

Report on prioritisation of watersheds in Kunda catchment,  
River Valley Project in Kerala and Tamilnadu States.

i. ABSTRACT

1. Surveyed area : Kunda catchment in Kerala and Tamilnadu state.
2. Location : 76°33' to 76°48' longitude and 11°12' to 11°24' N latitude.
3. Total area : 65,980 hectares
4. Period of survey : January 1989 to March 1989
5. Type of survey : Rapid reconnaissance survey
6. Base material : Survey of India toposheets of 1:50,000 scale
7. Aerial extent of erosion intensity mapping units

Sl. No.	Erosion Intensity mapping units	Area in ha.	Percentage	Sl. No.	Erosion Intensity Mapping Units	Area in ha.	Percentage
1.	C	1027	1.5	11.	T	3958	6.0
2.	F	2627	4.0	12.	T1	13306	20.2
3.	F1	4313	6.5	13.	T2	15975	24.2
4.	F2	6056	9.2	14.	V	1304	2.0
5.	F3	1821	2.8	15.	R	797	1.2
6.	F4	2549	3.9	16.	River	123	0.2
7.	F5	5240	7.9	17.	Reservoir	1784	2.7
8.	P	1895	2.9				
9.	P1	1431	2.1		Total	65980	100.0
10.	P2	1774	2.7				

8. Hydrological division

- a. Catchment - Kunda 'K'
- b. Subcatchment - Ka, Kb, Kc etc.
- c. Watersheds - 30 - Ka1, Ka2 etc.

9. Soil erosion hazard

Sl.No.	Erosion	Area in hectares	Percentage
1.	Slight	18,568	28.2
2.	Moderate	18,354	27.8
3.	Moderate to severe	26,354	39.9
	Miscellaneous	2,704	4.1
	Total	65,980	100.0

10. Priority classification

Sl. No.	Priority Category	Silt yield index range	Area in hectares			Percentage
			Kerala	Tamilnadu	Total	
1.	Very high	1250 & above	-	-	-	
2.	High	1200 - 1249	2253(1)	4762 (2)	7015 (3)	10.6
3.	Medium	1100 - 1199	-	6895 (3)	6895 (3)	10.5
4.	Low	1000 - 1099	-	4007 (1)	4007 (1)	6.1
5.	Very low	Less than 1000	-	48063 (23)	48063 (23)	72.8
Total			2253(1)	63727(29)	65980 (30)	100.0

Salient features: Out of 65,980 hectares, only 7015 hectares (10.6%) spread over 3 watersheds is prioritized as high.