

REPORT ON PRIORITISATION OF SUBWATERSHEDS IN THE CATCHMENT OF LOWER Wunna - IRRIGATION PROJECT (PART OF '4E4' CATCHMENT OF GODAVARI BASIN,) DISTRICT NAGPUR, CHANDRAPUR AND WARDHA (M.S.)

A B S T R A C T

1. Survey area : Lower Wunna Irrigation Project (Part of '4E4' catchment of Godavari Basin).
2. Location : 20° - 35' to 21°-13' N Latitude and 78°-42' to 79°-23' E Longitudes
3. Total area : 1,47,310 ha
- 4.a) Period of survey : February 95 to April 95
- h) Type of survey : Rapid Reconnaissance Survey
5. Base material : Survey of India Topographic maps on 1:50,000 Scale
6. Hydrological Division :
 - a) Catchment : '5B1' (Wardha Catchment)
 - b) Subcatchment : '1' (Part)
 - c) Watershed : '2'
 - d) Subwatersheds : 49
7. Overall priority categorization of subwatersheds

| Sr. No. | Priority Category | Sediment Yield Index range | No. of subwatersheds | Area (ha) | % |
|---------|-------------------|----------------------------|----------------------|-----------|-------|
| 1. | Very High | 1300 & above | 12 | 39,224 | 27.9 |
| 2. | High | 1200 - 1299 | 11 | 28,878 | 20.5 |
| 3. | Medium | 1100 - 1199 | 9 | 27,530 | 19.6 |
| 4. | Low | 1000 - 1099 | 6 | 14,841 | 10.5 |
| 5. | Very low | below 1000 | 11 | 30257 | 21.5 |
| TOTAL | | | 49 | 140,730 | 100.0 |

2656

1/3/98

8. Reservoirwise prioritisation of subwatersheds

| Sr. No. | Priority category | Sediment yield index | NAND RESERVIORS | | | WADGAON RESERVOIRS | | | TOTAL | | |
|-------------|-------------------|----------------------|-------------------|------------|------|----------------------|------------|------|----------------------|------------|------|
| | | | No. of sub-waters | Area in ha | % | No. of sub-watershed | Area in ha | % | No. of sub-watershed | Area in ha | % |
| 1. | Very high | 1300 & above | - | - | - | 12 | 39224 | 37.8 | 12 | 39224 | 27.9 |
| 2. | High | 1200-1299 | 3 | 10420 | 28.1 | 8 | 18458 | 17.8 | 11 | 28878 | 20.5 |
| 3. | Medium | 1100-1199 | 4 | 11819 | 31.9 | 5 | 15711 | 15.2 | 9 | 27530 | 19.6 |
| 4. | Low | 1000-1099 | 2 | 6355 | 17.1 | 4 | 8486 | 8.2 | 6 | 14841 | 10.5 |
| 5. | Very low | below 1000 | 3 | 8510 | 22.9 | 8 | 21747 | 21.0 | 11 | 30257 | 21.5 |
| Grand Total | | | 12 | 37104 | 100 | 37 | 103626 | 100 | 49 | 140730 | 100 |