

# INVENTORY OF DEGRADED LANDS OF TUMKUR DISTRICT OF KARNATAKA 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 : March 2000 to April 2000
3. Base materials : Indian Remote Sensing Satellite (IRS-IB) LISS- II data with Survey of India Toposheets (1:50,000)
4. a. Total area of district : 10,55,090 ha  
 b. Agro-climatic zone : 10 (Southern plateau and hill region)  
 c. Geographical extent : 12°-45' to 14°-20'N longitude and 76°-20' to 77°-03'E latitude
5. Type and extent of degraded lands in the district

Sl. No.	Kind of land degradation	Area (ha)	Percentage
1	Severe water erosion	19055	1.81
2	Very severe water erosion	4553	0.43
3	Moderately saline sodic soils	1668	0.16
4	Strongly saline/sodic soils	3302	0.31
5	Rock quarry	415	0.04
6	Rocky waste	27590	2.61
7	Open cast mining	77	0.01
8	Stony waste	2148	0.20
	Sub-Total	58808	5.57
9	Normal lands	944902	89.56
10	Misc. lands	51380	4.87
	Sub-total	996282	94.43
	Grand Total	1055090	100%

## 6. Salient features:

- a. Total degraded land in the district is 58,808 ha. (5.57 %)
- b. Rock out crops/rocky waste occupies an area 27,590 ha. (2.61%)
- c. Water erosion is the second most extensive type of land degradation comprising 23,608 ha (2.24%) of total area, out of which 19,055 ha (1.81%) is affected by severe water erosion and 4,553 ha (0.43%) by very severe water erosion
- d. Moderately salt afflicted area covers 1668 ha (0.16%) and strongly salt afflicted area is 3302 ha (0.31%)
- e. Rock quarry covers an area of 415 ha. (0.04%)
- f. Stony waste covers an area of 2148 ha (0.20%)
- g. Open cast mining covers an area of 77 ha (0.01%)
- h. Total normal lands covers an area of 9,44,902 ha (89.56%) and miscellaneous lands covers an area of 51,380 ha (4.87%).