

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Bd5b, Bd5c, Bd5h,  
Bd5j, Bd5r, Bd5t, Bd5u, Bd6f, Bd6g AND Bd6h SUBWATERSHEDS,  
BRAHMANI (FPR) CATCHMENT, P.S-KAMAKHYA NAGAR,  
SUKINDA AND TELKOI,  
DIST-CUTTACK, DHENKANAL AND KEONJHAR,  
ORISSA.

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

1. Survey areas:-Bd5b, Bd5c, Bd5h, Bd5j, Bd5r, Bd5t, Bd5u, Bd6f, Bd6g and Bd6h Sub- Watersheds, BRAHMANI (FPR) Catchment under Sukinda and Telkoi, Tehsil of Cuttack, Dhenkanol and Keonjhar districts, Orissa.
2. Type of Survey:- Detailed Soil Survey
3. Total area mapped:- 35840 ha,
4. Agro-Climatic zone: East coast plain and Hill and Eastern plateau and hill (as per National planning Commission)
5. Period of Survey:- December, 1992 to June, 1993
6. Soil Series mapped and their extent:- (Sub-Watershed wise)

SOIL SERIES MAPPED AND THEIR EXTENT (SUBWATERSHED WISE)

Subwatersheds

Name of the soil series	Total Area (%)	Bd5b	Bd5c	Bd5h	Bd5j	Bd5r	Bd5t	Bd5u	Bd6f	Bd6g	Bd6h
1. Amagaon (A)	646 (1.8)	-	151	-	131	8	158	34	68	10	86
2. Bidar (BD)	381 (1.1)	-	-	-	27	71	138	83	4	-	58
3. Bendukani (BK)	2769 (7.7)	43	103	12	106	213	1391	363	5	156	377
4. Edla (ED)	1983 (5.5)	421	309	106	52	84	266	100	239	16	390
5. Latu (LT)	1304 (3.7)	120	62	-	416	-	-	-	59	44	603
6. Mrigandhi (MD)	871 (2.5)	-	-	-	373	-	-	-	307	46	145
7. Baiganpal (BG)	107 (0.3)	-	-	-	-	-	-	-	94	-	12
8. Matnag (MG)	2344 (6.5)	500	112	312	-	333	712	329	46	-	-
9. Parkala (PK)	3210 (9)	251	406	272	-	1166	430	685	-	-	-
10. Pasibali (PB)	330 (0.9)	50	119	-	6	-	-	-	95	-	60
11. Rengalbeda (RB)	92 (0.2)	-	-	-	43	-	-	-	18	-	31
12. Rengari (RG)	184 (0.5)	-	-	-	-	3	65	46	70	-	-
13. Rankasingh (R)	1250 (3.5)	482	39	355	359	-	-	-	7	-	8
14. Sarabmunda (SM)	16495 (46)	805	1965	1090	66	289	1202	159	1728	4805	3786
15. Sarma (SR)	2286 (6.4)	543	444	309	-	504	76	265	66	-	79
Misc-----)	34251 (95.6)	3215	3710	2456	2179	2671	4438	2064	2806	5077	5635
	1589 (4.4)	60	77	15	125	35	74	43	261	574	325
<b>Grand Total</b>	<b>35840</b>	<b>3275</b>	<b>3787</b>	<b>2471</b>	<b>2304</b>	<b>2706</b>	<b>4512</b>	<b>2107</b>	<b>3067</b>	<b>5651</b>	<b>5960</b>

LAND CAPABILITY CLASS(SUB-WATERSHED WISE)

DISTRIBUTION AREA IN HA.

Sl.No : Land capability : Total : Bd5b : Bd5c : Bd5h : Bd5j : Bd5r : Bd5t : Bd5u :Bd6f : Bd6g : Bd6h  
 : Class : Area :  
 : : (%) :

1.	II	9592 (26.8)	1096	1242	692	704	1833	1068	1167	880	116	838
2.	III	4682 (13.1)	1271	350	662	244	336	777	375	175	44	448
3.	IV	648 (1.8)	-	50	-	416	-	-	-	-	-	182
4.	VI	2834 (7.9)	43	103	12	149	213	1391	363	23	156	381
5.	VII	16495 (46.0)	805	1965	1090	666	289	1202	159	1728	4805	3786

Total----> 34251(95.06) 3215 3710 2456 2179 2671 4438 2064 2806 5077 5635

Misc----> 1589(4.4) 60 77 15 125 35 74 43 261 574 325

Grand Total:-35840(100.0)3275 3787 2471 2304 2706 4512 2107 3067 5651 5960

B. Specific Problems and other Salient features.

- i. 19356 ha. (54.0%) soils are shallow in depth.  
  
3832 ha. (10.7%) soils are moderately deep but.  
  
3921 ha. (11%) soils are deep and  
  
7142 ha. (19.9%) soils are very deep
- ii. 10884 ha. (30.4%) soils have the problem of moderate erosion,  
  
20847 ha. (58.2%) soils have severe erosion and  
1945 ha. (5.4%) soils are gullied area.
- iii. 11445 ha. (31.9%) soils have stony and rocky phases.
- iv. 3744 ha. (10.4%) area are cultivated land where 6.8% area are well banded.
- v. 1234 ha. (3.5%) are uncultivated fallow land and 29270 ha. (81.7%) are forest land.