

INVENTORY OF DEGRADED LANDS OF BHAGALPUR DISTRICT, BIHAR, USING REMOTE SENSING TECHNIQUES.

ABSTRACT

- 1) Details of Survey.
 - a) Kind of Survey - Land Degradation Mapping.
 - b) Level of mapping - Reconnaissance.
 - c) Scale - 1 : 50,000.
2. Period of Survey - Dec. 96 to March 97.
3. Base materials - IRS-1B Liss II (FCC 2,3,4 bands) on 1 : 50,000 scale.
- SOI Toposheets on 1 : 50,000 scale.
4. Details of area.
 - a) Total area of district - 2,55,822 hac.
 - b) Agroclimatic zone - Zone II - North East alluvial plain.
Zone III - South Bihar alluvial plain
(Lower Gangatic plain region)
 - c) Soil conservation region - Indo-Gangetic and other alluvial plain.
 - d) Geocoded extent - 86⁰ 39' – 87⁰ 33' E. Longitude.
25⁰ 4' – 25⁰ 31' N. Latitude.
5. Nature and extent of degraded lands.

Sl.No.	Types	Area in Ha.	Percentage
A) Water logging			
	Seasonal	29,488	11.53
	Permanent	2,215	0.86
B) Water erosion			
	Moderately to severely gullied land	438	0.18
C) Industrial affluent and garbage dumps		355	0.14
D) Rock quarry & spoils		61*	0.02
E) Brick kiln & borrow pits		26*	0.01
F) Salt affliction		6*	-
G) Normal land		2,23,233	87.26
Total area		2,55,822	100%

- Mapped on the basis of reference such as toposheet and local information.

6. SALIENT FEATURE.

- 1) The district is a part of indo-gangetic alluvial plain with 4 distinct segments viz.- i) Diara land, ii) Tal land, iii) North Bihar alluvial plain and iv) South Bihar alluvial plain .
- 2) Of the total district area of 2,55,822 ha. , 32589 ha. 12.74% has been mapped under degraded lands. Out of that 11.53% is seasonally waterlogged, 0.86% permanently waterlogged and 0.18% is moderately to severely gullied land. Degradation due to industrial affluent and garbage cover 0.14%. Rest is covered by rock quarry, brick kiln and salt affliction.