Report on Detailed Soil Survey and Land Use of Gh1b, Gh1c, Gk1c and Gk1d subwatersheds of Chambal ___Catchment ___ (above Gandhi sagar dam) Tehsil Gangdhar, Distt: Jhalawar Rajasthan and Tehsil Alot, Distt: Ratlam M.P.

ABSTRACT

1. Survey Area : Gh1b, Gh1c, Gk1c and Gk1d subwatershed Chambal R.V.p. above Gandhi Sagaradam, Tehsil Jhalawar Distt: Rajasthan and Tehsil Alot Ratlam Distt: M. P.

2. Total area : 10,882 hectares

3. a. Kind of Survey Detailed Soil Survey

b. Period of December 1983 to Survey March 1984.

4. Soil Series mapped and area covered by each series

2	Soil Series	Area in ha	Percent
1.	Antralia	733	6.7
2.	Baloda	2294	21.1
3.	Gabapura	245	2.2
4.	Harsaur	147	1.3
5.	Jaggakheri	255	2.3
6.	Kamlia kheri	3075	28.3
7.	Panchdaria	1440	13.3
8.	Runeja	988	9.1
9.	Sarol	550	5.1
10.	Miscellaneous land	1155	10.6
G	rand Total -	10882	100.0
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5. Land capability clarifications:

S. No. Land capability Area in Soil Series class. ha.

1. II - Good land minor Arable Landsntralia, Baloda, Harsaur limitations 1903 Jaggakheri, Sarol.

2. III- Moderately good land 2525 Antralia, Baloda, Gabapura Kamliakheri, Harsaur, Jaggakheri, Sarol.

3. IV Marginal land, major 2871 Antralia, Baloda, Gabapura Kamliakheri, Jaggakheri

4. VI Grass & Forest land 2428 Runeja and Panchdaria

5. Miscellaneous land 1155
Total 10,882

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6. Salient features :

- a. Of the total area of 10882 hectares, nearly 7299 hectares (67.1%) are suitable for agriculture.
- b. Nearly 22.4% 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, 4680 hectares (3.%) suffer from severe erosion and 4156 hectares (38.2%) from moderate erosion.
- d. Of the 9 soil series, Kamliakheri (28.3%), Baloda (21.1%) Panchdaria (13.3%) and Runeja (9.1%) series are extensive soils.
 - Although Antralia series covers 733 hectares (6.7%) of the total area it suffers from moderate to severe erosion and needs immediate attention.
- e. About 596 hectares have been mapped as gullied land which need special reclamation measures including gully control.

HOW TO USE SOIL SURVEY REPORT

In the soil mapping units, each mapping unit is marked by a mapping symbol, such as, B5rB2 which gives abbreviated soil series name 'B' for Baloda series; soil depth '5' for very deep soils; soil type 'r' clay; slope class 'B' for 1-3% slopes; and erosion class '2' for moderate erosion.

For the use of soil survey report, first locate the area that you are/interested in on the map and note down the soil mapping unit. Permanent features, such as, roads, cart tracks, ponds, streams, village habitation, etc. are shown on the map and would help to locate the area of interest on the map.

From the "Guide to soil mapping Units" (Appendix-1), read the details of the soil mapping unit of your interest, such as, its area, interpretative groups for various use purposes, etc.

For detailed information on soil series, profile descriptions and other soil characteristics, refer to the chapter-4 on "Description of the soils" and also appendix-2 for technical descriptions of the soil series. The physicochemical character can be obtained from appendix - 3.

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