

Report on Detailed Soil Survey and Land Use of Pg3h, Pg4d and Pk2g Subwatersheds of Panchet Dam-Catchment, P.S. Bagmara and Topchachi, District-Dhanbad and P.S.-Kasmar, District-Bokaro of Jharkhand State

Abstract

- Survey Area** : Pg3h, Pg4d and Pk2g sub-watersheds of Panchet Dam Catchment, P.S-Bagmara and Topchachi, District-Dhanbad and P.S.-Kasmar, District-Bokaro of Jharkhand state
- Geographical Location** : Lies between $23^{\circ}30'30''$ to $23^{\circ}56'$ N. Latitude and between $85^{\circ}51'$ to $86^{\circ}19'$ E. Longitude :
- Type of Survey** : Detailed Soil Survey
- Total area Mapped** : 11,227 ha
- Agro Climatic Zone** : Eastern plateau and Hills (zone no. 7) as per National planning commission
- Period of Survey** : May'2002 to June'2002 and February'2003 to March'2003

7. Sub-watershed wise distribution of Soil Series and their extent of Area (ha)

Sl.No	Name of Soil Series	No. of map- ing Units	Total Area (ha)	Sub-watersheds		
				Pg3h	Pg4d	Pk2g
1.	Amra (AR)	5	1649 (14.7)	495 (15.9)	277 (8.4)	877 (18.2)
2.	Balia (B)	6	423 (3.8)	62 (2.0)	323 (9.8)	38 (0.8)
3.	Bathantoli (BT)	6	1485 (13.2)	592 (19.1)	430 (13.0)	463 (9.6)
4.	Belguma (BG)	5	625 (5.6)	105 (3.4)	431 (13.0)	89 (1.9)
5.	Chirudih (CD)	6	389 (3.5)	161 (5.2)	228 (6.9)	-
6.	Choli (CL)	2	29 (0.2)	-	-	29 (0.6)
7.	Dumka (D)	5	174 (1.5)	52 (1.7)	68 (2.1)	54 (1.1)
8.	Gendwadih (G)	4	193 (1.7)	3 (0.1)	190 (5.7)	-
9.	Hathiapathar (H)	5	412 (3.7)	-	-	412 (8.6)
10.	Hisim (HM)	5	125 (1.1)	-	-	125 (2.6)
11.	Jama (J)	2	71 (0.6)	27 (0.9)	17 (0.5)	27 (0.6)
12.	Karaya (K)	4	992 (8.8)	329 (10.6)	368 (11.1)	295 (6.1)
13.	Kodla (KL)	1	37 (0.3)	-	-	37 (0.8)
14.	Kushona (KU)	1	31 (0.3)	-	-	31 (0.3)

Sl.No	Name of Soil Series	No. of mapping Units	Total Area (ha)	Sub-watersheds		
				Pg3h	Pg4d	Pk2g
15.	Lachimpur (L)	5	215 (1.9)	-	-	215 (4.5)
16.	Lodkiari (LK)	5	165 (1.5)	-	-	165 (3.4)
17.	Munhari (M)	6	254 (2.3)	124 (4.0)	100 (3.0)	30 (0.6)
18.	Pusaro (P)	7	2507 (22.4)	682 (22.0)	394 (11.9)	1431 (29.7)
19.	Ramakunda (R)	3	122 (1.1)	23 (0.7)	99 (3.0)	-
20.	Sarua (S)	2	149 (1.3)	-	-	149 (3.1)
21.	Taraboga (TB)	4	250 (2.2)	152 (4.9)	98 (2.9)	-
22.	Misc.	-	930 (8.3)	295 (9.5)	289 (8.7)	346 (7.2)
Grand total		105	11227 (100)	3102	3312	4813

• (Figure in bracket expresses percent of total area)

9. Sub-watershed wise Area (ha) Under Different Erosion Classes and their percentage

Sl.No.	Erosion Class	Pg3h	Pg4d	Pk2g
1.	Slight (e1)	1362 (44.0)	1269 (38.3)	1721 (35.8)
2.	Moderate (e2)	910 (29.3)	1406 (42.5)	1567 (32.6)
3.	Severe (e3)	535 (17.2)	333 (10.0)	1114 (23.1)
4.	Very severe (e4)	-	15 (0.5)	65 (1.3)
	Total %	2807 (90.5)	2923 (91.3)	4467 (92.8)
	Misc.	295 (9.5)	289 (8.7)	346 (7.2)
	Grand Total	3102 (100)	3312 (100)	4813 (100)

- (Value in parenthesis indicates percentage)

