









Project Description

- Major Objective of the this project is to improve cleanliness of work environment, Fugitive emissions control, controlling spillage, increase productivity, Reduce coke consumption at Blast Furnace, Power specific consumption.
- Natural resource conservation & CO2 reduction: Reduce coke consumption at Blast Furnace by using of sinter % in burden 73% to 80% (by 1% increase in Sinter burden - 1 kg/THM coke saving)
- Spillage Control: One Spillage arrest One person/day (OSOP) Spillage Control program has been implemented.
- Resource conservation: Reduce specific power consumption, by increase the Sinter production
- Fugitive Emission control: Reduce drastically visible dust & fugitive emission around the Sinter plant.
- Waste Recycling in sinter plant : Conserve natural resources (iron ore) by waste recycling

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5



Successfully commissioned Modu power system in ESP and improve the dust collection at System

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Challenges 2/2 - Mitigation Plan 1. Input iron ore fines micro fines -1mm size load > 55%. Countered with quick lime usage and changed the portion of dry zone , wet zone and nodulizing zone in the primary mixing drum. 2. Daily stoppage for hot screen greasing and frequent breakdown of hot screen. Modified Hot screen drive system from grease lubrication to oil lubrication. Availability increased by 1.5%/day. 3. Sinter Product dumping to the ground due to frequent cut of shuttle conveyor between product storage bunkers. Incorporated Y chute in place of shuttle conveyor between product bunkers and eliminated product dumping to ground and emissions. Frequent Conveyor change and maintenance of shuttle conveyor eliminated. 4. Emission during dust dumping from ESP. Replace humidifier system with twin type digester for effective mixing of dust with water before dumping. 5. Fugitive emissions at product transfer points. Inspection doors provided at all horizontal duct lines, scheduled cleaning of duct lines for effective suction at transfer points and eliminated fugitive emissions. **ARJAS STEEL** 16











