

Report on the detailed Soil Survey of Ba4c(part)
Ba4m(part),Ba4n(part),Ba4p,Ba4q,Ba4r(part)and Ba4u,
Sub watershed of Bramhani Catchment,Cuttak district,
Orissa.

A-B-S-T-R-A-C-T

1. Surveyed area :--Ba4c(part)Ba4m(part)Ba4n(part)
Ba4p,Ba4q,Ba4r(part)and Ba4u
Sub watersheds of Brahmani
catchment Cuttack district,
Orissa.
2. Type of Survey :--Detailed Soil Survey.
- 3a. Total area Surveyed
and mapped :--17197ha,
- 3b. Location :--20°'31' to 20°'4'N Latitude
and 85°'57'to 86°'10'E
Longitnde
4. Agro Climatic zone :--East Coast plain and
Hills(as per Planning Commission
of India zone No.-11)
5. Period of Survey :--December 1991-April1992
6. Soil series mapped
and their Subwater
shed distribution. :-

Sl-No:	Name of Soil Series and symbol	Total mapping units	Total Area in ha%	Ba4c: part	Ba4m: part	Ba4n: part	Ba4p: part	Ba4q: part	Ba4r: part	Ba4u: part
1.	Argora (AB)	4	866 (5.0)	-	-	-	128	459	259	20
2.	Amiajhari (AJ)	3	1057 (6.1)	-	12	-	228	155	289	373
3.	Badchana (BC)	2	160 (0.9)	-	-	-	42	17	50	51
4.	Chandanpur (CP)	2	553 (3.5)	-	-	-	74	71	171	237
5.	Karaya (K)	3	741 (4.3)	55	57	14	309	121	52	133
6.	Mrigendihi (MD)	3	669 (3.9)	-	56	-	159	186	93	175
7.	Madnahari (MH)	2	257 (1.5)	-	-	-	21	24	86	126
8.	Pasibali (PB)	3	597 (3.5)	-	-	-	135	273	90	99
9.	Solar (SL)	4	1240 (7.2)	-	-	-	178	358	527	177
10.	Talmulsasan (T)	5	9223 (53.7)	752	2761	275	1463	2012	1660	300
11.	Misc	-	1834 (10.7)	120	487	30	322	533	333	9
Grand Total		31	17197	927	3373	319	3059	4209	3610	1700
		(%)	100	5.4	19.6	1.8	17.8	24.5	21.0	9.9

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7-Land Capability Classes in Sub-Watersheds

Sl-No	Land Capability class	Total area: area in ha%	Ba4c: (part)	Ba4m: (part)	Ba4n: (part)	Ba4p:	Ba4q:	Ba4r: (part)	Ba4u
1.	ii	11487 (66.8)	807	2874	289	2087	2616	1981	833
2.	iii	1278 (7.4)	-	-	-	138	368	569	203
3.	iv	826 (4.8)	-	-	-	125	409	247	45
4.	vi	715 (4.2)	-	-	-	159	128	191	237
5.	vii	1057 (6.1)	-	12	-	228	155	289	373
	Total	15363	807	2886	289	2737	3676	3277	1691
	(%)	(89.3)	(4.7)	(16.8)	(1.7)	(15.9)	(21.4)	(19.0)	(9.8)
	Misc	1834 (10.7)							
	Grand total	17197 (100)							

(B) Specific problems and other Salient features:

- (i) 2474 ha, (14.4% of whole area) land has shallow soil and 1400 ha, (8.1%) has moderately deep soil.
- (ii) Maximum area is 10890 ha, (63.3%) have very deep cultivable soil and 597 ha, (3.5%) land has deep soil.
- (iii) (15.6%) area 2680 ha, suffers land degradation problems due to soil erosion.
- (iv) Land slope over (10%) makes the area of 1057 ha, (6.1%) unfit for cultivation severely stony and rocky land covers 1057 ha, (6.1%) of survey area.