

**Report on Demarcation of Priority Microwatersheds of
Ken (2C1) FPR Catchment (2C1B, 2C1C, 2C1D & 2C1E Subcatchments) of Banda,
Hamirpur & Mahoba districts of Uttar Pradesh and Chhatarpur, Damoh, Jabalpur,
Katni, Narsimhapur, Panna, Raisen, Satna & Sagar districts of Madhya Pradesh**

ABSTRACT

1. **Study Area** : Ken (2C1) FPR Catchment (2C1B, 2C1C & 2C1D, 2C1E Subcatchments) of Banda, Hamirpur & Mahoba districts of Uttar Pradesh and Chhatarpur, Damoh, Jabalpur, Katni, Narsimhapur, Panna, Raisen, Satna & Sagar districts of Madhya Pradesh
2. **Total area** : 28,65,335 ha
3. **Survey Type** : Rapid Reconnaissance Survey for Priority Delineation
4. **Period of Field Survey** : December, 1996 to July, 1997
5. **Mapping Scale** : 1:50,000
6. **Geographical Extent and Location** : 23° 10' to 25° 55' North Latitudes and 78° 30' to 80° 40' East Longitudes
7. **Agro Climatic Zone** : VIII
8. **Base Maps** : Survey of India Toposheets on 1:50,000 Scale
9. **Codification of Hydrological Units** : Region 2
Basin 2C
Catchment 2C1
Subcatchments 2C1B, C, D, E
Watersheds 2C1B1, 2, 3
Subwatershed 2C1B1a, b, c
Microwatershed 2C1B1a1, 2, 3

10. Extent of different Run-off Potential Mapping Units (RPMUs)

(Area in ha)

S. No.	RPMU	Area	%
1.	A01	1,68,002	5.87
2.	A02	64,855	2.26
3.	A03	1,50,479	5.25
4.	A04	17,162	0.60
5.	A05	43,531	1.52
6.	A06	2,895	0.10

S. No.	RPMU	Area	%
7.	A07	1,091	0.04
8.	B01	4,353	0.15
9.	B02	10,571	0.37
10.	B03	2,868	0.10
11.	B04	3,571	0.12
12.	B05	20,244	0.71
13.	B06	11,531	0.40
14.	B07	30,125	1.05
15.	B08	14,033	0.49
16.	B09	13,946	0.49
17.	B10	264	0.01
18.	B11	2,467	0.09
19.	B12	22,554	0.79
20.	B13	302	0.01
21.	B14	4,568	0.16
22.	B15	11,294	0.39
23.	B16	36,733	1.28
24.	B17	15,855	0.55
25.	B18	45,805	1.60
26.	B19	38,097	1.33
27.	B20	7,279	0.25
28.	G01	3,310	0.12
29.	G02	5,421	0.19
30.	G03	5,485	0.19
31.	G04	3,377	0.12
32.	G05	5,532	0.19
33.	G06	10,186	0.36
34.	G07	20,058	0.70
35.	G08	37,468	1.31
36.	G09	6,241	0.22
37.	G10	7,841	0.27
38.	G11	93,181	3.25
39.	G12	36,826	1.29
40.	G13	1,03,120	3.60
41.	G14	1,14,131	3.98
42.	G15	3,557	0.12
43.	S01	5,804	0.20
44.	S02	41,846	1.46
45.	S03	46,520	1.62

S. No.	RPMU	Area	%
46.	S04	18,845	0.66
47.	S05	58,139	2.03
48.	S06	82,682	2.89
49.	S07	1,44,880	5.06
50.	S08	44,636	1.56
51.	S09	35,389	1.24
52.	S10	2,10,770	7.37
53.	S11	1,99,429	6.96
54.	S12	25,627	0.89
55.	S13	58,287	2.03
56.	S14	11,815	0.41
57.	S15	28,552	1.00
58.	S16	38,162	1.33
59.	S17	1,14,455	3.99
60.	S18	2,63,145	9.18
61.	S19	1,01,543	3.54
62.	S20	11,021	0.38
63.	S21	38,422	1.34
64.	S22	3,783	0.13
65.	S23	30,090	1.05
66.	S24	1,627	0.06
68.	H	7,131	0.25
69.	W1	9,155	0.32
70.	W2	33,371	1.16
Total		28,65,335	100.00

11. Distribution of Area under Different Priority Categories

(Area in ha)

S. No.	Priority Category (RPI)	Total MWS	Area (Microwatersheds)			%
			Madhya Pradesh	Uttar Pradesh	Total	
1.	Very High (> 70)	523	4,17,690 (496)	27,9809 (43)	4,45,670 (539)	15.55
2.	High (66 - 70)	1,107	8,94,888 (1,048)	59,139 (72)	9,54,027 (1,120)	33.30
3.	Medium (61 - 65)	1,036	7,76,744 (937)	1,21,973 (121)	8,98,717 (1,058)	31.36
4.	Low (56 - 60)	610	3,91,875 (479)	1,68,865 (147)	5,60,740 (626)	19.57
5.	Very Low (\leq 55)	9	6,181 (9)	-	6,181 (9)	0.22
Total		3,285	24,87,378 (2,969)	3,77,957 (383)	28,65,335 (3,352)	100.00

Note: The total number of Microwatersheds (MWS) in parenthesis is higher because some of the Microwatersheds are falling in both of the State.

12. Hydrological Division of the Survey Area

S. No.	Subcatchment	No. of Watersheds	No. of Subwatersheds	No. of Microwatersheds
1.	2C1B	8	137	897
2.	2C1C	7	125	902
3.	2C1D	7	99	685
4.	2C1E	7	124	801
Total		29	485	3,285

13. Salient Features

- ⇒ Out of the total surveyed area of 28,65,335 ha, 523 microwatersheds have been categorized under very high priority covering an area of 4,45,670 ha (15.55%) and 1,107 microwatersheds have been categorized under high priority covering an area of 9,54,027 ha (33.30%).
- ⇒ Damoh district covers most of the priority area (Very High & High Priority Categories) i.e. 3,63,183 ha followed by Chhatarpur 3,61,242 ha, Panna 2,62,206 ha, Sagar 2,50,792 ha, Banda 59,740 ha, Katni 54,157 ha and Hamirpur 17,726 ha.
- ⇒ Out of the total catchment area, 15.64% is under alluvial landscape, 10.34% is under Basaltic landscape, 56.38% is under Sandstone/Shale landscape and 15.91% is under Granite landscape.
- ⇒ Nearly 1.48% of the total area is under water bodies i.e. river, tanks reservoirs and 0.25% of the total area is under habitats.