

REPORT ON DETAILED SOIL SURVEY AND LAND
USE OF Rd1v, Rd5c AND Rd5d SUBWATERSHEDS
OF RUPNARAYAN F.P.R. CATCHMENT OF MIDNAPUR
AND BANKURA DISTRICTS, WEST BENGAL

A B S T R A C T

1. Survey area: Rd1v, Rd5c and Rd5d subwatersheds of Rupnarayan F.P.R. catchment under Garbeta, Jaypur and Bishnupur P.S of Midnapur and Bankura districts in West Bengal.
2. Type of survey: Detailed soil survey of medium intensity.
3. Total area mapped: 6,971 hectares.
4. Period of survey: April - June, 1987
5. Soil series mapped (Subwatershed-wise area distribution).

Sl No.	Soil series name & symbol	Total area (ha.)	%	Subwatersheds area ha. (%)			No. of mapping units
				Rd1v	Rd5c	Rd5d	
1	2	3	4	5	6	7	8
1.	Argora (AG)	438	(6.3)	79 (3.1)	142 (6.8)	217 (9.3)	3
2.	Bistupur (BS)	310	(4.5)	185 (7.3)	125 (6.0)	-	3
3.	Ghoradanga (G)	28	(0.7)	-	-	28 (1.2)	2
4.	Hungarh (HG)	94	(1.3)	-	-	94 (4.0)	3
5.	Illambazar (IB)	1952	(28.0)	900 (35.4)	589 (28.1)	463 (19.9)	4
6.	Jamuasol (JS)	803	(11.5)	249 (9.8)	244 (11.6)	310 (13.3)	5
7.	Kochdih (KD)	1048	(15.0)	434 (19.1)	252 (12.0)	312 (13.4)	5
8.	Madnahari (M)	395	(5.7)	183 (7.2)	141 (6.7)	71 (3.0)	3
9.	Mehagram (MG)	63	(0.9)	-	1 (0.05)	62 (2.7)	3
10.	Mrigendahi (MD)	334	(4.8)	138 (5.4)	123 (5.9)	73 (3.1)	4
11.	Radhademo-darpur (RD)	909	(13.0)	103 (4.0)	341 (16.2)	465 (20.0)	3
Total:		6374	(91.5)	2321 (91.3)	1958 (93.2)	2095 (89.9)	38
Misc.		597	(8.5)	220 (8.7)	142 (6.8)	235 (10.1)	-
Grand total:		6971	(100)	2541 (100)	2100 (100)	2330 (100)	38

7. Land capability class (Subwatershed-wise area distribution)

Sl No.	Land capability class	Total area (ha.)	Subwatershed-wise area ha. (%)		
			Rd1v	Rd5c	Rd5d
1.	II	4781 (68.5)	1984 (78.0)	1435 (68.3)	1362 (58.5)
2.	III	626 (9.1)	98 (3.9)	145 (6.9)	383 (10.4)
3.	IV	490 (7.1)	155 (6.1)	225 (10.7)	110 (4.7)
4.	VI	477 (6.8)	84 (3.3)	153 (7.3)	240 (10.3)
Total:		6374 (91.5)	2321 (91.3)	1958 (93.2)	2095 (89.9)
Misc.		597 (8.5)	220 (8.7)	142 (6.8)	235 (10.1)
Grand total:		6971 (100)	2541 (100)	2100 (100)	2330 (100)

8. Specific features (Subwatershed-wise area distribution)

Sl No.	Nature of specific features/problems	Subwatershed-wise area ha. (%)		
		Rd1v	Rd5c	Rd5d
1.	Severe erosion	234 (9.2)	359 (17.1)	327 (14)
2.	Very severe erosion	5 (0.2)	19 (0.9)	23 (1)
3.	Drainage	249 (9.8)	244 (11.6)	310 (13.3)
4.	Limited rooting depth	182 (7.2)	483 (23)	682 (29.2)
5.	Unfavourable texture	-	1 (0.05)	90 (3.9)
6.	Gravellines	84 (3.3)	338 (16.1)	327 (14)