

**ABSTRACT**

1. **Survey Area** : 2A2F5m, 2A2F5p and 2A2F5q (part) Sub-watersheds of Panchet Dam Catchment, P.S. Topchanchi, Bagmara and Gobindpur, District- Dhanbad, Jharkhand
2. **Location and Extent** : 23<sup>o</sup> 51' 5 " to 23<sup>o</sup> 56' 15" North latitude and 86<sup>o</sup> 13' 4" - 86<sup>o</sup> 23' 15" East longitude
3. **Type of Survey** : Detailed Soil Survey
4. **Total Area Mapped** : 8099 ha.
5. **Agro Climatic Region** : Eastern plateau and Hills (zone no. 7) as per National Planning Commission(1989)
6. **Period of Survey** : Nov'2008 to March'2009
7. **Distribution of Soil Series with extent**

Series Name	No. of Mapping Unit	Sub watershed wise Area (ha)						Total Area (ha)	%
		2A2F5m	%	2A2F5p	%	2A2F5q(P)	%		
Amra	4	421	5.20	801	9.89	412	5.09	1634	20.18
Balia	4	85	1.05	91	1.12	33	0.41	209	2.58
Bathantoli	7	352	4.35	507	6.26	52	0.64	911	11.25
Belguma	7	168	2.07	104	1.28	-	0.00	272	3.36
Daludih	3	67	0.83		0.00	-	0.00	67	0.83
Dayabandh	6	167	2.06	60	0.74	-	0.00	227	2.80
Dumka	8	448	5.53	459	5.67	181	2.23	1088	13.43
Karaya	3	462	5.70	469	5.79	115	1.42	1046	12.92
Pusaro	7	432	5.33	631	7.79	246	3.04	1309	16.16
Radhadamodarpur	6	250	3.09	181	2.23	21	0.26	452	5.58
Msl.	7	480	5.93	349	4.31	55	0.68	884	10.91
	<b>TOTAL</b>	<b>3332</b>	<b>41.14</b>	<b>3652</b>	<b>45.09</b>	<b>1115</b>	<b>13.77</b>	<b>8099</b>	<b>100</b>

### 8. Area under different soil depth

Soil Depth Class	Sub watershed wise Area (ha)						Total Area (ha)	%
	2A2F5m	%	2A2F5p	%	2A2F5q(P)	%		
<i>Shallow</i>	869	10.73	1260	15.56	593	7.32	2722	33.61
<i>Moderately deep</i>	250	3.09	181	2.23	21	0.26	452	5.58
<i>Deep</i>	687	8.48	671	8.28	52	0.64	1410	17.41
<i>Very deep</i>	1046	12.92	1191	14.71	394	4.86	2631	32.49
<i>Miscl</i>	480	5.93	349	4.31	55	0.68	884	10.91
<b>TOTAL</b>	<b>3332</b>	<b>41.14</b>	<b>3652</b>	<b>45.09</b>	<b>1115</b>	<b>13.77</b>	<b>8099</b>	<b>100.00</b>

### 9. Area under different erosion classes

Erosion Class	Sub watershed wise Area (ha)						Total Area (ha)	%
	2A2F5m	%	2A2F5p	%	2A2F5q(P)	%		
<i>None to slight erosion</i>	1229	15.17	1352	16.69	310	3.83	2891	35.70
<i>Moderate erosion</i>	999	12.33	1060	13.09	242	2.99	2301	28.41
<i>Severe erosion</i>	624	7.70	891	11.00	508	6.27	2023	24.98
<i>Miscl</i>	480	5.93	349	4.31	55	0.68	884	10.91
<b>TOTAL</b>	<b>3332</b>	<b>41.14</b>	<b>3652</b>	<b>45.09</b>	<b>1115</b>	<b>13.77</b>	<b>8099</b>	<b>100.00</b>

