Detailed soil survey of Mm1b, Mm1c, Mm4a, Mm4b, Mm4c, Mm4d, Mm4f and Mm4g subwatersheds (Narain Nadi) ,Matatilla RVP catchment, Tehsil - Bina and Khurai, District - Sagar (M.P)

ABSTRACT

1. Survey area : Mm1b, Mm1c, Mm4a, Mm4b, Mm4c, Mm4d, Mm4f and Mm4g subwatersheds (Narain Nadi) Matatilla RVP Catchment, Tehsil Bina and Khurai, District - Sagar (M.P)

Total area : 17953 ha.

Type of survey : Detailed Soil Survey

Soil series mapped and area covered under each series :

S.No.	SOIL SERIES	Area(ha.)	Percent
1.	Antralia	61	0.3
2.	Baloda	484	2.7
3.	Dewal	1675	9.3
4.	Dewal Forest	1216	6.8
5.	Jaggakheri	201	1.1
6.	Kamliakhedi	388	2.2
7.	Kanjiya	525	2.9
8.	Niwari Bharuwa	34	0.2
9.	Panchdaria	142	0.8
10.	Piprasar	105	0.6
11.	Runeja	236	1.3
12.	Sarol	11215	62.5
13.	Dewal + Dewal Forest	794	4.4
SUB TOTAL		17076	95.1
Misc.		877	4.9
Grand Total		17953	100.0

Area under different land capability

s.no.	Land capability class	SOIL SERIES	Area (ha.)	Percent
		ARABLE LANDS		
1.	II	Antralia, Baloda, Jaggakhedi, Kamlia , Piprasar and Sarol	12027	67. 0
2.	III.	Antralia, Baloda, Dewal Forest Jaggakhedi, Kamliakhedi, Kanjiya, Niwari Bharuwa and Sarol.	1341	7.5
3.	IV	Dewal Forest, Kamliakhedi Niwari Bharuwa and Piprasar	861	4.8
		NON ARABLE LANDS		
4.	VI	Dewal, Panchdaria, Runeja and Dewal + Dewal Forest	2847	15.8
5.		Miscellaneous lands	877	4.9
			17953	100.00

7. Area under erosion phases

S.No.	Erosion classes	Area (ha.)	Percent
1.	None to slight	9724	54.1
2.	Moderate	3754	21.1
3.	Severe	3598	19.9
	Sub total	17076	95.1
	Miscellaneous lands	877	4.9
	GrandTotal	17953	100.0

SALIENT FEATURES :

1. Of the total area, 3598 ha.(19.9%) of land suffer from severe erosion hazard.

2. An area of 12285 hactares (68.4%) is very deep, 306 ha. (1.7%) deep, 1638 ha. (9.2%) moderately deep, 794 ha (4.4%) of land shallow + moderately deep and 2053 ha. (11.4%) are shallow soils.

3. 14229 ha. (79.3%) and 2347 ha (10.8%) of total are covered under arable and non-arable land respectively