## **REHABILITATION OF MINE WASTELANDS**

Specifications and salient technical	The land is reshaped into terraces and slopes for rainwater harvesting and terrace for
features	transplanting seedlings.
	Planting pits (60 cm <sup>3</sup> ) at 3 m spacing in rows 9 m apart are filled up with necessary growing
	medium, consisting of mixture of fine sand /farm soil and farmyard manure in 2:1 ratio.
	Eight species of trees and seven of shrubs could be planted at 3 to 5 m in a row which
	could be 6 to 9 m apart.
	The interspaces could be grown with forage grasses, perennial medicinal plants and
	cucurbitaceous vegetables and cereals e.g. pearl millet.
Performance results	Within three years, area is rehabilitated. Trees and shrubs attain 2-4m height and 1-4 m <sup>2</sup>
	canopy cover. Forage grasses, cereals and other intercrops grew successfully.
Likely cost	`20,000/- per ha
How the new technology will impact the	On an average farmer could produce about 150 kg pearl millet ha <sup>-1</sup> and 350 kg legume ha <sup>-1</sup>
income of the farmers and its benefits	before mining. After mining, these lands remain barren and unproductive. After
over conventional technologies/know-	rehabilitation it was possible to obtain about 5-7 tons of wood per ha where previous
how in terms of savings in cost of	productivity was negligible. Cultivation of crops between the two rows of trees could also
operation, inputs, timeliness and other	produce about 150-200 kg pearl millet per ha. Additionally, Cenchrus ciliaris yielding about
pertinent information	1.5-2 tons ha <sup>-1</sup> could also be produced from inter tree space.
Social/environmental/other benefits	Arid ecosystem attains ecological stability on sustainable basis only after having perennial
	plant cover. This technology provided a perennial plant cover of trees, shrubs and
	grasses, which has survived for the last ten years.
	After land is acquired for mining, the land holder becomes landless. The compensation
	amount paid to the land owner gets exhausted due to poor fiscal control in villages.
	Consequently, these land owners later become labourers. By rehabilitation, these lands
	become suitable for agroforestry and silvipasture development providing much needed life
	support in the fragile arid ecosystem.
Any special requirements for its	A well shaded nursery, perennial source of irrigation water, polythene packets, FYM, pond
successful realization; any other	silt, local sand/ soil, seeds/ cuttings of selected species, trained gardener and some
standards	labourers.



## After 2-3 years of Rehabilitation

