

Report on detailed soil survey and rehabilitation of
soils in Bistrampur Coal mine project (SECL), Dist.-Surguja,
Madhya Pradesh

ABSTRACT

Surveyed area : Bistrampur Coal Mine Project, SECL,
Dist.-Surguja, M.P.State.

(a) Total area reported and mapped : 4,000 ha.

(b) Kind of survey : Detailed Soil Survey

(c) Period of survey : November to December 1986.

(i) Soil series mapped and area covered by each (ha) :

No.	Name of Series	Total area (ha)	Percent
1.	Bistrampur	92	3.0
2.	Jainagar	566	18.8
3.	Karampur	242	8.0
4.	Rampur	271	9.0
5.	Taramunda	1849	61.2
Total :		3020	

(ii) Other features including nalla, habitation, railwayline, road, tank, excavated area and OB Dumps etc. 1980

Grand Total : 4000

4. Land Capability Classification :

Sr. No.	Land Capability Class	Area(ha)	Percentage	Soil Series
1.	II	903	29.9	1. Karampur 2. Jainagar 3. Taramunda
2.	III	1802	59.7	1. Jainagar 2. Karampur 3. Rampur 4. Taramunda
3.	IV	315	10.4	1. Bisrampur 2. Karampur 3. Rampur
Total :		3020	100.0	

5. Salient features and specific problems :

1. The surveyed area includes a major portion under deep to very deep soils i.e. 97%.
2. Nearly 74.8% of surveyed area suffers from moderate erosion.
3. Nearly 7.4% area suffers from severe erosion hazards and needs immediate soil and water conservation measures.
4. The land under open cast mine require special treatment and conditioning.
5. About 36 million cubic metres of top soil is available for rehabilitation purposes.