



Survey of The Indian Sponge Iron Industry

Table 15: Captive Power Generation Facility in Indian Coal Based Sponge Iron Industry

State/Region	Total No of Units	Number of units with such facility
Jharkhand	11	2
Orissa	33	4
West Bengal	30	0
East Total	74	6
Andhra Pradesh	12	1
Karnataka	13	1
Tamil Nadu	2	0
South Total	27	2
Chattisgarh	38	8
Goa	3	0
Maharashtra	5	0
West Total	46	8
All Total	147	16

Waste Utilisation Measures :

- Managing the waste arising out of normal production process in a way to maintain hygienic atmosphere within the plant, ensure safe working conditions and control further sources of pollution is an important activity for the coal based sponge iron producers. The Survey has attempted to find out the nature of waste utilization measures available in the present day coal based sponge iron industry. The findings show that most are aware of the nature of the waste generated during production and are already equipped with measures to handle such wastes efficiently and meaningfully. The typical wastes generated and the way they are utilized are enumerated in Table 16 below.

Table 16 : Typical Wastes Generated and Utilisation Measures in Indian Coal Based Sponge Iron Industry

Fly Ash	Iron ore
Fly ash used for fly ash bricks, road construction	Iron ore fines being used in fly ash bricks / sale to cement industries
Also used for filling up of low-lying areas	Iron dust used for briquetting
Waste hot gases	Coal char / Dolochar
	Coal char used as fuel in captive power plant based on fluidised bed boiler technology
Used in co-generation of power (WHRB)	Coal char/dolo char used for back-fillings, filling up of low-lying areas
	Coal fines being used in power plant
	Char dust used for making bricks
Sludge	Direct sale to market
Dumped at sludge ponds	Waste water
Grinded and used for earth filling	After re-treatment, used for spraying, dust suppression, sanitary purposes, plantation