

**REPORT ON DETAILED SOIL SURVEY AND LAND USE OF Nv1d, Nv1g,
Nv1m, Nv1n, Nv1p, Nv1q, Nv1r, Nv1s, Nv1t and Nv1v, SUBWATERSHED OF
NARMADA CATCHMENT, TAHSIL - NIWAS, DISTRICT - MANDLA,
MADHYA PRADESH**

ABSTRACT

1. SURVEY AREA : Subwatersheds Nv1d, Nv1g, Nv1m, Nv1n, Nv1p, Nv1q, Nv1r, Nv1s, Nv1t, & Nv1v, Narmada catchment, Tah. - Niwas, Dist. - Mandla (MP)
2. a) TOTAL AREA SURVEYED : 16,500 ha
- b) TYPE OF SURVEY : Detailed Soil Survey
- c) PERIOD OF SURVEY : Nov. 97 to May 1998
- 3 (i) Soil Series Mapped and Area Covered by each ha

Area in ha (%)

| S. No. | Name of Soil Series | Total Area | Subwatershed Code | | | | | | | | | |
|--------|---|--------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|
| | | | Nv1d | Nv1g | Nv1m | Nv1n | Nv1p | Nv1q | Nv1r | Nv1s | Nv1t | Nv1v |
| 1. | Bandariya | 2681 | 297 | 710 | 51 | 300 | 543 | 80 | 260 | 248 | 99 | 93 |
| 2. | Barela | 5900 | 523 | 1155 | 775 | 690 | 454 | 680 | 431 | 816 | 280 | 96 |
| 3. | Dadratola | 2520 | 99 | 251 | 202 | 357 | 728 | 143 | 139 | 242 | 186 | 173 |
| 4. | Jamukoha | 2280 | 71 | 176 | 193 | 279 | 187 | 204 | 165 | 529 | 211 | 265 |
| 5. | Katangi | 647 | 28 | 42 | 9 | 42 | 127 | 58 | 83 | 49 | 110 | 99 |
| 6. | Pipariya | 266 | 4 | - | 25 | 34 | 122 | 10 | - | 37 | - | 34 |
| 7. | Ponri | 499 | 27 | 25 | - | 17 | 96 | 114 | 26 | 102 | 66 | 26 |
| 8. | Ramtila | 80 | - | - | - | - | - | - | - | 52 | - | 28 |
| 9. | Rojkund | 356 | - | - | - | - | - | 102 | 127 | 77 | 50 | - |
| 10. | Uda | 206 | - | - | - | - | - | - | 88 | 49 | 69 | - |
| | Total | 15,435 (93.5) | 1049 | 2359 | 1255 | 1719 | 2257 | 1391 | 1319 | 2201 | 1071 | 814 |
| 11. | Other features (Habitation, River, nala, Road, etc.) | 1065 | 26 | 54 | 20 | 44 | 81 | 459 | 156 | 137 | 54 | 34 |
| | Grand Total | 16,500 | 1075 | 2413 | 1275 | 1763 | 2338 | 1850 | 1475 | 2338 | 1125 | 848 |

LAND CAPABILITY CLASSIFICATION

Area in ha

| Land Capability Class | Subwatershed code | | | | | | | | | | Total Area | Soil Series |
|-----------------------|-------------------|-------------|------------|-------------|-------------|------------|------------|-------------|------------|------------|-------------------------|--|
| | Nv1d | Nv1g | Nv1m | Nv1n | Nv1p | Nv1q | Nv1r | Nv1s | Nv1t | Nv1v | | |
| II s | 9 | 25 | - | 36 | 144 | 111 | 44 | 69 | 91 | 34 | 563 | Katangi Ponri |
| II es | 46 | 42 | 9 | 23 | 79 | 61 | 194 | 75 | 89 | 119 | 737 | Katangi Ponri Rojkund Uda |
| III s | - | - | 25 | 34 | 122 | 10 | - | 37 | - | 34 | 262 | Pipariya |
| III es | 75 | 151 | 70 | 102 | 105 | 124 | 95 | 416 | 147 | 195 | 1480 | Pipariya Jamukoha |
| IV es | 8 | 75 | 100 | 200 | 271 | 120 | 97 | 318 | 170 | 146 | 1505 | Bandariya Dadratola Ramtila Rojkund Uda |
| VI es | 340 | 762 | 139 | 437 | 956 | 129 | 126 | 262 | 100 | 119 | 4996 3310 | Bandariya Dadratola Jamukoha |
| VII es | 134 | 250 | 6 | 185 | 173 | 371 | 310 | 391 | 124 | 56 | 1920 | Barela |
| Total | 612 | 1225 | 349 | 1017 | 1850 | 926 | 866 | 1568 | 721 | 703 | 9837 | |

SPECIFIC PROBLEMS

| Nature of problem | Subwatershed Code | | | | | | | | | | Total | Soil series |
|-------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|---------------|---|
| | Nv1d | Nv1g | Nv1m | Nv1n | Nv1p | Nv1q | Nv1r | Nv1s | Nv1t | Nv1v | | |
| Moderate Erosion | 652 | 1448 | 1077 | 1192 | 1012 | 963 | 832 | 1588 | 701 | 589 | 10,054 | Bandariya Barela Dadratola Jakukoha Katangi Pipariya Ramtila Rojkund Uda |
| Severe erosion | 388 | 886 | 153 | 457 | 979 | 307 | 443 | 502 | 268 | 157 | 4,540 | -do- |
| Total | 1040 | 2334 | 1230 | 1649 | 1991 | 1270 | 1275 | 2090 | 969 | 746 | 14,594 | |