

# Report on Detailed Soil Survey and Land Use of Rd9f Subwatershed of Rupnarayan Catchment (F.P.R.), P.S. Goaltore and Sarenga, Districts Medinipur and Bankura, West Bengal.

## Abstract

1. **Survey Area:** Rd9f Subwatershed of Rupnarayan Catchment (F.P.R.) under Goaltore and Sarenga P.S. in Medinipur and Bankura districts of West Bengal.
2. **Location and Extent:** 22<sup>o</sup>45' 6" to 22<sup>o</sup>48' 9" N latitude.  
87<sup>o</sup>2' 13" to 87<sup>o</sup>8' 4" E longitude.
3. **Total Area Mapped:** 4121 ha
4. **Type of Survey:** Detailed Soil Survey.
5. **Period of Survey:** May 1998 to June 1998.
6. **Agroclimatic Zone:** Lower Gangetic Plain (Zone no. III) as per planning commission (1989).

## 7. Soil Series Mapped and their Area Extent.

Sl. No.	Soil Series	Area (ha)	Percentage
1.	Argora (AG)	174	4.2
2.	Radhadamodarpur (RD)	157	3.8
3.	Dobati (DB)	245	5.9
4.	Madnahari (M)	415	10.1
5.	Jamusal (JS)	413	10.0
6.	Illumbazar (IB)	2323	56.4
7.	Mehagram (MG)	258	6.3
8.	Misc.	136	3.3
	<b>Total</b>	<b>4121</b>	<b>100.0</b>

## 8. Area Distribution under Different Land Capability.

Sl. No.	Land capability Class	Area (ha)	Percentage
1.	II	3415	82.9
2.	III	157	3.8
3.	IV	121	2.9
4.	VI	292	7.1
	<b>Total</b>	<b>3985</b>	<b>96.7</b>
5.	Misc.	136	3.3
	<b>Grand Total</b>	<b>4121</b>	<b>100.0</b>

## 9. Specific Problems and their Extent.

Sl. No.	Problems	Area (ha)	Percentage
1.	Severe Erosion	117	4.3
2.	Very Severe Erosion	122	3.0

### Salient Features:

- The subwatershed is dominated by very deep soil (82.7%).
- The surveyed area is nearly level to gently sloping where 3822 ha (92.7%) falls under very gentle sloping category.
- Only 7.3% area of the subwatershed is subjected to severe and very severe erosion.
- About 86.7% of the surveyed area is found to be suitable for cultivation.