

# INVENTORY OF DEGRADED LANDS OF WARDHA DISTRICT, MAHARASHTRA USING REMOTE SENSING TECHNIQUES

## ABSTRACT

### 1. DETAILS OF SURVEY

- ❖ Kind of survey Land Degradation Mapping.
- ❖ Level of mapping Reconnaissance
- ❖ Scale 1: 50,000.

2. PERIOD OF SURVEY November 1998 to March 2000.

### 3. DATA TOOL

- ❖ 1. Base map IRS-1B (Standard FCC).  
Survey of India Toposheets.  
1: 50,000 scales.

### 4. DETAILS OF AREA

- ❖ Total area of district 6, 30,900 ha.
- ❖ Agro-climatic zones The Western Plateau & Hill Regions IX.
- ❖ Geographical extent 20°28' -21°21' N Latitudes  
78°04' - 79°15' E Longitudes

### 5. NATURE, EXTENT AND PERCENTAGE OF DEGRADED LANDS IN WARDHA DISTRICT (MAHARASHTRA)

Mapping Symbol	Description	Area (ha.)	Percentage
<b>WATER EROSION (We)</b>			
We1a1	Severe Water erosion, plain, agricultural land	34607	5.5
We1a2	Severe water erosion, plain, forestland	742	0.12
We1a4	Severe Water erosion, plain, open scrubs lands	8310	1.32
We1b1	Severe Water erosion, undulating agricultural land	4813	0.76
We1b2	Severe Water erosion, undulating, forest lands	5153	0.82
We1b4	Severe Water erosion, undulating, open scrub lands	2263	0.36
We1c1	Severe Water erosion, rolling, agricultural land	384	0.06
We1c2	Severe Water erosion, rolling, forestland	1946	0.3

We1c4	Severe Water erosion, rolling, open scrub land	2912	0.46
We1d1	Severe Water erosion, hilly, agricultural land.	112	0.02
We1d2	Severe Water erosion, hilly, forest land	610	0.02
We1d4	Severe Water erosion, hilly, open scrub land	1126	0.18
We2a1	Very severe Water erosion, plain, agricultural land	4380	0.71
We2a4	Very severe Water erosion, plain, open scrub land	739	0.1
We2b1	Very severe water erosion, undulating, agricultural land	819	0.14
We2b2	Very severe water erosion, undulating forest land	199	0.03
We2b4	Very severe water erosion, undulating open scrub land	193	0.03
<b>Total</b>		<b>69,308</b>	<b>10.98</b>
<b>NORMAL LANDS</b>			
1	Agriculture	4,48,826	71.2
2	Forest	76,664	12.1
4	Open Scrub	18,223	2.9
<b>MISCELLANEOUS LAND</b>			
S	Area under Settlement	4501	0.7
W	Area under Water Bodies	7834	1.2
R	Area under River.	5544	0.9
<b>Total</b>		<b>5,43,713</b>	<b>86.2</b>
<b>Grand total</b>		<b>6,30,900</b>	<b>100.00</b>

## 6. SALIENT FINDINGS

- Water erosion one and only degradation type covering 69,308 ha. (11.00 %) of total area.
- 62,978 ha. area suffers from severe erosion and 6330 ha. (1.0 %) area under severe water erosion.
- Maximum degraded lands (7.1 %) occur in agricultural land use category followed by open scrub (2.5 %) and in forest land (1.4 %).
- Physiography wise maximum degradation was found in plain lands (7.1 %) followed by undulating land (2.1 %), Rolling lands (0.8 %) and Hill region (0.1 %).
- 543713 ha. (86.2 %) of total area is under normal lands.