

Report on Detailed Soil Survey and Rehabilitation of
Soils in Jamuna Open Cast Mine Project (S.E.Coalfields)
Shahdol district (M.P.).

ABSTRACT

1. Survey area : Jamuna Open Cast Mine Project
(S.E.Coalfields), M.P. State.
2. (a) Total area : 2866 ha.
reported &
mapped
- (b) Kind of survey : Detailed soil survey.
- (c) Period of survey: December 1985 to January 1986.
3. (i) Soil series mapped and area covered by each (ha):

Sr. No.	Name of Series	Total area (ha)	Percent
1.	Badra	239	8.3
2.	Chhohri	26	0.9
3.	Harrad	796	27.8
4.	Jamuna	1099	38.3
5.	Piyari	214	7.5
Total ..		2374	82.8
ii.	Other features including Nalla, Habitation, Railway line, Road, Tank excavated area and OB Dumps etc.	492	17.2
Grand Total ..		2866	100.0

4. Land Capability Classification :

Sr. No.	Land Capability class	Area (ha)	Percent	Soil Series
1.	II.	1338	56.5	Chhohri, Jamuna Piyari, Badra, Harrad
2.	III	869	35.7	Harrad, Jamuna, Piyari.
3.	IV	61	2.6	Jamuna, Piyari
4.	VI	106	4.5	Piyari
Total ..		2374	100.0	

5. Salient features and specific problems :

1. The survey area is covered by deep to very deep soils.
2. A large part (48.6%) of the surveyed area suffers from moderate erosion hazards.
3. Areas measuring 61 ha (2.6%) and 106 ha (4.5%) suffer from severe to very severe erosion hazards respectively. These lands require immediate erosion control measures.
4. There is 26.8 million cubic metres of top soil available for rehabilitation purposes.