

**Report on Prioritization of Micro-Watersheds in 2C3C (Middle Sind) Sub Catchment of Sind Kunwari Catchment(2C3C 1-7 Watersheds) of Yamuna Basin, Districts Datia, Gwalior, Morena & Shivpuri of Madhya Pradesh.**

**ABSTRACT**

- 1. Survey Area** : 2C3C (Middle Sind) Sub Catchment of Sind Kunwari Catchment of Yamuna Basin, Districts-Datia, Gwalior, Morena and Shivpuri of Madhya Pradesh.
- 2. Geographical Location** : 24° 59' to 26° 07' N Latitude  
77° 22' to 78° 23' E Longitude
- 3. Total Area** : 6, 01, 872 ha.
- 4. Area Under Mapping** : 5, 84, 168 ha.
- 5. Miscellaneous Area** : 1, 77, 04 ha. (Stream, Water bodies, Road Habitation)
- 6. Agro Climatic Zone** : Bundelkhand Zone of Central Plateau & Hill region(VIII) as per Planning Commission(Khanna, 1989).
- 7. Period of Survey** : December, 2005 to April, 2006.
- 8. Type of Survey** : Rapid Reconnaissance Survey.
- 9. Base Material Used** : Survey of India Toposheet on 1: 50,000 Scale.

### 13. Priority Categorization:

Sl. No.	Priority Category	No. of Micro watershed	Area (ha.)	Area %
1.	Very High(1300 and above)	129	89932	14.94
2.	High(1200-1299)	73	49194	8.17
3.	Medium(1100-1199)	100	72972	12.12
4.	Low(1000-1099)	145	96635	16.06
5.	Very Low (Below 1000)	423	293139	48.71
	<b>Grand Total</b>	<b>870</b>	<b>601872</b>	<b>100 %</b>

## 16. Salient Features of the Area:

1. The survey area is spread over in Datia, Gwalior, Morena and Shivpur districts of Madhya Pradesh with coverage of 2.38 %, 28.98 %, 3.16 % and 65.48 % respectively.
2. The area under reference is covered by S.O.I. toposheet No. 54 F, G, H, J, and K on 1: 25,000 Scale.
3. The survey area consists of 870 micro watersheds spreading over 601872 ha. and out of that 129 micro watersheds come under very high priority covering 89932 ha.(14.94 %) and only 73 micro watersheds are under in high priority covering 49194 ha.(8.17 %) leaving all other micro watersheds under medium to very low priority.
4. Two hundred two micro watersheds out of 870 micro watersheds consisting 139126 ha.(23.11 %) are placed under high and very high category that need immediate attention for suitable soil water conservation measures under integrated watershed development programme.
5. 2C3C7 watershed has the maximum number of Very high priority category micro watersheds followed by 2C3C5, 2C3C3, 2C3C1, 2C3C6, 2C3C2 & 2C3C4 watershed has high follow by 2C3C3, 2C3C6, 2C3C4, 2C3C7, 2C3C5 & 2C3C1.
6. Shivpuri district has more 80536 ha (13.38%) very high and high priority area followed by Gwalior-48112 ha.(7.99 %), Datia-8218 ha.(1.36 %), Morena -2260 ha.(0.38%) of districts.
7. Major area is under agriculture (52.54 % of the total) which is followed by open scrub(19.35 %), forest land(12.08 %), single crop with grassland, pasture land(9.28 %) and single crop with open scrub(3.81 %) respectively.
8. Moderate to severely eroded(42.46 %), severely eroded(21.93 %), severe to very severely eroded(0.74 %) and very severely eroded 2.08 % land together constitute 67.21 % of the survey area.
9. Nearly 42.41 % of the area is unmanaged and 02.19 % of land is under unmanaged to poorly managed.
10. The soils (deep to very deep) are fertile which respond well to irrigation, variety of agriculture crops and horticulture fruits.