

**REPORT ON DETAILED SOIL SURVEY AND LAND USE
OF Ng3a, Ng3j, Ng3k, Ng3n and Ng5a SUBWATERSHEDS,
NARMADA RVP, CATCHMENT, TAHSIL - MAHESHWAR,
DISTRICT - KHARGON (MADHYA PRADESH).**

A B S T R A C T

1. **Surveyed Area** : Subwatershds Ng3a, Ng3j, Ng3k, Ng3n and Ng5a
Narmada Catchment, Tahsil - Maheshwar of
Khargon - District, Madhya-Pradesh.
2. a) **Total Area reported and mapped** : 5867 ha.
- b) **Type of Survey** : Detailed Soil Survey
- c) **Period of Survey** : April 1998 to June 1998.
3. (i) **Soil Series Mapped and Area Covered by each (ha) :**

| Sr. No. | Name of Soil Series and Symbols | Total Area in ha. (%) | Subwatersheds | | | | |
|---------|---------------------------------|-----------------------|----------------|---------------|---------------|--------------|---------------|
| | | | Ng3a | Ng3j | Ng3k | Ng3n | Ng5a |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
| 1. | Balsamud (B) | 534 (9.1) | 432 (21.6) | - | - | - | 102 (12.5) |
| 2. | Jalanpur (J) | 1057 (18.0) | 83 (4.2) | 315 (27.8) | 536 (35.2) | 92 (23.3) | 31 (3.8) |
| 3. | Kasrawad (K) | 129 (2.2) | - | 8 (0.7) | 121 (8.0) | - | - |
| 4. | Khar (KH) | 269 (4.6) | 150 (7.5) | 26 (2.3) | 89 (5.8) | 4 (1.0) | - |
| 5. | Lakhanpur (L) | 901 (15.4) | 184 (9.2) | 266 (23.4) | 354 (23.3) | 97 (24.5) | - |
| 6. | Maheshwaram (M) | 461 (7.9) | 251 (12.54) | 57 (5.0) | 112 (7.4) | 11 (2.8) | 30 (3.7) |

| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
|----|--|------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|
| 7. | Mirzapur (MR) | 154 (2.6) | - - | 123 (10.8) | 31 (2.0) | - - | - - |
| 8. | Narmada (N) | 1615 (27.5) | 858 (42.9) | 197 (17.4) | 198 (13.0) | 36 (9.1) | 326 (40.1) |
| 9. | Palkha (P) | 189 (3.2) | 4 (0.2) | 86 (7.6) | 58 (3.8) | 4.1 (10.4) | - - |
| | Total | 5309 (90.5) | 1962 (98.1) | 1078 (95.0) | 1499 (98.5) | 281 (71.1) | 489 (60.1) |
| | ii) Other features including habitations, River, Nala, Tanks & Roads. | 558 (9.5) | 39 (1.9) | 57 (5.0) | 23 (1.5) | 114 (28.9) | 325 (39.9) |
| | Grand Total | 5867 (100) | 2001 (100) | 1135 (100) | 1522 (100) | 395 (100) | 814 (100) |

4. Land Capability Classification :

| Land Capability Sub-class | Subwatersheds | | | | | Total area in ha (%) | Soil Series |
|---------------------------|---------------|---------------|---------------|---------------|---------------|----------------------|---------------------------------------|
| | Ng3a | Ng3j | Ng3k | Ng3n | Ng5a | | |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
| II s | 327 (16.3) | 17 (1.50) | 19 (1.2) | - - | 101 (12.4) | 464 (7.9) | Balsamud, Maheshwaram |
| II es | 516 (25.8) | 74 (6.5) | 196 (12.9) | 15 (3.8) | 41 (5.0) | 842 (14.4) | Balsamud, Khar, Maheshwaram, Narmada, |
| III es | 388 (19.4) | 429 (37.8) | 394 (25.9) | 103 (26.1) | 31 (3.8) | 1345 (22.9) | Khar, Lakhanpur, Narmada Mirzapur |
| IV es | 408 (20.4) | 363 (32.0) | 667 (43.8) | 108 (27.3) | 56 (6.9) | 1602 (27.3) | Jalanpur, Narmada |

| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|---------------------------|
| VI es | 323 (16.2) | 108 (9.5) | 80 (5.3) | 50 (12.7) | 260 (32.0) | 821 (14.0) | Jalanpur, Narmada, Palkha |
| VII es | - - | 8 (0.7) | 15 (1.0) | - - | - - | 23 (0.4) | Kasrawad |
| Forest Area | - | 79 (7.0) | 128 (8.4) | 5 (1.2) | - | 212 (3.6) | |
| Subtotal | 1962 | 1078 | 1499 | 281 | 489 | 5309 (90.5) | |
| Miscellaneous Land | 39 (1.9) | 57 (5.0) | 23 (1.5) | 114 (28.9) | 325 (39.9) | 558 (9.5) | |
| Total % | 2001 (100) | 1135 (100) | 1522 (100) | 395 (100) | 814 (100) | 5867 (100) | |

6. Salient features and Specific Problems :

- The survey area is predominantly covered by deep to very deep soils 2879 ha. accounting (49.1%) of the total surveyed area 5867 ha.
- An area of 1679 ha. (28.6%) is under gentle slope.
- An area of 2717 ha. (46.3%) suffers from moderate erosion hazards whereas 2128 ha. (26.3%) is having the problem of severe to very severe erosion hazards.