

REPORT ON PRIORITIZATION OF WATERSHEDS IN THE Um  
SUBCATCHMENT OF UKAI RIVER VALLEY PROJECT, NASIK DISTRICT,  
MAHARASHTRA STATE.

ABSTRACT

1. Survey area : Part of Ukai R.V.P. Catchment (Tapi river)-  
Um Subcatchment, District- Nasik (M.S.).
2. Type of survey : Rapid Reconnaissance Survey.
3. Base Maps : Survey of India topographical maps  
(1:63,360) and aerial photographs  
(1:15,000)
4. Total area surveyed : 4,61,355 ha.  
& mapped
5. Period of survey : January 84 to June 84
6. Aerial extent under different erosion intensity units.

Sr. No.	Mapping Units	Area in ha	% Percentage
1.	A	25,028	5.4
2.	A1	2,992	0.6
3.	B	23,737	5.1
4.	C	5,702	1.1
5.	D	14,281	3.1
6.	E	55,350	12.0
7.	E1	8,577	1.9
8.	F	4,929	1.1
9.	G	41,579	9.0
10.	H	7,392	1.6

Sr. No.	Mapping Units	Area in ha	% Percentage
11.	J	17,650	3.8
12.	J1	122	0.1
13.	K	15,903	3.4
14.	L	75,076	16.3
15.	M	15,098	3.3
16.	N	29,394	6.4
17.	P	12,270	2.7
18.	Q	6,549	1.4
19.	R	94,118	20.5
20.	S	-	1.1
21.	Area under reservoir in the surveyed area (Um1 to Um6)	5,608	1.2
Total area :		4,61,355	100.0

### 7. Hydrological Codification

- a. Catchment : Ukai R.V.P. Catchment  
 b. Subcatchment : One (Um)  
 c. Watersheds : 5 (Um1 to Um6)  
 d. Subwatersheds : 96

### 8. Gradation of Priority Subwatersheds :

Sr. No.	Priority category	Sediment Yield Index range	No. of Sub-watersheds	Area (ha)	% of the area
1.	Very high	1250 and above	Nil	Nil	Nil
2.	High	1150-1249	Nil	Nil	Nil
3.	Medium	1050-1149	Nil	Nil	Nil
4.	Low	950-1049	Nil	Nil	Nil
5.	Very low	Below 950	96	4,55,747	98.8
Area under reservoir				5,608	1.2
Total :				4,61,355	100.0

N.B. : Two sheets of soil maps (1:63,360) are enclosed.