

Table 16, 18, 20: District - wise distribution of Wastelands

CHATTISGARH

DELHI

GOA

Cat-egory	Bastar	Bilaspur	Dante-wara	Dhamtari	Durg	Janjagir Chapa	Jaspur	Kankar	Kaward-ha	Korba	Kori-yabai-kunthpur	Ma-hasam-und	Raigarh	Raipur	Ra-jnanda-gaon	Surguja	Total
1	0.00	0.00	0.00	0.00	0.00	0.39	123.47	0.00	0.00	0.00	15.76	0.00	2.96	0.32	0.00	0.00	142.90
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	85.39	133.19	6.89	0.10	218.58	5.21	21.75	167.61	0.17	44.05	101.31	10.08	88.11	1.94	10.37	155.10	1049.85
4	32.31	183.54	0.88	24.76	118.02	351.41	21.38	3.86	3.16	254.51	207.45	30.07	439.75	264.46	240.31	876.70	3052.58
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.13	0.00	0.00	0.04	0.28
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	146.96	98.58	576.69	59.88	60.39	30.69	48.65	132.47	75.25	189.64	60.24	40.46	96.33	382.15	90.86	854.52	2943.76
12	249.29	100.21	995.27	63.76	38.54	3.19	44.99	150.07	89.24	181.42	190.97	77.73	68.66	331.91	157.01	874.17	3616.45
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.49	6.69	1.61	4.66	9.42	75.74	7.63	0.32	3.87	13.02	11.19	0.00	27.69	10.29	1.95	4.53	179.10
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.00	0.00	3.87	0.00	0.00	0.00	0.00	0.00	5.91
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	16.42	6.03	0.00	6.46	156.84	5.78	70.93	8.10	43.56	22.15	57.50	89.13	98.24	133.88	77.03	34.96	827.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	530.87	528.25	1581.33	159.63	603.82	472.41	338.81	462.43	215.26	704.91	648.29	247.47	821.88	1124.93	577.52	2800.01	11817.82
TGA	14974	7215	17634	4049	8537	3672	5838	6506	4223	9010	6604	4702	7086	12507	6904	15733	135194
% to TGA	3.55	7.32	8.97	3.94	7.07	12.87	5.80	7.11	5.10	7.82	9.82	5.26	11.60	8.99	8.37	17.80	8.74

Cat-egory	Total
1	0.72
2	6.12
3	7.51
4	56.09
5	5.29
6	0.00
7	0.15
8	0.00
9	0.00
10	0.00
11	7.42
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.00
18	0.00
19	0.00
20	0.04
21	0.00
22	0.00
23	0.00
Total	83.34
TGA	1483
% to TGA	5.62

Cat-egory	North Goa	South Goa	Total
1	0.00	0.00	0.00
2	0.00	0.00	0.00
3	22.63	29.25	51.89
4	129.47	86.91	216.38
5	32.49	10.30	42.79
6	7.19	2.30	9.48
7	0.00	0.00	0.00
8	0.00	0.00	0.00
9	0.00	0.00	0.00
10	0.00	0.00	0.00
11	25.57	33.21	58.78
12	0.60	2.64	3.24
13	0.00	0.00	0.00
14	9.70	4.99	14.69
15	0.00	0.00	0.00
16	0.44	2.95	3.39
17	0.00	0.00	0.00
18	0.00	0.00	0.00
19	0.00	0.00	0.00
20	14.31	16.63	30.95
21	0.00	0.35	0.35
22	30.67	33.65	64.33
23	0.00	0.00	0.00
Total	273.08	223.18	496.27
TGA	1733.00	1969.00	3702.00
% to TGA	15.76	11.33	13.41

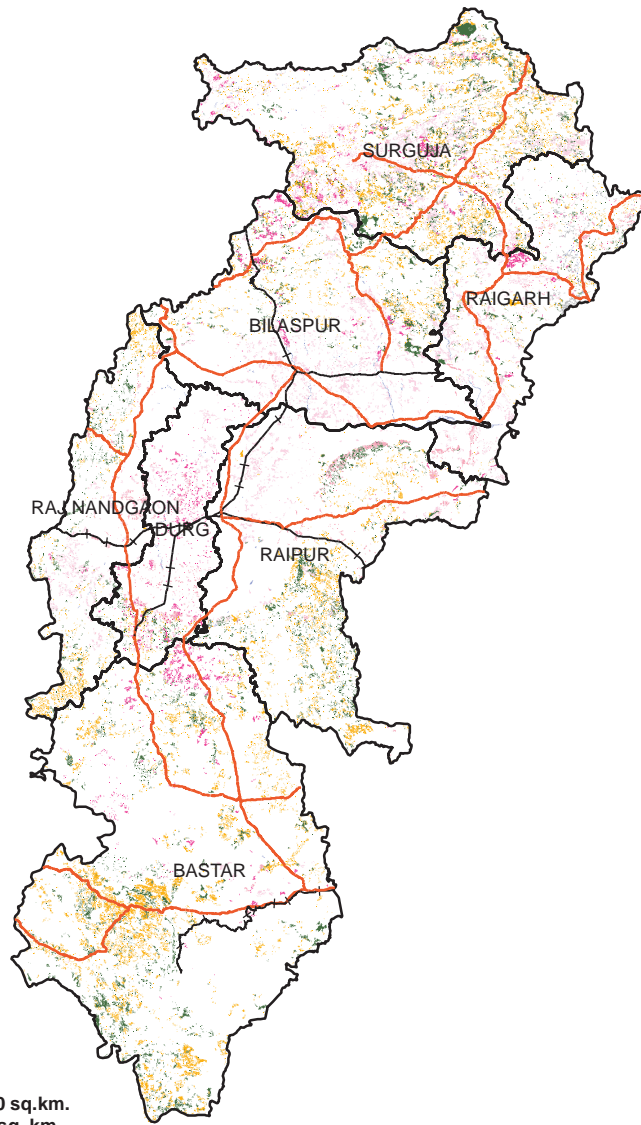
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|--|--|--|----------------------------------|--------------------------------|
| 1. Gullied and/ or ravinous land (Medium) | 6. Waterlogged and Marshy land (Seasonal) | 11. Under-utilised/degraded forest (Scrub domin) | 16. Sands-Coastal | 21. Industrial wastelands |
| 2. Gullied and/ or ravinous land (Deep) | 7. Land affected by salinity/alkalinity (Medium) | 12. Under-utilised/degraded forest (Agriculture) | 17. Sands-Desertic | 22. Barren Rocky/Stony waste |
| 3. Land with Dense Scrub | 8. Land affected by salinity/alkalinity (Strong) | 13. Degraded pastures/ grazing land | 18. Sands-Semi Stab.-Stab>40m | 23. Snow covered /Glacial area |
| 4. Land with Open Scrub | 9. Shifting Cultivation - Current Jhum | 14. Degraded land under plantation crop | 19. Sands-Semi Stab.-Stab 15-40m | Total - Total Wasteland Area |
| 5. Waterlogged and Marshy land (Permanent) | 10. Shifting Cultivation - Abandoned Jhum | 15. Sands-Riverine | 20. Mining Wastelands | TGA - Total Geographical Area |

Table 17: Chattisgarh - Category-wise distribution and changes in wastelands

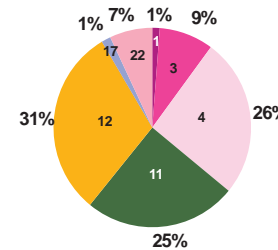
Area in sq.km.

SI	Wasteland Categories	2005-06	%	2003	%	Change	% diff
1	Gullied and/or ravinous land-Medium	142.90	0.11	53.53	0.04	89.37	0.07
2	Gullied and/or ravinous land-Deep	0.00	0.00	0.00	0.00	0.00	0.00
3	Land with Dense Scrub	1049.85	0.78	2541.17	1.88	-1491.32	-1.10
4	Land with Open Scrub	3052.58	2.26	2503.81	1.85	548.77	0.41
5	Land affected by salinity/alkalinity-Moderate	0.28	0.00	0.00	0.00	0.28	0.00
6	Shifting cultivation area-Current Jhum	0.00	0.00	81.09	0.06	-81.09	-0.06
7	Shifting cultivation area-Abandoned Jhum	0.00	0.00	59.70	0.04	-59.70	-0.04
8	Under utilised/degraded notified forest land-Scrub dominated	2943.76	2.18	2780.58	2.06	163.18	0.12
9	Under utilised/degraded notified forest land-Agriculture	3616.45	2.68	2832.50	2.10	783.95	0.58
10	Degraded land under plantation Crops	0.00	0.00	8.36	0.01	-8.36	-0.01
11	Sands-Riverine	179.10	0.13	4.80	0.00	174.30	0.13
12	Mining wastelands	5.91	0.00	25.93	0.02	-20.02	-0.01
13	Industrial wastelands	0.00	0.00	4.28	0.00	-4.28	0.00
14	Barren rocky area	827.00	0.61	405.53	0.30	421.47	0.31
	Total	11817.83	8.74	11301.28	8.36	516.55	0.38
	TGA	135194.00					

Figure. 22



Total Geog. Area (TGA) :135194.00 sq.km.
 Total Wasteland Area : 11817.82 sq. km.
 Wasteland Area : 8.74 %



WASTELAND MAP

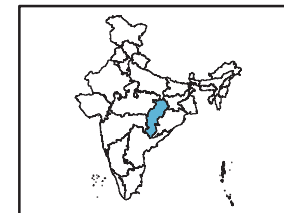
2005-06

CHATTISGARH



LEGEND

- Gullied/ Ravine land-Medium ravine (1)
- Gullied/Ravine land-Deep/ very deep ravine (2)
- Scrubland - Land with dense scrub (3)
- Scrubland - Land with open scrub (4)
- Waterlogged and marshy land - Permanent (5)
- Waterlogged and marshy land - Seasonal (6)
- Land Affected by Salinity/ Alkalinity - Moderate (7)
- Land Affected by Salinity/ Alkalinity - Strong (8)
- Shifting cultivation - Current jhum (9)
- Shifting cultivation - Abandoned jhum (10)
- Under-utilised Deg Notif Forest - Scrub Dom (11)
- Under-utilised Deg Notif Forest - Agriculture (12)
- Degraded Pastures/ grazing land (13)
- Degraded Land under Plantation Crop (14)
- Sands - Desert sand (15)
- Sands - Coastal sand (16)
- Sands - Riverine (17)
- Sands - Semi-stab to stab (>40m) dune (18)
- Sands-Semi-stab to stab mod high(15-40m) dune (19)
- Mining Wastelands (20)
- Industrial Wastelands (21)
- Barren rocky area (22)
- Snow cover and/ or glacial area (23)
- Non Wasteland Area
- Major Road
- Railway Line



Based on 3 season data of IRS P6
 LISS III (2005-06) & Limited ground checks

Partner Institution:

NATMO
 Dept of Science & Technology, Govt of India
 Bidhan Nagar
 Kolkata- 700064
 West Bengal

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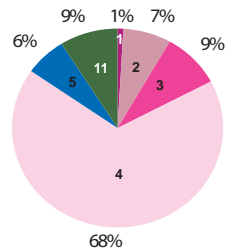
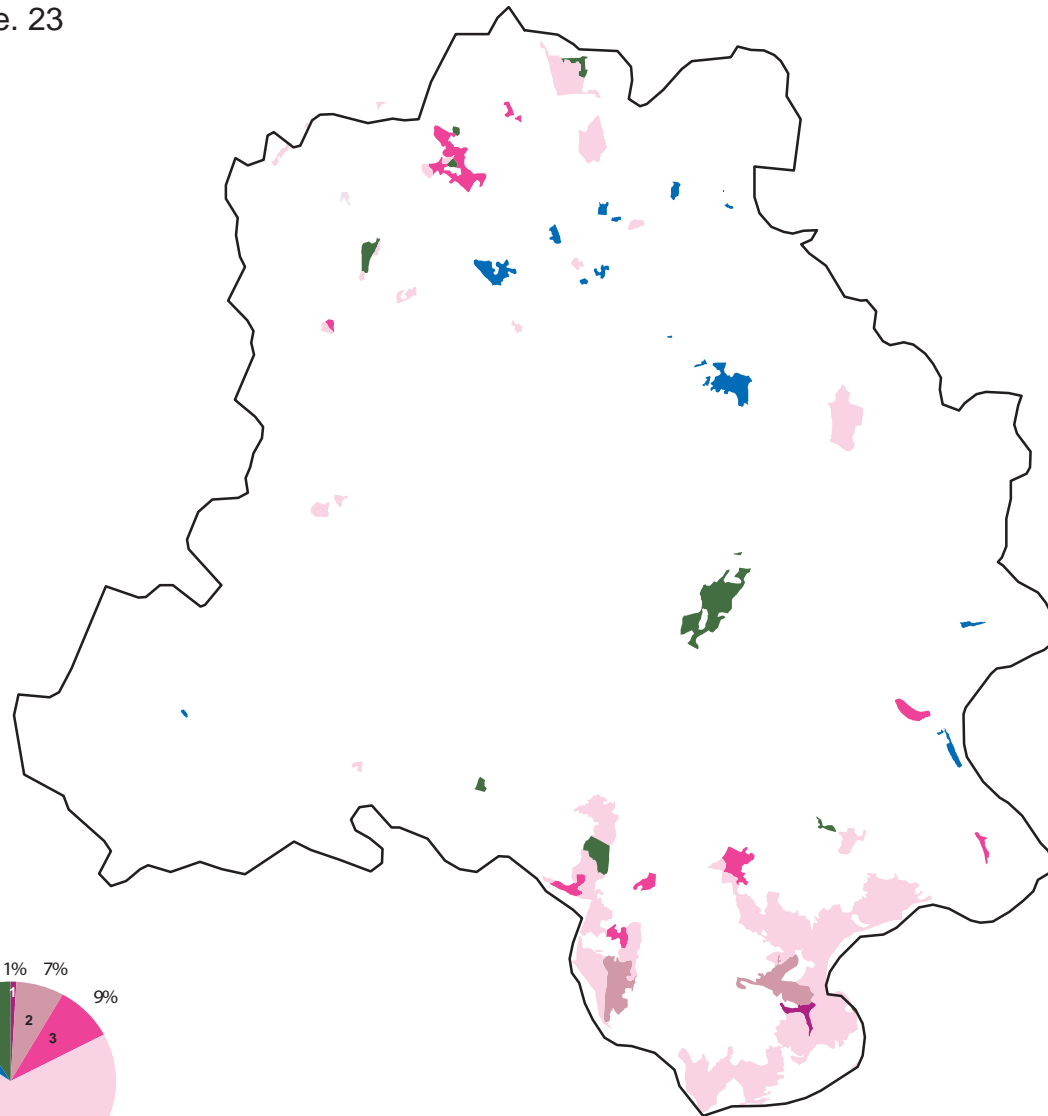
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 National Remote Sensing Centre
 ISRO, Dept. of Space, Govt of India,
 Balanagar,
 Hyderabad - 500625

Table 19: Delhi - Category-wise distribution and changes in wastelands

Area in sq.km.

SI	Wasteland Categories	2005-06	%	2003	%	Change	% diff
1	Gullied and/or ravinous land-Medium	0.72	0.05	5.51	0.37	-4.79	-0.32
2	Gullied and/or ravinous land-Deep	6.12	0.41	0.00	0.00	6.12	0.41
3	Land with Dense Scrub	7.51	0.51	3.79	0.26	3.72	0.25
4	Land with Open Scrub	56.09	3.78	1.97	0.13	54.12	3.65
5	Waterlogged and Marshy land-Permanent	5.29	0.36	0.00	0.00	5.29	0.36
6	Land affected by salinity/alkalinity-Moderate	0.15	0.01	0.00	0.00	0.15	0.01
7	Under utilised/degraded notified forest land-Scrub dominated	7.42	0.50	19.24	1.30	-11.82	-0.80
8	Mining wastelands	0.04	0.00	0.00	0.00	0.04	0.00
9	Barren rocky area	0.00	0.00	37.65	2.54	-37.65	-2.54
	Total	83.34	5.62	68.16	4.60	15.18	1.02
	TGA	1483.00					

Figure. 23



Total Geog. Area (TGA) :1483.00 sq.km.
 Total Wasteland Area : 83.34 sq. km.
 Wasteland Area : 5.62 %

WASTELAND MAP

2005-06

DELHI



LEGEND

- 1 Gullied/ Ravine land-Medium ravine (1)
- 2 Gullied/Ravine land-Deep/ very deep ravine (2)
- 3 Scrubland - Land with dense scrub (3)
- 4 Scrubland - Land with open scrub (4)
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- 6 Waterlogged and marshy land - Seasonal (6)
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- 8 Land Affected by Salinity/ Alkalinity - Strong (8)
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- 16 Sands - Coastal sand (16)
- 17 Sands - Riverine (17)
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- 19 Sands-Semi-stab to stab mod high(15-40m) dune (19)
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- 22 Barren rocky area (22)
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- Non Wasteland Area



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Partner Institution:

Land Use Division
 National Remote Sensing Centre
 ISRO, Dept of Space, Govt of India
 Balanagar
 Hyderabad-500625

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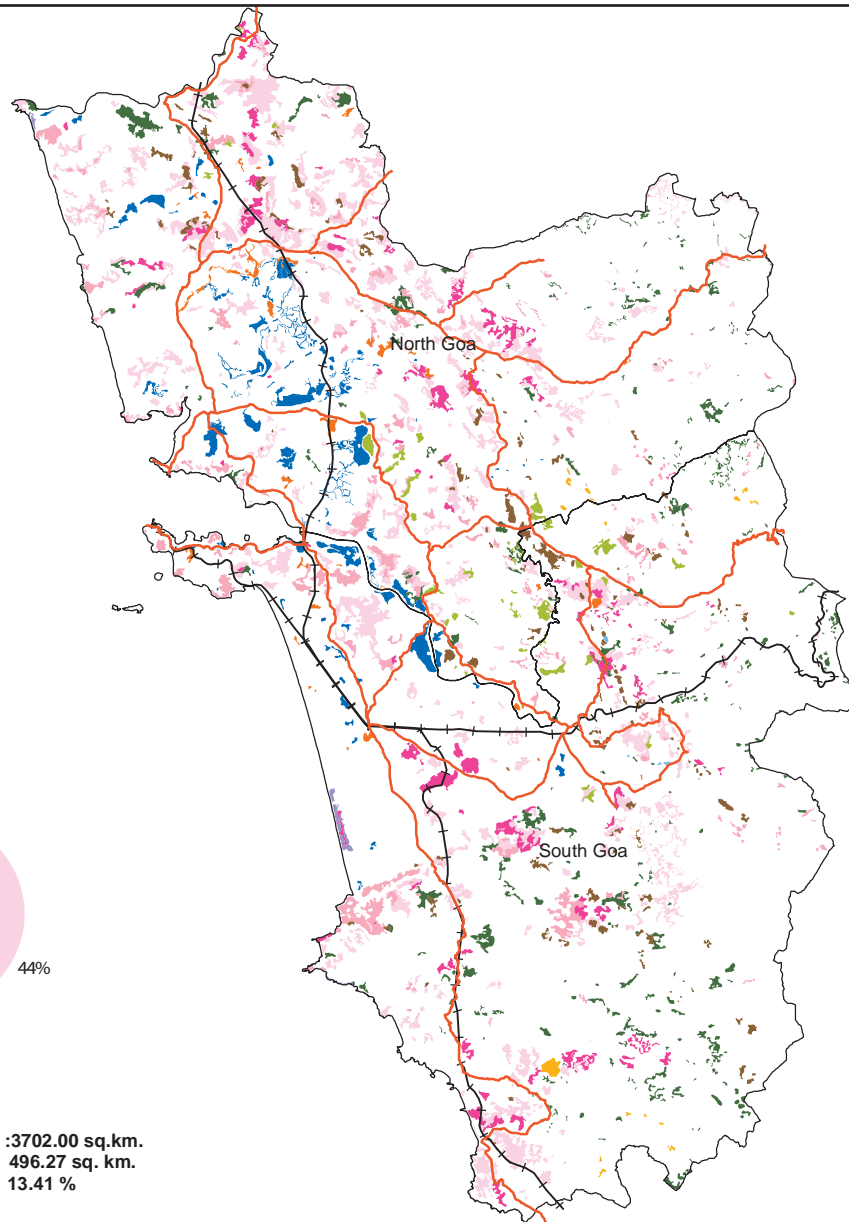
Land Use Division, LRG, RS & GIS - AA
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 Balanagar,
 Hyderabad - 500625

Table 21: Goa - Category-wise distribution and changes in wastelands

Area in sq.km.

SI	Wasteland Categories	2005-06	%	2003	%	Change	% diff
1	Land with Dense Scrub	51.89	1.40	39.88	1.08	12.01	0.32
2	Land with Open Scrub	216.38	5.84	230.54	6.23	-14.16	-0.38
3	Waterlogged and Marshy land-Permanent	42.79	1.16	41.55	1.12	1.24	0.03
4	Waterlogged and Marshy land-Seasonal	9.48	0.26	10.83	0.29	-1.35	-0.04
5	Under utilised/degraded notified forest land-Scrub dominated	58.78	1.59	52.01	1.40	6.77	0.18
6	Under utilised/degraded notified forest land-Agriculture	3.24	0.09	1.01	0.03	2.23	0.06
7	Degraded pastures/grazing land	0.00	0.00	0.00	0.00	0.00	0.00
8	Degraded land under plantation Crops	14.69	0.40	33.42	0.90	-18.73	-0.51
9	Sands-Riverine	0.00	0.00	0.00	0.00	0.00	0.00
10	Sands-Coastal	3.39	0.09	8.21	0.22	-4.82	-0.13
11	Mining wastelands	30.95	0.84	50.49	1.36	-19.54	-0.53
12	Industrial wastelands	0.35	0.01	0.00	0.00	0.35	0.01
13	Barren rocky area	64.33	1.74	63.35	1.71	0.98	0.03
	Total	496.27	13.41	531.29	14.35	-35.02	-0.95
	TGA	3702.00					

Figure. 24



Total Geog. Area (TGA) :3702.00 sq.km.
 Total Wasteland Area : 496.27 sq. km.
 Wasteland Area : 13.41 %

WASTELAND MAP

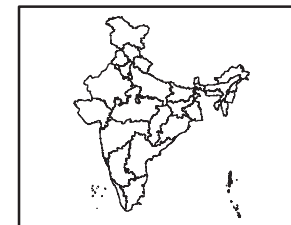
2005-06

GOA



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- 22 Barren rocky area (22)
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- Major Road
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Based on 3 season data of IRS P6
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Partner Institution:

EOS Office - ISRO Head Quarters
 Antariksh Bhavan
 New BEL Road
 Bangalore-560094
 Karnataka

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Land Use Division, LRG, RS & GIS - AA
 National Remote Sensing Centre
 ISRO, Dept. of Space, Govt of India,
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