



**CONCAST**

## **Concast Steel & Power Limited (In Liquidation)**

### **Jharsuguda Plant (Asset Lot – 4)**

*Asset Sale Memorandum*

May 2019

# Preface

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As you may be aware, The Hon'ble NCLT, Kolkata Bench, vide their order dated 26<sup>th</sup> September 2018 has ordered the liquidation process to begin for the assets of Concast Power & Steel Limited ("Company") and has appointed Mr. Kshitiz Chhawchharia (Reg. No. IBBI/IPA-001/IP-P00358/2017-18/10616) as the Liquidator of the Company.

Section 35 of the Insolvency and Bankruptcy Code, 2016 ("the Code"), inter-alia, empowers the Liquidator to sell the immovable and movable property and actionable claims of a company in liquidation by public auction or private contract, with power to transfer such property to any person or body corporate, or to sell the same in parcels in such manner as may be specified.

This document is aimed at providing interested buyers key details about the Jharsuguda unit (Asset lot - 4) of the Company being offered for sale under liquidation process.

Currently, the assets of the Company are being offered to the interested buyers on Asset lot basis and individual assets within the Asset lot are not being offered for sale.

If the entire Asset lot is not sold within an envisaged time period then the Liquidator at his discretion may consider offering the assets under the Lot in parcels or individually.

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# Abbreviations

<b>IBC</b>	Insolvency & Bankruptcy Code 2016	<b>NCLT</b>	National Company Law Tribunal
<b>MTPA</b>	Metric Tons Per Annum	<b>JSG</b>	Jharsuguda
<b>CAGR</b>	Compounded Annual Growth Rate	<b>SKLM</b>	Srikakulam
<b>EBITDA</b>	Earnings Before Interest Tax Depreciation and Amortization	<b>BNK</b>	Bankura
<b>EBIT</b>	Earnings before Interest & Tax	<b>RKL</b>	Rourkela
<b>PAT</b>	Profit After Tax	<b>CBIL</b>	Concast Bengal Industries
<b>INR</b>	Indian Rupees	<b>CIL</b>	Concast Ispat Ltd.
<b>QC</b>	Quality Control	<b>DSL</b>	Dakuni Steels Limited Srikakulam
<b>USD</b>	United States Dollars	<b>SMS</b>	Steel Melting Shop
<b>DRI</b>	Direct Reduced Iron	<b>EAF</b>	Electric Arc Furnace
<b>MBF/ BF</b>	Mini Blast Furnace	<b>SCN</b>	Show Cause Notice

## Quality Asset

- ▶ Integrated Steel plant with wide product portfolio
- ▶ ~90% of peak historical O/P
- ▶ Provision for
  - ❑ Private railway siding
  - ❑ Coal washery
  - ❑ 70 MW of Captive power plant

## Strategic Location

- ▶ Located ~22 KM from Hirakud river bed.
- ▶ Proximity to iron ore and coal mines
- ▶ Closely Connected to major modes of transport
- ▶ Available land for expansion

## Customers

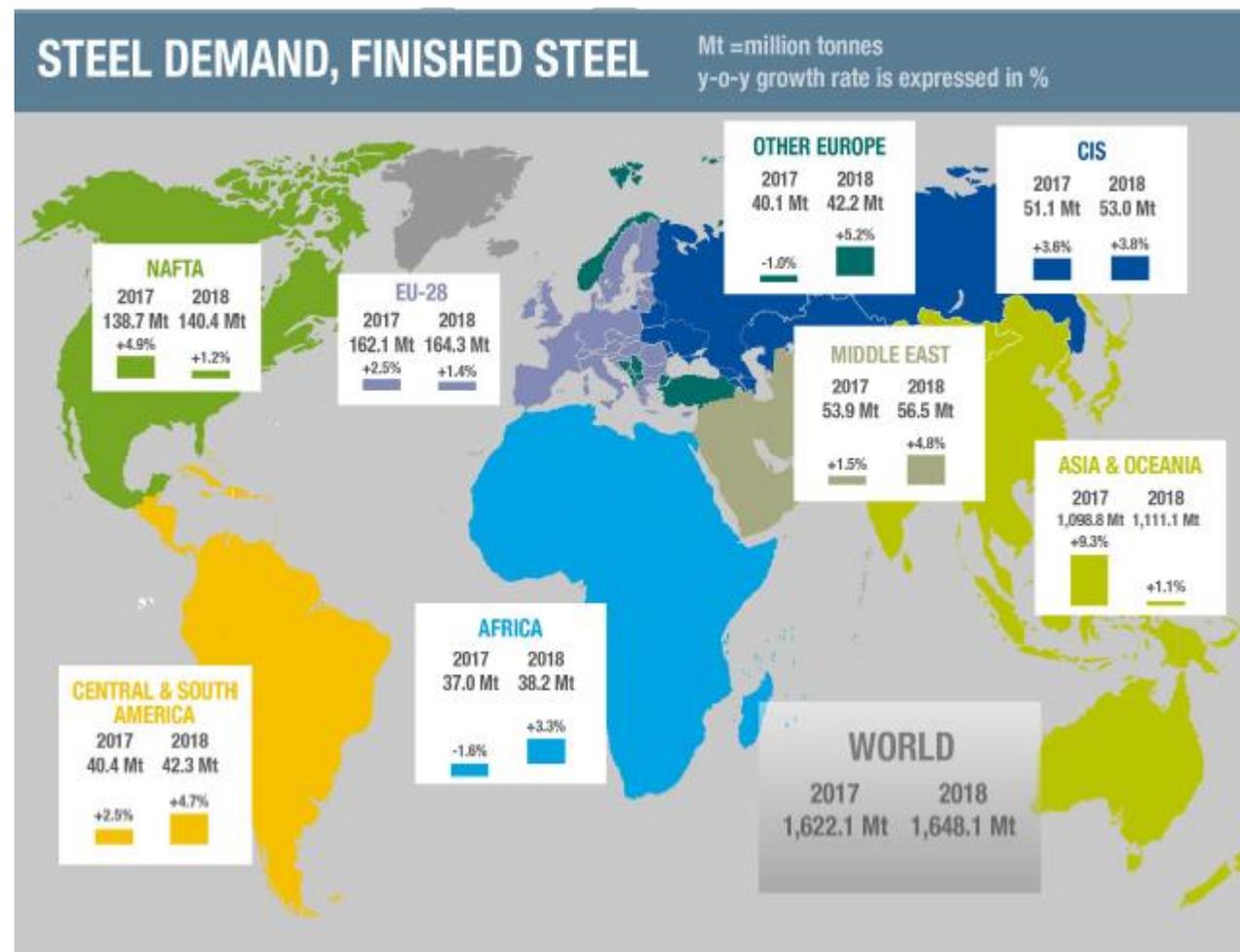
- ▶ Access to key customers in East & North India
- ▶ Top customers include Military Engineering services (Pan India Supplier), NHAI and Jharkhand State Electricity Board

*Opportunity to acquire assets at an optimal investment with a high margin, low cost manufacturing base through access to high quality manufacturing assets, strategically located to raw material sources and low cost transportation infrastructure*

# INDUSTRY OVERVIEW

*Globally, the steel market is expected to witness moderate growth, with improved sentiment in Asia counterbalanced by a renewed demand in US and developed markets.*

- ▶ Global crude steel production stood at 1691.2 Mt in 2017 indicating a YOY growth of 5.3%. All but CIS countries reported 4% growth .
- ▶ India contributed to 6%of the global steel production, with China leading the pack by 49% share of the global steel production.
- ▶ Extension of policy stimulus to sustain growth and increase in commodity prices especially in metals and crude oil expected in 2018. Growth in Global GDP expected at 3.9-4%.
- ▶ US economy has been displaying strong recovery – renewed consumer and business confidence
- ▶ Growth recovery primarily driven by :
  - Increase in global manufacturing activity
  - Resilient growth in China driven by Supply side reforms
  - Pickup in commodity prices
- ▶ India, ASEAN and MENA – expected to grow at 5-6% to be a key driver. Global Steel Demand is expected to be at 1,648 Mt in CY 2018

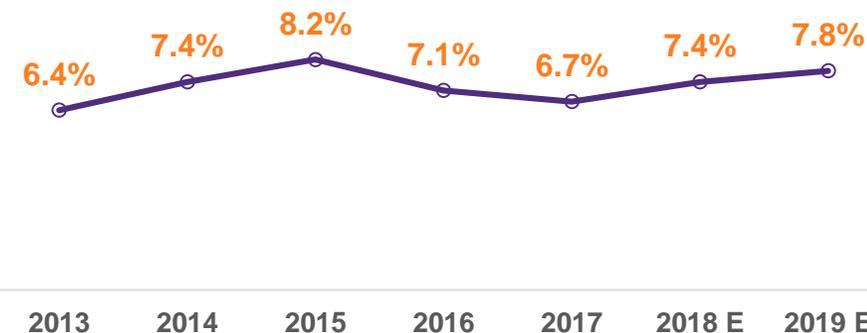


Source: The World Steel Association (worldsteel.org), Ministry of Steel, Govt. of India

## State of the economy

- ▶ India is one of the important drivers of world growth. While the world economy grew by 3.2%, Indian economy expanded by 6.7% in 2017
- ▶ While the economy experienced major policy overhaul in terms of demonetization and implementation of GST, the effects have been eased and benefits have emerged making India a stronger nation.
- ▶ There has been a substantial improvement in GDP growth to 7.7% in Q4 FY2018 from 6.1% in Q4 FY2017. the growth was led by pick up in Gross fixed capital formation and private final consumption expenditure offsetting the slowdown in growth of Government final consumption expenditure and exports.
- ▶ The Index of Industrial production witnessed a rise to 4.6% in FY 2017 from a dip of 3.3% in FY 2016, led by an improvement in performance of all the sectors, namely mining, manufacturing and electricity.

## Real GDP growth

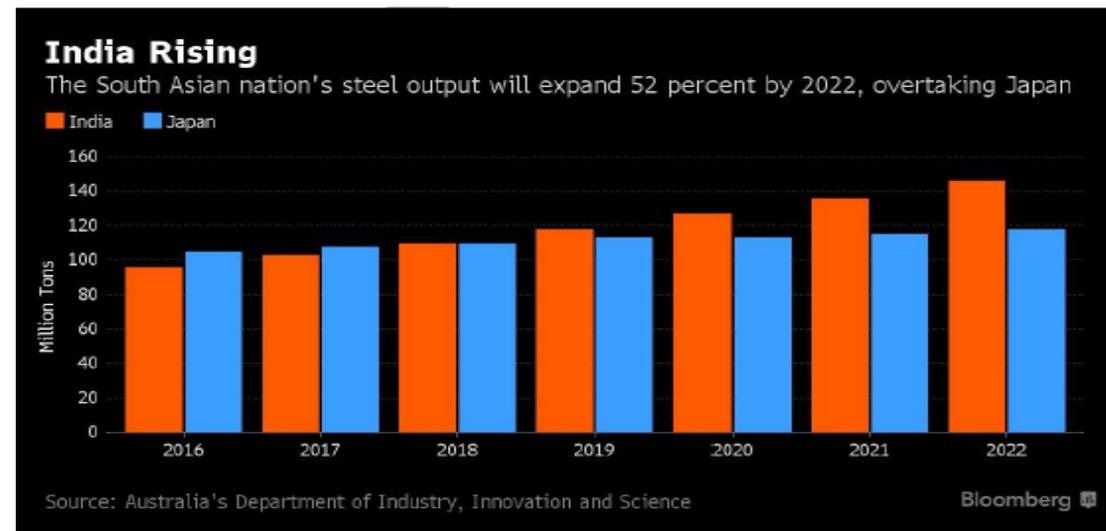


## Growth of GDP and its Components (in %, Constant 2011-12 Prices, YoY)

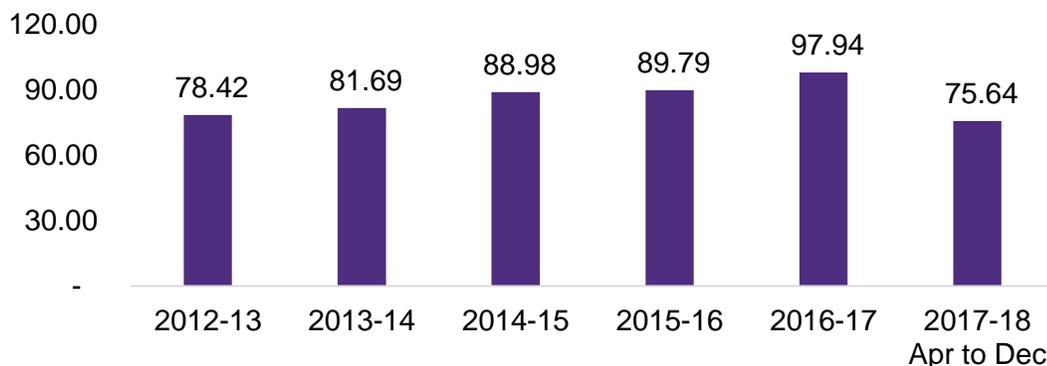
Components	Q4 FY17	Q1 FY18	Q2 FY18	Q3 FY18	Q4 FY18
Private Final Consumption Expenditure	4.2%	6.9%	6.8%	5.9%	6.7%
Government Final Consumption Exp.	22.5%	17.6%	3.8%	6.8%	16.8%
Exports	7.0%	5.9%	6.8%	6.2%	3.6%
less Imports	6.6%	18.5%	10.0%	10.5%	10.9%
Gross Fixed Capital Formation	6.0%	80.0%	6.1%	9.1%	14.4%
GDP	6.1%	5.6%	6.3%	7.0%	7.7%
Agriculture, Forestry and Fishing	7.1%	3.0%	2.6%	3.1%	4.5%
Industry	5.0%	10.0%	6.1%	7.1%	8.8%
Services	6.3%	9.5%	6.8%	7.7%	7.7%
GVA at Basic Prices	6.0%	5.6%	6.1%	6.6%	7.6%
GVA ex-Agriculture	5.8%	6.0%	6.6%	7.5%	8.1%

*The 3rd largest crude steel producer, India is a significant market that has seen strong headwinds in the past, but recovery is on track with a positive outlook from both demand and supply aspects*

- ▶ India's GDP is expected to grow at 7-7.5% in the near future Driven by increased Government spending on infrastructure and thrust on developmental projects as well as consumption led growth coupled with strong growth in service sector.
- ▶ Steel is one of the key sectors of the economy – contributing to 2% of the country's GDP and employing around 2.5 million people in steel and allied sectors.
- ▶ Currently the world's 3<sup>rd</sup> largest producer of crude steel, India is expected to become the 2<sup>nd</sup> largest globally. The country is the largest producer of direct reduced iron (sponge iron) globally.
- ▶ Crude steel production capacity increased from 97 million tons per annum in 2012-13 to 128 million by 2016-17

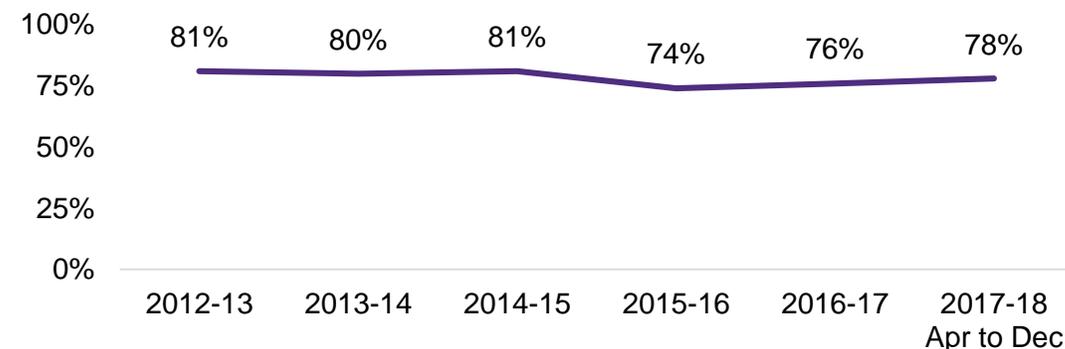


### Domestic Production of Crude Steel (Million Metric Tons)



Source: The World Steel Association (worldsteel.org), Ministry of Steel, Govt. of India, FICCI

### Capacity Utilization



# India – Key Growth Initiatives & Outlook

**Steel Production is targeted to double from current levels by 2031**

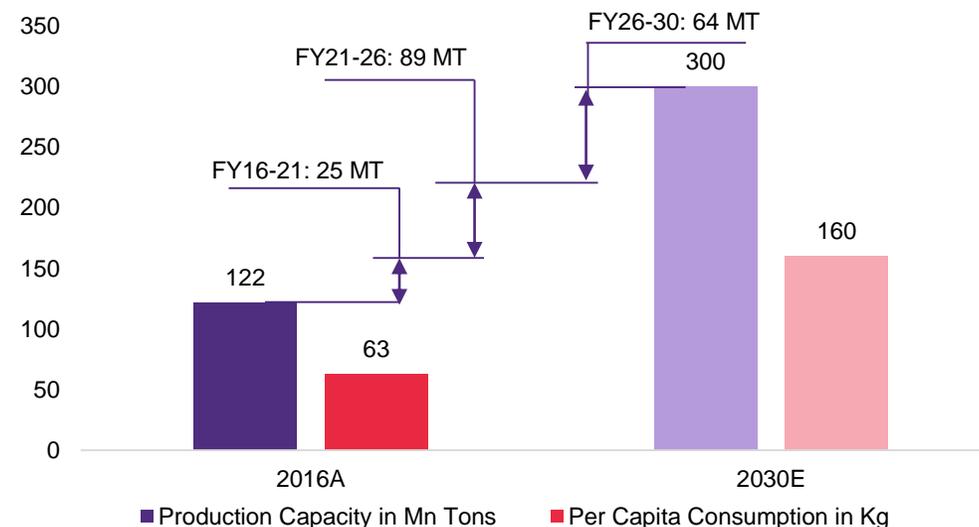
## Demand & Supply

- ▶ Low per capita steel consumption is expected to continue to increase, and presents opportunities for growth in domestic market
- ▶ Infrastructure, railways, and automobile sectors expected to drive consumption
- ▶ Increased iron ore production is expected to support growing demand through reduced reliance on imported ore
- ▶ Adequate ore reserves and availability of relatively low cost manpower

## Regulatory Support

- ▶ 100% FDI through automatic route
- ▶ National Steel Policy 2017 to provide support on key issues
  - Facilitate SPVs for greenfield Capex
  - Allocate water and ensure availability of litigation free land
  - Formation of steel clusters & clusters focused around major ports
  - Encourage development of alternative logistics such as slurry pipelines and conveyors
- ▶ Support to domestic industries:
  - Anti dumping duties on 47 steel products till 2021
  - Other measures include minimum import price, safeguard duty, and quality control order

## Forecast – Capacity & Per Capita Consumption



## Current Footprint – Production Routes

Route	Regions	Capacity
Blast Furnace	North East Chhattisgarh, North Orissa, Eastern Bihar, Western Bengal, South Gujarat, North Karnataka	50 Mn Tonnes
Electric Arc Furnace/ Induction Furnace	Southern Orissa, East Central Chhattisgarh, Eastern Gujarat, North western Maharashtra, Eastern Punjab, Haryana	74 Mn Tonnes

Source: The World Steel Association (worldsteel.org), Ministry of Steel, Govt. of India, FICCI, <https://www.alphainvesco.com/blog/steel-industry-in-india/>

# **BUSINESS OVERVIEW**

## **CONCAST STEEL & POWER LIMITED (CONCAST) – IN LIQUIDATION**

## Introduction

- ▶ Concast Steel & Power Limited (“CSPL” or “Concast”) is an integrated manufacturer of iron and steel products.
- ▶ Operates integrated facilities consisting of sintering plant, MBF, CCM, SMS and DRI (Direct Reduce/ Sponge Iron) units.
- ▶ Produces a variety of structural steel of standard quality for different applications such as defence, railways, infrastructure and construction industries.
- ▶ The company possesses all major product and manufacturing certifications and boasts of world class equipment and assets.
- ▶ The Bankura Plant of Concast has 1159 employees of which 1027 are contract labours.

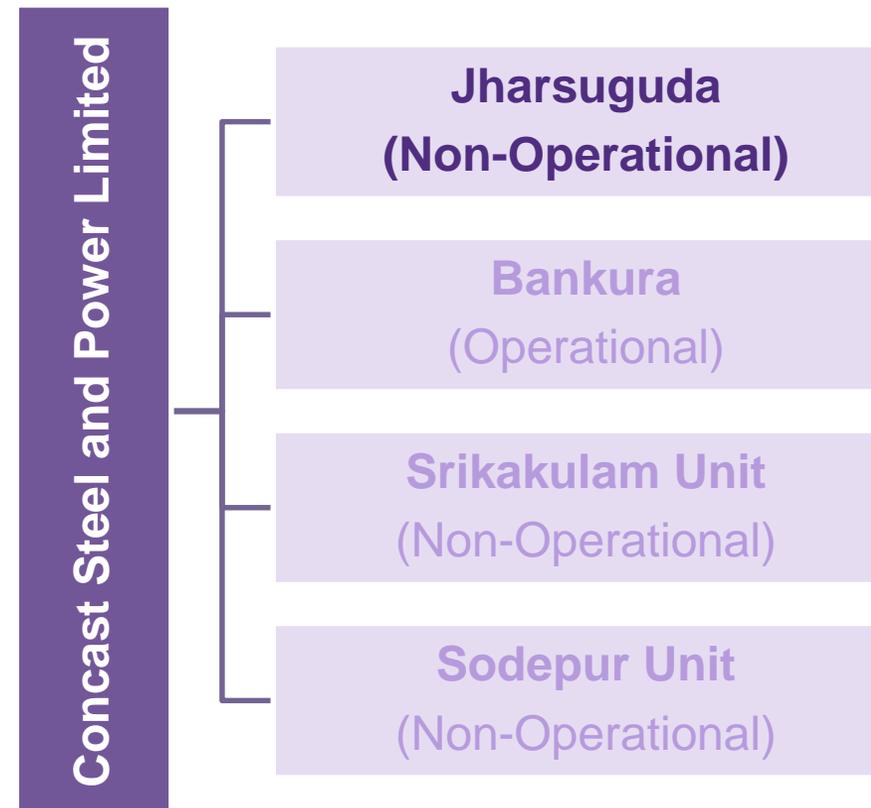
## Select Clientele



## Certifications



## Corporate Structure



## Current Status

The Hon'ble NCLT, Kolkata Bench, vide their order dated 26 September 2018 has appointed **Mr. Kshitiz Chhawchharia (Reg. No. IBB/PA-001/IP-P00358/2017-18/10616)** as the **Liquidator of the company** with directions to liquidate the assets of the company along with specific directions to liquidate the Bankura unit as a going concern as per the provisions laid under the Insolvency and Bankruptcy Code, 2016.

## Product Portfolio

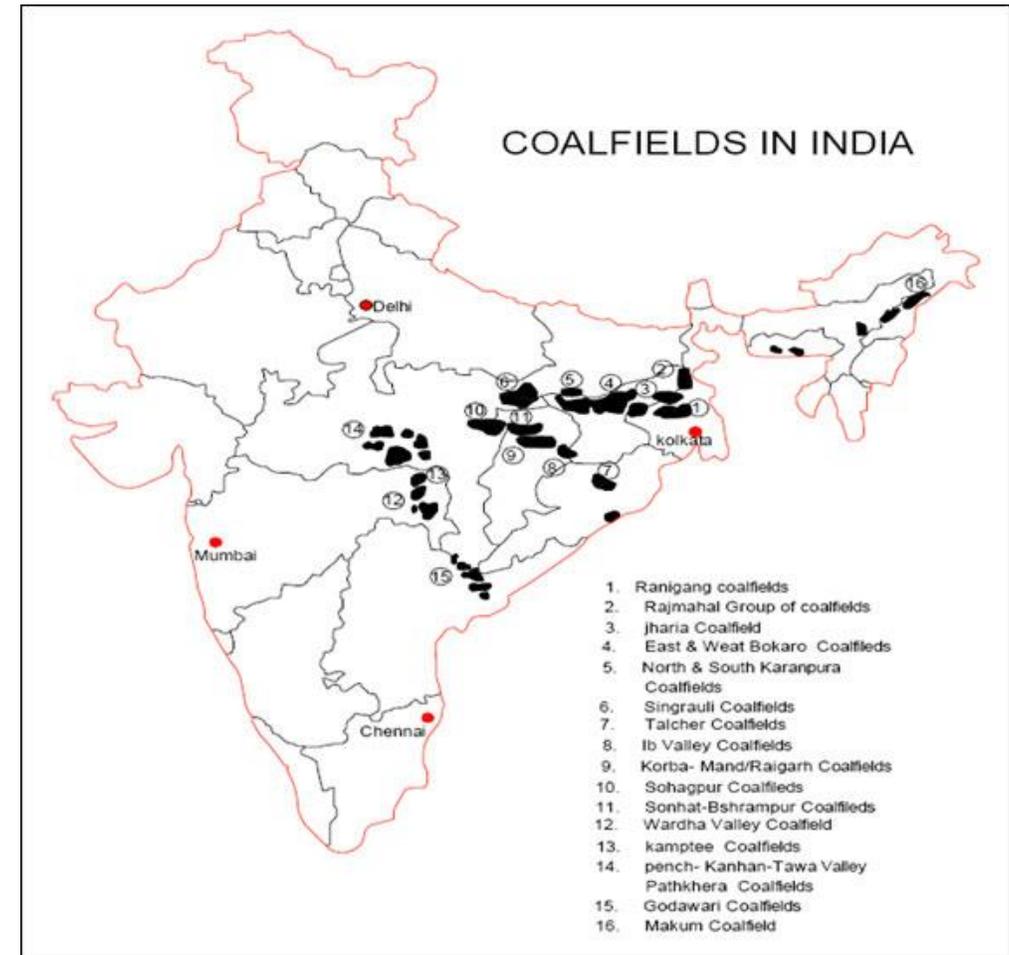


*Iron Ore being one of the most important Raw Material in the Steel Industry, is available in abundance in the regions of the Company's units.*

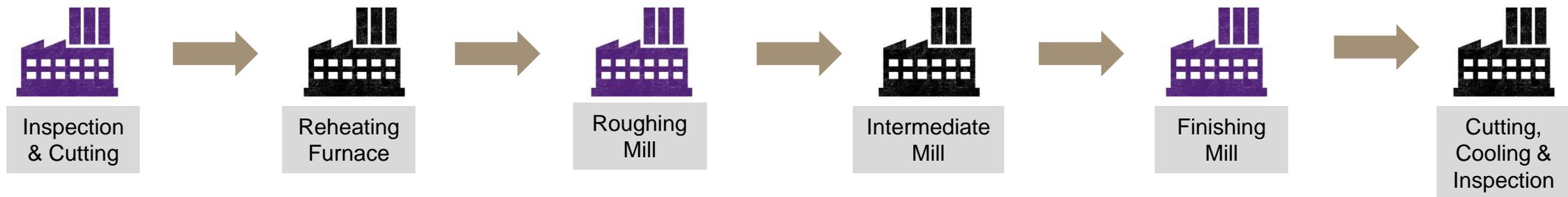
Name of the Owner	Location of Mine
M/s K.N. Ram & Co.	Roida - II
M/s Kalinga Mining Corporation.	Jurudi
M/s Kaypee Enterprises	Thakurani
M/s Mid East Int. Steel Ltd.	Roida- 1 (Sidhamath)
M/s Patnaik Minerals Pvt. Ltd	Jaribahal
M/s Sarda Mines (P) Ltd.	Thakurani Block-B
M/s Sirrajuddin & Co.	Balda Block
M/s Tarini Minerals (P) Ltd.	Deojhar
R.P. Sao	Guali
M/s Essel Mining & Industries Ltd.	Kasia
M/s Bhanja Mineral(P) Ltd	Ingani jharan
M/s M.L. Rungta	Siljora-Kalimati
M/s Mala Roy & Others	Jalhuri
M/s O.M.C. Ltd.	Roida - C
M/s Rungta Mines Ltd.	Jajang
R.B. Das	Dalpahar & Baitarani R.F.
Smt. Indrani Patnaik	Unchabali
Tarini Prasad Mohanty	Naibega & Katupali

*There are numerous coalfields in the Eastern India region providing for easy & cheaper supply of coal to all the Company's units*

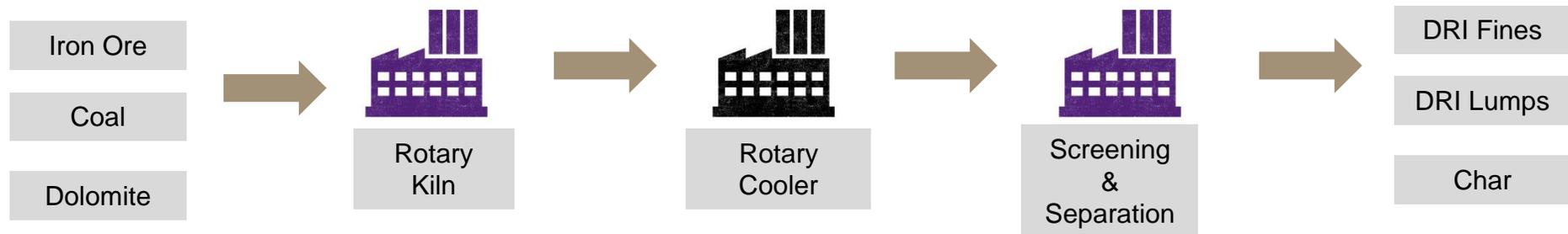
**Close Proximity to Back-end supplies**



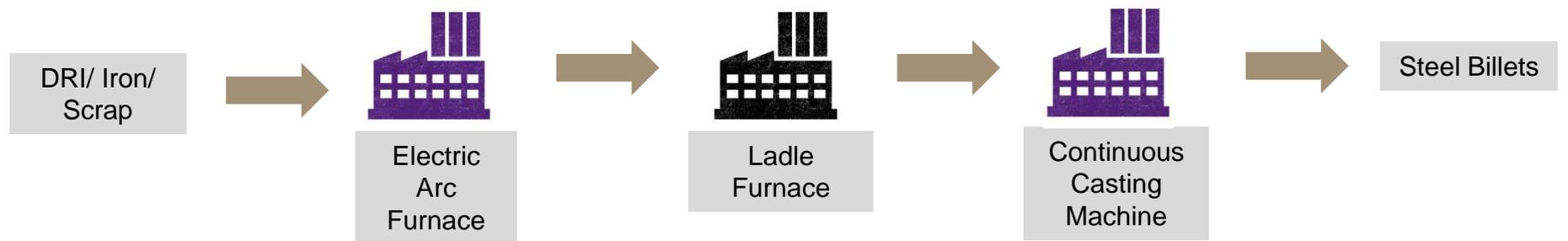
## Rolling Mill



## DRI / Sponge Iron



## Steel Melting & Continuous Casting



- ▶ **Large Integrated Steel Producers** such as Tata Steel, SAIL and JSW have been catering to the market for quite some time now. However, a major part of the market is served by the **Secondary Producers**, whose number is estimated to be over 300 in the country.
- ▶ **Revenue from Operations and EBITDA of some key market competitors of Concast Steel and Power Limited have been provided below:**

(INR in lacs)

Revenue from Operations		
Company Name	FY17	FY15
Shyam Metalics and Energy Limited	115,678	95,713
Electrosteel Limited	277,429	288,875
Adhunik Industries Limited	37,433	41,007
Shyam Sel and Power Limited	142,297	99,568
Jai Balaji Industries Limited	156,390	121,257

(INR in lacs)

EBITDA		
Company Name	FY17	FY15
Shyam Metalics and Energy Limited	16,085	5,715
Electrosteel Limited	14,517	8,469
Adhunik Industries Limited	2,256	2,596
Shyam Sel and Power Limited	17,880	12,603
Jai Balaji Industries Limited	(6,521)	(13,614)



# ASSET LOT - 4

## JHARSUGUDA

The Hon'ble NCLT, Kolkata Bench, vide their order dated 26<sup>th</sup> September 2018 has appointed **Mr. Kshitiz Chhawchharia (Reg. No. IBBI/IPA-001/IP-P00358/2017-18/10616)** as the **Liquidator of the company** with directions to liquidate the **assets of the Jharsuguda unit** as per the provisions laid under the Insolvency and Bankruptcy Code, 2016.

## Introduction

- ▶ Integrated Steel Plant comprising of Sinter, DRI, MBF, SMS and Rolling Mill along with all auxiliaries and supporting facilities like Captive Power Plant and Coal Washery located in Jharsuguda, Odisha.
- ▶ Leased land
- ▶ Partnership with private suppliers of iron and manganese ore
- ▶ Development of private railway siding and coal washery is under process.
- ▶ Well connected to major iron ore and coal mines which helps in reduction of procurement cost.
- ▶ Easy availability of skilled labour with respect to steel technical expertise.

## Built-up area

Unit	Year of Construction	Area (in acres)
DRI Unit No. 1	2005	1.85
DRI Unit No. 2	2005	1.4
Ferro Alloy	2008	1.67
SMS	2005	1.32
Switch Yard	2010	0.22
Tmt Rolling Mill	2008	1.25
Structure Rolling Mill	2008	1.5
MBF	2008	1.4
Sinter Plant	2010	0.09
Common Facilities	2005	1.33
<b>Total Built-Up Area</b>		<b>12.04</b>

## Land Details

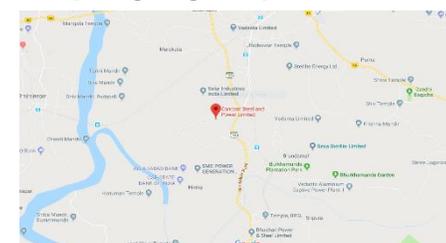
Particulars	Area (in acres)
Leasehold Land (Till 2078-Govt. Lease)	196.19
Built Up Area	12.04
Vacant Land	184.15

## Product Portfolio - Capacity ('000 MTPA/ MW)

Plant	Product	Operational	Peak Utilisation (%)	Under Construction
Sinter	Sintered Ore	495	88%	NA
MBF	Pig Iron	280	90%	NA
DRI	Sponge Iron	264	81%	231
SMS	Non alloy billets -	264	90%	NA
Rolling Mill	TMT Bars and Wire Rods	127	95%	NA
Rolling Mill	Structural products - Channels, sections	120	95%	NA
Ferro Alloys	Silico Manganese alloys, etc.	113	80%	NA
CPP	Power	-	-	70

## Connectivity

<https://goo.gl/maps/duzaetBcaVu>



~1 KM

State Highway 10 commencing from Rourkela and leading to Sambalpur passes near from the factory premises.



~400 KM

The subject property is 120 Km away from Visakhapatnam Port and 130 Km away from Gangavaram Port



~14 KM

Jharsuguda airport is approximately 14 kms away from the plant.



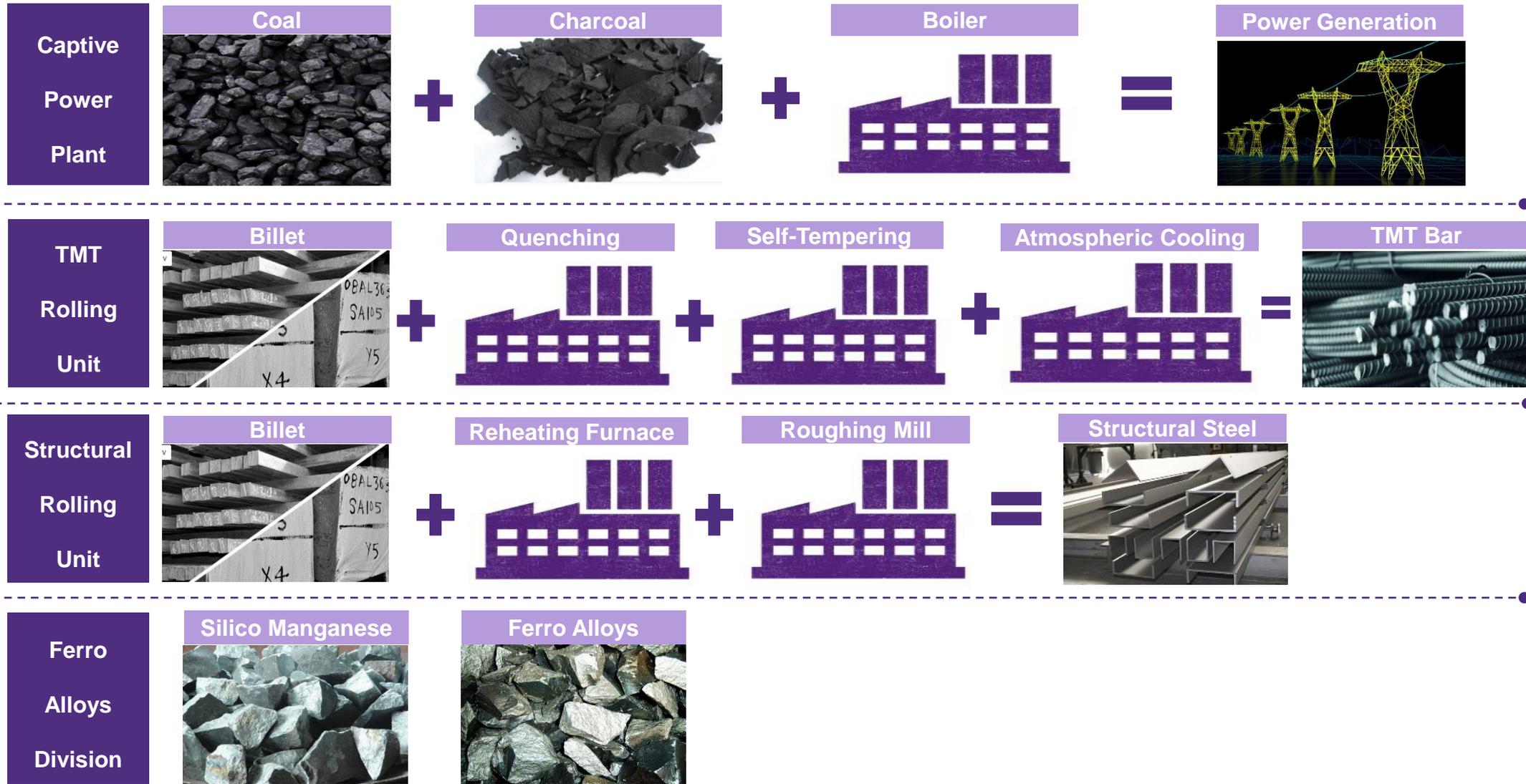
~5 KM

Dusi Railway Station is approximately 1 km from the property under valuation

# Jharsuguda Plant - Product Portfolio (1/2)



# Jharsuguda Plant – Product Portfolio (2/2)



# Jharsuguda Plant - Location

## Located in Odisha

- ▶ Odisha is one of the 29 states of India, located in eastern India. It is surrounded by West Bengal to the North – East, Jharkhand to the North, Chhattisgarh to the west and Andhra Pradesh to the south. Odisha has 485 km of coastline, 2,53,050 km. of roads and railway network of 2,540 km.
- ▶ Odisha is one of the most mineral-rich states in India. Key minerals found in the state are iron, coal, bauxite, manganese, nickel, chromite, limestone, dolomite, graphite, decorative stones, beach sand, China clay, tin ore etc.. Odisha is one of the favored investment destinations for domestic and international iron and steel players as well as one of the largest producers of iron and steel in India.

## About Jharsuguda

- ▶ Jharsuguda is located on the western front of Odisha having an area of 2081.0 sq. km and is approximately 327 kms. away from the state capital Bhubaneswar by road.
- ▶ The district of Jharsuguda is rich in minerals deposits, especially coal. In the state of Odisha, Jharsuguda is one of the most urbanized and industrially developed districts. It has very well connections with all parts of the country by rail and road

## Neighbourhood

- ▶ Jharsuguda is fast emerging as the economic hub of Odisha. the state government has formed a master plan for the city's development
- ▶ Due to various manufacturing facilities available in the vicinity of Jharsuguda district, both skilled and unskilled labour is easily available.
- ▶ Jharsuguda has a unit of **Ultra Tech Cement**, which is India's largest cement manufacturing company, at Dhutra
- ▶ **Bhushan Power & Steel Ltd.** has successfully implemented 2.3 MTPA integrated steel & power plant in Jharsuguda, Odisha
- ▶ **Vedanta Ltd.** is one of India's largest private sector power generators. It operates a 2,400 MW (four units of 600 MW each) thermal coal-based commercial power facility at Jharsuguda .
- ▶ **SMC Power Generation Ltd.** Is an Integrated steel plant at Hirma, having manufacturing capacity of 2,00,000 TPA sponge iron, 2,50,000 TPA Billets, 1,00,000 TPA TMT bars and a Captive power plant of 33 MW.

## Micro Location : Kukurjangha, Badamal District

- ▶ Badamal is situated in Saintala Tehsil, Balangir District, Odisha. It is located 6 KM towards South from District head quarters Jharsuguda. 4 KM from Jharsuguda, 301 KM from State capital Bhubaneswar.
- ▶ Nearby Villages are Hirma (4 KM), Marakuta (4 KM), Marwari Para (4 KM), Chowki Para (4 KM), Jamera (5 KM). Badamal is surrounded by Kirmira Tehsil towards East, Rengali Tehsil towards South, Kolabira Tehsil towards East, Sundargarh Tehsil towards North.

# Jharsuguda Plant - Stock Report & Licenses

## Inventory Status as of 26-Sept 2018

Inventory	Raw Material
	Quantity (in MT)
Iron Ore Lumps	7,329
Coal	424
Lam Coke	1,468
Dolomite	960
Lime Stone	284
Iron Ore Fines	1,400
<b>Total</b>	<b>11,866</b>

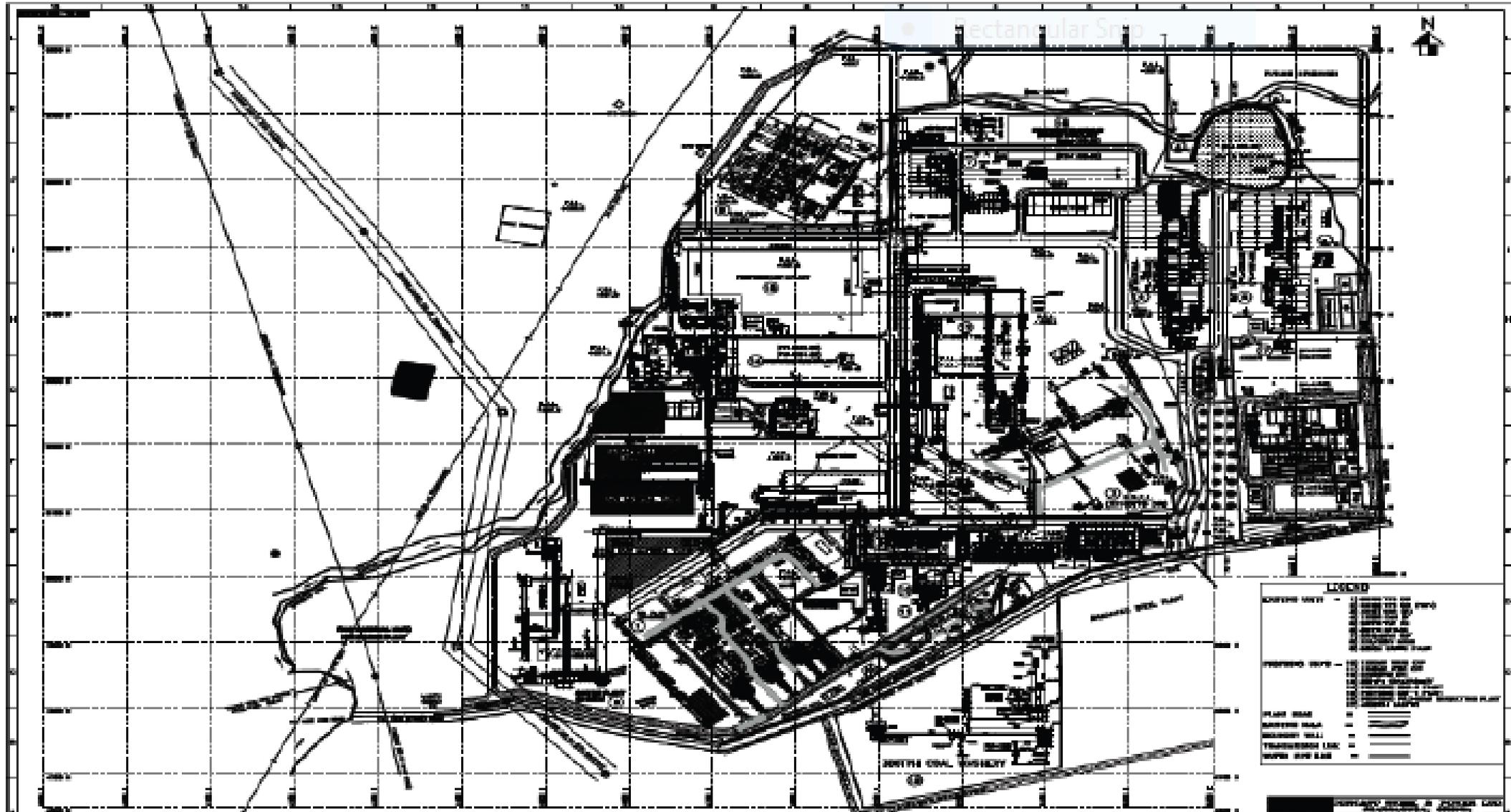
Inventory	Finished Goods
	Quantity (in MT)
Billets	99
Sponge Iron	8
Pig Iron	213
Cast Iron Skull	280
Bars & Rods	58
Sponge Iron Fines	30
Sinter	4,639
TMT Bars	104
<b>Total</b>	<b>5,430</b>

Inventory	By-Product
	Quantity (in MT)
Miss roll & End Cutting	14
Coke Fines Dust	147
Dolomite-Dust	516
<b>Total</b>	<b>677</b>

## Licenses

Approval / License	Issuer/ Authority	Details
Consent to Operate – Jharsuguda	State Pollution Control Board, Odisha	Consent to operate No. 12816/IND-I-CON-4648 granted up to 31/03/2018
Factory License - Jharsuguda	Directorate of Factories And Boilers, Odisha	License No JH-100 & Sr. No. 04683 valid up to 31/12 2017
Military Engineering Services Approval for TMT Jharsuguda	Engineer in Chief, Integrated HQ, New Delhi	Approval Letter No. 83044/STEEL/535/E2 Des-3

# Jharsuguda Plant - Layout



# Jharsuguda Plant - Machinery Details – Steel Melting Shop

Sr. No.	Name of the Machine	Make	Qty	Year of Installation
A	Billet Manufacturing Section - 2,64,000 MTPA Capacity			
1	Induction Furnace	EMT Megatherm	4 Nos.	2005
2	EOT Crane (02 Nos)	Federal engineers	2 Nos.	2005
3	EOT Magnet Crane (08 Nos)	Federal engineers	8 Nos.	2005
4	EOT Crane (02 Nos)	Federal engineers	2 Nos.	2005
5	Rosy Crane	Rosy Crane Pvt.Ltd.	1 Nos.	2005
6	Liquid Oxygen Tank	Linde India Ltd.	1 Nos.	2005
7	D.G. Set	Cumins	1 Nos.	2005
8	Pumps & Motors for 4 x 18 MT Inuction Furnace		4 Lot	2005
8.1	D.G.Pump	Kirloskar	1 Nos.	2005
8.2	Furnace coil cooling pump	Kirloskar	6 Nos.	2005
8.3	D.M Heat Exchanger pump	Kirloskar	6 Nos.	2005
8.4	C.C.M primary pump	Kirloskar	4 Nos.	2005
8.5	C.C.M heat exchanger pump	Kirloskar	3 Nos.	2005
8.6	C.C.M secondary Pump	Kirloskar	4 Nos.	2005
8.7	Scale Pit Pump	Kirloskar	3 Nos.	2005
8.8	Hydraulic power pack	Static Hydraulic Pvt.Ltd.	4 Nos.	2005
8.9	Primary Motor	ABB	4 Nos.	2005
8.10	Heat Exchanger Motor	ABB	2 Nos.	2005
8.11	Coil Cooling Motor	ABB	6 Nos.	2005
8.12	D.M Heat Exchanger Motor	ABB	6 Nos.	2005
8.13	Secondary Pump	ABB	4 Nos.	2005
8.14	Reservoir Motor	Kirloskar	2 Nos.	2005
8.15	Reservoir Motor	Kirloskar	1 Nos.	2005
9	Pollution Control Unit With TEFC Motor along with Chimney for 4 Nos. of 18 T Furnace		4 Lot	2005
9.1	Pollution Side Motor	REMI	2 Nos.	2005
9.2	Pollution Motor	REMI	8 Nos.	2005
9.3	Pollution Motor	Industan Electrics	2 Nos.	2005
9.4	Pollution ID Fan	ABB	2 Nos.	2005
10	Furnace Transformer	Megatherm	4 Nos.	2005

Sr. No.	Name of the Machine	Make	Qty	Year of Installation
A	Billet Manufacturing Section - 2,64,000 MTPA Capacity			
11	Electrical Items including Cabling & Earthing for 4 Nos. of 18 T Furnace		2 Lot	2005
11.1	Auxiliary Transformer – 1	EMCO	3 Nos.	2005
11.2	VCB	Siemens	2 Nos.	2005
11.3	VCB	Siemens	5 Nos.	2005
11.4	Float Cum Boost Charger	Caldyne Automatic Ltd.	1 Lot	2005
11.5	Automatic Battery Charger	Power Service	1 Lot	2005
11.6	Battery Charger	Power House	1 Lot	2005
11.7	A.M.F.Panel	JAKSON	1 Lot	2005
11.8	Synchronising Panel	Electro Allied products	1 Lot	2005
11.9	A.M.F.Panel	L & T Limited	1 Lot	2005
11.10	D.G Power Distribution Panel	Electro Allied Products	1 Lot	2005
11.11	L.T Main Incomer Panel	Electro Allied products	1 Lot	2005
11.12	Change over Panel	Electro Allied products	1 Lot	2005
11.13	M.C.C Panel	Electro Allied products	1 Lot	2005
11.14	Change over Panel	Electro Allied products	1 Lot	2005
11.15	Crane Panel	Electro Allied products	1 Lot	2005
11.16	Soft Water Reservoir	Electro Allied products	1 Lot	2005
11.17	Bag Filter Incomer Panel	Electro Allied products	1 Lot	2005
11.18	Auto Harmonic Filter Capacitor Panel	Claritas Power System Solution	1 Lot	2005
11.19	Change over Panel	Electro Allied products	1 Lot	2005
11.20	Capacitor	Claritas Power System Solution	1 Lot	2005
11.21	Lighting DB Panel	Electro Allied products	1 Lot	2005
11.22	SFC Panel	Megatherm	4 Nos.	2005
12	Cooling Tower	Paharpur Cooling Ltd.	1 Lot	2005
13	DM & Soft Water Treatment Plant	Ion Exchange	1 Lot	2005
14	Slag Crusher Machine	Chand Industries	1 Lot	2005
15	Slag Crusher Machine	Chand Industries	1 Lot	2005
16	Laboratory Equipments		1 Lot	2005
16.1	Muffle Furnace		2 Nos.	2005
16.2	Hot Air Oven		1 Nos.	2005
16.3	Strohlein Apparatus		2 Nos.	2005
16.4	Electronoc Balance(Satorius)		1 Nos.	2005
16.5	Electronoc Balance(Dhona)		1 Nos.	2005
16.6	Distillation Unit(Super)		1 Nos.	2005
16.7	Electronic Balance(Caliber)		1 Nos.	2005
16.8	Electronic Balance(Sansui)		1 Nos.	2005
16.9	Temperature Indicator		1 Nos.	2005
16.10	Thermometer		1 Nos.	2005
17	Continous Casting Machine (Billet receiving grid with chain)	Concast	1 Nos.	2008

# Jharsuguda Plant - Machinery Details – TMT Rolling Unit

Sr. No.	Name of the Machine	Make	Qty	Year of Installation
<b>B TMT Rolling Section - 1,27,000 MTPA Capacity</b>				
18	Oil Fired Furnace - Reheat Furnace along with Gasifier Plant	Thermal Engineering	1 Nos.	2008
18.1	Charging Roller Table	Universal Gear Industries	2 Nos.	2008
18.2	Hydraulic Pusher	Universal Gear Industries	1 Nos.	2008
18.3	Ejector	Universal Gear Industries	1 Nos.	2008
18.4	Recuperator	Zooks International	1 Nos.	2008
18.5	Combustion Air Blower	Continental Thermal Eng.	2 Nos.	2008
18.6	Automising Air Blower	Continental Thermal Eng.	2 Nos.	2008
18.7	Furnace Oil service tank	Concast	1 Nos.	2008
18.8	Furnace Oil service tank	Concast	1 Nos.	2008
18.9	Furnace Oil transfer pump	P&D Pump & Gear Industries	1 Nos.	2008
18.10	Pumping & Heating Unit	Continental Thermal Eng.	1 Nos.	2008
18.11	Oil Burner	Continental Thermal Eng.	12 Nos.	2008
18.12	Chimney	Concast	1 Nos.	2008
18.13	Hydraulic Billet Shear	Universal Gear Industries	1 Nos.	2008
18.14	Discharge Roller Table	Universal Gear Industries	1 Lot	2008
18.15	Approach Roller Table	Universal Gear Industries	1 Lot	2008
18.16	Billet Reject Roller Table	Universal Gear Industries	1 Lot	2008
19	Roughing Rolling Stand	Universal Gear Industries	1 Nos.	2008
19.1	3 High Pinion Box	Universal Gear Industries	1 Nos.	2008
19.2	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
19.3	Fly Wheel	Universal Gear Industries	1 Nos.	2008
19.4	Roughing Mill Prime Mover Motor	Kirloskar Electrics	1 Nos.	2008
20	Continuous Roughing Mill Stand	Universal Gear Industries	4 Nos.	2008
20.1	Reduction Gear Box	Universal Gear Industries	3 Nos.	2008
20.2	Dual Output Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
20.3	Pinion Stand	Universal Gear Industries	4 Nos.	2008
20.4	Prime Mover Motor	Kirloskar Electrics	1 Nos.	2008
20.5	Prime Mover Motor	Kirloskar Electrics	3 Nos.	2008
21	Intermediate Mill Stand	Universal Gear Industries	4 Nos.	2008
21.1	2 Hi Pinion Box	Universal Gear Industries	2 Nos.	2008
21.2	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
21.3	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
21.4	Prime Mover Motor	Kirloskar Electrics	2 Nos.	2008
22	Finishing Mill Stand	Universal Gear Industries	6 Nos.	2008
22.1	Pinion Stand	Universal Gear Industries	1 Nos.	2008
22.2	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
22.3	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
22.4	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
22.5	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
22.6	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008
22.7	Reduction Gear Box	Universal Gear Industries	1 Nos.	2008

Sr. No.	Name of the Machine	Make	Qty	Year of Installation
<b>B TMT Rolling Section - 1,27,000 MTPA Capacity</b>				
23	Auxiliary Machinery		1 Lot	2008
23.1	Tilting Table	Universal Gear Industries	1 Nos.	2008
23.2	Pinch Roll	Universal Gear Industries	1 Nos.	2008
23.3	Pinch Roll	Newfield Engineers	2 Nos.	2008
23.4	Drive Unit	Kirloskar Electrics	6 Nos.	2008
23.5	Lubrication System	P&D Pump & Gear Industries	6 Nos.	2008
24	Quenching System	Newfield Engineers	1 Nos.	2008
25	Cooling Bed(Automatic)	Universal Gear Industries	1 Nos.	2008
26	Pumps & Motors		1 Lot	2008
26.1	Mill Water Recirculation Pump	Kirloskar Electrics	6 Nos.	2008
26.2	Quenching Box Recirculation Pump	Kirloskar Electrics	6 Nos.	2008
27	Shear Machines		1 Lot	2008
27.1	Flying Shear	Newfield Engineers	1 Nos.	2008
27.2	Trail Breaker	Newfield Engineers	2 Nos.	2008
27.3	Rotary Shear(Front & Tail)	Universal Gear Industries	2 Nos.	2008
27.4	Cold Shear Machine	Universal Gear Industries	1 Nos.	2008
27.5	4 Gear closetype Bar shearing machine	Matharoo steel.Co.Pvt.Ltd	1 Nos.	2008
27.6	Shearing Machine for cut 36mm x 40mm Or 50MM Oval	Matharoo steel.Co.Pvt.Ltd	1 Nos.	2008
28	Cooling Tower	Paharpur Cooling Tower	2 Nos.	2008
29	Compressor	Elgi	1 Nos.	2008
30	Compressor	Elgi	2 Nos.	2008
31	Air Receiver	Elgi	2 Nos.	2008
32	Air Receiver	Elgi	1 Nos.	2008
33	Electric Overhead crane	Madura Engineering	2 Nos.	2008
34	Electric Overhead crane	Madura Engineering	1 Nos.	2008
35	Electric Overhead crane	Madura Engineering	2 Nos.	2008
36	Workshop Machinery		1 Lot	2008
36.1	Roll Turning Lathe	Alfa Machinery Works	2 Nos.	2008
36.2	Roll Turning Lathe	Alfa Machinery Works	2 Nos.	2008
36.3	Roll Turning Lathe	Alfa Machinery Works	2 Nos.	2008
36.4	Roll Turning Lathe	Alfa Machinery Works	1 Nos.	2008
36.5	Shaping Machine	Alfa Machinery Works	1 Nos.	2008
36.6	Drill Machine	Alfa Machinery Works	1 Nos.	2008
36.9	Welding Machine	Senco	4 Nos.	2008
37	Roll Branding Machine	Sparkonix	1 Nos.	2008
38	Roll Klerning CNC Machine	Sparkonix	1 Nos.	2008
39	Electrical Items		1 Lot	2008

# Jharsuguda Plant - Machinery Details – Structure Rolling Mill, FAD, DRI & MBF

Sr. No.	Name of the Machine	Qty	Year of Installation
<b>C Structure Rolling Mill - 1,20,000 MTPA Capacity</b>			
40	Mechanical Equipments of Structure Rolling Mill	1 Lot	2008
40.1	Reheat Furnace - Oil fired		
40.2	Mill stand, Roughing stand, Intermediate stand, with all drives, pulleys, bearings, rack drive cooling bed.		
40.3	Finishing mill complex inclusive of reduction mechanism, gear box, pinion, drive, bearings etc..		
40.4	Fly wheel assembly including reduction gear box, pinion stand etc..		
40.5	Quenching equipment & systems along with Cooling Bed		
40.6	All other accessories like utilities, compressor, water systems, cooling tower, pipe lines & oil lubrication system.		
40.7	Auxiliary Systems for Rolling Mill		
40.8	EOT cranes, girders & rails		
40.9	Workshop Equipment required for Structure Mill Production		
41	Electricals & automation, transformers, panels, PLC, PLC/DCS, variable speed drives, motors, automated systems, cables, switches, sensors etc.. as required for Structure Mill	1 Lot	2008

Sr. No.	Name of the Machine	Qty	Year of Installation
<b>D Ferro Alloys Division - 1,13,497 MTPA Capacity</b>			
42	2 x 16.5 MVA Submerged Arc Welding Furnace along with supporting accessories	1 Lot	2008
43	Utilities Machinery for both Furnace like Pump House, Cooling Tower, Valves & Fittings etc..	1 Lot	2008
44	Raw Material Handling System for Furnace	1 Lot	2008
45	Electrical & Instrumentation Items like Transformers, , Panels, Starter, MCC, Drives, Transmitters, level switches, etc.. including Cabling & Earthing	1 Lot	2008
46	Fume Extraction System	1 Lot	2008
47	Auxiliary Machinery for both Furnace like Cranes, Tapping & Teaming Equipments, Auxiliary Transformer etc..	1 Lot	2008

Sr. No.	Name of the Machine	Qty	Year of Installation
<b>E Sponge Iron Division - 2,64,000 MTPA Capacity</b>			
48	Rotary Kiln - 8 Nos. x 100 TPD No. & 8 Nos. of Cooler along with Supporting Accessories	8 Nos.	2005
48.1	Vibrating Feeder with accessories	8 Lot	
48.2	Raw Material Handling System	1 Lot	
48.3	Iron Crusher	1 Lot	
48.4	Kiln Main Gear Box	8 Nos.	
48.5	Kiln Auxiliary Gear Box With Brake Drum Coupling	8 Nos.	
48.6	Cooler Main Gear Box With thrust brake etc. . Ratio 125:1	8 Nos.	
48.7	Waste Gas Cleaning System	1 Lot	
48.8	Pollution Control System along with Bag Filters	1 Lot	
48.9	Electrical & Automation Items including Cabling & Earthing	1 Lot	
48.10	Piping & Fittings	1 Lot	
48.11	Other Mechanical equipments & accessories	1 Lot	
49	Fabrication, Erection of Structure Steel & Supporting Structure for Kiln and Raw Material Handling System for 8 x 100 TPD Sponge Iron Plant.	1 Lot	2005

Sr. No.	Name of the Machine	Qty	Year of Installation
<b>F Pig Iron- Mini Blast Furnace (MBF) Division - 2,80,000 MTPA Capacity</b>			
50	Mini Blast Furnace - Shell, Stove, Gas cleaning Plant, Pollution Control System along with supporting accessories	1 Lot	2008
51	Top Charging Equipments	1 Lot	2008
52	Tuyere Stock Assembly	1 Lot	2008
53	Blower & Compressor System	1 Lot	2008
54	Raw Material Handling System along with conveyors	1 Lot	2008
55	Piping & Fittings along with valves & supporting structures	1 Lot	2008
56	Electrical & Automation Items including Cabling & Earthing	1 Lot	2008
57	Pig Casting Machines & Ladles including cranes and other Utility equipments	1 Lot	2008

# Jharsuguda Plant - Machinery Details – Sinter and units not fully installed

Sr. No.	Name of the Machine	Qty	Year of Installation
<b>G</b>	<b>Sinter Plant - 4,95,000 MTPA Capacity</b>		
58	Raw Material Handling System along with conveyors	1 Lot	2010
59	Mix Preparation System along with hoppers	1 Lot	2010
60	Suction Fans & other Utility Equipments	1 Lot	2010
61	Complete Sintering Machines	1 Lot	2010
62	Sinter Crushing Deck	1 Lot	2010
63	Sinter Cooler	1 Lot	2010
64	Sinter Screener	1 Lot	2010
65	Pollution Control System including ESP	1 Lot	2010
66	Electrical & Automation Items including Cabling & Earthing	1 Lot	2010
67	220/33/6.6 KV Main Receiving Sub - Station (MRSS)	1 Lot	2007

Sr. No.	Name of the Machine	Qty	Year of Installation
<b>H</b>	<b>DRI Plant - Sponge Iron Section - 2,31,000 MTPA Capacity (Not Fully Installed/ Commissioned)</b>	<b>1 Lot</b>	<b>2013</b>

Sr. No.	Name of the Machine	Qty	Year of Installation
<b>I</b>	<b>Captive Power Plant - (1 x 30 MW) + (1 x 40 MW) Capacity (Not Fully Installed/ Commissioned)</b>	<b>1 Lot</b>	<b>2013</b>

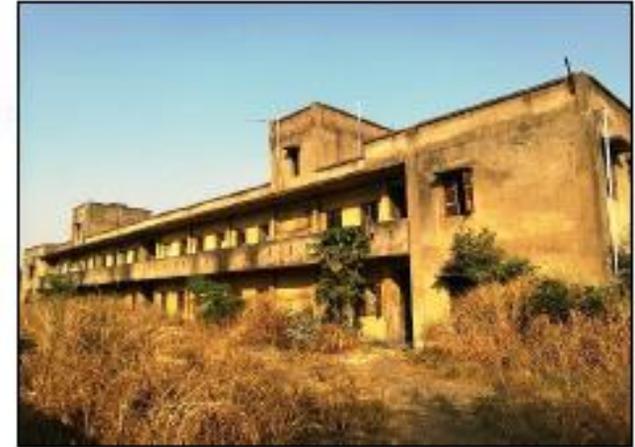
# Jharsuguda Plant - Preview (1/2)



Admin Building



Ferro Alloy Plant



Labour Colony



DRI



MBF Area



RMHS

## Jharsuguda Plant - Preview (2/2)



Sinter Plant



SMS Area



Structure Rolling mill



Switch Yard



TMT Rolling mill



Powerplant

# Thank You

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