

REPORT ON RE-PRIORITIZATION OF MICRO-SUBWATERSHEDS IN DAMANGANGA (R.V.P.) CATCHMENT, DADARA NAGAR HAVELI (UT), GUJARAT AND MAHARASTRA.

ABSTRACT

1.	Survey area	:	Damanganga R.V.P. Catchment.
2.	Location	:	73°- 03' to 73°-29' East Longitude and 19° -52' to 20°- 19' North Latitude
3.	Type of Survey	:	Rapid Reconnaissance survey for Priority Delineation.
4.	Period of Survey	:	November 1998 to February 1999.
5.	Base Material	:	Survey of India topographical maps of 1 : 50,000 scale
6.	Total Surveyed area	:	1,79,941 ha.
7.	Agroclimatic Region	:	'9' Western Plateau and hill region
8.	Hydrological Divisions as per Watershed Atlas of India (1990)		
	Water Resources Region		5
	Basin		5B
	Catchment		5B2
	Subcatchment		5B2C
	Watershed		5B2C8
	Subwatershed		5B2C8a
	Micro --subwatershed		5B2C8-a-1 to 9

9. Priority Categorization :

Sr. No.	Priority Category	Sediment yield Index Range	No. of Micro Sub-watershed	Area in ha.	Percentage %
1.	Very High	1300 and above	77	80605	44.80
2.	High	1200 to 1299	40	45600	25.34
3.	Medium	1100 to 1199	39	38412	21.35
4.	Low	Below 1100	12	10180	5.66
		TOTAL	168	1,74,797	97.14
		Reservoir		5,144	2.86
		GRAND TOTAL		1,79,941	100.0

10. Extent of Different type of erosion.

Sl. No	Soil Erosion Class	Area in ha.	%
1.	Slight to Nil	9463	5.3
2.	Moderate	16231	9.0
3.	Moderate to severe	74236	41.3
4.	Severe	72064	40.0
5.	Miscellaneous	7947	4.4
	TOTAL	179941	100.0%

11. Extent of Erosion Intensity Mapping units with percentages.

Sr.No.	Erosion Intensity Mapping Units	Weightage Value	Delivery Ratio	Area in ha.	% of the Total Area
1.	A	15	0.95	20	0.01
2.	B1	15	0.95	350	0.19
3.	B4	17	0.79	28209	15.68
4.	B5	12	0.66	15786	8.77
5.	B6	15	0.71	9229	5.13
6.	B7	21	0.88	12909	7.17
7.	B8	16	0.75	8020	4.46
8.	B9	19	0.77	22322	12.41
9.	B10	17	0.72	21318	11.85
10.	B11	17	0.70	7440	4.13
11.	B12	13	0.62	445	0.25
12.	B13	14	0.62	1500	0.83
13.	B14	12	0.56	7963	4.43
14.	B15	17	0.81	36483	20.27
TOTAL				1,74,797	95.6
Misc. (Streams, Waterbodies & Habitation)				7947	4.4
GRAND TOTAL				1,79,941	100.0

Salient Features :

Delineation and codification up to micro-watershed level has been carried out in order to have a viable workable size of treatment area.

Total catchment area has been subdivided in to 168 micro –subwatershed of which 117 micro-subwatershed fall in very high and high priority categories covering an area of 126205 ha. (70.14%) of total area.

About 72064 ha. (40.0%) area suffer with severe erosion, 74236 ha. (41.3%) area suffer with moderate to severe erosions.