

**REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Uh2d,  
Uh3a, Uh3h and Uh3j, SUBWATERSHEDS OF UKAI RVP CATCHMENT;  
TAHSILS : CHOPDA AND SHENDWA, DIST. : JALGAON  
(MAHARASHTRA) AND KHARGON (MADHYA PRADESH).**

**A B S T R A C T**

1. (a) **Surveyed Area** : Subwatershds Uh2d, Uh3a, Uh3h and Uh3j, RVP Ukai. Catchment, Maharashtra and Madhya-Pradesh.
- b) **Agro-Climatic Zone** : 11-South Central Deccan Plateau Zone.
2. a) **Total Area** : 16,637 ha.  
**reported and mapped**
- b) **Type of Survey** : Detailed Soil Survey
- c) **Period of Survey** : Decēber 1997 to July 98.
3. (i) **Soil Series Mapped and Area Covered by each (ha) :**

Sr. No.	Name of Soil Series and Symbols	Total Area in ha. (%)	Subwatersheds			
			Uh2d	Uh3a	Uh3h	Uh3j
1	2	3	4	5	6	7
1.	Amalwadi (A)	1981 (11.9)	380	1009	541	51
2.	Amoda (Am)	352 (2.1)	175	39	23	115
3.	Bhilwa (B)	3241 (19.5)	509	-	639	2093
4.	Kherpada (K)	6971 (41.9)	3603	1502	259	1607
5.	Khodamahuli (KD)	855 (5.2)	225	201	263	166
6.	Malpur (M)	1276 (7.7)	605	368	139	164

1	2	3	4	5	6	7
7.	Palsoda (PD)	336 (2.0)	93	44	-	199
8.	Pimprala (P)	42 (0.2)	21	21	-	-
9.	Shendwada (S)	55 (0.3)	13	42	-	-
10.	Vaijapur (V)	1187 (7.1)	399	315	77	396
	<b>Total</b>	<b>16296</b> <b>97.9</b>	<b>6023</b>	<b>3541</b>	<b>1941</b>	<b>4791</b>
ii)	Other features Road, River, Nalla, Habitation, etc.	341 2.1	79	24	98	140
	<b>Grand Total</b>	<b>16637</b> <b>(100.0)</b>	<b>6102</b>	<b>3565</b>	<b>2039</b>	<b>4931</b>

#### 4. land Capability Classification :

Land Capability Sub-class	Subwatersheds				Total area in ha (%)	Soil Series
	Uh2d	Uh3a	Uh3h	Uh3j		
1	2	3	4	5	6	7
II es	287	180	36	340	873 (5.0)	Palsoda, Shendwada, Vaijapur
III es	366	240	316	337	1259 (7.6)	Amoda, Malpur, Khodamahuli, Palsoda, Vaijapur
IV es	1264	565	604	1198	3631 (21.8)	Amoda, Bhilwa, Khodamahuli, Malpur, Palsoda, Vijapur
VI es	503	1054	726	1309	3592 (21.6)	Amalwadi, Bhilwa, Malpur

1	2	3	4	5	6	7
VII es	3603	1502	259	1607	6971 (41.9)	Kherpada
<b>Total</b>	<b>6023</b>	<b>3541</b>	<b>1941</b>	<b>4791</b>	<b>16296</b> <b>(97.9)</b>	
<b>Area under Misc.</b>	<b>79</b>	<b>24</b>	<b>98</b>	<b>140</b>	<b>341</b>	
<b>G. Total</b>	<b>6102</b>	<b>3565</b>	<b>2039</b>	<b>4931</b>	<b>16637</b> <b>(100%)</b>	

#### 4. Soil Erosion

Soil Erosion Class	Area in ha.	Percentage
1. Moderate erosion	3174	19.0
2. Severe erosion	13122	78.9
Miscellaneous Area	341	2.1
<b>Total</b>	<b>16637</b>	<b>100.0</b>

#### 6. Salient features and Specific Problems :

- An area of 1666 ha. (10.0%) has very gentle slope and 6177 ha. (37.1%) has gentle slope.
- Nearly (19.0) of the total area (3174 ha.) suffers from moderate erosion hazards whereas 13122 ha. (78.9%) area has problems of severe erosion hazards.
- About 843 ha. area is suitable for intensive agriculture.
- About 6971 ha. (41.9%) of total area is suited to pasture and forestry.
- Predominantly the survey area has very shallow to shallow soils (81.2%) followed by deep to very deep soils (11.6%) and remaining area under moderately deep soils (5.1%).