

ABSTRACT

Rehabilitation of soil in Jun~~der~~ Under Open cast~~mine~~
(B.C.C.L.) under environmental reclamation programme.

1. Type of soil Survey : : High intensity Detailed Soil Survey.
2. Total area surveyed and mapped : 255.5 ha.
3. Total project area surveyed : 106.7 ha.
4. Period of survey : Dec. 84 -Feb. 85.
5. Soil series mapped and area in each series.

Sl. No.	Soil Series	No. of Units.	Area in ha.	%	
1.	Amwatikar (AT)	1	3.2	1.2	
2.	Chirkunda (CK)	6	28.1	11.0	
3.	Jugrat (JT) Total project area surveyed	8	58.3	22.8	
4.	Kauriya (KY)	2	2.2	0.9	
5.	Kinamar (KM) Soil series mapped and a	8	27.2	10.6	
6.	Victoria (VT)	9	16.3	6.4	
7.	Zalim (Z)	5	8.4	3.3	
8.	Area under OBM	-	29.6	43.8	
9.	Area under quarry	-	25.7		
10.	Building and offices	-	10.5		
11.	Coal dumping area	-	6.5		
12.	Habitation	-	9.8		
13.	Road and Railway Siding	-	7.0		
14.	Waterways	-	22.7		
Total :		39	255.5		100

6. Land capability units classification

Sl.No.	Land capability class.	Land capability units	Area in ha.	%
1.	II	-	90.7	35.5
2.	III	-	10.9	4.3
3.	IV	-	22.6	8.9
4.	VI	-	19.5	7.5
5.	Miscellaneous	-	11.8	4.3
Total:			255.5	100.

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Salient Features :

Sl.No.	Particulars	Area in hect	%
1.	Total surveyed area	255.5	100
2.	Miscellaneous uses i.e.habitation, OBM,quarry Roads & Buildings	111.8	43.8
3.	Cultivated area	85.3	33.3
4.	Land suitable for cultivation (waste land)	28.0	11.0
5.	Land suitable for afforestation & pasture development(waste land)	30.4	11.3
6.	Flat and nearly levelled lands	85.3	33.3
7.	Irrigated land	0.3	0.1
8.	Area under kharif crops	85.3	33.3
9.	Area under Rabi crops	0.3	0.1
10.	Shallow soils	30.4	11.9
11.	Very deep soils	116.5	45.6
12.	Terraced and banded lands	85.3	33.3

Sp Specific Problems :

1.	Shallow soils	30.4	11.8
2.	Un-favourable texture(either very coarse or very fine)	3.2	1.2
3.	Moderate Slopes	35.7	13.9
4.	Moderately steep slopes	3.2	1.2
5.	Moderate erosion	37.3	14.6
6.	Severe erosion	18.7	7.3
7.	Severely stony and severely rocky	14.5	5.7