

Report on Detailed Soil Survey & Land Use of 4G2D6a1, 4G2D6k1, 4G2D7b1, 4G2D7d1, 4G2D7d2, 4G2D7g2, 4G2D7h1, 4G2D7h2 and 4G2D7j2 Subwatersheds , Hasdo Sub-Catchment , Tahsil-Katghora, District : Korba, Tahsil : Manendragarh, District : Koriya, Chhattisgarh and Tahsil : Kotma, District : Shahdol , Madhya Pradesh.

ABSTRACT

1. Surveyed Area : Subwatersheds 4G2D6a1, 4G2D6k1, 4G2D7b1, 4G2D7d1, 4G2D7d2, 4G2D7g2, 4G2D7h1, 4G2D7h2 and 4G2D7j2; Hasdo Sub Catchment, Tahsil: Katghora & Manendragarh of District: Korba & Koriya, Chhattisgarh & Tehsil : Kotma, District : Shahdol of Madhya Pradesh.

2. (a) Total area reported & mapped : 31541 ha.

b) Type of Survey : Detailed Soil Survey

c) Period of Survey : December 2001 to June, 2002.

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

S. No.	Name of Soil Series & Symbol	Total Area In Ha (%)	SUBWATERSHEDS								
			4G2D6a1	4G2D6k1	4G2D7b1	4G2D7d1	4G2D7d2	4G2D7g2	4G2D7h1	4G2D7h2	4G2D7j2
1.	Amadand (A)	1250 (4.0)	62 (1.2)	-	435 (15.6)	63 (2.5)	125 (3.8)	62 (1.8)	235 (8.5)	223 (5.5)	45 (1.3)
2.	Bichhutola (BH)	2356 (7.5)	-	152 (4.0)	366 (13.0)	124 (5.0)	98 (2.9)	171 (5.0)	307 (11.1)	833 (20.4)	305 (8.6)
3.	Bundeli (BL)	4037 (12.8)	517 (9.7)	466 (12.2)	320 (11.4)	230 (9.3)	456 (13.8)	574 (16.9)	316 (11.4)	361 (8.9)	797 (22.6)
4.	Malga (ML)	2548 (8.1)	656 (12.2)	233 (6.0)	276 (9.9)	131 (5.3)	145 (4.4)	469 (13.8)	101 (3.7)	447 (11.0)	90 (2.5)
5.	Narayanpur (NR)	1518 (4.8)	367 (6.9)	114 (3.0)	193 (6.9)	24 (1.0)	198 (6.0)	181 (5.3)	52 (1.9)	190 (4.7)	199 (5.6)
6.	Paradol (PR)	12150 (38.5)	1089 (20.3)	2113 (55.1)	613 (21.9)	1435 (58.0)	1967 (59.5)	1401 (41.1)	1090 (39.4)	1261 (30.9)	1181 (33.5)
7.	Phulwaritola (PT)	3801 (12.0)	998 (18.6)	432 (11.3)	494 (17.7)	255 (10.3)	133 (4.0)	209 (6.1)	586 (21.2)	577 (14.1)	117 (3.3)
8.	Tanki (TK)	1539 (4.9)	555 (10.4)	139 (3.6)	83 (3.0)	149 (6.0)	133 (4.0)	215 (6.3)	5 (0.1)	95 (2.3)	165 (4.7)
	Total (%)	29199 (92.6)	4244 (79.3)	3649 (95.2)	2780 (99.4)	2411 (97.4)	3255 (98.4)	3282 (96.3)	2692 (97.3)	3987 (97.8)	2899 (82.1)
	Other features including River, Nala, Tank, Road	2342 (7.4)	1111 (20.7)	182 (4.8)	16 (0.6)	64 (2.6)	52 (1.6)	125 (3.7)	74 (2.7)	88 (2.2)	630 (17.9)
	Grand Total (%)	31541 (100)	5355 (100)	3831 (100)	2796 (100)	2475 (100)	3307 (100)	3407 (100)	2766 (100)	4075 (100)	3529 (100)

4. Land Capability Classification:-

Land Capability Sub-classes	Area in ha	Percentage	Soil Series
Ile	282	0.9	Amadand, Narayanpur
IIs	2444	7.7	Malaga
IIs	177	0.6	Phulwaritola
IIIe	1430	4.5	Amadand, Narayanpur, Bichhutola
IIIes	1435	4.6	Phulwaritola, Tanki
IVe	813	2.5	Narayanpur, Amadand, Bichhutola
IVes	4014	12.7	Bundeli, Phulwaritola, Tanki
Vles	1917	6.1	Paradol
VIIes	2098	6.7	Paradol
Total	14610	46.3	
Forest	14589	46.3	
Miscellaneous	2342	7.4	
Grand Total	31541	100.0	

5. Salient features and specific Problems:

- ❖ The survey area is predominantly covered by deep to very deep soils 11473 ha. (36.4%).
- ❖ An area of 12484 ha (39.6%) is under gentle slope.
- ❖ An area of 6903 ha.(21.9%) suffers from moderate soil erosion hazards where 19748 ha (62.6%) is suffering from the problem of severe erosion hazards.

II	—	2903
III	—	2865
IV	—	4827
V	—	1917
VI	—	2098
VII	—	14589
Forest	—	2342
Mis	—	2342
		31541