

REPORT ON DETAILED SOIL SURVEY AND LAND USE  
OF Mc2b, Md1a, Md1f, Me1a, Me1b, Me2a AND Me2j  
SUB-WATERSHEDS, MAYURAKSHI CATCHMENT,  
DISTRICT DUMKA (SANTAL PARGANAS), BIHAR

A B S T R A C T

1. Surveyed area: Mc2b, Md1a, Md1f, Me1a, Me1b, Me2a and Me2j sub-watersheds, Mayurakshi catchment, District Dumka (Santal Parganas), Bihar P.S. Dumka, Jama, Jarmundi, Mohanpur, Rangarh and Saraiyahat.
2. Total area: 23067 ha.
3. Type of survey: Detailed soil survey.
4. Period of survey: December, 1992 to June, 1993.
5. Agroclimatic zone: 8 ( High rainfall, high run-off Chhotanagpur Plateau and adjoining areas of West Bengal and Orissa).

## 6. Soil series, their extent and percentage.

<u>Sl.No.</u>	<u>Soil series name</u>	<u>Total area (in ha.)</u>	<u>Percentage</u>
1.	Amra	694	3
2.	Balia	6992	30.3
3.	Belguna	2725	11.8
4.	Dunka	1699	7.4
5.	Jamkati	302	1.3
6.	Jama	2009	8.7
7.	Karaya	725	3.2
8.	Kanchampur	517	2.2
9.	Kanti	67	0.3
10.	Lachimpur	392	1.7
11.	Pusaro	1415	6.1
12.	Sarua	3892	16.9
	Total:	21429	92.9
	Misc.	1638	7.1
	Grand total:	23067	100

## 7. Land capability classes:

<u>Land capability class</u>	<u>Area (in ha.)</u>	<u>Percentage</u>
II	13776	59.7
III	2503	10.8
IV	2253	9.8
VI	2203	9.6
VII	694	3.0
Misc.	1638	7.1
Total:	23067	100

### 8. Soil erosion:

<u>Nature of erosion</u>	<u>Area ( in ha.)</u>	<u>Percentage</u>
None to slight erosion.	8230	35.7
Moderate erosion	7247	31.4
Severe erosion	3363	14.6
Very severe erosion	2589	11.2
Misc.	1638	7.1
Total:	23067	100

### Salient features:

Out of the total area about 5952 ha. (25.8%) area suffer from severe to very severe erosion and need immediate attention.

About 2393 ha. (10.4%) area is under shallow soils and need special attention.

About 2501 ha. (10.8%) area is not suitable for agriculture but suitable for afforestation and pasture development.