

Report on detailed soil and land use Survey of
Rb2b, Rb3a and Rc2a subwatersheds of Rengali RVP
catchment in Sambalpur distt. Orissa.

A B S T R A C T

1. Survey area :- Priority subwatersheds No. Rb2b, Rb3a,
Rc2a of Rengali R.V.P. catchment District Sambalpur Orissa.
2. Type of survey :- Detailed soil survey
3. Total area surveyed and mapped :- 10114 hectares
4. Period of survey :- December '83 to March '84
5. Soil series mapped and their distribution

S.No.	Soil Series	No. of soil unit recogni- zed.	Subwatershed wise area in ha and %			
			Rb2b	Rb3a	Rc2a	Total
1.	Amgaon (AG)	3	9.3 1.0 %	484 4.8 %	410 4.0 %	987 9.8 %
2.	Bargaria (BG)	6	150 1.0 %	790 1.5 %	1037 7.8 %	1037 10.3 %
3.	Bendukani (BK)	3	398 3.9 %	578 5.7 %	482 4.5 %	1458 14.4 %
4.	Edla (ED)	4	60 0.6 %	664 6.6 %	456 4.5 %	1180 11.7 %
5.	Latu (LT)	1	9 0.1 %	-	18 0.2 %	27 0.3 %
6.	Matnag (MG)	2	166 1.6 %	98 1.0 %	154 1.5 %	418 4.1 %
7.	Parkala (PK)	3	498 4.9 %	233 2.3 %	251 2.5 %	982 9.7 %
8.	Pashibali (PB)	2	48 0.5 %	225 2.2 %	13 0.1 %	286 2.8 %
9.	Rengalbada (RG)	2	20 0.2 %	759 7.5 %	47 0.5 %	826 8.2 %
10.	Sarabmunda (SM)	2	356 3.5 %	293 2.9 %	436 4.3 %	1085 10.7 %
11.	Sarma (SR)	3	40 0.4 %	328 3.2 %	249 2.5 %	617 6.1 %
12.	Tileibani (TB)	3	14 0.1 %	364 3.6 %	357 3.6 %	735 7.3 %
Total		34	1799 17.8 %	4176 41.3 %	3663 36.2 %	9638 95.3 %
Misc area stream, road, Habitation, Tank etc			63 0.6 %	207 2.1 %	206 2.0 %	476 4.7 %
G.Total		34	1862 18.4 %	4383 43.4 %	3869 38.2 %	10114 100 %

6) Land use capability groupings

S.No.	L.U.C. class	Subwatersheds area ha/ pc			Total
		Rb2b	Rb3a	Rc2a	
1	2	3	4	5	6
1.	II	108 (1.1)	899 (8.8)	976 (9.6)	1985 (19.5)
2.	III	620 (6.1)	1254 (12.4)	1029 (10.2)	2903 (28.7)
3.	IV	103 (1.0)	746 (7.4)	300 (3.0)	1149 (11.4)
4.	VI	448 (4.5)	535 (5.3)	618 (5.8)	1601 (15.6)
5.	VII	19 (0.2)	160 (1.6)	35 (0.3)	214 (2.1)
Mapping unit area		1298 (12.8)	3594 (33.5)	2958 (29.3)	7850 (77.6)
Reserve forest		501 (5.0)	582 (5.8)	705 (6.9)	1788 (17.7)
Misc area		63 (0.6)	207 (2.0)	206 (2.0)	476 (4.7)
Total		1962 (18.4)	4383 (43.3)	3869 (38.2)	10114 (100.0)
Area under P.D.		1520	2248	1970	5738
Agri 554 Difference		+ 342	2135	+1899	+ 4376
7. <u>Salient features :-</u>					
1.	Shallow Soils	774 (7.7)	1630 (16.1)	965 (9.6)	3369 (33.4)
2.	Mod deep soils	175 (1.7)	98 (1.0)	172 (1.7)	445 (4.4)
3.	Sweep Soils	546 (5.4)	458 (4.5)	264 (2.7)	1268 (12.6)
4.	Severely stony & rocky /and	742 (7.4)	850 (8.4)	918 (9.1)	2510 (24.8)
5.	Area free from stones	1057 (10.5)	3326 (32.9)	2645 (27.1)	7128 (70.5)
6.	Area with less than 1 % slope	-	-	-	-
7.	Severely eroded Soils	853 (8.4)	1084 (10.8)	1229 (12.1)	3166 (31.3)
8.	Very severely eroded soils	121 1.2	93 0.9	350 3.5	564 5.6