

REPORT ON DETAILED SOIL SURVEY AND LAND USE
OF Bb5b, Bb5k, Bd1g, Bd1h & Bd1j SUBWATERSHEDS,
 BRAHMANI (F.P.R.) CATCHMENT, DIST. CUTTACK, ORISSA

A B S T R A C T

1. Survey area: Brahmani (F.P.R) Catchment, Sub-watersheds Bb5b, Bb5k, Bd1g, Bd1h & Bd1j.
2. a) Total area surveyed: 22,372 ha.
b) Period of survey: Dec. 1992 to June 1993.
c) Type of survey: Detailed soil survey.
3. Agro-climatic Zone: East coast plains and hills. (Zone No. II as per National Planning Commission Report).
4. Subwatershed-wise soil series mapped and area covered by each in ha.

Sl No.	Soil series	Area in ha.	%	Bb5b	Bb5k	Bd1g	Bd1h	Bd1j	Total mapping units
1	2	3	4	5	6	7	8	9	10
1.	Edla	1968	8.8	195	730	303	394	346	4
2.	Jagaldaga	177	0.8	177	-	-	-	-	2
3.	Mangalpur	1990	8.9	605	1385	-	-	-	3
4.	Matnag	1057	4.7	888	-	78	-	91	4
5.	Mrigandihi	2194	9.8	-	638	147	288	1121	4
6.	Mulakhamba	698	3.1	403	281	14	-	-	3
7.	Parkala	1764	7.9	664	720	4	272	104	5
8.	Rengari	500	2.2	500	-	-	-	-	3
9.	Rengalboda	1299	5.8	726	77	429	42	25	5
10.	Sarabmunda	6274	28.0	649	543	385	1987	2710	3
11.	Sarma	44	0.2	44	-	-	-	-	2
12.	Amagaon	1343	6.0	768	427	16	50	82	4
13.	Misc.	3064	13.8	587	302	1216	121	838	-
G. Total:		22,372	100%	6206	5103	2592	3154	5317	42

5. Subwatershed-wise area in ha. under different land capability class

Sl No.	Land capability class	Subwatersheds in ha. and %					Total area in ha.	%	Series name
		Bb5b	Bb5k	Bd1g	Bd1h	Bd1j			
1	2	3	4	5	6	7	8	9	10
1.	II	2100 (33.8)	3578 (70.1)	484 (18.7)	906 (28.7)	1549 (29.1)	8617	38.5	Edla, Jagaldaga, Mangalpur, Mrigandihi, Mulakhamba, Parkala, Sarma, Amagaon.
2.	III	2144 (34.5)	603 (11.8)	71 (2.7)	98 (3.1)	120 (2.2)	3036	13.6	Matnag, Mulakhamba, Parkala, Rongari
3.	IV	-	-	7 (0.3)	-	75 (1.4)	82	0.4	Matnag
4.	VI	726 (11.7)	77 (1.6)	429 (16.6)	42 (1.3)	25 (0.5)	1299	5.8	Rangalbeda
5.	VII	649 (10.5)	543 (10.6)	385 (14.8)	1987 (63.0)	2710 (51.0)	6274	28.0	Sarebmunda
6.	Misc. land	587 (9.6)	302 (5.9)	1216 (46.9)	121 (3.9)	838 (15.8)	3064	13.8	-
Total:		6206	5103	2592	3154	5317	22,372	100%	
%		27.7	28.8	11.6	14.1	23.8	100		