SURVEY OF THE INDIAN SPONGE IRON INDUSTRY

A REPORT

2005-2006

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(Constituted by Govt. of India)
AN ISO 9001 : 2000 ORGANISATION

Table 15: Captive Power Generation Facility in Indian Coal Based Sponge Iron Industry		
State/Region	Total No of Units	Number of units with such faciilty
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
	Direct sale to market
Sludge	**Waste water**
Dumped at sludge ponds	
Grinded and used for earth filling	After re-treatment, used for spraying, dust suppression, sanitary purposes, plantation