

Report on Detailed Soil Survey and Land Use of 2A2F5a, 2A2F5b and 2A2F5f Sub-watersheds of Panchet Dam Catchment(RVP), District- Dhanbad, Jharkhand

Abstract

1. **Survey area** : 2A2F5a, 2A2F5b and 2A2F5f Sub-watersheds of Panchet Dam Catchment(RVP), District- Dhanbad, Jharkhand
2. **Geo-graphical Location** : Lies between 23^o 39' to 23^o 51' and 23^o 46' 30" to 23^o 52' N Latitude and between 86^o 18' 30" to 86^o 24' 30" and 86^o 20' 30" to 86^o 26' 30"E Longitude
3. **Type of Survey** : Detailed Soil Survey
4. **Base map used** : Cadastral map
5. **Total area mapped** : 9455 ha
6. **Agro Climatic Region** : Eastern Plateau & Hills (Zone no. 7) as per National Planning Commission
7. **Period of Survey** : December, 2008 to March, 2009
8. **Scale of map** : 16"=1mile or 1: 3960

9. Soil Series and their extent mapped in 2A2F5a, 2A2F5b and 2A2F5f Subwatershed

Series name	No. of Mapping units	Area (ha)			Total area (ha)	%
		2A2F5a	2A2F5b	2A2F5f		
Amra	2	-	20	11	31	0.33
Barragarh	6	253	29	10	292	3.09
Dhanbad	4	-	84	-	84	0.89
Dumka	3	-	33	7	40	0.42
Gopalichak	4	108	17	35	160	1.69
Jitpur	7	318	-	-	318	3.36
Karaya	5	288	262	81	631	6.67
Kenduadih	7	485	46	97	628	6.64
Majladih	5	263	-	6	269	2.85
Nagrikalan	3	4	-	54	58	0.61
Petia	4	116	-	-	116	1.23
Radhadamodarpur	5	-	136	10	146	1.54
Sabaldih	6	225		11	236	2.50
Tetulmari	5		145	69	214	2.26
Brick Kiln	1	138	-	22	160	1.69
Burning Place	1	-	-	2	2	0.02

<i>Burried land</i>	1	6			6	0.06
<i>Coalmine</i>	1	1233	758	480	2471	26.13
<i>Garbage disposal land</i>	1	46	-	-	46	0.49
<i>H.S</i>	1	866	1182	219	2267	23.98
<i>Nala</i>	1	29	21	24	74	0.78
<i>Power Plant</i>	1	33	-	-	33	0.35
<i>Railway</i>	1	286	129	111	526	5.56
<i>River</i>	1	193	28	11	232	2.45
<i>Road</i>	1	117	97	40	254	2.69
<i>Tank</i>	1	101	38	22	161	1.70
Total	79	5108	3025	1322	9455	100.0

10. Subwatershedwise distribution of area under different depth classes

Depth Class	2A2F5a	2A2F5b	2A2F5f	Area(ha)	%
<i>Shallow</i>	4	53	72	129	1.36
<i>Moderately deep</i>	333	153	56	542	5.73
<i>Deep</i>	318	84	0	402	4.25
<i>Very deep</i>	1405	482	263	2150	22.74
<i>Misc</i>	3048	2253	931	6232	65.91
Total	5108	3025	1322	9455	100.00

11. Subwatershedwise distribution of area under different soil erosion classes

Erosion Class	2A2F5a	2A2F5b	2A2F5f	Area(ha)	%
<i>None to slight</i>	894	393	123	1410	14.91
<i>Moderate</i>	880	264	195	1339	14.16
<i>Severe</i>	286	115	73	474	5.01
<i>Misc</i>	3048	2253	931	6232	65.91
Total	5108	3025	1322	9455	100.00

