

Report on Detailed Soil Survey and Land Use of Ha6g, Ha6h, Ha6m and Ha6w Subwatersheds, Hirakud (RVP) Catchment, Distt Sambalpur and Sudergarh, Orissa.

ABSTRACT

1. **Survey Area:** Priority Subwatersheds No. Ha6g, Ha6h, Ha6m and Ha6w.
2. **Total Area Surveyed:** 15,729 ha.
3. **Number of Villages:** 22
4. **Period of Survey:** January, 2000 to June, 2000
5. **Type of Survey:** Detailed Soil Survey
6. **Agroclimatic Zone:** VII Eastern Plateau & Hill Region or I North West Plateau Region.
7. **Soil Series Mapped & their Distribution:**

S. No.	Name of the Series	No. of mapping units	Total Area (ha)/%	Sub-Watershed Wise Area (ha)/%			
				Ha6g	Ha6h	Ha6m	Ha6w
1.	Amwatikar (AT)	03	7759 (49.3)	1419 (9.0)	2378 (15.1)	1406 (8.9)	2556 (16.3)
2.	Chirkunda (CK)	02	248 (1.6)	138 (0.9)	21 (0.1)	78 (0.5)	11 (0.1)
3.	Jugrat (JT)	03	972 (6.2)	608 (3.9)	36 (0.2)	217 (1.4)	111 (0.7)
4.	Kanika (KK)	04	1996 (12.7)	713 (4.5)	325 (2.1)	647 (4.1)	311 (2.0)
5.	Kinamar (KM)	02	3631 (23.1)	587 (3.7)	1858 (11.8)	448 (2.9)	738 (4.7)
6.	Victoria (VT)	02	858 (5.4)	278 (1.8)	298 (1.9)	151 (0.9)	131 (0.8)
	Total	16	15464 (98.3)	3743 (23.8)	4916 (31.3)	2947 (18.7)	3858 (24.5)
	Miscellaneous area like road, river, nala, habitation etc.		265 (1.7)	140 (0.9)	34 (0.2)	59 (0.4)	32 (0.2)
	Grand Total		15729 (100)	3883 (24.7)	4950 (31.5)	3006 (19.1)	3890 (24.7)

8. Area under different Land Capability Classes:-

S. No.	Land Capability Classes	Total Area (ha)/Percentage	Name of the Soil Series
1.	II	1388 (8.8)	Chirkunda, Jugrat and Victoria
2.	III	789 (5.0)	Jugrat, Kanika and Victoria
3.	IV	1897 (12.1)	Kanika
4.	VI	3875 (24.6)	Amwatikar, Kanika and Kinamar
5.	VII	7515 (47.8)	Amwatikar
	Miscellaneous area	265 (1.7)	
	Grand Total	15729 (100)	

9. Salient features:

S. No.	Particulars	Area (ha)	Percentage
1.	Total area surveyed	15729	100
2.	Miscellaneous area	265	1.7
3.	Land suitable for cultivation	3870	24.6
4.	Land suitable for afforestation and pasture development	11594	73.7
5.	Good cultivable lands	1388	8.8
6.	Moderately good cultivable lands	789	5.0
7.	Fairly good cultivable lands	1693	10.8
8.	Shallow soils	11390	72.4
9.	Deep soils	1996	12.7
10.	Very deep soils	2078	13.2
11.	Slightly eroded soils	1388	8.8
12.	Moderately eroded soils	789	5.0
13.	Severely eroded soils	13287	84.5
14.	Slightly stony & rocky area	791	5.0
15.	Severely stony & rocky area	11594	73.7
16.	Area free from stones & rocks	3079	19.6
17.	Bunded lands	1388	8.8
18.	Partially bunded lands	240	1.5
19.	Unbunded lands	13836	88.0
20.	Area having high water table	248	1.6