

Report on detailed soil survey and land use of Gk3f, Gk3g, Gk3h and Gk3j subwatersheds of Chambal R.V.P. catchment, Tehsil Mehidpur, district Ujjain, M.P.

i. ABSTRACT

1. Survey area : Gk3f, Gk3g, Gk3h and Gk3j, sub-watersheds Chambal RVP catchment Tehsil Mehidpur, district Ujjain M.P.
2. Total area : 12684 hectares
3. Type of soil survey : Detailed soil survey
4. Period of survey : December 1986 to March 1987

5. Soil series mapped and area covered by each series

<u>Sl.No.</u>	<u>Soil series</u>	<u>Area in ha.</u>	<u>Percentage</u>
1.	Antralia (A)	1083	8.84
2.	Baloda (B)	2316	18.26
3.	Harsaur (H)	49	.39
4.	Jaggakheri (J)	1013	7.98
5.	Kamaliakheri (K)	3317	26.15
6.	Kanjiya (KJ)	656	5.18
7.	Runeja (R)	1067	8.41
8.	Sarol (S)	1830	14.43
9.	Miscellaneous	1353	10.66
	Grand Total	12684	100.00

6. Land capability classifications

<u>Sl.No.</u>	<u>Land capability class</u>	<u>Area in ha.</u>	<u>Soil series</u>
<u>Arable lands</u>			
1.	II - Good land minor limitations	3762	Antralia, Baloda Harsaur, Jaggakheri, Kanjiya and Sarol
2.	III - Moderately good land moderate limitation	3207	Antralia, Baloda Jaggakheri, Kamaliakheri, Kanjiya & Sarol
3.	IV - Marginal land, major limitations	3295	Antralia, Jaggakheri, Kamaliakheri
		10264	
<u>Non arable lands</u>			
4.	VI - Well suited for grazing or forestry	1067	Runeja
5.	Miscellaneous lands	1353	
	Total	12684 ha.	

7. Erosion Inventory

<u>Erosion class</u>	<u>Area in ha.</u>	<u>Percentage</u>
Slight to none	558	4.4
Moderate	7195	56.7
Severe	3578	28.2
Very severe (gullied lands)	170	1.4
Miscellaneous lands	<u>1183</u>	<u>9.3</u>
Total	12684	100.0

8. Salient features

1. About 1067 ha. (8.4%) of the total area is under very shallow to shallow soils
2. About 170 ha. (1.4%) of the total area is under gullied lands
3. An area of 10773 ha. (84.9%) of lands of the total surveyed area suffer from moderate to severe erosion hazard.