

**REPORT ON PRIORITIZATION OF MICRO-WATERSHEDS IN
MALAN-SANGAWADI (5G2A) NON R.V.P. SUB CATCHMENT, AMRELI,
BHAVNAGAR AND JUNAGADH DISTRICTS OF GUJARAT & DIU-DAMAN (U.T.)**

ABSTRACT

1. Survey area : 5G2A (Malan-Sangawadi) Sub - Catchment
Non R.V.P. Amreli, Bhavnagar and
Junagadh Districts of Gujarat State & Diu-Daman (U.T.)
2. Location : a) Latitude 20° - 41' N to 21° - 20' N
b) Longitude 70° - 45' E to 71° - 58' E
3. Agroclimatic Zone : 13
4. Total area Surveyed : 4,78,932 ha
5. Type of Survey : Rapid Reconnaissance Survey for Priority
Demarcation of Micro-watersheds
6. Period of Survey : November, 1999 to March, 2000
7. Base map used : 1:50,000 Topographical Survey Of India maps
8. Hydrological Sub - division : a) Catchment - Southern 5G2 Kathiawad
b) Sub - catchment - Malan-Sangawadi 5G2A
c) Watersheds - 5G2A1 to 7
d) Sub - watersheds - 126
e) Micro - watersheds - 593
9. Priority Categorization :-

S.No.	Priority Category	Sediment Yield Index Range	No. of Micro - watersheds	Area in ha.	Percentage
1.	Very high	1300 & above	132	97960	20.4
2.	High	1200 - 1299	104	83615	17.5
3.	Medium	1100 - 1199	137	104183	21.7
4.	Low	1000 - 1099	80	61088	12.8
5.	Very low	Below - 1000	140	132086	27.6
	Total		593	4,78,932	100.00

10. Extent of Erosion Intensity Mapping Units.

S.No.	EIMU	Area in ha.	Percentage
1.	B1	30252	6.32
2.	B2	22397	4.68
3.	B3	27634	5.77
4.	B4	17636	3.68
5.	B5	15398	3.22
6.	B6	7295	1.52
7.	B7	35850	7.49
8.	B8	10506	2.19
9.	B9	78188	16.32
10.	B10	22210	4.64
11.	B11	30538	6.38
12.	CA1	6077	1.27
13.	CA2	14981	3.13
14.	CA3	34278	7.16
15.	CA4	3656	0.76
16.	CA5	20819	4.35
17.	CA6	20685	4.32
18.	L1	22686	4.73
19.	L2	38376	8.01
20.	L3	8840	1.84
	MISC	10630	2.22
TOTAL		478932	100.0

11. Watershed wise status of Priority of Micro-watersheds.

S.No.	Watershed	No. of Micro-watersheds	Priority grouping				
			Very high	High	Medium	Low	Very low
1.	5G2A1	86	11	7	4	7	57
2.	5G2A2	79	9	7	21	22	20
3.	5G2A3	97	33	24	24	11	5
4.	5G2A4	61	13	9	16	11	12
5.	5G2A5	116	31	33	43	5	4
6.	5G2A6	62	12	7	13	14	16
7.	5G2A7	92	23	17	16	110	26
Total	7	593	132	104	137	80	140

12.Salient Features of the Surveyed Area :-

1. Very high and high category of priority Micro-watersheds covering 181575 ha. (37.9 %) of the total surveyed area needs immediate treatment measures.
2. Medium category of priority Micro-watersheds accounts for 104183 ha. (21.7 %) of the total area surveyed. The micro-watersheds adjacent to them very high and high priority categories should also be taken into account to check the soil erosion.
3. Very shallow to shallow soil covers 1,73,836 ha. area comprising 36.30 % of the total surveyed area.
4. About 1,31,407 ha. (27.44 %) area suffers from severe erosion, out of total surveyed area.
5. Cultivated area both rainfed and irrigated intensive cultivation covers 2,36,379 ha. which is about 49.36 % of the total area.
6. Forest covers an area of 1,15,720 ha. (24.16 %) of the total area.
- 7.Pastures and Grass lands cover 74,699 ha. area which is about 15.69 % of the total area.