

Report on Prioritization of Sub-watersheds of 4G3 part (L.B. of Seonath up to Tesua) Catchment of Mahanadi RVP Catchment in Bilaspur, Durg and Mandla Districts of Madhya Pradesh.

ABSTRACT

- 1. Survey area** "4G3A" Subcatchment of Mahanadi R.V.P. Catchment.
- 2. Location:**
- a) Latitude: - 21⁰ 50' to 22⁰ 50' N
 - b) Longitude: - 81⁰ 17' to 82⁰ 35' E
 - c) Agro-climatic Region: - VII. The Eastern Plateau and Hill Region.
 - d) Soil Conservation Region: - No. 8 – Eastern Red Soil Region.
 - e) Watershed Atlas of India (1990)
 - Water resource region :- 4 (Flowing in the Bay of Bengal)
 - Basin :- G (Mahanadi Basin)
 - Catchment :- 4G3 of Mahanadi River
 - Sub-catchment :- 4G3A- L.B. of Seonath up to Tesua
 - Watershed :- 4G3A 1-8
- 3. Type of Survey** : - Rapid Reconnaissance Soil Survey for priority delineation.
- 4. Period of Survey** : -Nov. 95 to June 96 and Nov. 96 to May 97.
- 5. Base map** : -Survey of India topographical map of 1: 50,000 scale.
- 6. Hydrological Subdivision: -**
- a) Catchment : - 4G3 of Mahanadi river basin
 - b) Subcatchment : - 4G3A – L.B. of Seonath up to Tesua
 - c) Watersheds : - 8
 - d) Sub-watersheds : - 281
- 7. Total area** : - 8,48,861 ha.
- 8. Area under Mapping** : - 8,12,462 ha.
- 9. Miscellaneous Area** : - 36,399 ha. (Stream, Water bodies, Rly line, Road, Habitation etc.)

10. Areal Extent of Different erosion intensity mapping units: -

Sl. No.	Mapping Units	Weightage Value	Delivery Ratio	Area in hac.	Percentage of the Total area
1.	A1	17	0.77	7755	0.9
2.	A2	20	0.96	9806	1.1
3.	A3	18	0.78	5131	0.6
4.	A4	14	0.61	1249	0.1
5.	C1	17	0.80	32929	3.8
6.	C2	14	0.60	250945	29.5
7.	C3	15	0.63	33256	3.9
8.	C4	17	0.72	12343	1.4
9.	L1	19	0.82	3008	0.3
10.	S1	17	0.81	14217	1.7
11.	S2	17	0.87	42744	5.0
12.	S3	17	0.90	67855	8.0
13.	S4	15	0.75	17481	2.1
14.	S5	15	0.72	36053	4.2
15.	S6	15	0.72	144231	17.0
16.	S7	15	0.65	120970	14.3
17.	S8	16	0.68	12489	1.8
Total	17			81,2462	95.7%
Miscellaneous				36399	4.3
Grand Total				84,8,861	100 %

11. Gradation of Subwatersheds in to priority categories

Sl.No.	Priority Categories	Number of Subwatersheds	Area in ha.	Percentage
1.	Very High	34	81091	9.6
2.	High	38	109482	12.9
3.	Medium	46	138177	16.3
4.	Low	66	177710	20.9
5.	Very Low	97	306002	36.0
Total		281	812462	95.7%
Miscellaneous			36399	4.3
Grand Total			848861	100%

