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REPORT ON DEMARCATION OF PRIORITY SUBWATERSHEDS IN THE
HIRAKUD RIVER VALLEY PROJECT CATCHMENT (MAHANADI RIVER)
MADHYA PRADESH AND ORISSA STATES.

ABSTRACT

1. Surveyed area : Part of Hirakud R.V.P. Catchment
(Mahanadi river)
2. Base material : Survey of India Toposheet (1:63,360)
3. Total area : 21,47,223 ha (19,45,045 M.P.)
2,02,178 orissa)
4. Type of survey : Rapid Reconnaissance for identification
of priority watersheds.
5. Period of survey : November 1979 to June 1984.
6. Extent of areas under different erosion intensity mapping
units.

Mapping Units	Area in ha	% age	Mapping Unit	Area in ha	% age
A	42,245	2.0	L	1,04,777	4.9
B	1,26,771	6.0	M	21,120	1.0
C	2,26,346	10.5	N	12,546	0.6
D	1,16,621	5.4	P	2,23,742	10.4
E	1,55,206	7.2	R	2,04,785	9.5
F	3,79,302	17.7	S	29,625	1.4
G	3,24,403	15.1	T	40,342	1.9
H	67,509	3.1	U	32,196	1.5
J	31,170	1.4	RC (Rockout crop)	8,517	0.4

7. a) Catchment - Part of Hirakud R.V.P. Catchment (MahanaJi)
 b) Subcatchments - 5
 c) Watersheds - 37
 d) Subwatersheds - 482

8. Gradation of priority subwatersheds :

Sr. No.	Priority Category	Silt Yield Index range	No. of subwatersheds	Area in ha	Percentage of total area
1.	Very high	1300 & above	-	-	-
2.	High	1200-1299	13	53,520	2.5
3.	Medium	1100-1199	37	1,53,378	7.1
4.	Low	1000-1099	103	4,27,987	19.9
5.	Very low	Below 1000	329	15,12,338	70.5
Total :			482	21,47,223	100.0

9. Area falling under Madhya Pradesh :

Sr. No.	Priority Category	Silty Yield Index range	No. of subwatersheds	Area in ha	% age of total area
1.	Very high	1300 & above	Nil	Nil	Nil
2.	High	1200-1299	7	29,505	1.5
3.	Medium	1100-1199	28	1,17,887	6.1
4.	Low	1000-1099	89	3,76,121	19.3
5.	Very low	Below 1000	312	14,21,532	73.1
Total :			436	19,45,045	100.0

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10. Area falling under Orissa :

Sr. No.	Priority category	Silt Yield Index range	No. of subwatersheds	Area in ha	Percentage of total area
1.	Very high	1300 & above	Nil	Nil	Nil
2.	High	1200 -1299	6	24,015	11.9
3.	Medium	1100-1199	9	35,491	17.5
4.	Low	1000-1099	14	51,866	25.7
5.	Very low	Below 1000	17	90,806	44.9
Total :			46	2,02,178	100.0