

REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Bk3a, Bk3b, Bk3d, Bk4k, Bm1b, Bm2d, Bm7f AND Bm7k SUBWATERSHEDS, SONE CATCHMENT, TAHSIL – BEOHARI, BANDHAWGARH AND JAISINGH NAGAR, DISTRICT-SHAHDOL (M.P.)

ABSTRACT

- 1. Survey Area** : Subwatersheds- Bk3a, Bk3b, Bk3d, Bk4k, Bm1b, Bm2d, Bm7f and Bm7k Sone catchment, Tah: Beohari, Bandhawgarh and Jaisinghnagar District- Shahdol (M. P.)
- 2. a. Total Area** : 13252 ha.
- b. Type of survey** : Detailed Soil Survey
- c. Base material** : Cadastral Map
- d. Scale** : 1:3960
- e. Period of survey** : *December 1996 to March 1997*

3. Soil series mapped and area covered by each (ha.) :-

Sl. No	Name of soil series	Total area (ha)	Subwatersheds code							
			Bk3a	Bk3b	Bk3d	Bk4k	Bm1b	Bm2d	Bm7f	Bm7k
1	Bardauha (B)	2484	43	155	262	361	526	158	714	265
2	Baradi (BA)	340	8	2	-	6	324	-	-	-
3	Chansura (CN)	218	-	-	3	125	54	12	-	24
4	Dadar (D)	1047	168	89	178	140	30	184	185	73
5	Imiliya (IM)	164	134	14	-	-	16	-	-	-
6	Kudari (K)	1300	144	182	-	845	-	129	-	-
7	Parsi (PA)	326	321	1	-	4	-	-	-	-
8	Panpatha (PN)	5426	480	355	537	874	269	710	1444	757
9	Wangaon (W)	1183	-	11	10	-	978	184	-	-
10	Misc.	764	152	201	29	134	55	106	82	5
Total		13352	1450	1010	1019	2489	2352	1483	2425	1124
%		100	10.9	7.6	7.6	18.6	17.6	11.1	18.2	8.4

4. Land capability classification: -

Sl. No.	Capability class	Total Area in ha %	Subwatersheds							
			Bk3a	Bk3b	Bk3d	Bk4k	Bm1b	Bm2d	Bm7f	Bm7k
1	IIs	2189 (19.7)	84 (6.5)	154 (19.0)	145 (14.6)	252 (10.7)	833 (37.9)	190 (13.8)	306 (25.7)	225 (25.0)
2	IIes	1180 (10.6)	60 (4.6)	50 (6.2)	77 (7.8)	383 (16.3)	291 (13.2)	111 (8.1)	120 (10.1)	88 (9.8)
3	IIIes	2555 (23.0)	247 (19.0)	99 (12.2)	384 (38.8)	489 (20.8)	330 (15.0)	369 (26.8)	488 (41.0)	149 (16.6)
4	IVes	4678 (42.1)	907 (69.9)	504 (62.3)	381 (38.5)	1100 (46.7)	379 (17.3)	695 (50.4)	276 (23.2)	436 (48.6)
5	Vles	354 (3.2)	-	2 (0.3)	-	20 (0.8)	320 (14.6)	12 (0.9)	-	-
6	VIIes	158 (1.4)	-	-	3 (0.3)	111 (4.7)	44 (2.0)	-	-	-
	Total %	11,114 (100.0)	1298 (100.0)	809 (100.0)	990 (100.0)	2355 (100.0)	2197 (100.0)	1377 (100.0)	1190 (100.0)	898 (100.0)

5. Specific Problems :-

Sl. No.	Natural Problems	Total Area	Bk3a	Bk3b	Bk3d	Bk4k	Bm1b	Bm2d	Bm7f	Bm7k
1	Moderate Erosion	4348 (42.2)	315 (26.0)	149 (22.7)	461 (54.6)	872 (41.5)	635 (46.6)	480 (40.4)	1021 (50.1)	415 (46.4)
2	Severe Erosion	5951 (57.8)	899 (74.0)	506 (77.3)	384 (45.4)	1231 (58.5)	729 (53.4)	707 (59.6)	1016 (49.9)	479 (53.6)
	Total	10299 (100.0)	1214 (100.0)	655 (100.0)	845 (100.0)	2103 (100.0)	1364 (100.0)	1187 (100.0)	2037 (100.0)	894 (100.0)

Salient Features and Specific Problems: -

- ❖ The survey area largely covered by very deep soils (90.0%).
- ❖ About 44.9% area suffer severe erosion hazards and 32.8% area suffers moderate soil erosion
- ❖ The area suffering severe erosion hazard needs to be treated on priority basis.