

Report on detailed soil survey and land use of Mp1a, Mp1b, Mp1c, Mp1d, Mp1f, Mp1g, Mp1h and Mp1j subwatersheds of Matatilla R.V.P. Catchment, Tehsil Bina, Khurai dsistrict, Sagar and Tehsil Kurwai district Vidisha (M.P).

ABSTRACT

1. Survey area : Mp1a, Mp1b, Mp1c, Mp1d, Mp1f, Mp1g, Mp1h, Mp1j subwatersheds, Matatilla RVP catchment, Tehsil Bina, Khurai dsistrict, Sagar, Tehsil Kurwai, District Vidisha, M.P.
2. Total area : 20,353 hectares
- 3.a. Kind of survey : Detailed soil survey
4. Period of survey : November 1988 to March 1989
5. Soil series mapped and covered by each series

<u>Soil series</u>	<u>Area in ha.</u>	<u>Percentage</u>
1. Antralia	828	4.0
2. Baloda	1364	6.6
3. Bilharu	39	0.2
4. Jaggakheri	118	0.5
5. Kamaliakheri	18	0.1
6. Runeja	77	0.3
7. Sarol	16250	80.0
8. Tilla	60	0.3
Sub- Total	18754	91.7
Miscellaneous land		
i) Gullied land	56	0.2
ii) Under waterr	239	1.4
iii) Habitation, road etc.	1304	6.4
Total	20353	100.0

6. Land capability classification.

Land capability classes Area in hect. Soil series

Arable lands

1. II Good lands minor limitation	14799	Baloda Jaggakheri Sarol Tilla
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6. Land capability classification (contd.)

2.	III	Moderately good land moderate limitations	3748	Antralia Baloda Jaggakheri Sarol. Tilla
3.	IV	Marginal lands major limitations	91	Antralia Jaggakheri Kamalia- kheri
<u>Non arable lands</u>				
4.	VI	Grass and forest land	116	Bilharu Runeja
5.		Miscellaneous lands	<u>1598</u>	
			Total	20353 ha.

7. Salient features

- a) Of the total area of 20353 hectares, nearly 18621 hect. (91.4%) are suitable for agriculture.
- b) Nearly 134 hectares (0.6%) of the total area is under very shallow to shallow soils and requires good forest ranges and grass management.
- c) Of the total surveyed area 2769 hectares (13.6%) suffer from severe erosion and 11935 hectares (58.6%) form moderate erosion.
- d) Of the 8 soil series, Sarol is most extensive and covers 16,250 hectares (80%) of the total survey area.
- e) About 55 hectares have been mapped as gullied land which need special reclamation measures including gully control.