

**Report on Demarcation of Priority Microwatersheds of 2C3E Subcatchment of Sindh Kuanwari FPR Catchment, Bhind, Gwalior, Morena, Sheopur and Shivpuri districts, Madhya Pradesh; Etawah and Jalaun districts, Uttar Pradesh.**

**ABSTRACT**

- 1. Surveyed Area** : 2C3E1-9 watersheds of Sindh Kuanwari FPR Catchment, Bhind, Gwalior, Morena, Sheopur and Shivpuri districts, Madhya Pradesh; Etawah and Jalaun districts, Uttar Pradesh.
- 2. Location** : 25° 39' to 26° 47' North Latitude and 77° 11' to 79° 13' East Longitude
- 3. Total Area Surveyed** : 716548 ha
- 4. Kind of Survey** : Rapid Reconnaissance Survey
- 5. Period of Survey** : December, 2005 – April, 2006
- 6. Agro climatic zone** : VIII - The Central Plateau & Hill Region
- 7. Base Maps** : Survey of India Toposheets on 1:50,000 scale
- 8. Hydrological division** :
- |           |               |  |
|-----------|---------------|--|
| 2         | Region        | Ganges   |
| 2C        | Basin         | Yamuna   |
| 2C3       | Catchment     | Sindh-Kuanwari Complex                               |
| 2C3E      | Subcatchment  | Kuanwari   |
| 2C3E1-E9  | Watersheds    | Lower Kuanwari, Upper Kuanwari, Sorekha, Asan, Sank. |
| 2C3E1a,   | Subwatersheds |  |
| 2C3E1b... |               |  |

## 9. Extent of different Runoff Potential Mapping Units (RPMUs)

Sl.No.	RPMU	Runoff Potential Value	Area (ha)	Percentage
1	AL01	59	66981	9.35
2	AL02	61	2225	0.31
3	AL03	60	52335	7.30
4	AL04	74	2396	0.33
5	AL05	58	153103	21.37
6	AL06	67	2387	0.33
7	AL07	59	496	0.07
8	AL08	63	453	0.06
9	AL09	61	3554	0.50
10	AL10	71	63606	8.88
11	AL11	78	57727	8.06
12	AL12	74	3963	0.55
13	AL13	57	3808	0.53
14	AL14	56	11246	1.57
15	SD01	63	1905	0.27
16	SD02	73	3265	0.46
17	SD03	85	11110	1.55
18	SD04	81	16211	2.26
19	SD05	69	100774	14.06
20	SD06	77	16609	2.32
21	SD07	63	18788	2.62
22	SD08	67	12457	1.74
23	SD09	71	47865	6.68
24	SD10	62	397	0.06
25	SD11	61	1103	0.15
26	SD12	70	198	0.03
27	SD13	59	2138	0.30
28	SD14	62	102	0.01
29	SD15	57	165	0.02
30	SD16	61	10616	1.48
31	SD17	64	1751	0.24
32	SD18	83	10446	1.46
33	SD19	71	25085	3.50
	<b>Sub-Total</b>		<b>705245</b>	<b>98.42</b>
34	HA		6024	0.84
35	RE		2508	0.35
36	RI		2330	0.33
37	RCOC		117	0.02
38	TK		315	0.04
	<b>Sub-Total</b>		<b>11303</b>	<b>1.58</b>
	<b>Total</b>		<b>716548</b>	<b>100.00</b>

## 10. Distribution of Area under Different Priority Categories

Sl. No.	Priority Category	No. of Microwatersheds	Area (ha)	Percentage
1	Very High (above 70)	247	162984	22.75
2	High (66-70)	378	265441	37.04
3	Medium (61-65)	185	134958	18.83
4	Low (56-60)	196	153165	21.38
	<b>Grand Total</b>	<b>1006</b>	<b>716548</b>	<b>100.00</b>

### Districtwise distribution of Area under Different Priority Categories

(Area in ha)

Priority Category	MADHYA PRADESH					UTTAR PRADESH			
	BHINDGARH	WALIOR	MORENA	SHEOPUR	SHIVPURI	TOTAL	ETAWAH	JALAUN	TOTAL
Very High	15924	55485	70708	11495	-	153612	9057	315	9372
High	31438	35439	102559	74855	18180	262471	2970	-	2970
Medium	23748	6235	94750	10225	-	134958	-	-	-
Low	54739	7222	89603	1601	-	153165	-	-	-
<b>Total</b>	<b>125849</b>	<b>104381</b>	<b>357620</b>	<b>98176</b>	<b>18180</b>	<b>704206</b>	<b>12027</b>	<b>315</b>	<b>716548</b>

## 11. Salient Features

- ⇒ Out of 1006 microwatersheds covering an area of 716548 ha under report, 247 microwatersheds covering 162984 ha (22.75%) falls under very high and 378 microwatersheds covering 265441 ha (37.04%) falls under high priority categories. Together it constitutes nearly 59.79%.
- ⇒ About 260868 ha (36.40%) is prone for severe to very severe erosion while 102958 ha (14.37%) is prone for moderate to severe erosion.
- ⇒ Nearly 479031 ha (66.85%) requires suitable soil conservation measures as they are either unmanaged or ill managed.
- ⇒ Dominant landform is Alluvium - 424280 ha (59.21%).
- ⇒ The survey area is made up of 2 landscapes (1) Alluvium 424280 ha (59.21%) (2) Sandstone and shale 280965 ha (39.21%)
- ⇒ Coarse loamy soils 231011 ha (32.24%) and fine loamy to fine soils 221002 ha (30.84%) together constitutes nearly 63% of the soils of the area.