

**REPORT ON DETAILED SOIL SURVEY AND LAND USE OF  
4G2D3b1, 4G2D3b2, 4G2D3d1 and 4G2D3d2 SUBWATERSHEDS,  
HASDO SUBCATCHMENT (HIRAKUD CATCHMENT),  
TAHSIL & DISTRICT:- KORBA  
(CHHATISGARH STATE)**

**ABSTRACT**

1. Survey area :- Subwatershed 4G2D3b1, 4G2D3b2, 4G2D3d1 and 4G2D3d2 of Hasdo Subcatchment, Tahsil & District:- Korba, Chhatisgarh State
2. Total area reported :- 11524 ha.
3. Type of survey :- Detailed Soil Survey
4. Period of survey :- May 2003 to June 2003
5. Soil Series Mapped Area:-

S.N	Name of Soil Series & Symbol	Total Area Ha. %	Subwatersheds			
			4G2D3b1	4G2D3b2	4G2D3d1	4G2D3d2
1	2	3	4	5	6	7
1	Bela (BL)	1809	318	557	477	457
	Percentage (%)	15.7	8.0	27.6	18.4	15.4
2	Bichhutola (BH)	3524	1360	813	585	766
	Percentage (%)	30.6	34.4	40.3	22.6	25.9
3	Dondro (DN)	882	329	148	175	230
	Percentage (%)	7.6	8.3	7.3	6.8	7.8
4	Kerwa (KR)	980	416	145	213	206
	Percentage (%)	8.5	10.5	7.2	8.2	7.0
5	Paradol (PR)	3639	1397	298	928	1016
	Percentage (%)	31.6	35.3	14.8	35.8	34.4
	<b>Total</b>	<b>10834</b>	<b>3820</b>	<b>1961</b>	<b>2378</b>	<b>2675</b>
	Percentage (%)	94.0	96.5	97.2	91.8	90.5
	<b>Other features Hab, Nala, Road etc.</b>	690	140	57	212	281
	Percentage (%)	6.0	3.5	2.8	8.2	9.5
	<b>Grand total</b>	<b>11524</b>	<b>3960</b>	<b>2018</b>	<b>2590</b>	<b>2956</b>
	Percentage (%)	100	100	100	100	100

## 6. Land Capability Classification:-

Land Cap. Class	Subwatersheds				Total Area ha. %	Soil Series
	4G2D3b1	4G2D3b2	4G2D3d1	4G2D3d2		
<b>II</b>	288	120	151	171	730	<b>Dondro</b>
	7.3	5.9	5.8	5.8	6.3	
<b>Ile</b>	440	87	143	71	741	<b>Bichhutola,</b>
	11.1	4.3	5.5	2.4	6.4	<b>Kerwa</b>
<b>III</b>	20	-	12	-	32	<b>Dondro</b>
	0.5	-	0.5	-	0.3	
<b>IIIe</b>	751	144	442	276	1613	<b>Bichhutola,</b>
	19.0	7.1	17.1	9.3	14.0	<b>Kerwa</b>
<b>IVe</b>	122	190	34	271	617	<b>Bela,</b>
	3.1	9.5	1.3	9.2	5.3	<b>Bichhutola,</b>
<b>VIe</b>	113	250	131	62	556	<b>Bela</b>
	2.8	12.4	5.0	2.0	4.8	
<b>Vles</b>	17	57	23	40	137	<b>Paradol</b>
	0.4	2.8	0.9	1.4	1.2	
<b>VIIes</b>	110	71	30	47	258	<b>Paradol</b>
	2.8	3.5	1.2	1.6	2.3	
<b>Forest</b>	1959	1042	1412	1737	6150	
	49.5	51.7	54.5	58.8	53.4	
<b>Total</b>	3820	1961	2378	2675	10834	
	96.5	97.2	91.8	90.5	94.0	
<b>Misc. Land</b>	140	57	212	281	690	
	3.5	2.8	8.2	9.5	6.0	
<b>Grand Total</b>	<b>3960</b>	<b>2018</b>	<b>2590</b>	<b>2956</b>	<b>11524</b>	
<b>Percentage</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	

## 7. Salient features and specific problems:-

- ❖ The survey area is predominantly covered by very deep soils 7195 ha., accounting 62.4% of the total area i.e. 11524 ha.
- ❖ An area of 4842 ha. (42.1%) is under gentle slope.
- ❖ An area of 3777 ha. (32.8%) suffers from moderate erosion whereas 6175 ha (53.6%) having problems of severe to very severe erosion hazards which need immediate soil conservation measures.