

# INVENTORY OF DEGRADED LANDS OF ERODE DISTRICT OF TAMILNADU USING REMOTE SENSING TECHNIQUE

## ABSTRACT

1. a) Kind of survey : Land degradation mapping  
 . b) Level of mapping : Reconnaissance  
 c) Scale : 1:50,000
2. Period of survey : December 1997 and September 1998
3. Base materials : Indian Remote Sensing Satellite (IRS-IB) Liss- II data with survey of India (SOI) toposheets (1;50,000)
4. a. Total area of district : 825997ha  
 b. Agro-climatic zone : 10  
 c. Geographical extent : 77°-30'-05" to 77°-56'E longitude and 10°-13' to 11°-57'N latitude
5. Type and extent of degraded lands in the district

Sl. No.	Kind of land degradation	Area (ha)	Percentage
1	Severe water erosion	2764	0.34
2	Very severe water erosion	42	0.01
3	Moderately salt affliction	119	0.01
4	Rock quarry	276	0.03
5	Rocky waste	1529	0.19
6	Stony waste	849	0.10
7	Normal lands	785309	95.07
8	Miscellaneous lands	35109	4.25
	Total	825997	100%

### 6. Salient features:

Out of the total reported area 5571 ha are under different types of land degradation. Distribution of different land degradation kinds is given below.

Sl. No.	Kind of land degradation	Area (ha)	Percentage
1	Severe Water erosion	2764	0.34
2	Very severe water erosion	42	0.01
3	Moderate salt affliction	119	0.01
4	Rock quarry	276	0.03
5	Rocky waste	1529	0.19
6	Stony waste	849	0.10
	Total	5579	0.68

Out of 825997 ha. in Erode district, the extent of degraded lands in agriculture is 2776 ha.. in forest 341 ha and 2462 ha in other lands.

7. Distribution of extent of land degradation on different land scape is given below.

Sl. No.	Land scape	Area (ha.)	Percentage
1	Plain	3685	0.45
2	Undulating	941	0.11
3	Rolling	320	0.04
4	Hill	633	0.08
	Total	5579	0.68

Among the 7 taluks of Erode district, Satyamangalam is having large extent of degraded lands covering 2149 ha. while Kangayam taluk is having less extent of degraded lands covering 283 ha. only.