

ABSTRACT

1. Survey area: Priority sub-watershed No. AUD-8 and AUD-12 of Auranga Dam Catchment of Sone River Valley Project, P.S. Manika, Latehar of Palamou and P.S. Kisco of Ranchi District (Bihar).

2. a) Total area surveyed and mapped: 14,555 ha.
 b) Period of survey: December, 1979 to May, 1980
 c) Type of survey : Detailed.

3. Soil series mapped and area as a whole covered by each in ha.

Sl. No.	Soil series.	Symbol.	AUD-8		AUD-12		Total	
			Area in ha.	%	Area in ha.	%	Area in ha.	%
1	2	3	4	5	6	7	8	9
1.	Angaon.	(AG)	232	3.4	-	-	232	1.6
2.	Amwatikar.	(AT)	307	4.0	887	12.9	1194	8.2
3.	Banpur.	(BP)	233	3.0	391	5.7	624	4.3
4.	Bairya.	(BY)	20	0.3	328	4.8	348	2.4
5.	Bendukani.	(BK)	847	11.0	-	-	847	5.8
6.	Bondobar.	(BB)	-	-	190	2.8	190	1.3
7.	Chandanuch.	(CD)	54	0.7	344	4.9	398	2.7
8.	Edla.	(ED)	58	0.8	-	-	58	0.8
9.	Goa.	(GA)	8	0.1	65	0.9	73	0.5
10.	Jagaldaga.	(JD)	66	0.9	56	0.8	122	0.9
11.	Kinamar.	(KM)	1956	25.6	797	11.6	2753	18.9
12.	Latehar.	(LH)	235	3.0	186	2.7	421	2.9
13.	Matnag.	(MG)	296	3.9	-	-	296	2.1
14.	Nawadih.	(ND)	155	2.0	54	0.8	209	1.4
15.	Parkala.	(PK)	621	8.1	62	0.9	683	4.7
16.	Sabano.	(SN)	93	1.2	381	5.5	474	3.3
17.	Salodeeh.	(SD)	728	9.5	-	-	728	5.0
18.	Sarabmunda.	(SN)	451	5.5	395	5.7	846	5.8
19.	Tappakhas.	(TK)	13	0.2	144	2.1	157	1.1
20.	Udaipur.	UP)	482	6.3	1590	23.0	2072	14.2
21.	Zalim.	(ZM)	34	0.5	302	4.4	336	2.3
Total :-			6889	90.0	6172	89.5	13061	89.80
2.	Miscellaneous Land like habita- tion road, river, nallah tank railways etc.		766	10.0	728	10.5	1494	10.20
Grand total:			7655	100.0	6900	100.0	14555	100.0

4. Land capability classification Sub-watershed wise area in ha.

Sl.No.	Sub-watershed	II-1	IIc-1	IIw-1	IIIc-1	IIIes-1	IVc-1	IVs-1	IVes-1	
1.	AUD-8	113	48	486	1038	235	587	22	58	
2.	AUD-12	727	574	600	777	-	1024	30	-	
Total:		14555	840	622	1086	1807	235	1611	52	58
%		100%	5.8	4.3	7.5	12.4	1.6	11.1	0.4	0.4
		IVes-2	IVes-3	VI ^c -1	VIes-1	VIes-2	VIIes-1	Others		
731	247	40	2534	420	330	766				
-	158	201	609	310	1162	728				
731	405	241	3143	738	1492	1494				
5.0	2.8	1.7	21.6	5.0	10.2	10.2				

5. Specific problems:

a) Subwatershed No. AUD-8 : 7655 ha.

Nature of problem	Area in ha.	%	Soil series
1. Area affected by moderate erosion.	1560	20.4	Bondukani, Chandandeeh, Edla, Jagaldaga, Kinamar, Latehar, Motnag, Parkola, Salodesh, Udaipur & Zalim.
2. Area affected by severe erosion.	4668	61.0	Amwatikar, Bondukani, Chandandeeh, Jagaldaga, Kinamar, Latehar, Matnag, Nawadih, Parkola, Salodesh, Sarabmunda, Udaipur & Zalim.
3. Area affected by very severe	40	0.5	Chandandih & Latehar
4. Area affected by seasonal water logging	621	8.1	Amgaon, Banpur, Bairya, Goa, Kinamar, Sabani & Tappakhas.
Total:-	6889	90.0%	

b) Subwatershed No. AUD-12: 6900 ha.

1. Area affected by moderate erosion.	1590	21.9	Chandandeeh, Jagaldaga, Kinamar, Latehar, Parkola, Udaipur and Zalim
2. Area affected by severe erosion.	3105	45.0	Amwatikar, Bondobar, Chandandeeh, Jagaldaga, Kinamar, Latehar, Parkola, Sarabmunda, Udaipur, and Zalim.
3. Area affected by very severe erosion.	201	2.9	Latehar, Udaipur & Zalim.
4. Area affected by seasonal water logging	1357	19.7	Banpur, Sairya, Goa, Kinamar, Sabani & Tappakhas and Zalim.
Total:-	6172	89.5%	

Remarks: AUD-8 and AUD-12 are state priority codes. AUD-8 contains part or full 4 sub-watershed viz. Oc1a, Oc1b, Ob2a & Oa2d whereas AUD-12 contains part or full sub-watershed eg. Oc2b, Oc2c, Oc2d, Oc2f and Oc3a priority codes fixed by this Organisation.