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CONCAST

Concast Steel & Power Limited (In Liquidation)

Bankura Plant (Asset Lot – 1)

Asset Sale Memorandum

May 2021



Preface

As you may be aware, The Hon'ble NCLT, Kolkata Bench, vide their order dated 26th 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.

As per the Order, the Bankura unit (Asset Lot - 1) was specifically directed by the Hon'ble NCLT, Kolkata Bench to be liquidated on a "going concern" basis. However on 30 April 2021, The liquidator was allowed by the Adjudicating Authority to dispose off Bankura unit in the manner prescribed under Regulation 32 of IBBI (Liquidation Process) Regulation 2016.

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 Asset lot 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.

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Abbreviations

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

Quality Asset

- ▶ Operational
- ▶ Integrated Steel plant with wide product portfolio
- ▶ High quality manufacturing assets with ~95% of peak historical O/P
- ▶ Captive power plant with energy efficient plant operations
- ▶ Owned Land and Building

Strategic Location

- ▶ 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 an operational plant 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 remains resilient with improved sentiment in Asia due to stimulus in Chinese real estate which is expected to counterbalance the reduced demand in developed economies due to weakened manufacturing.

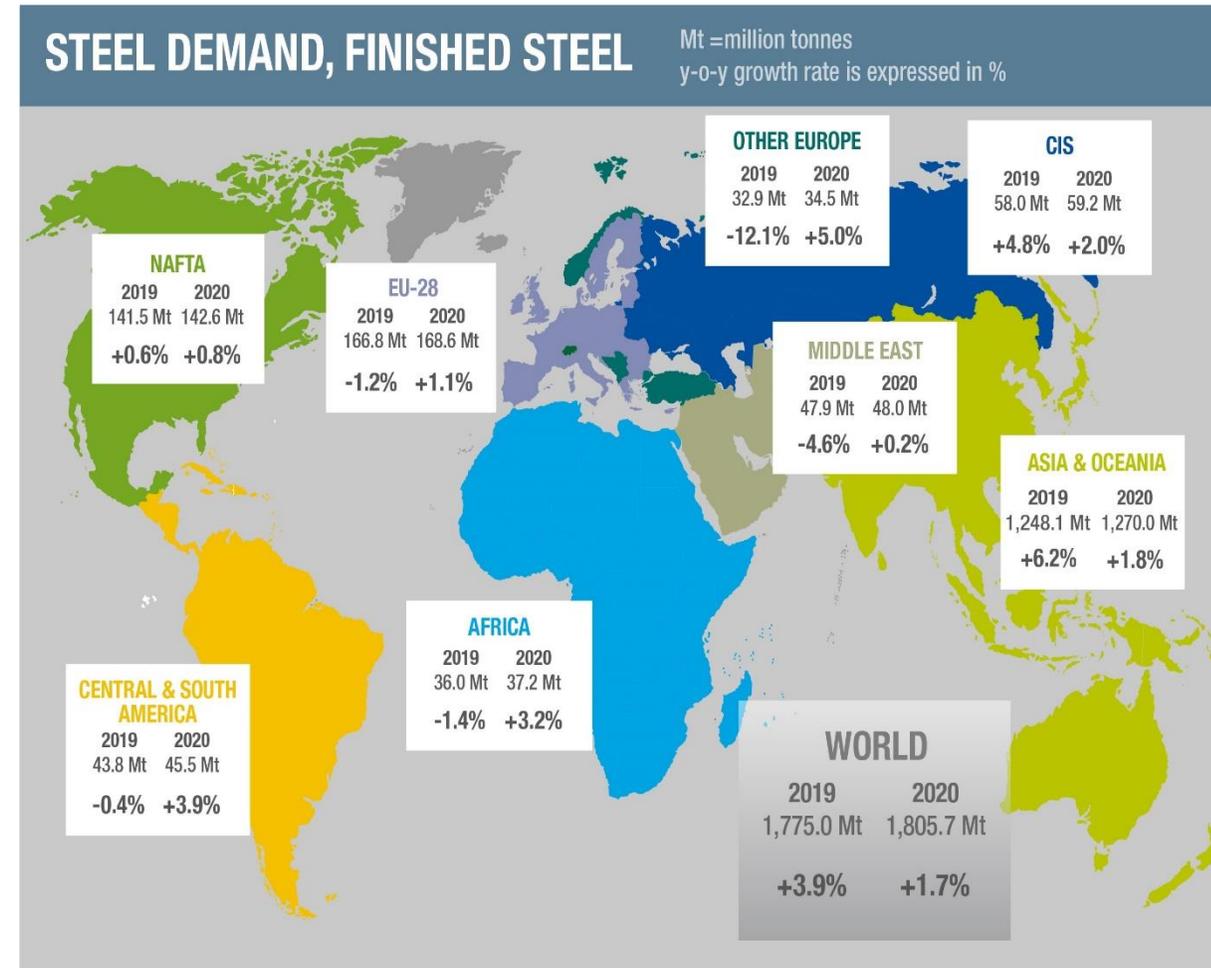
- ▶ Global crude steel production stood at 1775 Mt in 2019 indicating a growth of YOY of 3.9% compared to 2018

In the EU, Italy produced 2.0 Mt of crude steel in November 2019, down by 9.8% on November 2018. France produced 1.1 Mt of crude steel in November 2019, an 18.2% decrease compared to November 2018. Spain produced 1.1 Mt of crude steel in November 2019, down by 10.9% on November 2018. The US produced 7.2 Mt of crude steel in November 2019, a decrease of 2.2% compared to November 2018. Chinese real sector provided stimulus to steel demand resulting in increased demand of 7.8% to reach 900.1 Mt whereas rest of the world is expected to slow down 0.4% in 2019 due to contraction in Turkey, MENA and Latin America.

- ▶ The Global steel industry witnessed the following major scenarios in 2019 :

- ❑ Chinese steel demand owing to strong real estate sector but forecasted to slow down in 2020 thereby steel demand will fluctuate a bit which will counter balanced by recovering manufacturing sector.
- ❑ The global construction sector's growth slowed down to 1.5% in 2019 and expected to grow at 1.2 % in 2020.
- ❑ The infrastructure investment reduced in major economies but is expected to rebound in 2020 thereby provide stimulus to growth in industry.
- ❑ Global Steel Demand will grow by another 1.7% in 2020 reaching 1805.7 Mt thereby showing moderate growth amidst rising tensions of global politics and thus provide reasonable prospects.

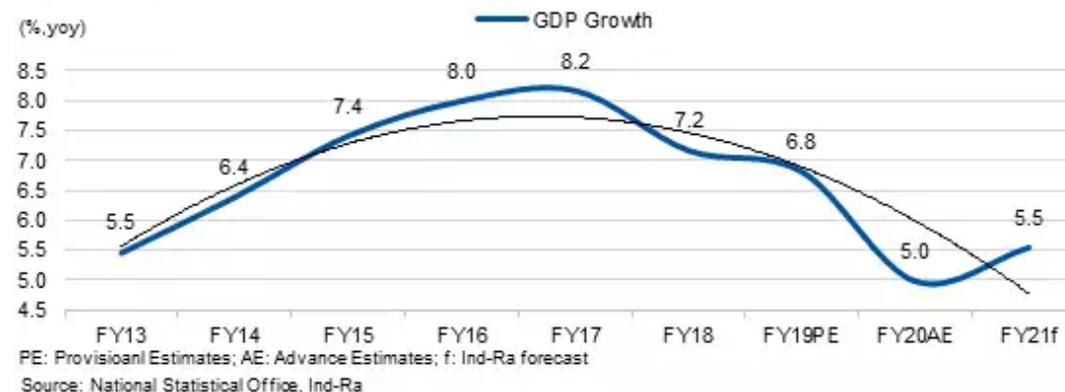
Source: The World Steel Association (worldsteel.org), Ministry of Steel, Govt. of India



State of the economy

- ▶ India has emerged as the fastest growing major economy. During Q2 of 2019-20 GDP grew at 4.3% over corresponding quarter and witnessed a temporary fall in Q4. India is second highest steel producing country after China.
- ▶ Exports from India increased 2.13% on YOY basis to US\$491.64 billion in April 2019-February 2020. Nikkei India Manufacturing Purchasing Managers' Index (PMI) stood at 54.5 in February 2020, showing expansion in the sector
- ▶ The GDP of India witnessed a sharp decline along with World GDP due to various factors such as issue of sharp decline in demand due to outbreak of Pandemic but is expected to rebound with expected stimulus from Government.
- ▶ India's Index of Industrial Production (IIP) for the month of January 2020 stood at 137.1. The cumulative growth for the period April 2019-January 2020 over the corresponding period of the previous year stood at 0.5 per cent..
- ▶ Stimulus is expected to be provided in Fiscal Budget of 2020 to increase Aggregate Demand and Investment and thereby increase in steel demand is expected.

GDP Growth

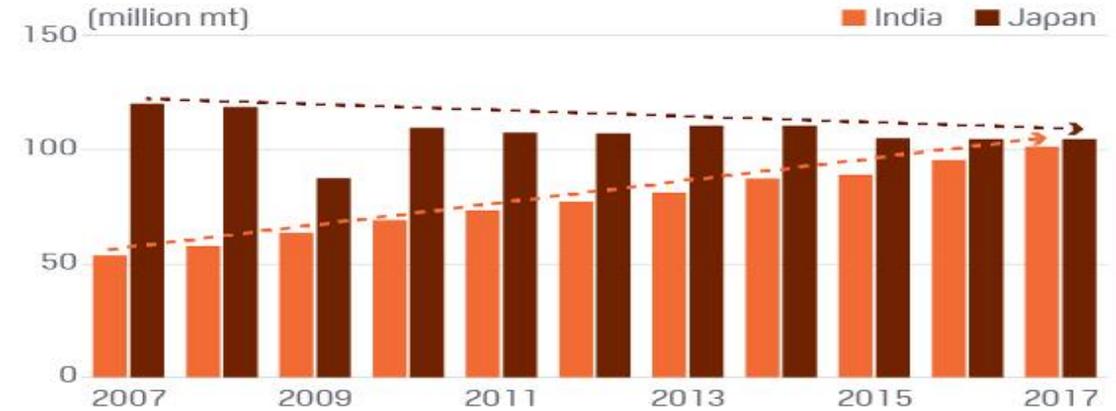


India Steel – State of the Market

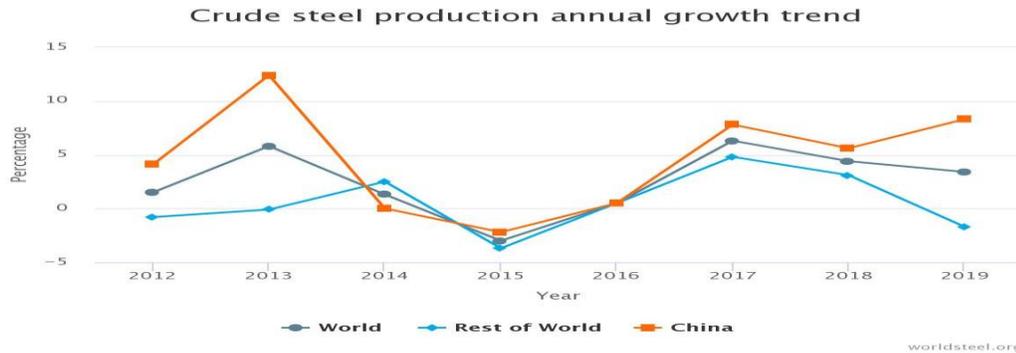
One of the largest crude steel producer, India is a significant market that has seen strong headwinds in the past, but recovery is on track with a positive outlook from both demand and supply aspects

- ▶ India's GDP is expected to grow around 6% in the near future Driven by increased Government spending on infrastructure and thrust on developmental projects to provide stimulus to economy by increasing Aggregate Demand and Investment.
- ▶ Steel is one of the key sectors of the economy – contributing to around 2% of the country's GDP and employing around 2.5 million people in steel and allied sectors.
- ▶ India surpassed Japan as world's second largest producer of crude steel in 2018. The country is the largest producer of direct reduced iron (sponge iron) globally.
- ▶ Steel industry witnessed major restructuring in 2019 indicating increased capacity and improved future prospects.
- ▶ India's Steel production has expanded rapidly at CAGR 8.71% and envisaged achieving of 300 million tonnes by 2030-31.

10-YEAR CRUDE STEEL PRODUCTION TREND (INDIA vs JAPAN)

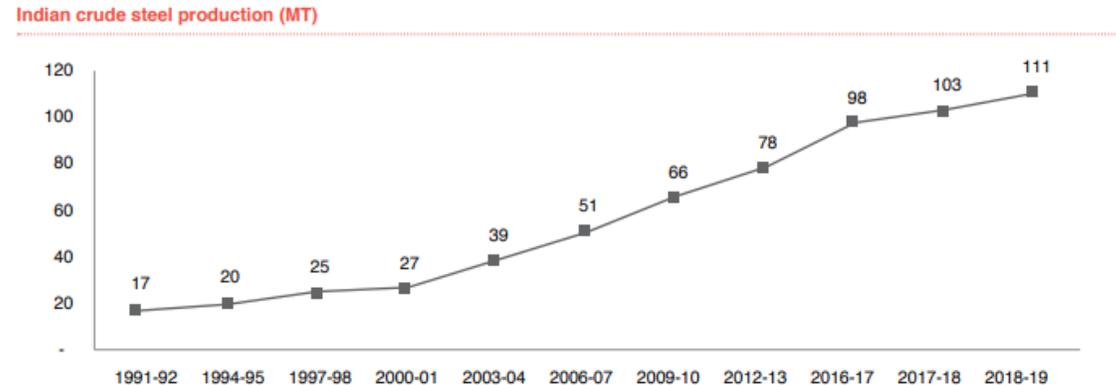


Source: WorldSteel, S&P Global Platts



Source: The World Steel Association (worldsteel.org), Ministry of Steel, Govt. of India, FICCI , Business Insider ,PwC Steel report IBEF

Indian Steel Production



India – Key Growth Initiatives & Outlook

Steel Production is targeted to double from current levels by 2031

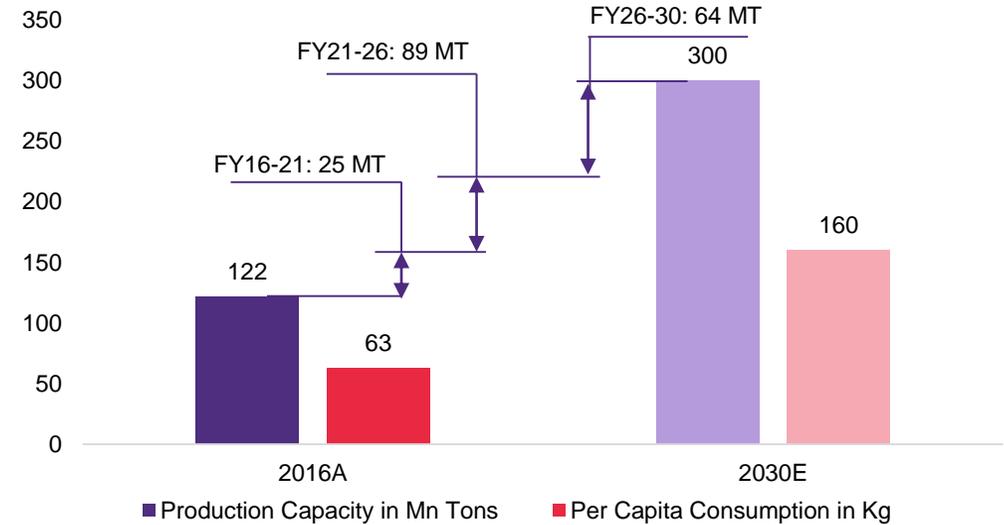
Demand & Supply

- ▶ Low per capita steel consumption is expected to continue to increase, and presents opportunities for growth in domestic market
- ▶ The sectors such as Infrastructure, airports, railways, power which constitute major demand of steel is expected to grow in near future.
- ▶ Increased iron ore production and National Steel policy aims to stimulate steel industry through US\$ 156.08 Billion by 2030-31
- ▶ 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 and 100% FDI through Automatic route.
 - ❑ 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.
 - ❑ It aims to increase per capita steel consumption to 160 kgs by 2031.
- ▶ Support to domestic industries:
 - ❑ 26 projects have been approved with financial assistance of 161 cr for R&D.
 - ❑ Govt. hiked export duty on iron ore to 30% ad valorem on iron ore .
 - ❑ Make in India is expected to augment steel production capacity.

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

BUSINESS OVERVIEW

CONCAST STEEL & POWER LIMITED– IN LIQUIDATION

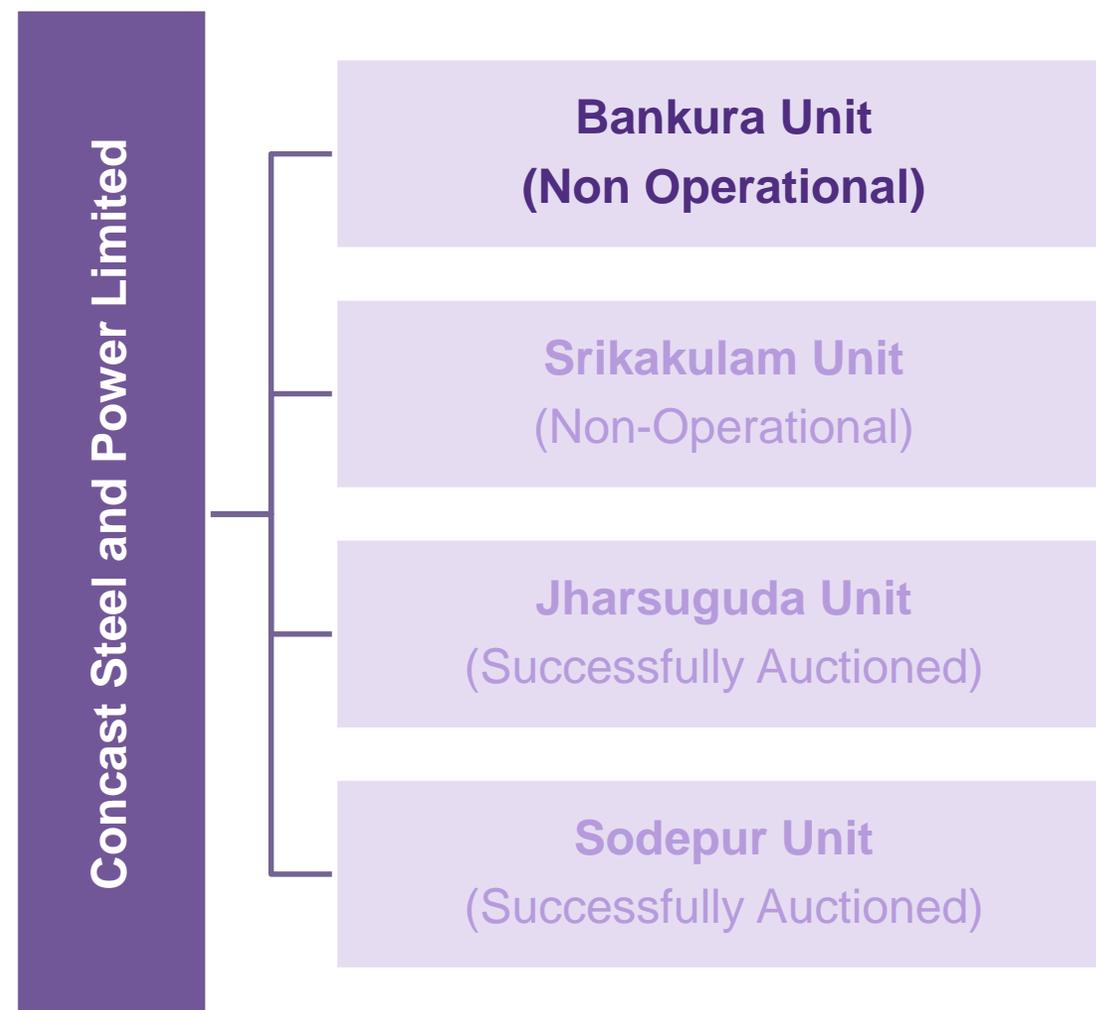
Introduction

- ▶ Concast Steel & Power Limited (in Liquidation) (“CSPL” or “Concast”) is a manufacturer of iron and steel products.
- ▶ Operates facilities consisting of 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 Operation of the company was ongoing up till 30th September 2020.

Current Status

The Hon’ble NCLT, Kolkata Bench, vide their order dated 26 September 2018 has appointed **Mr. Kshitiz Chhawchharia (Reg. No. IBBI/IPA-001/IP-P00358/2017-18/10616)** as the **Liquidator of the company** with specific directions to liquidate the **Bankura unit** as a “**going concern**” as per the provisions laid under the Insolvency and Bankruptcy Code, 2016 & Insolvency and Bankruptcy Board of India (Liquidation Process) Regulations, 2016. However on **30 April 2021**, The liquidator was allowed by the Adjudicating Authority to dispose off Bankura unit in the manner prescribed under Regulation 32 of IBBI (Liquidation Process) Regulation 2016.

Corporate Structure



PRODUCT PORTFOLIO

Sponge Iron



Billets



TMT Bars

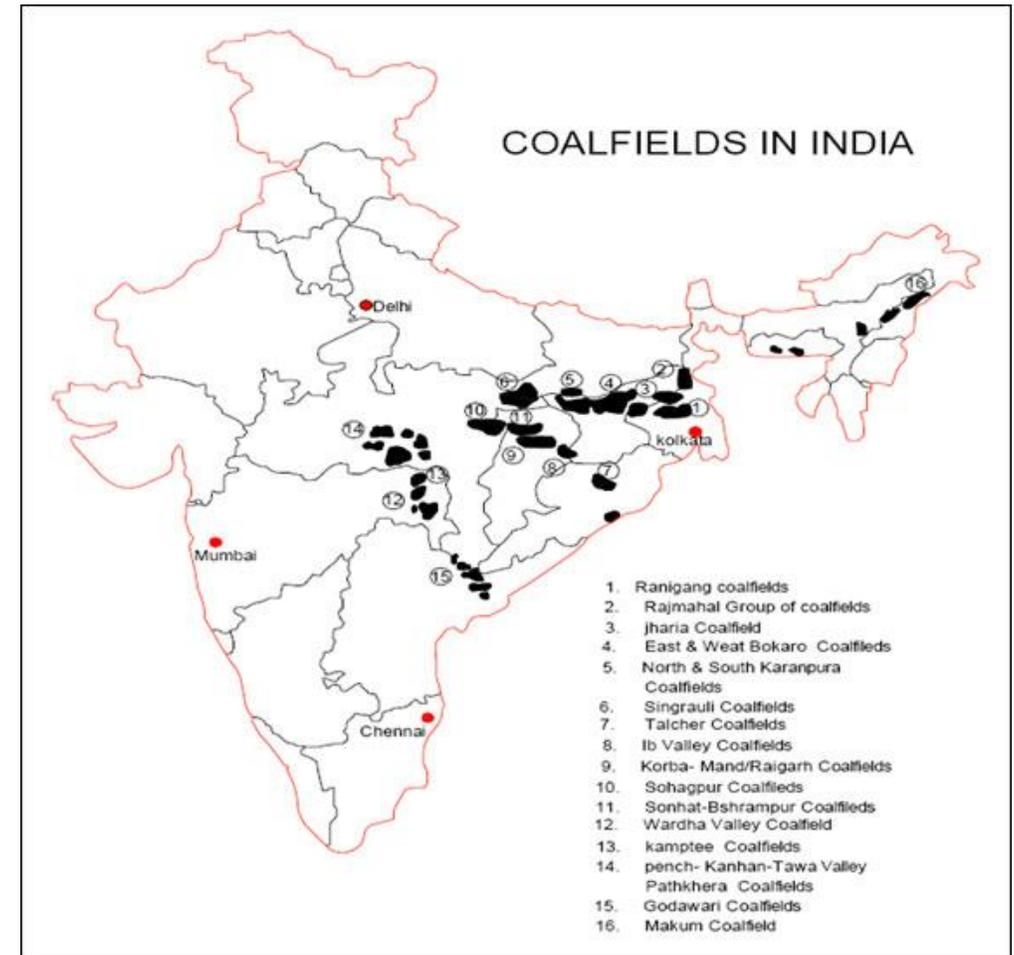


Iron Ore being one of the most important Raw Material in the Steel Industry, is available in abundance in the regions of the Company's units.

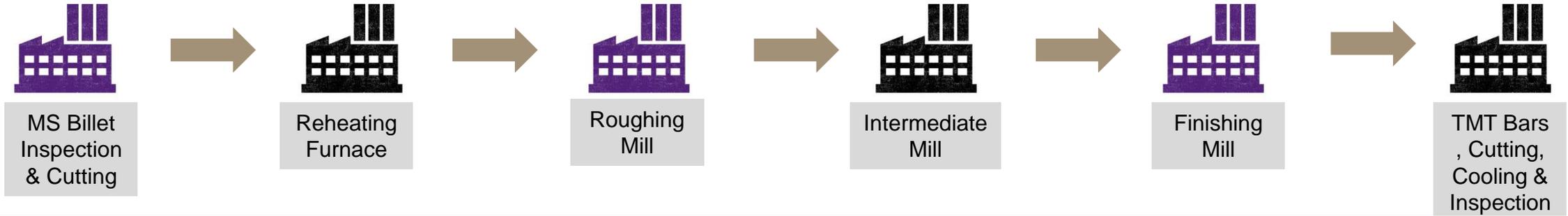
Name of the Owner	Location of Mine
M/s K.N. Ram & Co.	Roida - II
M/s Kalinga Mining Corporation.	Jurudi
M/s Kaypee Enterprises	Thakurani
M/s Mid East Int. Steel Ltd.	Roida- 1 (Sidhamath)
M/s Patnaik Minerals Pvt. Ltd	Jaribahal
M/s Sarda Mines (P) Ltd.	Thakurani Block-B
M/s Sirrajuddin & Co.	Balda Block
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 MinesLtd.	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

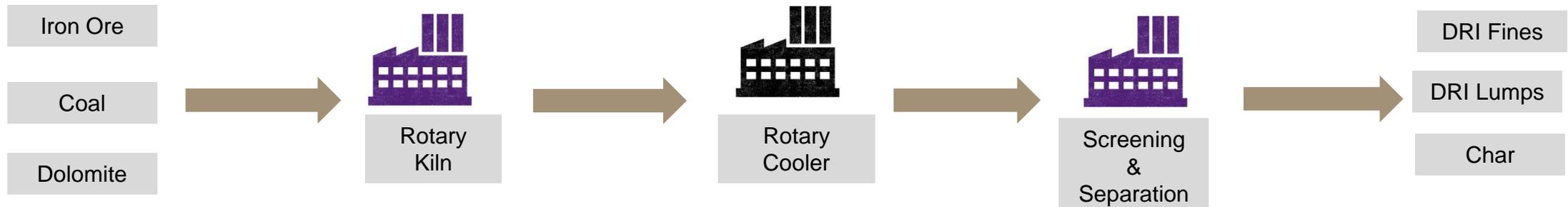
Close Proximity to Back-end supplies



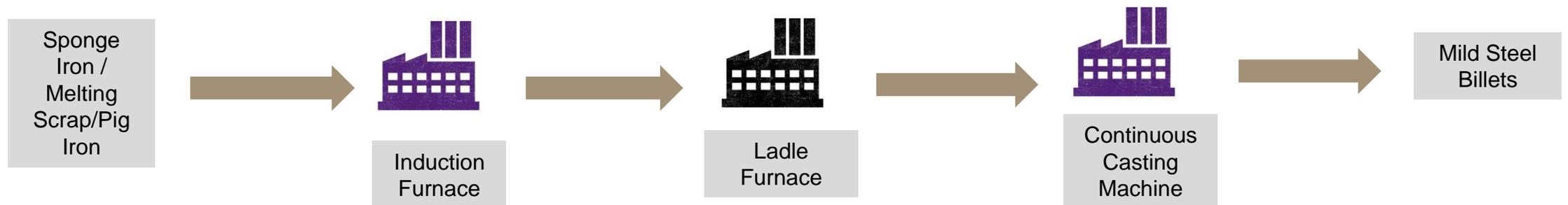
Rolling Mill



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	FY19	FY18	FY17
Jindal Steel & Power Limited	27,86,333	18,11,234	16,09,468
Adhunik Industries Limited	67,041.46	48,715.95	40,735.33
Jai Balaji Industries Limited	3,07,746.76	2,42,505.87	1,69,950.74

(INR in lacs)

EBITDA			
Company Name	FY19	FY18	FY17
Adhunik Industries Limited	1790.08	2,581.44	2,257.22
Jindal Steel & Power Limited	5,24,680	4,24,937	3,80,813
Jai Balaji Industries Limited	5950.88	(7,564.87)	(7,923.58)



ASSET LOT - 1

BANKURA

The Hon'ble NCLT, Kolkata Bench, vide their order dated 26 September 2018 has appointed **Mr. Kshitiz Chhawchharia (Reg. No. IBBI/IPA-001/IP-P00358/2017-18/10616)** as the **Liquidator of the company** with specific directions to liquidate the **Bankura unit** as a “going concern” as per the provisions laid under the Insolvency and Bankruptcy Code, 2016 & Insolvency and Bankruptcy Board of India (Liquidation Process) Regulations, 2016. However on **30 April 2021**, The liquidator was allowed by the Adjudicating Authority to dispose off Bankura unit **in the manner prescribed under Regulation 32 of IBBI (Liquidation Process) Regulation 2016.**

Introduction

- ▶ Integrated Steel Plant comprising DRI, SMS and Rolling Mill along with all auxiliaries and supporting facilities located in Bankura, West Bengal.
- ▶ Nearest Railway Station is ~10 Km away and steel hub Durgapur is approximately 54 Km away.
- ▶ Owned land and building.
- ▶ Founded in 2005.



<https://goo.gl/maps/UNNy5JiBqm82>

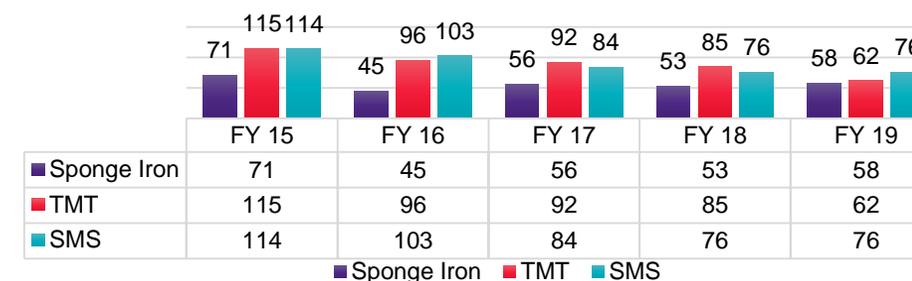
Built-up area

Unit	Year of Construction	Area (in acres)
Rolling Mill Section	2009	5.45
Sponge Iron Section	2004	0.49
SMS & CCM Section	2004	2.21
Captive Power Plant	2010	2.24
Administrative Building	2004	0.32
Security Office	2004	0.01
Generator Room	2004	0.01
Sub-Station Control Room	2004	0.01
Total Built Up Area		10.75

Product Portfolio - Capacity ('000 MTPA/ MW)

Plant	Product	Operational	Peak Utilisation (%)	Under Construction
DRI	Sponge iron	66	100%	33
SMS	Non alloy billets	162	95%	NA
Rolling Mill	TMT Bars	140	90%	NA
CPP	Power	25	57%	NA

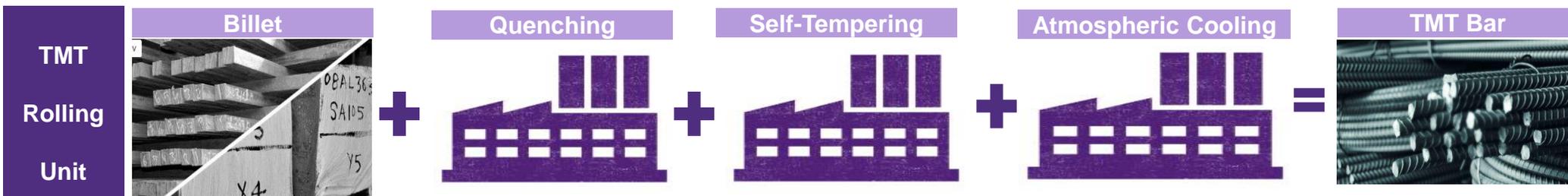
Production History (in 000's MTPA)



Opportunity of Expansion

Particulars	Area (in acres)
A. Bounded factory area	56.34
B. Built up area (included above)	10.75
C. Vacant land (In Bankura District)	290.97
Total Area (A+C)	347.31

Bankura Plant - Products



Bankura Plant - Location

Located in West Bengal

- ▶ West Bengal is one of the 29 states of India, located in the south eastern coast of the country. It is surrounded by the Bangladesh in the east, Nepal & Bhutan in the north. It shares borders with five Indian states: Odisha, Jharkhand, Bihar, Sikkim, and Assam.
- ▶ At present, West Bengal is divided into 23 districts. The capital and largest city of the state is Kolkata – the third-largest urban agglomeration and the seventh-largest city in India. As of 2011, the total length of surface road in West Bengal is over 92,023 kilometers.

About Bankura

- ▶ Bankura is located in the western part of the State of West Bengal. It is a part of Bardhaman Division of the State and included in the area known as "Rarh" in Bengal. It ranks 4th according to Population and literacy rate of 2001 Census in the State.
- ▶ The District Bankura is bounded by latitude 22038' N and longitude 86036' E to 87047' E. River Demodar flows along the northern boundary of the district. The adjacent districts are Bardhaman in the north, Purulia in the west and Paschim Medinapure in the south.

Micro Location : Maslia

- ▶ Maslia is a small village placed in Bankura 2 Block of Bankura district in West Bengal. Situated in rural region of Bankura district of West Bengal.
- ▶ Bankura 2 Block is located in the central part of the district. It belongs to the Bankura-Bishnupur Rarh Plains. The elevation rises gradually in the undulating surface area but in the hilly tract it rises abruptly. Bankura 2 Block is bounded by Gangajalghati Block on the north, Barjora Block on the east, Onda and Bankura 1 Block on the south and Chhatna CD Block on the west. State Highway 9 (West Bengal) running from Durgapur (in Paschim Bardhaman district) to Nayagram (in Jhargram district) passes through Bankura 2 Block.

Neighbourhood

- ▶ The state of West Bengal has multiple iron and steel industries which makes for abundant supply of skilled as well as unskilled labor.
- ▶ **Shyam Steel and Power Limited** has an integrated steel plant in Durgapur, manufacturing TMT Rebar and Structural steel.
- ▶ **SRMB SRIJAN Private Limited** is a registered brand with all key infrastructural operators in the country. It owns one unit in West Bengal and one in Odisha and planning to set up further integrated plants in neighboring states.
- ▶ **Adhunik Industries Limited** has an Integrated Steel Plant, and one of the major key players among the steel plants and rolling mills in the Durgapur region of West Bengal.
- ▶ **Rashmi Metaliks Limited** is a reputable company under the wing of Rashmi Group, in West Bengal. The company has steel plants in Kharagpur, Gokulpur and Shyamraipur.
- ▶ **Jai Balaji Industries Limited** has an Integrated Steel Plant with five manufacturing facilities located in Durgapur and Raniganj in West Bengal and Durg in Chhattisgarh. A sixth unit for manufacturing steel, cement and generating power is being set up in Purulia, West Bengal.

Connectivity



~216 KM

Netaji Subhas Chandra Bose International Airport is approximately 216 Km. from the property under valuation



~5 KM

Situated ~ 5 Km. from the Bankura bus station which passes through the heart of the city also provides ample scopes for road transport



~10 KM

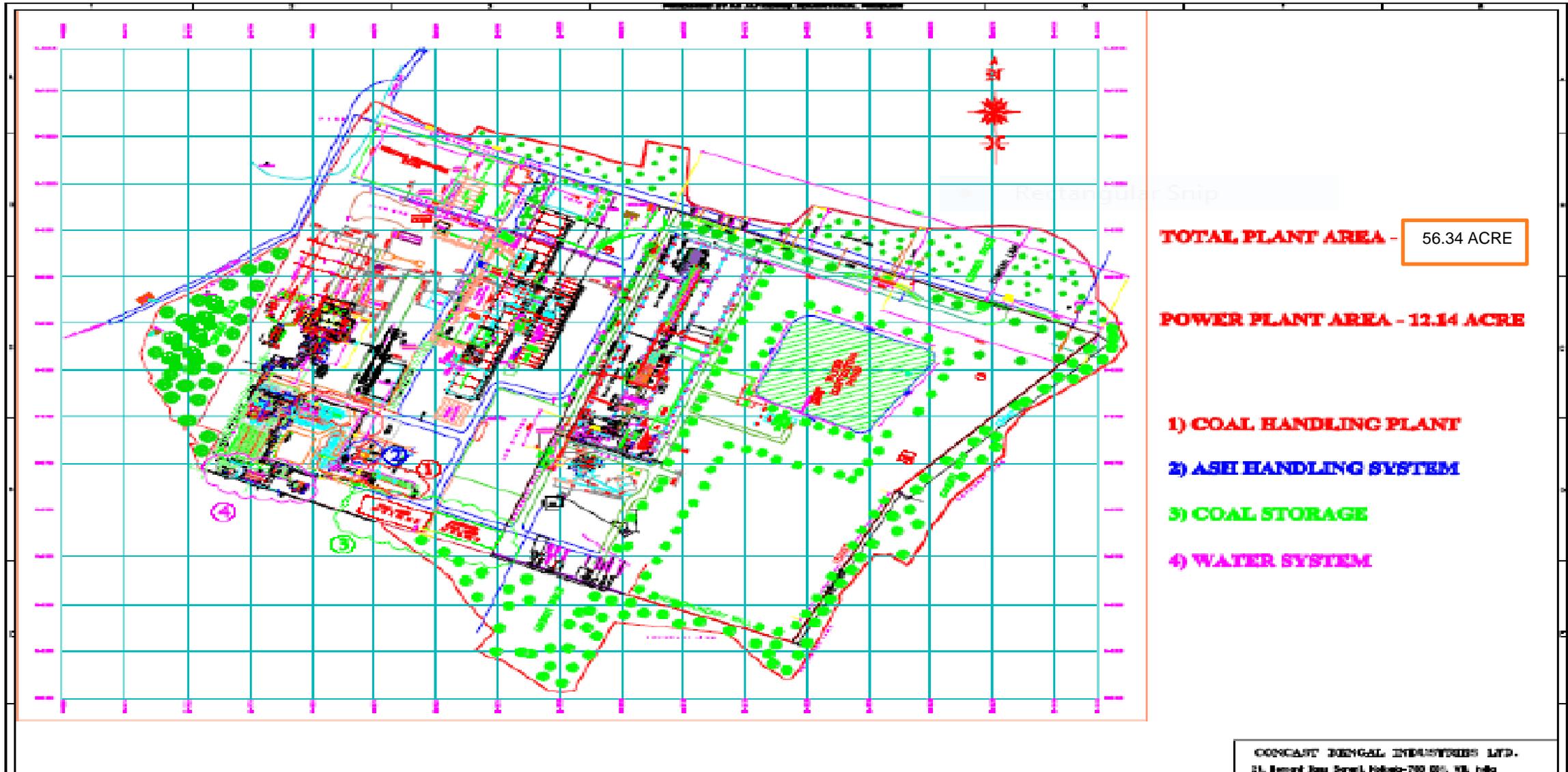
Bankura Railway Station is approximately 10 Km. from the property under valuation.



~230 KM

The subject property is 230 Km away from Haldia Port.

Bankura Plant - Layout



Bankura Plant - Machinery Details – Rolling Mill

Sr. No.	Machinery & Equipments	Qty.	Year of Installation
A	TMT Rolling Mill Section - 1,40,000 MTPA Capacity		
1	Main Roughing Stand -510 MM Make -Universal Gear Industries Ltd	1 Lot	2011
2	Roughing Continous Stand (4 Stand) -350MM, Make -Universal Gear Industries Ltd	1 Lot	2011
3	Intermediate Continous Stand (4 Stand) - 310 MM Make - Universal Gear Industries Ltd	1 Lot	2011
4	Finishing Stand (6 Stand)- 265 MM Make -Universal Gear Industries Ltd	1 Lot	2011
5	Cooling Tower, Make -Southern Cooling Tower	1 Nos.	2011
6	E.O.T Cranes-10 T , Make Shivpra	2 Nos.	2011
7	E.O.T Cranes-05 T , Make Madura	3 Nos.	2011
8	Pusher Type Reheat Furnace With Duel Fire System -25 TPH, Make - Therm Process	1 Nos.	2011
9	P.G.P Plant (7000 Model , 3.2 mtr dia , 15 T/hr capacity) comprising of Double Water Jacket, Conveyor, Structure Dumper, Lifting Machine etc..., Make Radhe Renewable	1 Lot	2011
10	T.M.T Quenching System - 8 To 32 MM Make Newfield Engineers Fully Automatic RLC	1 Lot	2011
11	Auxiliary Machinery	1 Lot	2011
11.1	General Roughing Stand Spare Rolls 1 No 5300x1400	10 Nos.	2011
11.2	Roughing Stand Spare Rolls 4 Nos 3650x800	16 Nos.	2011
11.3	Intermediate Stand Spare Rolls 4 Nos 3150x700	16 Nos.	2011
11.4	Finishing Stand Spare Rolls 6 Nos 2700x500 and 2700x450	24 Nos.	2011
11.5	Y-Table	1 Nos.	2011
11.6	Roller Conveyors	1 Lot	2011
11.7	Lubrication System	1 Lot	2011
11.8	Guides with guiding nozzles	1 Lot	2011
12	Water Treatment Plant, Make -AA Treatment	1 Lot	2011
13	Automatic Cooling Bed - 70 Mtr & Bar Handling Equipments	1 Lot	2011
14	Cooling Shear (Length 68 Mtrs with align RLC Controlled) Rack Fully Automatic, Make -U.G.I.L	1 Nos.	2011
15	Fly Shear- For 8 MM To 32 MM Auto Start, Make- Newfield Engineer	1 Nos.	2011
16	Pusher Hydraulic Operated Make U.G.I.L	1 Nos.	2011
17	Ejector- Motor Driven , Make U.G.I.L	1 Nos.	2011
18	Pinch Rolls Through Auto Control Tail Breakers	1 Nos.	2011
19	Coal Crusher For Sizing & Screening Coal 20 M to 60 M Without Feeding To Gasifier	1 Lot	2011
20	Loopers	1 Lot	2011
21	Cable Shear & Front & Tail cutting Shear	1 Lot	2011
22	Chimney, MS make, Ht-60 mtrs	1 Nos.	2011

Sr. No.	Machinery & Equipments	Qty.	Year of Installation
A	TMT Rolling Mill Section - 1,40,000 MTPA Capacity		
	Laboratory Equipments		
23	Universal Testing Machine, Maffle Furnace , Hotplate, Air Oven, Distil Water Plant, etc..	1 Lot	2011
24	Workshop Equipment	1 Lot	2011
24.1	12' Lathe	2 Nos.	2004
24.2	6' Lathe	1 Nos.	2004
24.3	8' Lathe	1 Nos.	2004
24.4	10' Lathe	1 Nos.	2004
24.5	2' Shaper	2 Nos.	2004
24.6	Pillar Drill	1 Nos.	2004
24.7	Welding transformer	1 Nos.	2004
24.8	Tool post Grinder	1 Nos.	2004
24.9	Hand Operated Plate Bending Machine	1 Nos.	2004
25	CNC Lathe (Rib cutting 2500MM)	1 Nos.	2011
26	Roll Brando Machine	1 Nos.	2011
27	Electrical Items including Cabling & Earthing	1 Lot	2011
27.1	Isolator With Structure	1 Lot	2011
27.2	5 Panel (one incomes+4 Outgoing)VCB (33KV) indoor, Make-ABB	5 Nos.	2011
27.3	110 V DC , 20 A FC BC	1 Lot	2011
27.4	Room Lighting	1 Lot	2011
27.5	4 MVA Transformer (2nos) With 3 Sets of Busduct , Make - EMCO	2 Nos.	2011
27.6	DC Drive Panels	2 Nos.	2011
27.7	DC Motors (350KW-4 nos , 300 KW - 4 Nos ., 250 KW -6nos) With Encodes of coupling , Make ABB	14 Nos.	2011
27.8	UPS 6 KVA	2 Nos.	2011
27.9	PCC Panels , MCC Panels , Controls Desks	1 Lot	2011
27.10	APFC and Capacitor Panels	1 Lot	2011
27.11	1250 HP Slipping Motor and Ac Motor	1 Lot	2011
27.12	Liquid Resistance Starter For above Motor	1 Lot	2011
27.13	DC Drive PLC with computers	1 Lot	2011
27.14	Street Lighting , Bay lighting , Control Pulpit Lighting, Laboratory Lighting	1 Lot	2011
27.15	Air Conditioner in control pulpit Laboratory DC Drive, Panel Rooms	1 Lot	2011
27.16	Pump Hose MCC Panels and Pumps with Motors	1 Lot	2011
27.17	TMT Section , DC Drive Panels & Motors For Flying Shear, Crop & Cobble Shear, Tail Brecker	1 Lot	2011
27.18	Allinging Roller Motors (AC)	1 Lot	2011
27.19	TMT PLC and Computer	1 Lot	2011
27.20	Communication System	1 Lot	2011
27.21	MCC Panels For Gasifier Coal Crusher	1 Lot	2011

Bankura Plant - Machinery Details – Captive Power Plant

Sr. No.	Machinery & Equipments	Qty.	Year of Installation
B	Captive Power Plant (CPP) - 25 MW Capacity		
28	Automatic Fluidized Boiler (Coal Fired) - 70 TPH Capacity Make –CBL Structure and Accessories of Automatic Fluidized Boiler	1 Lot	2010
29	Turbo Generator and Auxiliaries, Make Siemens	1 Lot	2010
29.1	TG-22 KW(1no.) 55 KW(2nos.) 22 KW(2nos) make	1 Lot	2010
29.2	Gear Box Make -Tribeni	1 Lot	2010
29.3	Alternator , Make TD Power System	1 Lot	2010
29.4	Lubrication System , Make -Southern Lubrication Pvt. Ltd	1 Lot	2010
29.5	AVR, Make -ABB	1 Lot	2010
29.6	Synchronising, Metering , LAVTSC , Make -Siemens	1 Lot	2010
29.7	NGR, Make -RSI Switch	1 Lot	2010
29.8	Dereater with Tank - 30 m3 Capacity	1 Lot	2010
29.9	LP Heater	1 Lot	2010
29.10	HP Heater	1 Lot	2010
30	EOT Crane , 80 T Capacity, Make -Madura	1 Lot	2010
31	ESP & APH, Make -Himachal Environ	1 Lot	2010
32	WHRB-I&II , Make -CBL	2 Nos.	2010
33	Air Cooled Condenser (ACC), Consisting of	1 Lot	2010
33.1	Tube Bundle, Make PCT	1 Lot	2010
33.2	Extraction Pump , 90 KW(6nos),55KW(2nos),37KW(2nos),Fin Clearing Pump & CD Pump, Make KSb	1 Lot	2010
33.3	Gear Box Make -PCT	1 Lot	2010
33.4	Fan With Structure and Column , Coated Sheet, Ejector, Make-Mazda	6 Nos.	2010
34	Coal Handling Plant Roller, Idler, Pulley, Make- Sinha Industries Vibrating Feeder, Suspended Electro Magnet , Make - MCI Screen , Crusher, Make -Mc Nally Sayaji Gear Box , Make-Power Link	1 Lot	2010
35	Ash Handling System , Make -OSM	1 Lot	2010
36	DM Plant & RO Plant, Make -Tremax Prerona	1 Lot	2010
37	DM Tank , Make -Sova Const	1 Lot	2010
38	Compressor , Make -UD Marketing	1 Lot	2010
38	HP/LP Piping & Fittings	1 Lot	2010
38.1	IBR Valves, Make -KSB	1 Lot	2010
38.2	IBR Pipes & Fittings, Make -Anil Metal	1 Lot	2010
38.3	Control Valves , Make -Chemtrol	1 Lot	2010
38.4	Non IBR Pipes & fittings, Geeta	1 Lot	2010
38.5	Steam Trap , Make -UKL	1 Lot	2010
38.6	Spring Support , Make -Techno Industry	1 Lot	2010
38.7	Insulation & ITS Contractor , Make -Thermotech, sree Krishna	1 Lot	2010

Sr. No.	Machinery & Equipments	Qty.	Year of Installation
B	Captive Power Plant (CPP) - 25 MW Capacity		
39	Electrical Items including Cabling & Earthing	1 Lot	2010
39.1	HT Panel , Make -Areva	1 Lot	2010
39.2	LT Panels, Make -Prod & Cont /ABB	1 Lot	2010
39.3	HT< Motor , Make ABB	1 Lot	2010
39.4	INST., Make -Bengal Hardware	1 Lot	2010
39.5	UPS, Make -HITA	1 Lot	2010
39.6	DG, Make- Jacson	1 Lot	2010
39.7	Transformer , 35 MVA(1 no .), 4MVA(4 nos.) Make - Areva	5 Nos.	2010
39.8	Cables , Make -Havels	1 Lot	2010
39.9	Illumination of Plant	1 Lot	2010
39.10	VFD, Make ABB	1 Lot	2010
40	Cooling Tower, Make -SCT	1 Lot	2010
41	Pump & Motor, Make -Watertech ABB	1 Lot	2010
42	BFP, Make-Sulzer	1 Lot	2010
43	DCS, Make -ABB	1 Lot	2010
44	AC, Plant Illumination , Make -Voltas	1 Lot	2010
45	Site Fabrication of Esp External, Chimney Coal Shed, Pipe Rack, CHP Structure, Silo, Tank, Gizzley, Make Deys Power, Sova Const., Kripa Const., SSI, MonDal const ., bristi const.	1 Lot	2010
46	Expansion Bellow, Make Flexocon	1 Lot	2010
47	Bobcat, Make -Doosan	1 Lot	2010
48	Bed Material Screening System , Make -VIBRIX	1 Lot	2010
49	Raw water Tank , Make -Sova Const.	1 Lot	2010
50	Chimney , MS make , Ht-60 mtrs	1 Lot	2010

Bankura Plant - Machinery Details – DRI & SMS

Sr. No.	Machinery & Equipments	Qty.	Year of Installation
C			
Sponge Iron Section - 66,000 MTPA Capacity			
51	Rotary Kiln of 100 TPD No. Air Cooled (Recuraprator) & 1 No Water Cooled (GCT) 24000 M3/hr /Kiln	2 Nos.	2005
51.1	Vibrating Feeder of 50 TPHCapacity with accessories	2 Lot	2005
51.2	Kiln Main Gear Box	2 Lot	2005
51.3	Kiln Ausitary Gear Box With Brake Drum Coupling	2 Lot	2005
51.4	Cooler Main Gear Box With thrust brake etc. . Ratio 125:1	2 Lot	2005
51.5	Waste Gs Cleaning System	2 Lot	2005
51.6	Pollution Control System along with Bag Filters	2 Lot	2005
51.7	Electrical & Automation Items including Cabling & Earthing	2 Lot	2005
51.8	Piping & Fittings	2 Lot	2005
51.9	Other Mechanical equipments & accessories	2 Lot	2005
52	Fabrication, Erection of Structure Steel & Supporting Structure for Kiln and Raw Material Handling System for 2 x 100 TPD Sponge Iron Plant	2 Lot	2005

Sr. No.	Machinery & Equipments	Qty.	Year of Installation
D			
Billet Manufacturing Section - 1,62,000 MTPA			
53	8 Mt Capacity, Medium frequency inductor melting furnace 3000KW Comprising of	2 Lot	2005
53.1	4 NosFurnace crucible of 8 T Cap	4 Nos.	2005
53.2	2 Nos Electric Power Panel	2 Nos.	2005
53.3	4 Nos 10 T Cap Ladle	4 Nos.	2005
53.4	4 Nos 15 T Cap Ladle	4 Nos.	2005
54	4/7 continuous Casting Machine	1 Lot	2010
55	Cooling Tower (fibre) For caster 2500 LPM-1 NO ., 5000LPM-1 No	2 Nos.	2005
56	Furnace Transformer	2 Nos.	2005
57	Ladle - 10 Ton	2 Nos.	2005
58	EOT Cranes - 5 T Capacity	1 Nos.	2005
59	EOT Crane 10 TCapacity (Billet Bay)	1 Nos.	2005
60	EOT Crane 25 T /10 T Capacity (Induction Furnace Bay)	1 Nos.	2005
61	EOT Crane 15 T /5T Capacity (Induction Furnace Bay)	1 Nos.	2005
62	EOT Crane 30/10 T Capacity (Induction Furnace Bay)	1 Nos.	2005
63	Cooling Tower 2500 LPM Wooden , Paharpur Make	3 Nos.	2005
64	Cricular Lifting Magnet 1800m/m dia , lifting capacity 23 M	2 Nos.	2005
65	Rect . Lifting magnet for billets	1 Nos.	2005
66	Electrical Items including Cabling & Earthing for 2 Nos. of 8 T Furnace	1 Lot	2005
66.1	100KVA 11KV /415 V Auxiliary Transformer double Copper Wonnd oil immersed	1 Nos.	2005
67	Pollution Control Unit With TEFC Motor along with Chimney for 2 Nos. of 8 T Furnace	2 Lot	2005
68	Water Distribution System Complete with Pump , Sand filter , water softer-1 set for caster & 1 set for Furnace	1 Lot	2005
69	Emergency Water Tank Located on6th floor on RCC Super Structure	1 Nos.	2005
70	Chimney , MS make , Ht-60 mtrs	1 Nos.	2005

Sr. No.	Machinery & Equipments	Qty.	Year of Installation
D			
Billet Manufacturing Section - 1,62,000 MTPA			
71	Induction Melting Furnace 12 MT , Make Megatherm	2 Lot	2010
71.1	4 Nos Furnace Crucible of 12 T cap	4 Nos.	2010
71.2	2 Nos Electric Power Panel	2 Nos.	2010
71.3	4 Nos 10 T Cap Ladle & 4 Nos 15 T Cap Ladle	8 Nos.	2010
72	6/11 Continuous Casting Machine , ISPL Make	1 Lot	2005
73	Furnace Transformer 6 MVA,33 KVA/2 x850v,Make -Make Power & EMCo	2 Nos.	2010
74	Electrical Items including Cabling & Earthing for 12 T Furnace	1 Lot	2010
74.1	HT Switch gear , 33 KV , 630 Amps Complete CTPT & Relay System , Make- Meghatherm	1 Lot	2010
74.2	HT Cable With Cable Jointing Kit -75 mtrs x 2, Make- Meghatherm	1 Lot	2010
74.3	LT BUS Bar (copper Flat 8 Length , 6 mtrs long) -50 mtrs x2	1 Lot	2010
74.4	Bus Duct For LT Bus Bar , Make - Meghatherm	1 Lot	2010
74.5	MCC Panel , Make- Meghatherm	1 Lot	2010
74.6	LT Cable & LT interconnections,	1 Lot	2010
74.7	Earthing ,	1 Lot	2010
74.8	Factory Illumination,	1 Lot	2010
74.9	Power Control Cable	1 Lot	2005
75	Pollution Control Unit With TEFC Motor with Chimney for 12 T Furnace	2 Lot	2010
76	DM & Soft Water Treatment Plant ,Make- Meghatherm	1 Lot	2010
77	Cooling Tower , Make -Southern Cooling	3 Nos.	2010
78	Pumps & Motors	1 Lot	2010
78.1	Diesel Pump ,Make - Meghatherm	1 Nos.	2010
78.2	Pump With Motor, Make -Kirlokar	10 Nos.	2010
78.3	DM Heat Exchange Cooling Pump , Make Alfa Level	1 Nos.	2010
78.4	Coil Cooling Pump With Standby , Make- Meghatherm	1 Nos.	2010
78.5	Electric Motors of Various H.P	1 Lot	2005
79	Gi Pipe Lines & Fitting (50 mtrs each),Make- Meghatherm	1 Lot	2010
80	EOT Crane , Double Grider 35/10 ton For Liquide Metal Handling Make- Tubro	1 Nos.	2010
81	EOT Crane , Double Grider 15 ton For Magnet Handling	1 Nos.	2010
82	HOT Magnet, Make -ISC	1 Nos.	2010
83	Ramming Tools , Make- Meghatherm	1 Lot	2010
84	Compressor, Make -Atlas Copco	1 Nos.	2010
85	Air Compressors 200cfm, 7 kgs /cm2g	1 Nos.	2005
86	Laboratory Equipments	1 Lot	2005
86.1	Oscilloscope , Multi Meters, Make- Meghatherm	1 Nos.	2010
87	500KVA Electric Generating set	1 Lot	2005
88	Weight Bridge- 30 T (manual) Make : Manual -Atlas & Elec- Tulsii	1 Nos.	2005
89	Weight Bridge- 60 T (Electronic) Make : Manual -Atlas & Elec- Tulsii	1 Nos.	2005
90	Weight Bridge - 80 T (Electronic) Make : Manual -Atlas & Elec- Tulsii	1 Nos.	2010
91	Substation : 132/33/11 Kv Power Supply along with transformers,Cables , Panels Switch gears etc.	1 Lot	2005
92	Slag Crusher Machine & Screenhouse - 15 TPH Capacity	1 Lot	2014
93	Iron Ore Screenhouse - 20 TPH Capacity	1 Lot	2014

Bankura Plant - Preview (1/2)



Main entrance



Central store



Admin Building



Coal crusher



Coal shed



Boiler room

Bankura Plant - Preview (2/2)



Sponge Iron Area- Kiln



Sponge Iron Control room



Switch Yard



TG building



TMT Rolling mill



Security Control room

Thank You

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