

REPORT ON PRIORITIZATION OF MICROWATERSHEDS IN 5H3B - RUPEN SUB-CATCHMENT (NON RVP), DISTRICTS AHMEDABAD, BANASKANTHA, KUTCH, MEHSANA AND SURENDRANAGAR, GUJARAT.

A B S T R A C T

1. Survey area : 5H3B1, 5H3B2, 5H3B3 & 5H3B4 watersheds, Rupen Sub-catchment (Non RVP).
2. Location : 22° 55' to 24° 47' N Latitude
71° 07' to 72° 47' E Longitude
3. Total Surveyed Area : 6,20,047 ha
4. Type of Survey : Priority Delineation Survey
5. Period of Survey : November, 1999 to December, 2000
6. Base map used : Survey of India topographical maps
1 : 50,000 scale.
7. Hydrological Division : a) Subcatchment - 5H3B (Rupen Subcatchment)
b) Watersheds - 4
c) Microwatersheds - 580

8. Distribution of area under different watersheds

S.No.	Watersheds	No. of Sub-watersheds	No. of Microwatersheds	Area in ha
1	5H3B1	22	185	1,96,674
2	5H3B2	22	169	1,94,982
3	5H3B3	20	113	1,05,676
4	5H3B4	22	113	1,22,715
	TOTAL	86	580	6,20,047

9. Geographical extent of different Erosion Intensity Mapping Units

S.No.	Mapping units	Weightage value	Delivery ratio	Area in ha	Percentage
A- ALLUVIAL LANDSCAPE					
1.	A1	19	0.73	11258	1.8
2.	A2	16	0.67	8978	1.4
3.	A3	13	0.57	13069	2.1
4.	A4	15	0.62	9993	1.6
5.	A5	12	0.57	273937	44.2
6.	A6	14	0.61	150874	24.3
7.	A7	14	0.60	19332	3.1
8.	A8	13	0.58	24868	4.0
9.	A9	14	0.61	15390	2.5
10.	A10	13	0.57	11636	1.9
11.	A11	14	0.61	623	0.1
				539958	
AE - ALLUVIO - AEOLIAN LANDSCAPE					
12.	AE1	12	0.56	54669	8.8
13.	AE2	11	0.54	3444	0.6
				58113	
E- AEOLIAN LANDSCAPE					
14.	E1	14	0.61	3584	0.6
15.	E2	14	0.61	2815	0.40.5
16.	E3	18	0.71	1326	0.2
				7725	
G - GRANITE LANDSCAPE					
17.	G1	15	0.71	338	0.1
				338	
Sub-total				6,06,134	97.8
Misc. (Stream, water bodies & habitation)				13913	2.2
Grand Total				6,20,047	100.0

10. Priority Categorization

S.No.	Priority category	SYI range	No. of Micro-watershed	Area in ha	Percentage
1.	Very high	1000 & above	Nil	-	-
2.	High	900 -999	4	4,303	0.6
3.	Medium	800 - 899	184	2,13,172	34.4
4.	Low	700 - 799	304	3,01,741	48.7
5.	Very low	Below 700	88	1,00,831	16.3
Grand Total				6,20,047	100.0