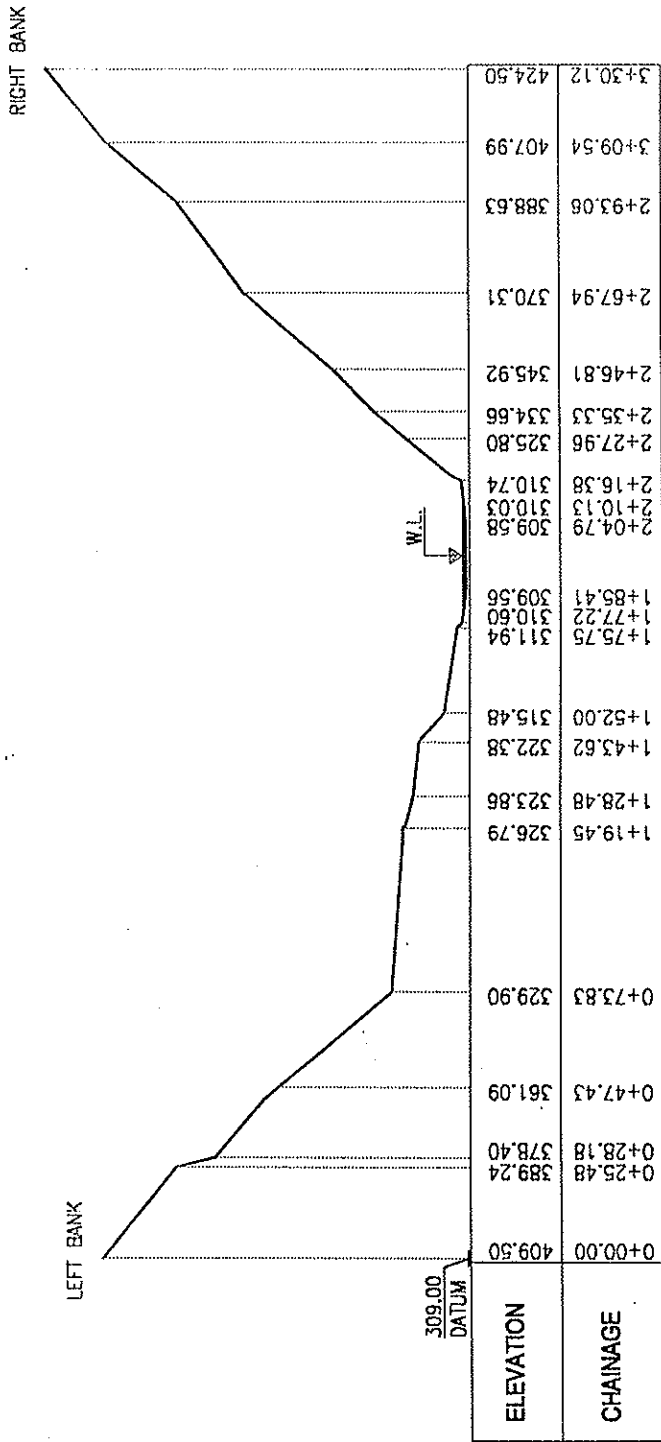
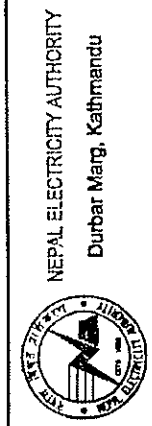


Figure No. **DX 1**

Upper Seti Hydroelectric Project
Dam Site

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



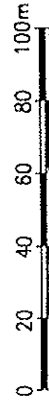
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309.00
DATUM

ELEVATION	CHAINAGE
416.10	0+00.00
385.10	0+37.14
369.07	0+40.62
357.42	0+48.44
323.53	0+77.72
323.13	0+91.86
321.98	1+38.00
317.08	1+45.20
314.89	1+51.27
309.30	1+66.53
309.17	1+89.40
310.60	2+02.61
330.33	2+19.91
342.63	2+30.26
351.04	2+37.64
373.33	2+54.20
383.20	2+63.17
388.81	2+69.22
404.13	2+94.46
408.68	3+01.41
415.61	3+07.71
426.39	3+21.45
432.32	3+27.89



Horizontal 1:2000
Vertical 1:2000

Figure No. **Dx 2**

River Cross Section
Dam Site

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



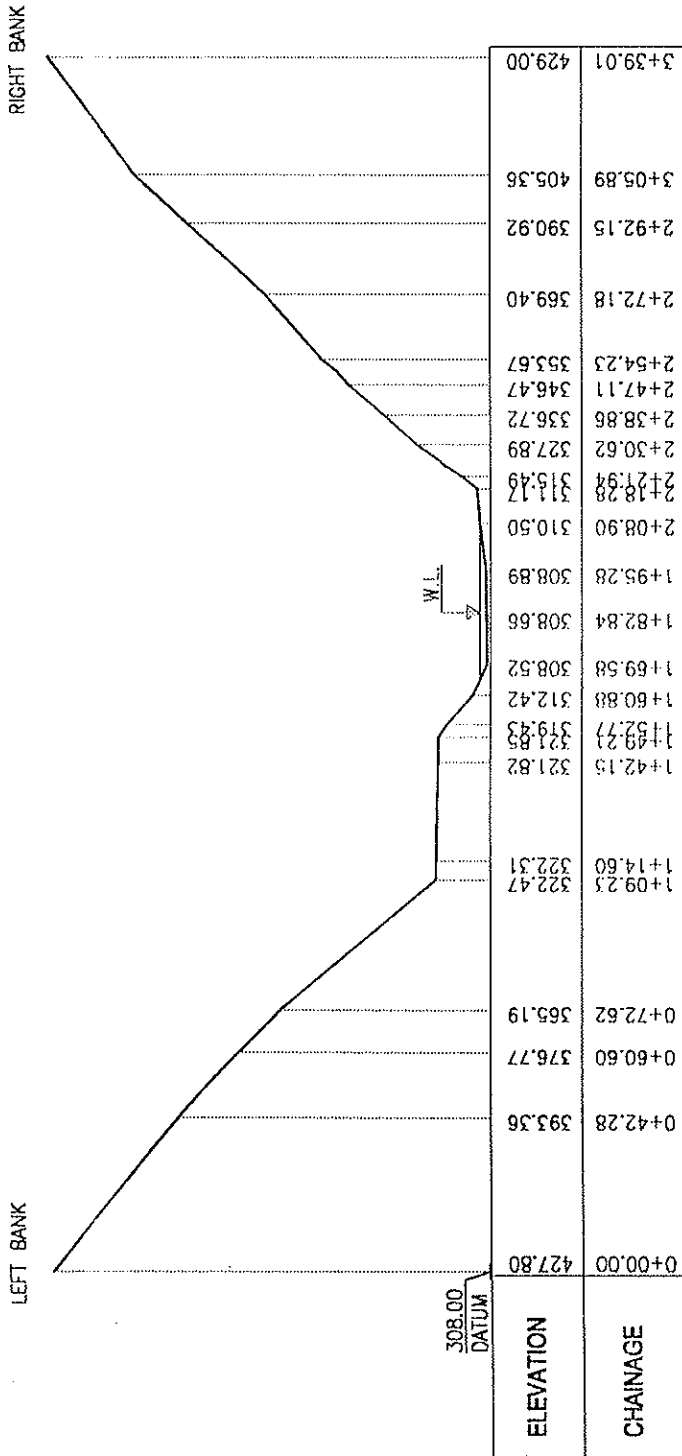


Figure No.
Dx 3

Title
**River Cross Section
Dam Site**

Upper Seti Hydroelectric Project

Project Preparation by **Soil, Rock and Concrete Laboratory**
in Association with

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



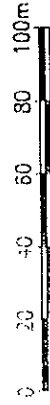
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W.L.

308.00
DATUM

ELEVATION	0+00.00	414.90	0+14.76	405.09	0+23.18	399.59	0+31.23	390.38	0+41.13	369.24	0+59.28	351.89	0+78.61	336.73	0+86.81	330.13	0+98.04	321.75	1+16.14	319.24	1+31.70	310.21	1+45.07	308.09	1+55.21	308.50	1+75.17	309.38	1+89.95	310.40	1+95.38	312.98	2+04.90	322.81	2+38.14	345.80	2+50.61	366.52	2+85.16	397.46	3+27.41	435.30						
CHANGEE																																																



Horizontal 1:2000
Vertical 1:2000

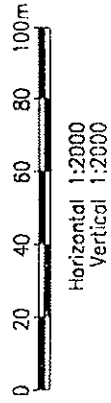
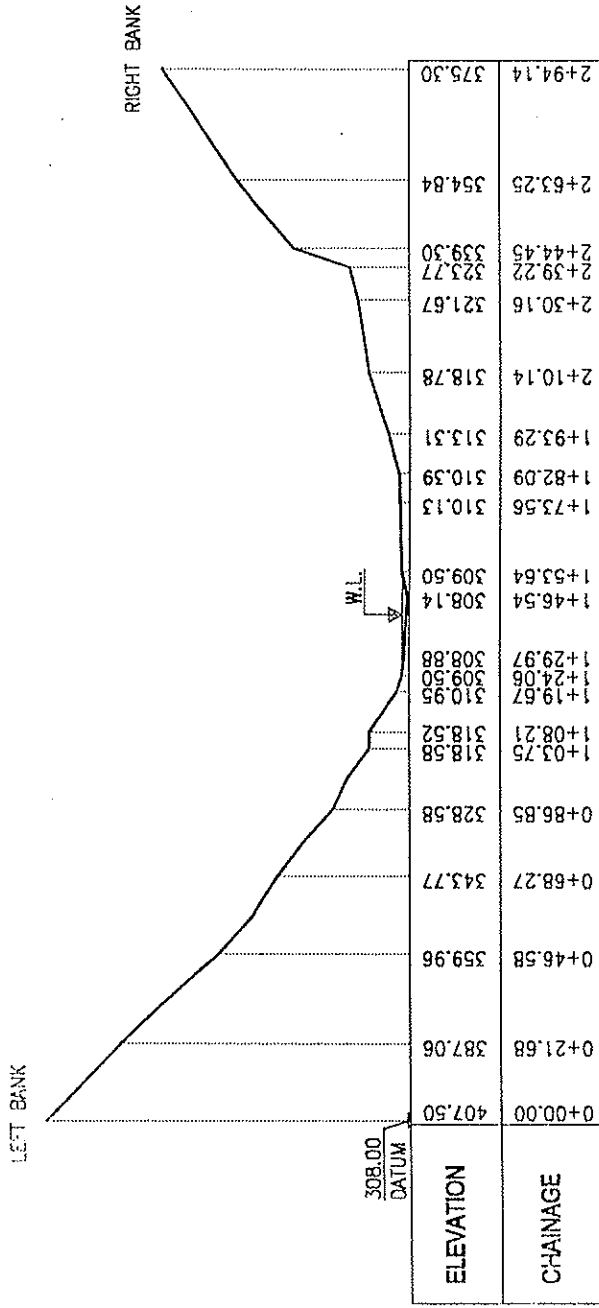
Figure No. **DX 4**


Plan of Cross Section
Dam Site

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



 <p>NEPAL ELECTRICITY AUTHORITY Durbār Marg, Kathmandu</p>	<p>Project Preparation & Studies Department in Association with Soil, Rock and Concrete Laboratory</p>	<p>Upper Seti Hydroelectric Project</p>	<p>River Cross Section Dam Site</p>	<p>Figure No. DX 5</p>
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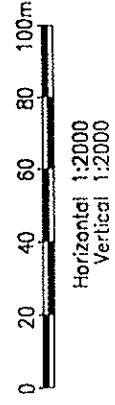
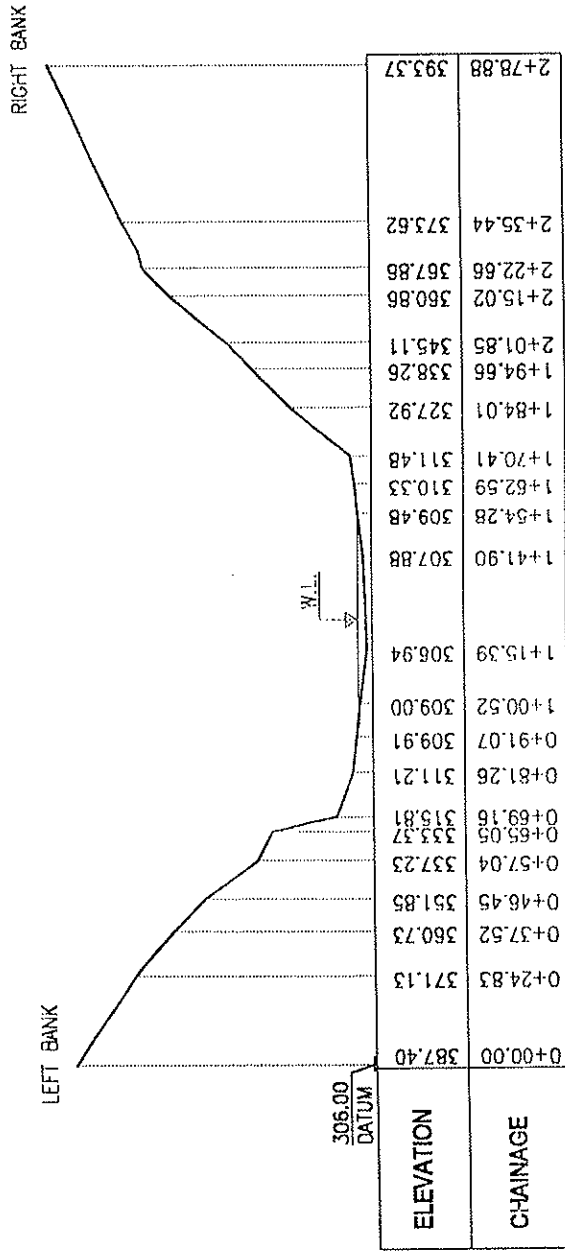


Figure No. **Dx 6**

**River Cross Section
Dam Site**

Title
Upper Seti Hydroelectric Project

Prepared by: **Soil Mechanics Department**
in Association with
Soil Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu



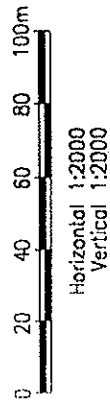
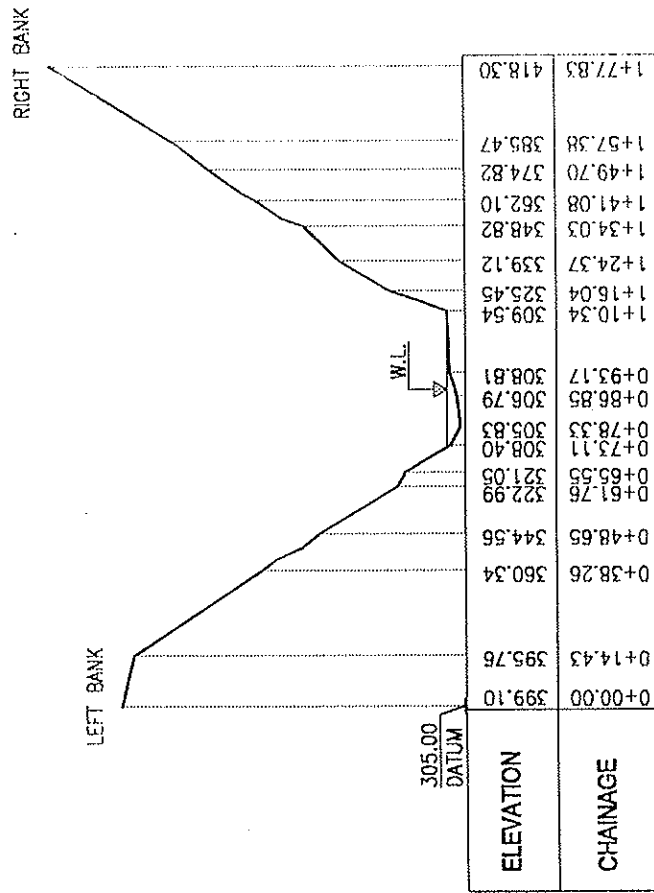


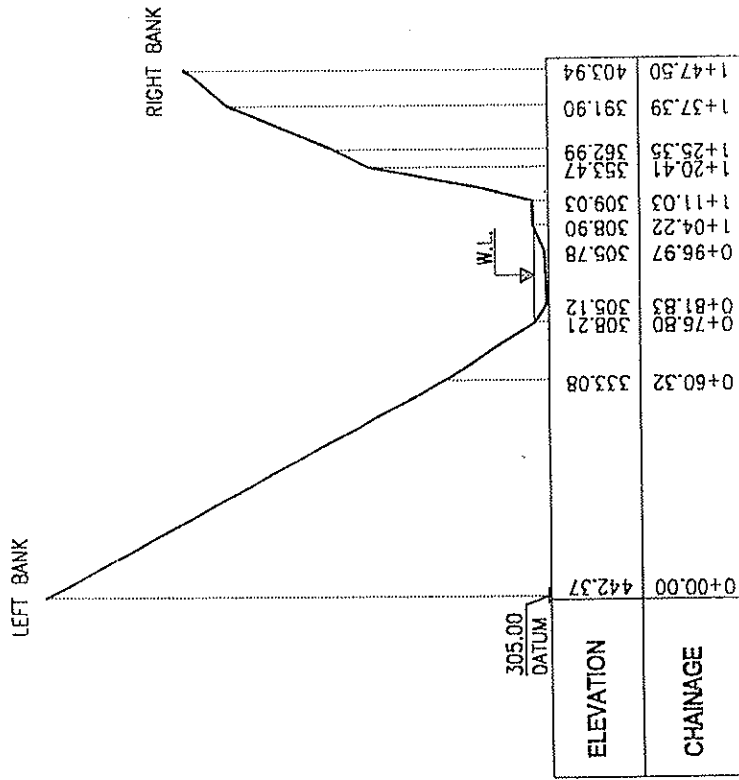
Figure No. **Dx 7**

River Cross Section
Dam Site

Upper Soti Hydropower Project

Project Preparation & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Dunbar Marg, Kathmandu



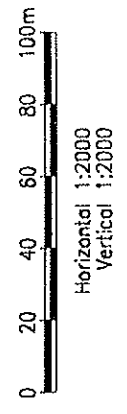
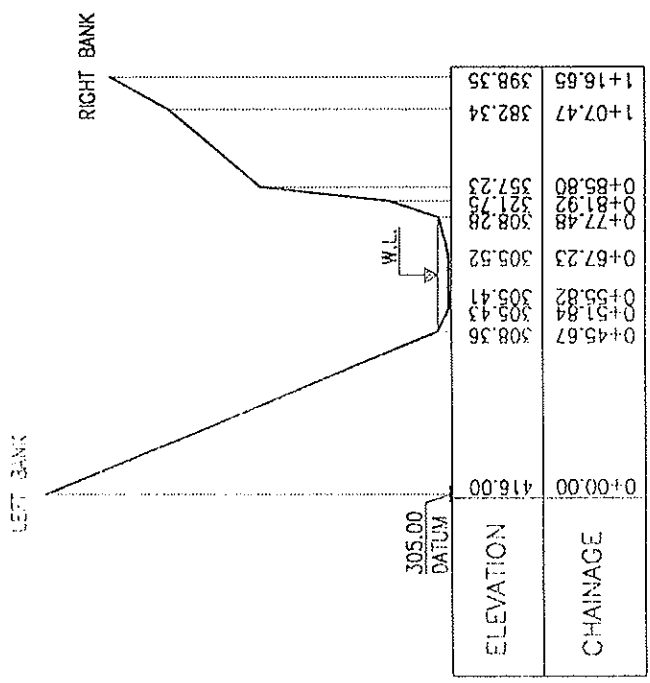
Horizontal 1:2000
Vertical 1:2500


River Cross Section
Dam Site

Upper Seti Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

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 <p>NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu</p>	<p>Project: Upper Seti Hydroelectric Project in Association with Soil, Rock and Concrete Laboratory</p>	<p>Department of Engineering and Studies</p>	<p>Figure No. Dx 9</p>
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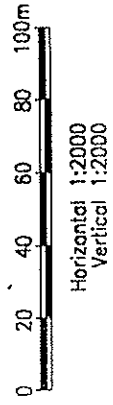
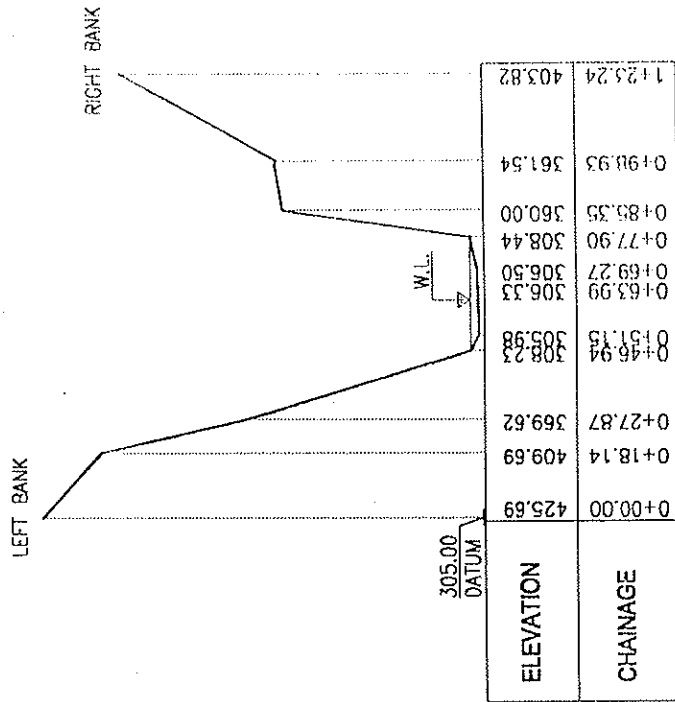


Figure No. **Dx 10**

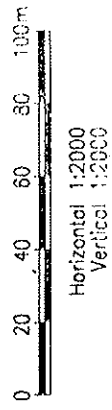
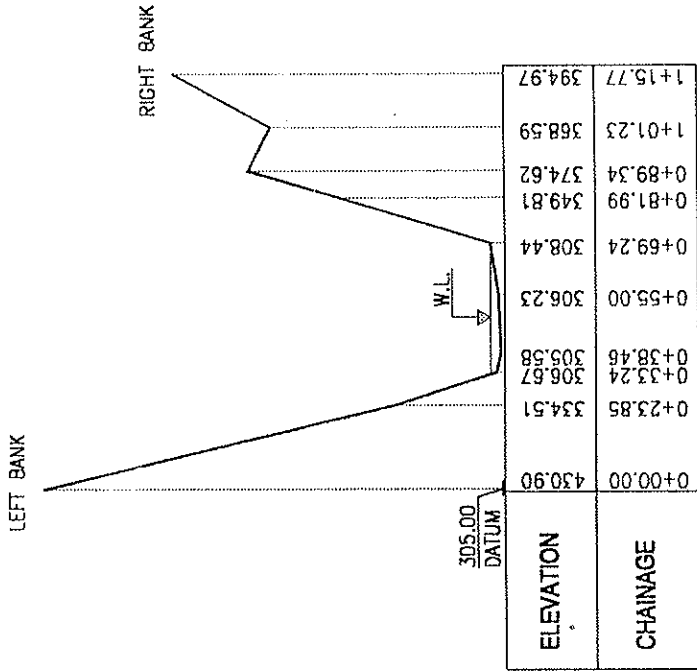
**River Cross Section
Dam Site**


Upper Soil Hydroelectric Project

Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

NEPAL ELECTRICITY AUTHORITY
Durbar Marg, Kathmandu





 <p>NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu</p>	<p>Project Preparation & Studies Department in Association with Soil, Rock and Concrete Laboratory</p>	<p>Upper Seti Hydroelectric Project</p>	<p>Title River Cross Section Dam Site</p> <p>DX 11</p>
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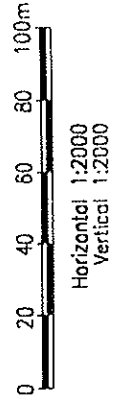
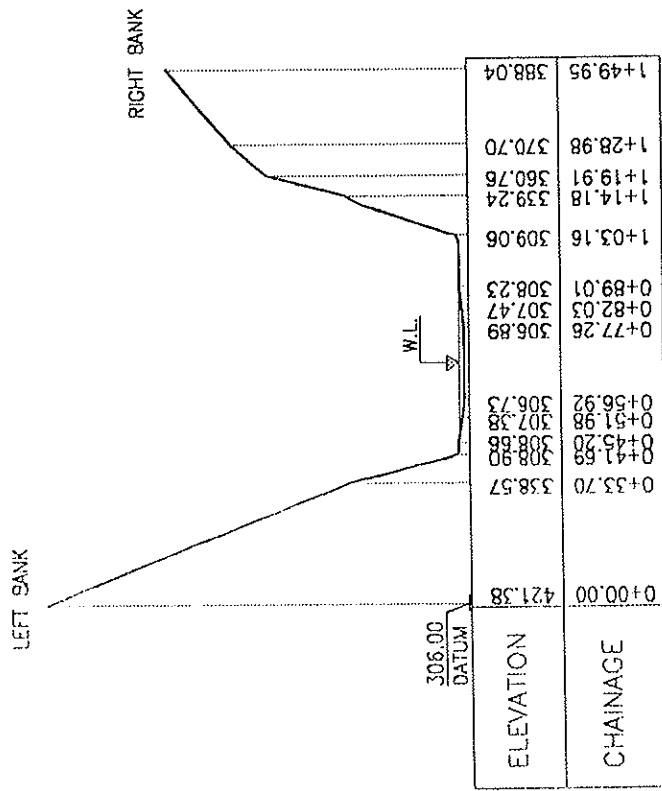


Figure No. **Dx 12**

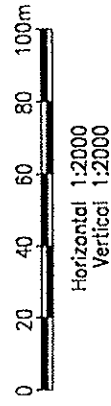
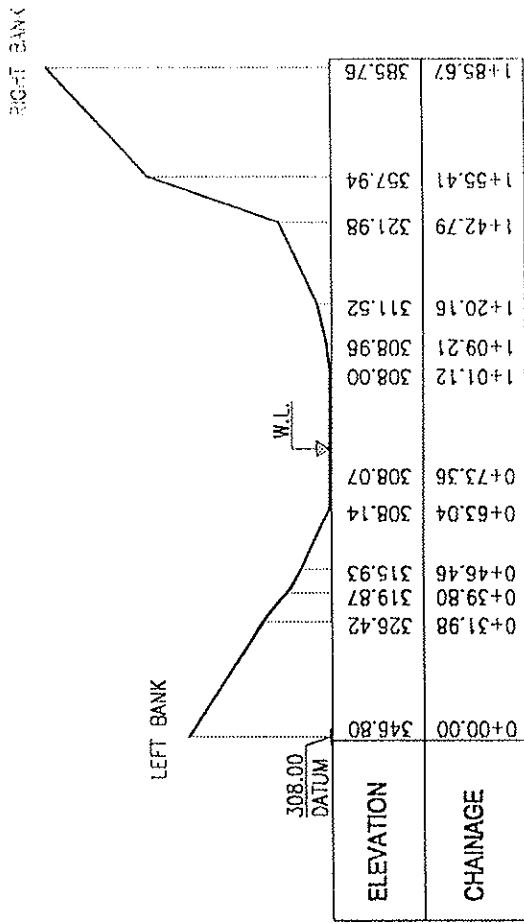
Title **River Cross Section
Dam Site**


Upper Seti Hydroelectric Project

Department of Civil Engineering & Studies Department
in Association with
Soil, Rock and Concrete Laboratory

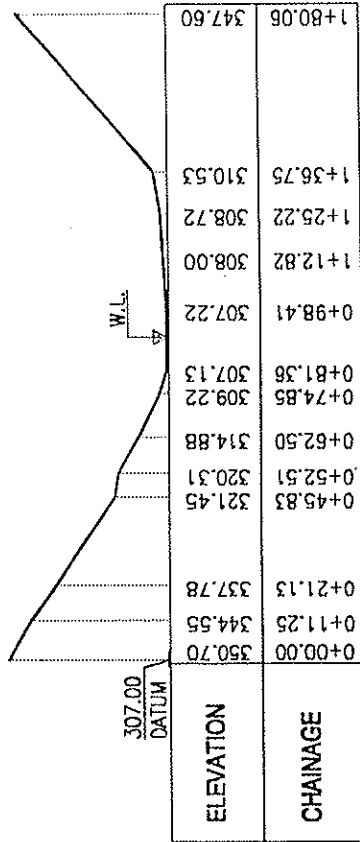
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 <p>NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu</p>	<p>Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory</p>	<p>Upper Saurajya Hydroelectric Project</p>	<p>River Cross Section Dam Site</p>
		<p>Figure No.</p>	<p>Dx 13</p>

LEFT BANK RIGHT BANK



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Project Preparation & Studies Department
In Association with
Soil, Rock and Concrete Laboratory

Upper Seil Hydroelectric Project

Title
River Cross Section
Dam Site

Sheet No.
Box 14

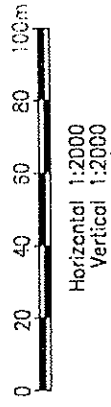
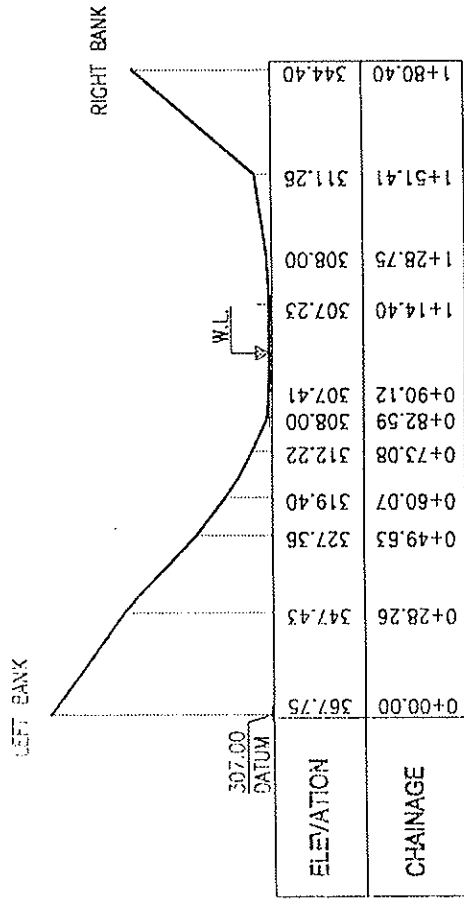

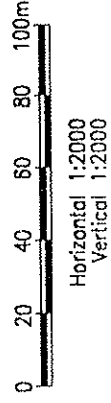
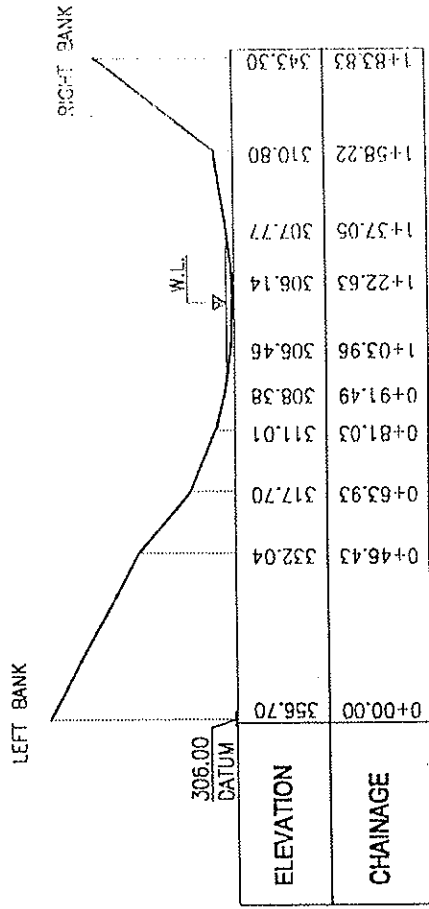

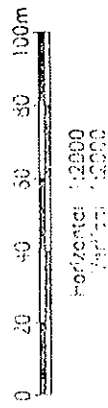
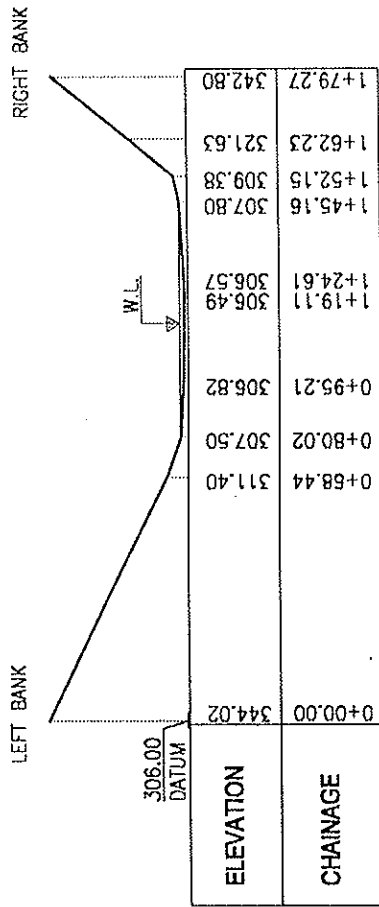


Figure No.	River Cross Section	Upper Seti Hydroelectric Project	 Department of Irrigation and Power Government of Nepal
Dx 15	Dam Site	Soil, Rock and Concrete Laboratory	Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory



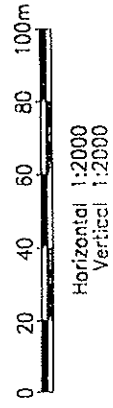
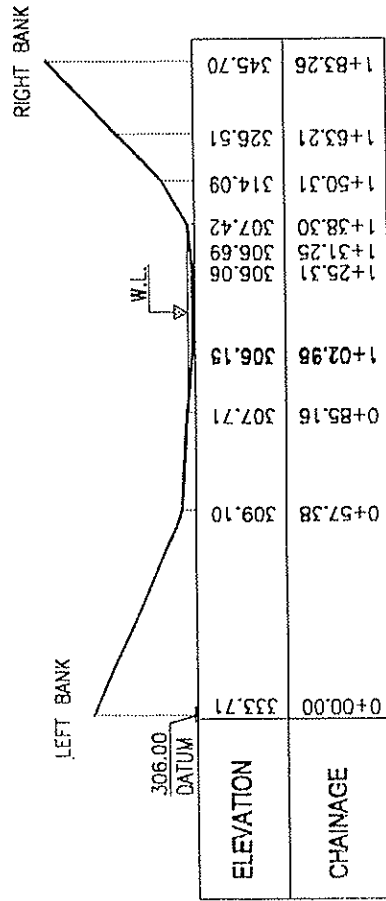
 <p>NEPAL ELECTRICITY AUTHORITY Durbar Marg, Kathmandu</p>	<p>Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory</p>	<p>Title River Cross Section Dam Site</p>	<p>Figure No. Dx 16</p>
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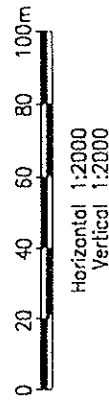
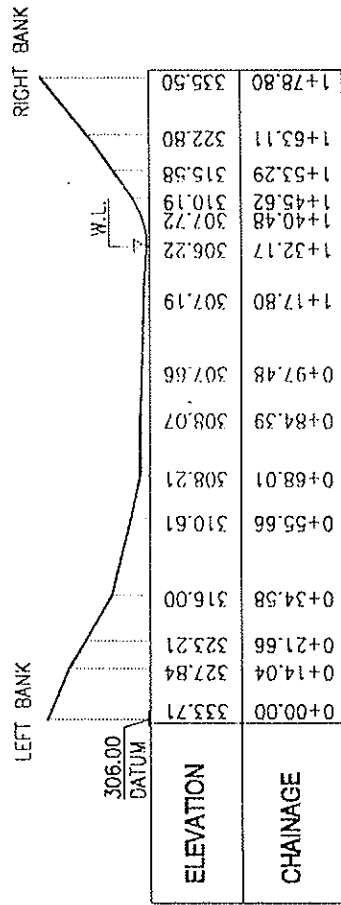
Title: Upper Seti Hydroelectric Project
 Drawing No.: DX 17
 River Cross Section
 Dam Site

Project Preparation & Studies Department
 In Association with
 Soil, Rock and Concrete Laboratory

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 Durbar Marg, Kathmandu



 <p>MINISTRY OF WATER RESOURCES, NEPAL Kathmandu</p>	<p>Project Preparation & Studies Department In Association with Soil, Rock and Concrete Laboratory</p>	<p>Upper Seti Hydroelectric Project</p>	<p>Title River Cross Section Dam Site</p>	<p>Figure No. Dx 18</p>
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Project Preparation & Feasibility Study
in Association with
Soil, Rock and Concrete Laboratory

Upper Seti Hydroelectric Project

Title
River Cross Section
Dam Site

Figure No.
DX 19