

(1)
REPORT ON DETAILED SOIL SURVEY AND LAND USE
OF Pala, Pa1b, Pa1c, Pa2c & Pa2f
(DVC, 23B) SUBWATERSHEDS
PANCHET DAM CATCHMENT
P.S-RAGHUNATHPUR
DIST-PURULIA
W.B

A-B-S-I-R-A-C-T

1. Survey area: Panchet Dam Catchment, Dist. Purulia, West Bengal State. Pala, Pa1b, Pa1c, Pa2c & Pa2f (DVC, 23B) Subwatersheds.
2. Type of survey: Detailed soil survey.
3. Total area : 16,054 ha,
4. Period of Survey: December "1990" to June "1991"
5. Agro Climatic zone: Eastern plateau & Hills (7)
6. Soil series and their extent:

Sl NO	Name of soil series	Sub-watershedwise area in ha.					Total	%
		Pala	Pa1b	Pa1c	Pa2c	Pa2f		
1.	Amra	894	5	-	37	-	936	5.8
2.	Chakra	495	765	498	741	874	3373	21.0
3.	Hansla	258	71	137	85	305	856	5.3
4.	Hirodih	108	-	-	-	12	120	1.0
5.	Jankali	141	94	19	-	100	354	2.2
6.	Dumka	938	882	624	868	727	4059	25.1
7.	Palpal	340	197	254	241	166	1198	7.5
8.	Pipradil	19	117	-	147	208	491	3.0
9.	Peddya	192	391	275	149	373	1380	8.6
10.	Udaipur	226	282	173	93	163	937	5.8
11.	Misc	740	711	325	226	348	2350	14.7
Total		4351	3515	2305	2607	3276	16054	100
(%)		27.1	21.9	14.4	16.2	20.4	100	

7. Sub watershed wise area under different land capability classes:-

Sl NO	Land capability class	Sub-watershedwise area in ha.					Total Area in ha,
		Pa1a	Pa1b	Pa1c	Pa2c	Pa2f	
1.	ii	1171 (26.9)	1637 (46.6)	965 (41.8)	1058 (40.6)	1713 (52.3)	6544 (40.8)
2.	iii	526 (12.1)	268 (7.6)	391 (17.0)	326 (12.5)	384 (11.7)	1895 (11.8)
3.	iv	213 (4.9)	565 (16.0)	391 (17.0)	603 (30.8)	552 (16.8)	2524 (15.7)
4.	vi	807 (18.5)	329 (9.5)	233 (10.1)	157 (6.0)	279 (8.5)	1805 (11.2)
5.	vii	894 (20.6)	5 (0.1)	-	37 (1.4)	-	936 (5.8)
6.	Misc	740 (17.0)	711 (20.2)	325 (4.1)	226 (8.7)	348 (10.6)	2350 (14.2)
Total		4351	3515	2305	2607	3276	16054
(%)		(100)	(100)	(100)	(100)	(100)	(100)

Figures under parenthesis indicate the percentage.

8. Specific problem and other salient features.

Nearly 4995 ha, (31.1%) of land is under shallow soils.

Very deep and deep soils cover around 29.8% and 11.7% of the total survey area.

About 3011 ha, (18.8%) of land are subjected to severe and very severe erosion and need adequate soil conservation measures.

An area of 936 ha, (5.8%) is under severely stony and rocky phases.

Nearly 3372 ha, (21.0%) of land is susceptible to seasonal over flow .Where adequate soil conservation measures are require to check soil erosion.