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REPORT ON PRIORITY DELINEATION OF SUB-WATERSHEDS IN THE Ha SUB-CATCHMENT OF HIRAKUD R.V.P. OF SAMBALPUR AND SUNDARGARH DISTRICTS OF ORISSA, RAIGARH OF M.P. AND GUMLA DISTRICT OF BIHAR.

A B S T R A C T

1. Survey areas " " Ha sub-catchment of Hirakud R.V.P. catchment.
2. Locations
- a) Latitudes- 21° 26' to 22° 28' N.
- b) Longitudes- 80° 22' to 84° 48' E.
- c) Agroclimatic regions- VII. The Eastern Plateau and Hill Region
3. Total areas 6, 70, 480 ha.
4. Type of surveys- Rapid Reconnaissance survey.
5. Period of survey- 12/85 to 6/86
6. Base maps- Survey of India topographical map of 1 :50, 000
7. Hydrological sub-divisions-
- a) Catchments H (Hirakud)
- b) Sub-catchment Ha
- c) Watersheds 12
- d) Sub-watersheds 260
8. Area under mappings- 6, 65, 949 ha.
9. Misc. area under stream and water bodies etc 4, 531 ha.
10. Areal extent of different erosion intensity mapping units-

Sl.No.	mapping unit	weightage	Delivery ratio	Area ha.	Percentage of the total
1.	2.	3.	4.	5.	6.
1.	A	11	60	86, 606	13.0
2.	B	12	65	1, 44, 692	21.7
3.	C	15	80	87, 876	13.2
4.	D	15	85	1, 28, 589	19.3

1.	2.	3.	4.	5.	6.
5.	E	22	0.95	8, 022	1.2
6.	F	14	0.85	10, 038	1.5
7.	G	16	0.85	19, 706	3.0
8.	H	17	0.90	22, 296	3.3
9.	J	15	0.80	11, 699	1.8
10.	K	15	0.90	1, 36, 329	20.5
11.	L	16	0.85	5, 912	0.9
12.	M	20	0.90	4, 184	0.6
12				6, 65, 949	100.0

11. Gradation of sub-watersheds into priority categories

Sl.No.	Priority category	No. of sub-watershed	Area(ha.)	Percent
1.	Very high	17	53, 920	8.1
2.	High	38	1, 06, 251	16.0
3.	Medium	64	1, 68, 886	25.3
4.	Low	69	1, 67, 775	25.2
5.	Very low	72	1, 69, 117	25.4
TOTAL		260	6, 65, 949	100.0

12. Watershedwise distribution pattern of the priority sub-watersheds into priority categories:

Sl. No.	Watershed code	Priority grouping, Number and area in ha.					Total
		Very high	High	Medium	Low	Very low	
1.	2.	3.	4.	5.	6.	7.	
1.	Hal	1 4005	4 9491	11 30,886	5 15,664	4 8974	25 69,020
2.	Ha2	- -	1 2,455	4 8,019	- -	5 9,931	10 20,405

1.	2.	3.	4.	5.	6.	7.	8.
3.	Ha3	3 9,467	5 15,489	5 14,731	7 22,515	5 14,208	25 76,410
4.	Ha4	- -	- -	4 11,570	10 27,805	11 34,633	25 74,008
5.	Ha5	5 14,576	6 19,447	10 29,157	1 1,299	3 5,400	25 69,879
6.	Ha6	3 11,158	5 15,800	5 12,971	4 11,980	5 16,130	22 68,039
7.	Ha7	4 12,712	7 18,324	7 19,947	5 11,831	2 4,681	25 67,495
8.	Ha8	- -	1 2,868	5 9,439	10 20,703	7 15,404	23 48,414
9.	Ha9	- -	1 1,824	4 11,751	9 22,296	8 18,490	22 54,361
10.	Ha10	- -	5 14,459	2 3,458	7 13,841	8 16,359	22 48,117
11.	Ha11	- -	3 6,094	5 12,612	5 9,046	11 17,769	24 45,521
12.	Ha12	1 2,002	- -	2 4,345	6 10,795	3 7,138	12 24,280
TOTAL:		12 53,920 8.1 %	17 1,06,251 16.0 %	38 1,68,886 25.3 %	64 1,67,775 25.2 %	69 1,69,117 25.4 %	260 6,65,949 100.0

**13. Statewise and districtwise distribution of priority area ha. with Percentages**

Sl. No.	Priority grouping	Orissa		M.P.	Bihar	Total
		Sambalpur	Sundargarh	Raigarh	Gumla	
1.	Very high	21,665 (3.3)	29,996 (4.5)	2,259 (0.3)	-	53,920 (8.1)
2.	High	42,006 (6.3)	64,245 (9.7)	-	-	1,06,251 (16.0)
3.	Medium	1,08,133 (16.2)	59,073 (8.9)	-	1,680 (0.2)	1,68,886 (25.3)
4.	Low	91,726 (13.8)	76,049 (11.4)	-	-	1,67,775 (25.2)
5.	Very low.	1,13,383 (17.0)	55,604 (8.3)	-	130 (0.1)	1,69,117 (25.4)
<b>Grand Totals:</b>		<b>3,76,913</b> <b>(56.6)</b>	<b>2,84,967</b> <b>(42.8)</b>	<b>2,259</b> <b>(0.3)</b>	<b>1,910</b> <b>(0.3)</b>	<b>6,65,949</b> <b>(100.0)</b>