

REPORT ON PRIORITY DELINEATION OF SUBWATERSHEDS IN OURANGA  
DAM (SONE F.P.R.) CATCHMENT

ABSTRACT

- 1) Survey area :- Ouranga dam (Sone F.P.R.) Catchment district Palamu and Lohardaga of Bihar State .
- 2) Location :-
  - a) Latitude -  $23^{\circ}32'$  -  $23^{\circ}55'$  North
  - b) Longitude -  $84^{\circ}10'$  -  $84^{\circ}45'$  East
  - c) District - Palamu and Lohardaga district of Bihar
  - d) Agroclimatic zone :- VII - The Eastern Plateau and Hill Region
- 3) Total area : 1,38,619 hect
- 4) Submerged area : 7,030 hect .
- 5) Base map : Topographical map of Survey of India on 1:50,000 Scale
- 6) Period of Survey : April - June' 89
- 7) Hydrological Sub-division :-
  - 1) Catchment - 1 Ouranga dam
  - 2) Subcatchment - 3 0a, 0b, 0c
  - 3) Watershed - 9
  - 4) Subwatershed - 65

8) Areal extent of various run-off potential mapping units :

Sl.No.	Mapping units	Area (hact)	Percentage
1	A	5,000	3.6
2	B	10,245	7.4
3	C	11,896	8.6
4	D	27,722	20.0
5	E	4,280	3.1
6	F	32,614	23.5
7	G	9,818	7.1
8	H	28,283	20.4
9	J	1,115	0.8
10	K	616	0.4
	10	1,31,589	94.9
	Submerged area	7,030	5.1
	TOTAL	1,38,619	100.0

Gradation of Subwatersheds into priority Categories :-

Sl.No.	Priority category	Range of R.P.I.	No. of Sub-watershed	Area	Percentage
1	Very High	Above 80	15	25,437	18.4
2	High	71 - 80	41	88,933	64.1
3	Medium	61 - 70	9	17,219	12.4
3	Submerged area		65	1,31,589	94.9
				7,030	5.1
	Total			1,38,619	100.0

10) Subcatchment wise status of priority Subwatersheds :-

Sl.No.	Priority Category	No. / Area	Subcatchment	Total	
		0a	0b	0c	
1	2	3	4	5	
				6	
1	Very High	10	4	1	15
		16,085	7,983	1369	25,437
2	High	10	18	13	41
		21,829	39,339	27,765	88,933
3	Medium	1	3	5	9
		2,374	5,843	9,000	17,219
		21	25	19	65
		40,288	53,165	38,136	1,31,589
	Submerged area	4,194	2,836	-	7,030
	Total	44,482	56,001	38,136	1,38,619
		40.4%	40.4%	27.5%	100.0%

District wise Status of priority Subwatersheds :-

Sl.No.	Priority Category	District		Total
		Palamu	Lohardaga	
1	Very High	23,437	-	25,437
2	High	72,907	16,026	88,933
3	Medium	16,394	825	17,219
3		114,738	16,851	1,31,589
	Subwatershed	7030	-	7,030
	Grand total	1,21,768	16,851	1,38,619
		87.8%	12.2%	100.0%