

**Report on Demarcation of Priority Sub-watersheds of 2D3D
and 2D3E Sub-catchments of Kali Sindh (2D3)
Catchment(NonRVP), Dewas, Raigarh, Sehore, Shajapur,
Ujjain districts of Madhya Prades and Chittorgarh, Jhalwar,
Kota and Mandsaur district of Rajasthan.**

ABSTRACT

1. **Surveyed Area** : 2D3D and 2D3E Sub-catchments, Kali Sindh Catchment (2D3) Chambal Non-RVP
2. **Geographical Location** : 22° 34' 50" to 24° 56' 15" N Latitudes
75° 39' 04" to 76° 36' 11" E Longitudes
3. **Total Area** : 11,94,981 ha
4. **Type of Survey** : Rapid Reconnaissance Survey for Priority Delineation
5. **Period of Survey** : 1994 - 1995
6. **Base Material** : Survey of India Topographical Maps on 1: 50,000 scale
7. **Agro Climate Region** : Central Plateau & Hill (VIII)

1890

8. Extent of Areas under different Run-off Potential Mapping Unit

Sl. No.	Mapping Unit	Area in ha	Percentage
1.	A1	28710	2.40
2.	A2	63810	5.34
3.	A3	5975	0.50
4.	A4	5725	0.48
5.	A5	26175	2.19
6.	A6	300	0.03
7.	B1	6375	0.53
8.	B2	14400	1.21
9.	B3	17255	1.44
10.	B4	6240	0.52
11.	B5	53610	4.49
12.	B6	27375	2.29
13.	B7	108965	9.12
14.	B8	89085	7.45
15.	B9	14375	1.20
16.	B10	1225	0.10
17.	B11	52820	4.42
18.	B12	131220	10.98
19.	B13	6495	0.54
20.	B14	69795	5.84
21.	B15	76430	6.40
22.	B16	36600	3.06
23.	B17	165246	13.83
24.	C1	52055	4.36
25.	S1	8725	0.73
26.	S2	5450	0.46
27.	S3	18225	1.53
28.	S4	425	0.04
29.	S5	1125	0.09
30.	S6	5300	0.44
31.	S7	4275	0.36
32.	S9	3850	0.32
33.	S10	1175	0.10

Sl. No.	Mapping Unit	Area in ha	Percentage
34.	S11	750	0.06
35.	S12	3850	0.32
36.	S13	700	0.06
37.	S14	1900	0.16
38.	S15	6925	0.58
39.	S16	4950	0.41
40.	S17	23875	2.00
41.	S18	2725	0.23
42.	S19	100	0.01
43.	S20	775	0.06
44.	S21	1700	0.14
45.	S22	10775	0.90
46.	S23	2875	0.24
47.	S24	250	0.02
48.	L1	750	0.06
49.	L2	125	0.01
50.	Tank	1050	0.09
51.	Habitation	3445	0.29
52.	M.L	5340	0.45
53.	River	13310	1.11
Total		11,94,981	100.00

9. State-wise Distribution of Sub-watersheds area in Very high, High, Medium, Low and Very low Priority Categories.

Sl. No.	Priority Categories SYI range	Madhya Pradesh (Area in ha)	Percentage	Rajasthan (Area in ha)	Percentage	Total sub-watersheds	Total area	percentage
1.	Very high (> 1300)	2075	0.2	-	-	1	2075	0.2
2.	High (1200-1300)	43165	3.6	26435	2.2	31	69600	5.8
3.	Medium (1100-1299)	408416	34.2	155575	13.0	198	563991	47.2
4.	Low (1000-1099)	302460	25.3	182365	15.3	169	484825	40.6
5.	Very low (1000)	61090	5.1	13400	1.1	29	74490	6.2
	Total	817206	68.4	377775	31.6	428	1194981	100

** Total 76 sub-watersheds are common in both States (Madhya Pradesh and Rajasthan)*

10. Salient Features:

The salient features of the area under report are given below:

- Out of the total area of 11,94,981 ha reported under 2D3D and 2D3E sub-catchment of Kali Sindh (2D3) catchment (Non-RVP), 68.4% falls under Madhya Pradesh State and rest 31.6% under Rajasthan State .
- Only 6.0 % area is reported under very high and high priority categories out of which merely 0.2% is under very high category and rest in high priority.
- An area of 45240 ha 3.8% is reported under very high and high priority in Madhya Pradesh and 26435 ha 2.2% is reported in Rajasthan under high priority category.
- About 16.9% of the area has very shallow to shallow soils, shallow to moderately deep soils occupy 45.4% and moderately deep to very deep soils occupy 22.9% where as very deep soils occupy only 12.9%
- About 34.0% area is un-conserved, 4.2% moderately conserved and 41.7% is poorly conserved whereas only 18.1% is well conserved.
- Out of total area 18.7% is under severe erosion, 12.3% is under severe to very severe erosion and 2.3% is under very severe erosion categories..