

# Report on Prioritisation of Subwatersheds in Indravati RVP Catchment (part of 4E2 catchment ), District Nabarangapur, Orissa and District Bastar, Madhya Pradesh.

## Abstract

1. **Survey Area :** Indravati Catchment (part of 4E2G and 4E2F (subcatchments), District Nabarangapur, Orissa and District Bastar, Madhya Pradesh.
2. **Total Area Surveyed and Mapped :** 5,79,855 ha.
3. **Location :** 81<sup>o</sup> 34' to 82<sup>o</sup> 32' E longitude.  
18<sup>o</sup> 54' to 19<sup>o</sup> 56' N Latitude.
4. **Agroclimatic Zones :** Chhatisgarh Plateau Zone ( zone - 10) as per National Planning Commission.
5. **Soil Conservation Region :** Eastern Red Soil Region (8).
6. **Type of Survey :** Rapid Reconnaissance Survey.
7. **Period of Survey :** April to June 1996.
8. **Base Material Used :** SOI topographic maps (1:50,000).

**9. Extent of Area under Different Mapping Units in 4E2F and 4E2G Subcatchments.**

Sl No.	Mapping Unit	Area (ha)		Total	Percentage
		4E2F	4E2G		
1	A1	-	2085	2085	0.36
2.	C1	227	126	353	0.06
3.	C2	660	1951	2611	0.45
4.	C3	6047	8209	14256	2.46
5.	C4	1806	436	2242	0.39
6.	C5	8539	1573	10112	1.74
7.	C6	18603	4392	22995	3.97
8.	C7	48	-	48	0.01
9.	C8	70603	73766	144369	24.89
10.	C9	111371	42532	153903	26.54
11.	C10	134347	45942	180289	31.10
12.	C11	1024	-	1024	0.18
13.	C12	9290	12	9302	1.60
14.	C13	31195	527	31722	5.47
15.	C14	391	-	391	0.06
16.	River	804	1203	2007	0.35
17.	Canal	-	170	170	0.03
18.	Reservoir	773	400	1173	0.20
19.	Township	803	-	803	0.14
	<b>Total</b>	<b>3,96,531</b>	<b>183324</b>	<b>579855</b>	<b>100.00</b>

**10. Districtwise Extent of Area under Different Mapping Unit in 4E2F and 4E2G Subcatchments.**

Sl No.	Mapping Unit	4E2F			4E2G		
		Bastar	Nabarangapur	Total	Bastar	Nabarangapur	Total
1.	A1	-	-	-	484	1601	2085
2.	C1	227	-	227	-	126	126
3.	C2	660	-	660	-	1951	1951
4.	C3	5422	625	6047	66	8143	8209
5.	C4	1350	456	1806	-	436	436
6.	C5	8463	76	8539	42	1531	1573
7.	C6	17566	1037	18603	160	4232	4392
8.	C7	48	-	48	-	-	-
9.	C8	51481	19122	70603	4842	68924	73766
10.	C9	102270	9101	111371	1769	40763	42532
11.	C10	122794	11553	134347	4235	41707	45942
12.	C11	-	1024	1024	-	-	-
13.	C12	9178	112	9290	-	12	12
14.	C13	29542	1653	31195	484	43	527
15.	C14	-	391	391	-	-	-
16.	River	752	52	804	56	1147	1203
17.	Canal	-	-	-	-	170	170
18.	Reservoir	405	368	773	-	400	400
19.	Township	803	-	803	-	-	-
	<b>Total</b>	<b>350961</b>	<b>45570</b>	<b>396531</b>	<b>12138</b>	<b>171186</b>	<b>183324</b>

## 11. Priority Categories of Survey Area.

Sl No.	Priority Category	No. of S/W	Area (ha)	Percentage
1.	Very High (1100 & above)	2	2599	0.4
2.	High (1000-1099)	28	73964	12.8
3.	Medium (900- 999)	145	396169	68.3
4.	Low (800-899)	41	107123	18.5
	<b>Total</b>	<b>216</b>	<b>579855</b>	<b>100</b>

## 12. Watershedwise Distribution of Priority Area in 4E2F Subcatchment.

Sl. No.	Priority Grading	4E2F1	4E2F3	4E2F4	4E2F5	4E2F6	Total Area (ha)	%
1.	Very High (1100 & above)	2599	-	-	-	-	2599	0.7
2.	High (1000- 1099)	37389	-	3471	-	2998	43858	11.0
3.	Medium (900-999)	68939	50875	49062	46935	27140	242951	61.3
4.	Low (800-899)	3301	39214	46257	10338	8013	107123	27.0
	<b>Total</b>	<b>11228</b>	<b>90089</b>	<b>98790</b>	<b>57273</b>	<b>38151</b>	<b>396531</b>	<b>100.0</b>

**13. Watershedwise Distribution of Priority Area in 4E2G Subcatchment.**

Sl No.	Priority Categories	4E2G1		4E2G2		Total Area (ha)	Percentage
		No of S/W	Area (ha)	No of S/W	Area (ha)		
1.	Very High (1100 & above)	-	-	-	-	-	-
2.	High (1000-1099)	8	19276	5	10830	30106	16.4
3.	Medium (900-999)	24	58157	36	95061	153218	83.6
4.	Low (800-899)	-	-	-	-	-	-
	<b>Total</b>	<b>32</b>	<b>77433</b>	<b>41</b>	<b>105891</b>	<b>183324</b>	<b>100.0</b>

#### 14. Districtwise Extent of Priority Area in 4E2F Subcatchment.

Sl No.	Priority Grading	Nabarangapur				Bastar				Total Area (ha)	%
		No of S/W		Area (ha)	%	No of S/W		Area (ha)	%		
		Full	Part			Full	Part				
1.	Very High (1100 & Above)	-	-	-	-	2	-	2599	0.7	2599	0.7
2.	High (1000-1099)	-	3	3177	0.8	13	3	41200	10.4	43858	11.0
3.	Medium (900-999)	6	12	42278	10.7	67	5	196063	49.4	242951	61.3
4.	Low (800-899)	-	1	115	-	39	8	111099	28.0	107123	27.0
	<b>Total</b>	<b>6</b>	<b>16</b>	<b>45570</b>	<b>115</b>	<b>121</b>	<b>16</b>	<b>350961</b>	<b>88.5</b>	<b>396531</b>	<b>100.0</b>

#### 15. Districtwise Extent of Priority Area in 4E2G Subcatchment.

Sl No.	Priority Grading	Nabarangapur				Bastar				Total Area (ha)	%
		No of S/W		Area (ha)	%	No of S/W		Area (ha)	%		
		Full	Part			Full	Part				
1.	Very High (1100 & Above)	-	-	-	-	-	-	-	-	-	-
2.	High (1000-1099)	11	1	26991	14.7	1	-	2290	1.2	30106	16.4
3.	Medium (900-999)	53	7	144195	78.7	-	6	9784	5.3	153218	83.6
4.	Low (800-899)	-	-	-	-	-	2	64	0.1	-	-
	<b>Total</b>	<b>64</b>	<b>8</b>	<b>171186</b>	<b>93.4</b>	<b>1</b>	<b>8</b>	<b>12138</b>	<b>6.6</b>	<b>183324</b>	<b>100.0</b>

## **Salient Features :-**

- ⊙ Of the total surveyed area 76,563 ha (13.2%) falls under very high and high priority categories.
- ⊙ Of the total area forest covers about 2,40,422 ha (41.5%), an area of 57,522 ha is having poor forest vegetation which needs proper management.
- ⊙ About 3,01,734 ha (5.8%) is under cultivation in the surveyed area.
- ⊙ About 33,546 ha (5.8%) is under open-scrub and wastelands which needs to be put under afforestation and grassland development.
- ⊙ About 72% of the total area suffers from moderate to severe erosion and needs proper soil conservation measures.
- ⊙ About 87.1% area is under nearly level to gently sloping class