

Report on Rehabilitation of Soils in Chirimiri Coal Mine Area
in Kurasia Opencast Project Tehsil - Manendragash Distt - Surguja (M.P.)

A B S T R A C T

1. Survey area : Kurasia opencast mine project, (M. P.)
2. (a) Total area : 1,024 ha.
reported and
mapped 4,184 intensity
- (b) Kind of survey : Detailed Soil Survey
- (c) Period of survey : May to June, 1985
3. (a) Soil series mapped and area covered by each (ha)

| Sl. No. | Name of the soil series | Total Area (ha) | Percent |
|---------------|---|------------------|---------|
| 1. | Duman Hill | 85 | 8.3 |
| 2. | Godripara | 43 | 4.2 |
| 3. | Kusmunda | 94 | 9.2 |
| 4. | Punji | 28 | 2.7 |
| 5. | Sonawani | 8 | 0.8 |
| Total : | | 258 | 25.3 |
| (ii) | Other features including : rock out crops, OB dumps, decooled area, existing quarry coal dumping area, habi- tation, road | 766 | 74.7 |
| Grand Total : | | 1,024 | 100.0 |

4. Land capability classification :

| Land capability class | Area (ha) | Percent | Soil series |
|-----------------------|-----------|---------|------------------------------------|
| II | 15 | 5.8 | Kusmunda |
| III | 111 | 43.0 | Godripana Kusmunda |
| IV | 101 | 39.1 | Duman Hill Kusmunda Sonawani |
| VI | 3 | 1.2 | Sonawani |
| VII | 28 | 10.9 | Punji |
| Total : | 258 | 100.0 | - |

Salient features and specific problems :

- The area covered by very deep to deep soils is only 21.7 % of the total area.
- The lands suitable for afforestation account for 222 ha (21.7%) of the total area of 1024 ha.
- There is 15,20,000 m³ top soil to be scraped and stored at suitable/ pla for rehabilitation purpose.