

Report on Detailed Soil Survey and Land Use of Ha5k, Ha5n, Ha5r and Ha5u subwatersheds Hiraakud catchment, Tahsil - Kuchinada and Deogarh, District Sambalpur, State Orissa.

A B S T R A C T

- 1(a) Surveyed area : Ha5k, Ha5n, Ha5r and Ha5u subwatersheds ; Hiraakud catchment, Orissa State.
- (b) Type of Survey : Detailed Soil Survey
- (c) Base map : Aerial photographs
- (d) Scale : 1:15,000
- 2(a) Total area mapped: 11510 Ha. and reported
- (b) Period of Survey : November 93 to March 94.
3. Distribution of area under different soil series :

Sr. No.	Name of Series	Total area in (ha)	Percentage
1.	Debrigarh	239	(2.1)
2.	Deodarha	500	(4.0)
3.	Gaurpali	1160	(10.0)
4.	Khajuriya	621	(5.4)
5.	Kholdih	2610	(22.7)
6.	Ramedega	5926	(51.5)
Total		11056	(100)
Other features like Rock out, crops, Tanks, habitation, Road, rivers, nala etc.		454	
Grand Total		11510	

4. Land capability classes :

Capability class	Total area (ha)	Distribution of area under subwatersheds (in ha)				Soil series
		Ha5k	Ha5n	Ha5r	Ha5u	
II	970 (21.4)	134 (13.6)	141 (24.0)	154 (18.0)	541 (25.6)	Gourpali, Kholdihi
III	1465 (32.3)	337 (34.4)	140 (23.9)	269 (31.4)	719 (34.0)	Debrigarh, Gourpali, Khajuria & Kholdihi
IV	1602 (35.3)	459 (46.9)	141 (24.0)	392 (45.8)	610 (28.9)	Deodarha, Khajuria and Kholdihi
VII	500 (11.0)	50 (5.1)	165 (28.1)	41 (4.8)	244 (11.5)	Ramadega
Total	4537	980	587	856	2114	
%	(100)	(100)	(100)	(100)	(100)	

Area under Reserve Forest 6519

5. Specific Problems

Nature of Problems	Area in Hectare				Total	Associated soils
	Ha5k	Ha5n	Ha5r	Ha5u		
Slight erosion	61	59	48	146	314	Gaurpali,
Moderate erosion	517	313	423	1198	2451	Debrigarh, Gourpali, Khajuria & Kholdihi
Severe erosion	1421	3493	1670	1707	8291	Deodarha, Khajuria, Kholdihi and Ramedega
Total	1999	3865	2141	3051	11056	