

Report on Detailed Soil Survey and Land Use of 2A3E3q, 2A3E3q', 2A3E3r' and 2A3E3t' Subwatersheds of Lower Ganga Basin, 2A3 Catchment, P.S. Gopikandar, Katikund and Ramgarh, Dist. Dumka, Jharkhand

879

Abstract

- 1. Survey area** : 2A3E3q, 2A3E3q', 2A3E3r' and 2A3E3t' sub-watersheds of Lower Ganga Basin, 2A3 Catchment, P.S. - Gopikandar, Katikund and Ramgarh, Dist.- Dumka, Jharkhand .
- 2. Type of Survey** : Detailed Soil Survey
- 3. Base map used** : Cadastral map (16" = 1 mile scale)
- 4. Total area mapped** : 10,829 ha
- 5. Agro Climatic Zone** : Eastern plateau and Hills (Region VII) as per National Planning Commission (Khanna, 1989).
- 5. Period of Survey** : May 2002 to April 2003.

6. Sub watershedwise Distribution of Soil Series and their Extent of Area (ha)

Sl.No.	Name of Soil Series	No. of mapping units	Total area (ha)	<u>Sub - watershes</u>			
				2A3E3q	2A3E3q'	2A3E3r'	2A3E3t'
1.	Amra (AR)	5	339 (3.1)	175 (5.5)	88 (2.1)	41 (2.6)	35 (1.9)
2.	Balia (B)	6	2790 (25.8)	834 (26.2)	1026 (24.4)	325 (20.8)	605 (32.1)
3.	Belguma (BG)	7	1043 (9.6)	322 (10.1)	554 (13.2)	113 (7.2)	54 (2.9)
4.	Bathantoli (BT)	6	501 (4.6)	173 (5.4)	-	154 (9.9)	174 (9.2)
5.	Dumka (D)	7	1121 (10.4)	388 (12.2)	497 (11.8)	110 (7.1)	126 (6.7)
6.	Jama (J)	6	576 (5.3)	104 (3.3)	423 (10.1)	49 (3.1)	-
7.	Karaya (K)	4	1282 (11.8)	305 (9.6)	702 (16.7)	174 (11.2)	101 (5.4)
8.	Lachhimpur (L)	8	850 (7.9)	123 (3.9)	398 (9.5)	220 (14.1)	109 (5.8)
9.	Mayurnach (MN)	3	241 (2.2)	-	241 (5.7)	-	-
10.	Mohand (MH)	5	177 (1.6)	177 (5.6)	-	-	-
11.	Pusaro (P)	6	1267 (11.7)	421 (13.2)	-	301 (19.3)	545 (28.9)
12.	Rampur (RP)	3	42 (0.4)	-	-	-	42 (0.6)
13.	Misc.		600 (5.5)	161 (5.1)	274 (6.5)	73 (4.7)	92 (4.9)
Grand total		66	10,829	3183	4203	1560	1883

• Value in Parenthesis indicates percentage

7. Area Distribution under Different Land Capability Classes

Sl.No.	Land Capability Class	Area (ha)	Percentage %
1.	II	4623	42.6
2.	III	3254	30.0
3.	IV	1171	10.9
4.	VI	973	9.0
5.	VII	208	2.0
6.	Misc.	600	5.5
Grand Total ⇒		10,829	100.0

8. Sub watershed Wise Area(ha) Under different erosion Classes and their Percentage.

Sl.No.	Erosion Class	2A3E3q	2A3E3q'	2A3E3r'	2A3E3t'
1.	Slight (e ₁)	997 (31.3)	1214 (28.9)	511 (32.8)	676 (35.9)
2.	Moderate (e ₂)	1365 (42.9)	2109 (50.2)	846 (54.1)	796 (42.3)
3.	Severe (e ₃)	660 (20.7)	572 (13.6)	129 (8.3)	311 (16.5)
4.	Very Severe (e ₄)	-	34 (0.8)	1 (0.1)	8 (0.4)
5.	Total	3022 (94.9)	3929 (93.5)	1487 (95.3)	1791 (95.1)
6.	Misc.	161 (5.1)	274 (6.5)	73 (4.7)	92 (4.9)
Grand Total		3183 (100.0)	4203 (100.0)	1560 (100.0)	1883 (100.0)

Value in Parenthesis indicates percentage

