

Detailed soil survey and land use of  
Mp1k, Mp3a, Mp3b, Mp3c, Mp3d, Mp3f, Mp3g,  
Mp3h, Mp3j, Mp3k and Mp3m subwatersheds,  
Matatilla RVP Catchment, Tehsil Kurwai,  
Distt. Vidisha, Tehsil Bina and Khurai,  
Distt. Sagar, Madhya Pradesh.

ABSTRACT

1. Survey area:
- a) Hydrologic Units  
Mp1k, Mp3a, Mp3b, Mp3c, Mp3d,  
Mp3f, Mp3g, Mp3h, Mp3j, Mp3k and  
Mp3m subwatersheds, Matatilla  
RVP catchment
  - b) Administrative  
details  
Tehsil Kurwai Distt. Vidisha;  
Tehsil Bina and Khurai Distt.  
Sagar, Madhya Pradesh
  - c) Geographical  
details  
Latitudes  $23^{\circ}54'30''$  to  $24^{\circ}10'30''$ N  
Longitudes  $78^{\circ}8'15''$  to  $78^{\circ}20'30''$  E
- Total area : 21597 ha.
- Kind of Survey : Detailed soil and land use Survey
- Period of Survey : December 89 to March, 90  
and December 90 to March 91

5. Soil series mapped and area under each series :

S.No1	Soil series	Area (ha.)	Percentage
1.	Antialia	792	3.7
2.	Baloda	136	0.6
3.	Bilharu	22	0.1
4.	Jaggakheri	1975	9.2
5.	Kamliakheri	601	2.8
6.	Malhargarh	718	3.3
7.	Runeja	480	2.2
8.	Sarol	14215	65.8
9.	Sarol Antialia	1310	6.1
SUB TOTAL		20249	93.8
10.	Miscellaneous lands	1348	6.2
GRAND TOTAL		21597	100.00

6. Land capability classes

S.No.	Land capability class	Soil series	Area (ha.)	Percentage
<u>ARABLE LANDS</u>				
1.	II	Baloda, Jaggakheri and Sarol	13493	62.5
2.	III	Antralia, Jaggakheri, Kamliakheri and Sarol	832	3.9
3.	IV	Antralia, Baloda, Bilharu, Jaggakheri, Kamliakheri, Runeja, Sarol and Complex of Sarol + Antralia	4820	22.3
		Sub total	<u>19145</u>	<u>88.7</u>
<u>NON ARABLE LANDS</u>				
4.	VI	Antralia and Malhargarh	1104	5.1
5.		Miscellaneous lands	1348	6.2
		Grand Total	<u>21597</u>	<u>100.00</u>

7. Area under different erosion classes

S.No.	Erosion classes	Area (ha.)	Percentage
1.	None to slight (e1)	3213	14.9
2.	Moderate (e2)	11112	51.5
3.	Severe (e3)	5538	25.6
4.	Very severe (e4)	386	1.8
5.	Miscellaneous lands	1348	6.2
		<u>21597</u>	<u>100.0</u>

