

# INVENTORY OF DEGRADED LANDS OF CHHATARPUR DISTRICT, MADHYA PRADESH USING REMOTE SENSING TECHNIQUES

## ABSTRACT

### 1. Details of Survey

i) Kind of Survey	:	<i>Land Degradation Mapping</i>
ii) Level of mapping	:	<i>Reconnaissance</i>
iii) Scale	:	<i>1:50,000</i>
2) Period of Survey	:	<i>December 1999- January, 2000.</i>
	:	<i>December, 2000- January, 2001.</i>
3. Base Material	:	<i>IRS-1B (FCC Band 2,3,4 on</i>
	:	<i>1:50,000 Scale</i>
		Survey of India topsheets on
		1:50,000 Scale.

### 4. Details of area

i) Total area of district	:	<i>8,63,120 ha</i>
ii) Agro-climatic zones	:	<i>Central Plateau and Hill region.</i>
iii) Zone of M.P.	:	<i>North Central part.</i>
iv) Geoletical extent	:	<i>24<sup>0</sup>6' - 25<sup>0</sup>26' N Latitude</i>
		<i>79<sup>0</sup>0' - 80<sup>0</sup>27' E Longitude</i>

### 5. Nature, extent and percentage of degraded lands of Chhatarpur district (M.P.)

Mapping Symbol	Description	Area (ha)	Percent
<b>Water Erosion (<i>We</i>)</b>			
<b>We1a1</b>	Severe water erosion plain agriculture land	20,498	2.37
<b>We1a2</b>	Severe water erosion plain forest land	2,208	0.26
<b>We1a4</b>	Severe water erosion plain open scrub	8,692	1.01
<b>We1b1</b>	Severe water erosion undulating agriculture land	18,806	2.18
<b>We1b2</b>	Severe water erosion undulating forest land	25,563	2.96
<b>We1b4</b>	Severe water erosion undulating open scrub	33,522	3.88
<b>We1c1</b>	Severe water erosion rolling agriculture land	222	0.02
<b>We1c2</b>	Severe water erosion rolling forest land	8318	0.96
<b>We1c4</b>	Severe water erosion rolling open scrub	2649	0.31
<b>We1d1</b>	Severe water erosion hilly agriculture land	887	0.10
<b>We1d2</b>	Severe water erosion hilly forest land	23,825	2.76
<b>We1d4</b>	Severe water erosion hilly open scrub	4624	0.53
<b>We2b1</b>	Very severe water erosion undulating agriculture land	7575	0.88
<b>We2b2</b>	Very severe water erosion undulating forest land	6349	0.74

<b>We2b4</b>	Very severe water erosion undulating open scrubs	9800	1.14
<b>We2c1</b>	Very severe water erosion rolling agriculture land	87	0.01
<b>We2C4</b>	Very severe water erosion rolling open scrub	212	0.02
<b>We3b4</b>	Very severe water erosion with gullied land medium to thick vegetation undulating open scrub	9040	1.05
<b>We3c2</b>	Very severe water erosion with gullied land medium to thick vegetation rolling forest land	50	0.01
<b>We3c4</b>	Very severe water erosion with gullied land medium to thick vegetation rolling open scrub	2267	0.26
<b>Total</b>		<b>1,85,194</b>	<b>21.45</b>
<b>Rockout Crops /Rockywaste (RW)</b>			
<b>Rw1a4</b>	Rockywaste (< 50% area ) plain open scrub	624	0.07
<b>Rw1b1</b>	Rockywaste (< 50% area ) undulating agriculture	55	0.01
<b>Rw1b4</b>	Rockywaste (< 50% area ) undulating open scrub	1287	0.15
<b>Rw1c4</b>	Rockywaste (< 50% area ), rolling open scrub	193	0.02
<b>Rw1d1</b>	Rockywaste (< 50% area ), hilly agriculture	700	0.08
<b>Rw1d2</b>	Rockywaste (<50% area ) hilly forest	986	0.11
<b>Rw1d4</b>	Rockywaste (<50% area ), hilly open scrub	2472	0.29
<b>Total</b>		<b>6,317</b>	<b>0.73</b>
<b>Normal Land</b>			
<b>1.</b>	Agriculture	4,83,634	56.03
<b>1.(3)</b>	Agriculture (Plantation )	465	0.05
<b>1.(4)</b>	Agriculture (Open scrub)	1,162	0.14
<b>2.</b>	Forest	1,22,137	14.15
<b>2(1)</b>	Forest (Agriculture )	6,161	0.71
<b>4</b>	Open scrub	9,032	1.05
<b>4(1)</b>	Open scrub (Agriculture )	29,639	3.43
<b>4(3)</b>	Open scrub (Plantation )	345	0.04
<b>Total</b>		<b>6,52,575</b>	<b>75.61</b>
<b>Miscellaneous Lands</b>			
	River	11,125	1.29
	Tank	5,925	0.69
	Habitation	1,844	0.21
	Road	140	0.02
	Total	19,034	2.21
<b>Grand Total</b>		<b>8,63,120</b>	<b>100.00</b>