

**REPORT ON DETAILED SOIL SURVEY AND LAND USE OF
Ug1g, Ug1h, Ug1k, Ug1m and Ug3k SUBWATERSHEDS,
UKAI CATCHMENT ; TAH.-AMALNER AND PAROLA, DIST. JALGAON,
TAH. AND DIST.: DHULE, MAHARASHTRA.**

ABSTRACT

1. (a) **Survey area** : Subwatersheds Ug1g, Ug1h, Ug1k, Ug1m
and Ug3k Ukai Catchment, Maharashtra State
(b) **Agro-climatic Zone** : 11 South Central Deccan Plateau Zone.
- 2 (a) **Total area reported**
and mapped. : 18,955 ha
(b) **Type of survey** : Detailed Soil Survey
(c) **Period of survey** : December 1992 to June 1993
3. (i) **Soil series mapped and area covered by each (ha):**

Sr. No.	Name of Soil Series	Total area in ha (%)	Subwatersheds				
			Ug1g	Ug1h	Ug1k	Ug1m	Ug3k
1.	Bhadgaon (BG)	657 (3.9)	-	-	54	273	330
2.	Jirale (JL)	473 (2.8)	349	-	116	8	-
3.	Jamoda (JD)	1321 (7.8)	355	272	694	-	-
4.	Jotwada (JD)	3275 (19.4)	1789	542	944	-	-
5.	Khodamahuli (KD)	1754 (10.4)	883	-	273	236	362
6.	Kherpada (K)	2968 (17.6)	303	-	1335	1148	182
7.	Mandal (MA)	1352 (8.0)	309	-	318	271	454
8.	Malpur (M)	3709 (22.0)	923	-	908	1164	714
9.	Nalbandi (N) (N)	70 (0.4)	22	-	48	-	-
10.	Palsoda (PD)	398 (2.4)	78	103	217	-	-
11.	Shendvada (S)	458 (2.7)	430	28	-	-	-
12.	Vani (V)	448 (2.6)	187	-	37	77	147
Total :		16883 (100)	5628	945	4944	3177	2189

Other features : 2072 909 722 1441 150 117
Road, river,
habitation, nala etc.

Grand Total : 18955 6537 1667 5088 3357 2306

4. Land Capability Classification :

Land Capability class	Subwatersheds					Total area in ha (%)	Soil Series
	Ug1g	Ug1h	Ug1k	Ug1m	Ug3k		
IIIs	612 (10.9)	357 (37.8)	125 (3.2)	5 (0.2)	-	1099 (6.9)	Jirale, Jotvada Palsoda, Shendvada.
IIes	2079 (37.0)	309 (32.7)	1128 (28.5)	80 (2.5)	147 (6.7)	3743 (23.6)	Jirale, Jamoda Jotvada, Palsoda, Shendvada
IIIes	1400 (24.9)	69 (7.3)	845 (21.3)	507 (16.0)	816 (37.3)	3637 (22.9)	Jamoda, Jotvada Khodamahuli, Malpur, Palsoda, Shendvada.
IVes	1234 (21.9)	210 (22.2)	1345 (34.0)	1437 (45.4)	1044 (47.7)	5270 (33.2)	Bhadgaon, Malpur, Nalbandi.
VIes	194 (3.4)	-	401 (10.1)	1055 (33.3)	135 (6.2)	1785 (11.2)	Kherpada
VIIes	109 (1.9)	-	116 (2.9)	81 (2.6)	47 (2.1)	353 (2.2)	Kherpada
	5628 (100)	945 (100)	3960 (100)	3165 (100)	2189 (100)	15887 (100)	
Area under RF	-	-	984	12	-	996	
Total	5628	945	4944	3177	2189	16883	

5. Salient features and specific problems :

- Predominantly the survey area is covered by very deep soils (32.3%) followed by shallow soils (26.2%) and moderately deep soils (18.4%).
- An area of 7628 ha (45.2%) has very gentle slope and 6287 ha (37.3%) has gentle slope.
- Nearly (65.5%) of the total area (11062 ha) suffers from moderate erosion hazards whereas 4722 ha (28.0%) area has problem of severe erosion hazards.
- An area of 8020 ha have high run-off generation potential.
- About 53% area is suitable for intensive agriculture.