

Report on Reprioritisation of Subwatersheds of Tenughat Dam Catchment (2A2H1-6 Watersheds), Damodar RVP, Districts Giridih, Hazaribag, Palamu and Ranchi of Jharkhand

Abstract

- 1. Survey Area :** Tenughat Dam Catchment (2A2H Subcatchment), Damodar RVP, Districts Giridih, Hazaribag, Palamu and Ranchi of Jharkhand
- 2. Total Area Surveyed :** 4,28,161 ha.
- 3. Location :** 23⁰30' to 24⁰04' N Latitude
84⁰50' to 85⁰55' E Longitude
- 4. Agro-Climatic Region :** Eastern plateau and hill region (VII) as per Planning Commission's classification.
- 5. Period of Survey :** May 1997 to March 1998.
- 6. Kind of Survey :** Rapid Reconnaissance Survey for priority delineation.
- 7. Base Materials Used :** Survey of India topographical map (scale 1:50,000)

8. Areas under Different Mapping Units

Sl. No	Erosion Intensity Mapping Unit	Area (ha)	Percentage
1.	C1	42429	9.91
2.	C2	19196	4.48
3.	C3	4743	1.11
4.	C4	1303	0.30
5.	C5	26210	6.12
6.	C6	1184	0.28
7.	C7	24463	5.71
8.	C8	83149	19.42
9.	C9	63981	14.94
10.	C10	12307	2.87
11.	C11	32106	7.50
12.	C12	35803	8.36
13.	C13	3886	0.91
14.	C14	48595	11.35
15.	C15	15071	3.52
16.	C16	1054	0.25
17.	Reservoir	1313	0.31
18.	Water Bodies	3274	0.76
19.	River	5091	1.19
20.	Nala	289	0.07
21.	Tank	18	0.01
22.	H.S.	2696	0.63
Total		428161	100.00

9. Priority Categorisation

Sl. No.	Priority Category	Range	No of Subwatersheds	Area (ha)	%
1.	Very High	1100 and above	26	74440	17.39
2.	High	1000-1099	61	174776	40.82
3.	Medium	900-999	40	118728	27.73
4.	Low	800-899	21	53178	12.42
5.	Very Low	Below 800	4	7039	1.64
Total			152	4,28,161	100.00

10. District wise Area under Different Priority Categories

Sl. No.	Priority Category & Range	Area (ha)					%
		Giridih	Ranchi	Palamu	Hazaribag	Total	
1.	Very High (1100 and Above)	7031	15642	6485	45282	74440	17.39
2.	High (1000-1099)	27201	21207	45227	81141	174776	40.82
3.	Medium (900-999)	2066	23322	13537	79803	118728	27.73
4.	Low (800-899)	-	23390	3821	25967	53178	12.42
5.	Very Low (Below 800)	-	-	-	7039	7039	1.64
Total		36298	83561	69070	239232	428161	100.00

11. Watershed wise Area under Different Priority Categories

Sl. No.	Priority Category & Range	Watersheds (Area in ha)						Total	%
		2A2H1	2A2H2	2A2H3	2A2H4	2A2H5	2A2H6		
1.	Very High (1100 and Above)	34470	21405	8623	3152	2553	4237	74440	17.39
2.	High (1000-1099)	48143	17726	13893	32818	13339	48857	174776	40.82
3.	Medium (900-999)	9050	36245	22990	22498	8292	19653	118728	27.73
4.	Low (800-899)	3887	-	16845	5235	21833	5378	53178	12.42
5.	Very Low (Below 800)	-	-	3408	945	2686	-	7039	1.64
Total		95550	75376	65759	64648	48703	78125	428161	100.00