

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF 2A4D5w' AND 2A4D6k' SUB-WATERSHEDS OF LOWER GANGA BASIN, P.S.-PATHALGADA AND SEMARIA OF DISTRICT CHATRA AND P.S.-KATKAMSANDI OF DISTRICT HAZARIBAGH, JHARKHAND.

ABSTRACT

1. Survey area : 2A4D5w' and 2A4D6k' Sub-watersheds of Lower Ganga Basin, P.S.-Pathalgada and Semaria of district Chatra and P.S.-Katkamsandi of district Hazaribagh, Jharkhand State.
2. Geographical Location : 2A4D5w' - 24⁰12'13" to 24⁰16'19" North Latitude
84⁰53'19" to 84⁰56'32" East Longitude
2A4D6k' - 24⁰1' to 24⁰5' North Latitude
85⁰11' to 85⁰17' East Longitude
3. Type of Survey : Detailed Soil Survey.
4. Base Map : Cadastral Map (16"=1mile scale)
5. Total area surveyed and mapped: : 6665 ha.
6. Agro-Climatic Zone : i) Zone No.7 , Eastern Plateau & Hill Region. (In Country)
ii) Zone No. 4 , Central North Eastern Plateau Zone, (In State)
7. Period of Survey : December, 2004 to June 2005.

8. Soil Series Mapped and Their Extent (Area in ha.)

Sl. No.	Name of Soil Series	No. of Mapping Units	Sub watersheds wise area		Total Area	%
			2A4D5w'	2A4D6k'		
1.	Amgaon (AG)	2	-	90	90	1.4
2.	Amra (AR)	2	168	-	168	2.5
3.	Bhagwanpur (BG)	1	-	36	36	0.5
4.	Bathantoli (BT)	3	815	-	815	12.2
5.	Bendukani (BK)	4	-	1456	1456	21.9
6.	Dumka (D)	3	1024	-	1024	15.4

7.	Edla (ED)	4	-	316	316	4.7
8.	Lakshmipur (L)	3	475	-	475	7.1
9.	Matnag (MG)	2	-	454	454	6.8
10.	Nagar (N)	3	154	-	154	2.3
11.	Parkala (PK)	4	-	265	265	4.0
12.	Piprakalan (PN)	4	279	-	279	4.2
13.	Pusaro (P)	2	123	-	123	1.8
14.	Sarabmunda (SM)	2	-	780	780	11.7
15.	Miscellaneous area (Road, Habitation, River etc.)		149	81	230	3.5
Grand Total		39	3187	3478	6665	100

9. Sub-Watershed wise Distribution of Area (in ha.) under Different Land Capability Classes

Sl.No.	Land capability class	Sub-watersheds (area in ha.)		Total area (ha.)	%
		2A4D5w'	2A4D6k'		
1.	II	713	89	802	12.0
2.	III	1133	655	1788	26.8
3.	IV	173	1351	1524	22.9
4.	VI	932	758	1690	25.3
5.	VII	87	544	631	9.5
6.	Misc.	149	81	230	3.5
Grand Total		3187	3478	6665	100

10. Sub-Watershed wise Area (in ha.) under Different Erosion Classes

Sl.No.	Erosion class	Sub-watersheds (area in ha.)		Total area (ha.)	%
		2A4D5w'	2A4D6k'		
1.	None to slight (e1)	397	143	540	8.1
2.	Moderate (e2)	1622	977	2599	39.0
3.	Severe (e3)	1019	2277	3296	49.4
4.	Very severe (e4)	-	-	-	-
5.	Misc.	149	81	230	3.5
Grand Total		3187	3478	6665	100

