

Report on detailed soil survey and land use of Gh2j, Gh2k, Gh2m, Gh2n and Gh2p subwatersheds, Chambal RVP catchment (above Gandhi Sagar dam), Tehsil Tarana and Mahidpur, District Ujjain, Madhya Pradesh.

ABSTRACT

1. Survey area Gh2j, Gh2k, Gh2m, Gh2n and Gh2p subwatersheds, Chambal RVP catchment (above Gandhi sagar dam) Tehsil Tarana and Mahidpur, district, Ujjain, Madhya Pradesh.
2. Total area 13,774 hectares
3. a) Kind of survey Detailed Soil Survey
b) Period of survey Dec. 1989 to May 1990
c) Agroclimatic region Central plateau and hill region

4. Soil series mapped with their extent

<u>Soil series</u>	<u>Area in ha.</u>	<u>Percentage</u>
1. Baloda	5507	40.0
2. Gabapura	61	0.4
3. Harsaur	47	0.3
4. Jaggakheri	1909	13.9
5. Kamaliakheri	4215	30.6
6. Runeja	533	3.9
7. Sarol	1310	9.5
8. Misc. Land	192	1.4
Grand total	13774	100.0%

5. Land capability classification

<u>Land capability</u>	<u>Area in ha.</u>	<u>Soil series</u>
1. II	4941	Baloda, Sarol, Jaggakheri, Harsaur
2. III	6234	Baloda, Sarol, Gabapur, Jaggakheri, Harsaur
3. IV	1874	Kamaliakheri
4. VI	533	Runjea
5. Misc. Land	192	
Grand Total	13774	

6. Salient features

a) Out of total area of 13774 ha. 13049 ha. (94.7%) is suitable for agriculture.

b) 533 ha. (3.9%) land is under very shallow to shallow soils and requires adequate soil and water conservation measures for pasture and grassland development.

c) 2279 ha. (16.5%) suffer from severe erosion and needs immediate soil conservation measures (72.8%) area is under moderate erosion.

d) Out of the severe soil series Baloda & Kamalaikheri series are quite extensive where Baloda occupies 5507 ha. (40%) and Kamaliakheri 4215 ha. (30.6%).

e) The misc. land occupies 192 hectares (1.4%) which includes habitation, tanks, roads, etc.