



हिन्दुस्तान कॉपर लिमिटेड

HINDUSTAN COPPER LIMITED

CIN No.: L27201WB1967GOI028825

पंजीकृत एवं प्रधान कार्यालय
Registered & Head Office

ताम्र भवन TAMRA BHAVAN
1, आशुतोष चौधरी एवेन्यू,
पो.बॉ.सं. P.B. No. 10224
कोलकाता KOLKATA - 700 019

भारत सरकार का उपक्रम
A GOVT. OF INDIA ENTERPRISE

No. HCL/SCY/SE/ 2016

7.2.2018

The Sr. General Manager
Dept. of Corporate Services
BSE Limited
Phiroze Jeejeebhoy Towers
Dalal Street
Mumbai 400 001
BSE Scrip Code: 513599

The Vice President
Listing Department
National Stock Exchange of India Ltd
Exchange Plaza, C-1, Block G
Bandra-Kurla Complex, Bandra(East)
Mumbai 400 051
NSE Symbol: HINDCOPPER

Sir / Madam,

Sub: Disclosure under the SEBI (Listing Obligations and Disclosure Requirements), 2015

Pursuant to Regulation 30 of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, please find below Schedule of Institutional Investors meet to be held on 8.2.2018 at Mumbai:

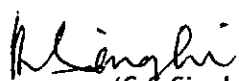
Sr. No	Event	Type of Meeting	Date
1	Edelweiss India Conference 2018	One-on-one/ Group Meetings	8.2.2018

A copy of the presentation to be made in the above meet is enclosed and is also available at the website of the Company at www.hindustancopper.com.

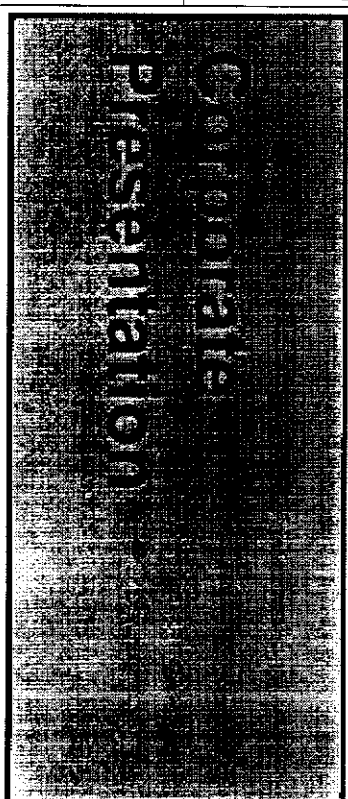
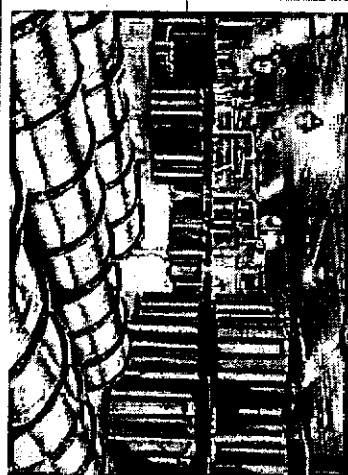
The above is submitted for information and record please.

Thanking you,

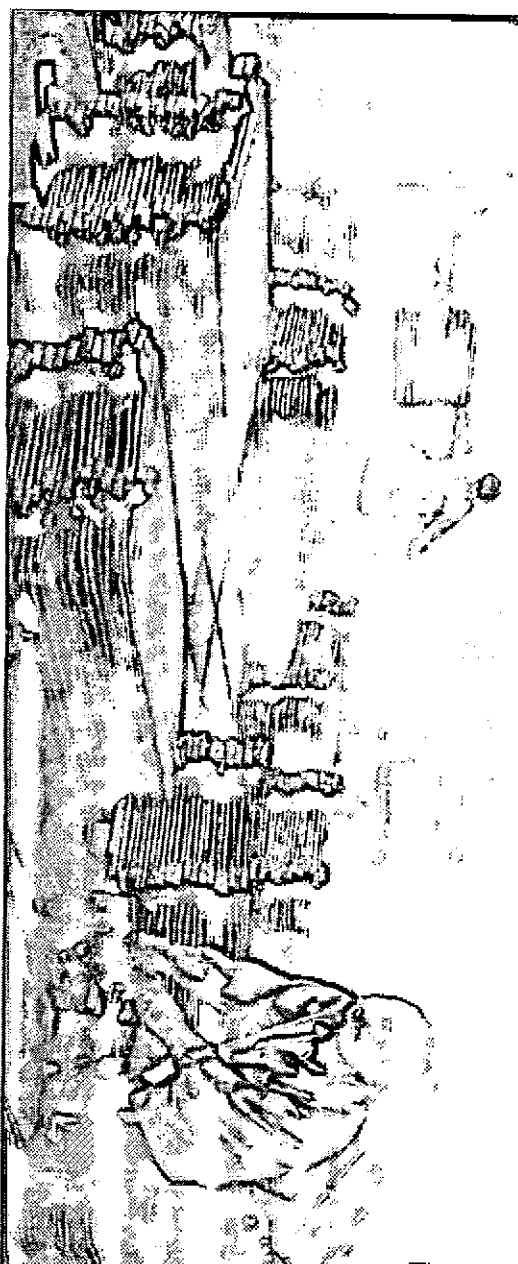
Yours faithfully,


(C S Singhi)
GM (IA) & Co Secretary

Encl: As stated



Feb 2018





THIS PRESENTATION ("PRESENTATION") IS NOT AN OFFER TO SELL ANY SECURITIES OR A SOLICITATION TO BUY ANY SECURITIES OF HINDUSTAN COPPER LIMITED (THE "COMPANY").

The material that follows is a Presentation of general background information about the Company's activities as at the date of the Presentation. It is information given in summary form and does not purport to be complete and it cannot be guaranteed that such information is true and accurate. This Presentation does not constitute a prospectus, offering circular or offering memorandum or an offer, or a solicitation of any offer, to purchase or sell, any shares and should not be considered as a recommendation that any investor should subscribe for or purchase any of the Company's equity shares. Securities of the Company may not be offered or sold in the United States absent registration under the U.S. Securities Act of 1933, as amended, or an exemption from the registration requirements of that Act. Any public offering or sale of securities of the Company to be made in the United States will be made by means of a prospectus that may be obtained from the Company or the selling security holder and that will contain detailed information about the Company and its management, as well as financial statements.

This Presentation includes statements that are, or may be deemed to be, "forward-looking statements". These forward-looking statements can be identified by the use of forward-looking terminology, including the terms "believes", "estimates", "anticipates", "projects", "expects", "intends", "may", "will", "seeks" or "should" or, in each case, their negative or other variations or comparable terminology, or by discussions of strategy, plans, aims, objectives, goals, future events or intentions. These forward-looking statements include all matters that are not historical facts. They appear in a number of places throughout this Presentation and include statements regarding the Company's intentions, beliefs or current expectations concerning, amongst other things, its results or operations, financial condition, liquidity, prospects, growth, strategies and the industry in which the Company operates. By their nature, forward-looking statements involve risks and uncertainties because they relate to events and depend on circumstances that may or may not occur in the future. Forward-looking statements are not guarantees of future performance including those relating to general business plans and strategy of the Company, its future outlook and growth prospects, and future developments in its businesses and its competitive and regulatory environment. No representation, warranty or undertaking, express or implied, is made or assurance given that such statements, views, projections or forecasts, if any, are correct or that the objectives of the Company will be achieved. The Company's actual results of operations, financial condition and liquidity, and the development of the business sector in which the Company operates, may differ materially from those suggested by the forward-looking statements contained in this Presentation. In addition, even if the Company's results of operations, financial condition and liquidity, and the development of the industry in which the Company operates, are consistent with the forward-looking statements contained in this Presentation, those results or developments may not be indicative of results or developments in subsequent periods.

The Company, as such, makes no representation or warranty, express or implied, as to, and does not accept any responsibility or liability with respect to, the fairness, accuracy, completeness or correctness of any information or opinions contained herein. The information contained in this Presentation, unless otherwise specified is only current as of the date of this Presentation. The Company assumes no responsibility to publicly amend, modify or revise any forward looking statements, on the basis of any subsequent development, information or events, or otherwise. This presentation has been prepared based on the information available in the public domain and internal management information and estimates. The information contained herein is subject to change without notice. Past performance is not indicative of future results.

This document has not been and will not be reviewed or approved by a regulatory authority in India or by any stock exchange in India.

This presentation refers to the Joint Ore Reserves Committee (JORC) Equivalent Mineral resource and Ore Reserve Statement prepared by IMC SRG Consulting (Pvt.) Limited dated September 11, 2010. As this statement has been issued in 2010, the information contained in such statement is subject to risks including changes in capacity reserves, changes in expected expansion cost, risks related to delays in expansion, obtaining and maintaining mining leases at the mining site, obtaining environmental clearances and requisite government approvals.

Company Overview



Winner to The Nation



Long Standing Presence

- A 'Mini Ratna' Company
- Around 5 decades of experience in mining copper
- Government of India (GoI) shareholding of 82.88 %
- Named the industry leader (base metals) at the 2016 PLATTS Global Metals Awards ¹

Vertically Integrated Operations

- The only integrated producer of refined copper in India
- Major activities include mining, ore beneficiation, smelting/ secondary smelting, refining and casting of refined copper metal into downstream products

Sole Copper Ore Producer in India

- The only company in India engaged in mining of copper ore
- Owns all the operating mining lease of copper ore
- Proven experience and expertise in developing and operating copper mines

Access to Substantial Reserves

- Has access to over 2/3rd of India's copper ore reserves
- Reserves: 411.53 mn tonnes ²
- Resources: 623.31 mn tonnes ³

Clear Roadmap for Expansion

- Plans to increase capacity from 3.4 mn tonnes to 12.2 mn tonnes ⁴
- Through expansion, re-opening of closed mines and exploration

Robust Financial Performance

- Market Capitalization – Rs. mn ⁵
- 9 month FY 18 Revenue – Rs. 13180 mn ⁶ , 9 month FY 18 ; EBITDA Rs 2163 mn ⁶
- Credit Rating: Short Term: ICRAA1+ ; Long Term; ICRA AA+ ⁷

Notes:

1. Platts 2016 global metal awards; <https://qma.platts.com>. Golden Peacock award for CSR in Jan 2017/
2. Proved + Probable, as per Joint Ore Reserves Committee Equivalent Mineral Resource And Ore Reserve Statement prepared by IMC SRG Consulting (Pvt.) Limited dated September 11, 2010
3. Measured + Indicated, as per Joint Ore Reserves Committee Equivalent Mineral Resource And Ore Reserve Statement prepared by IMC SRG Consulting (Pvt.) Limited. dated September 11, 2010
4. Based on Management estimates. Please note that these estimates are subject to risks including changes in expected capacity, changes in expected expansion cost , risks relating to delays in expansion, obtaining and maintaining mining leases at the mining sites, obtaining environmental clearances and requisite government approvals
5. BSE as of Feb 6, 2018
6. Based on stock exchange filings for 9 months of FY 17-18 , ended Dec 31, 2017
7. ICRA credit rating report, April-2017

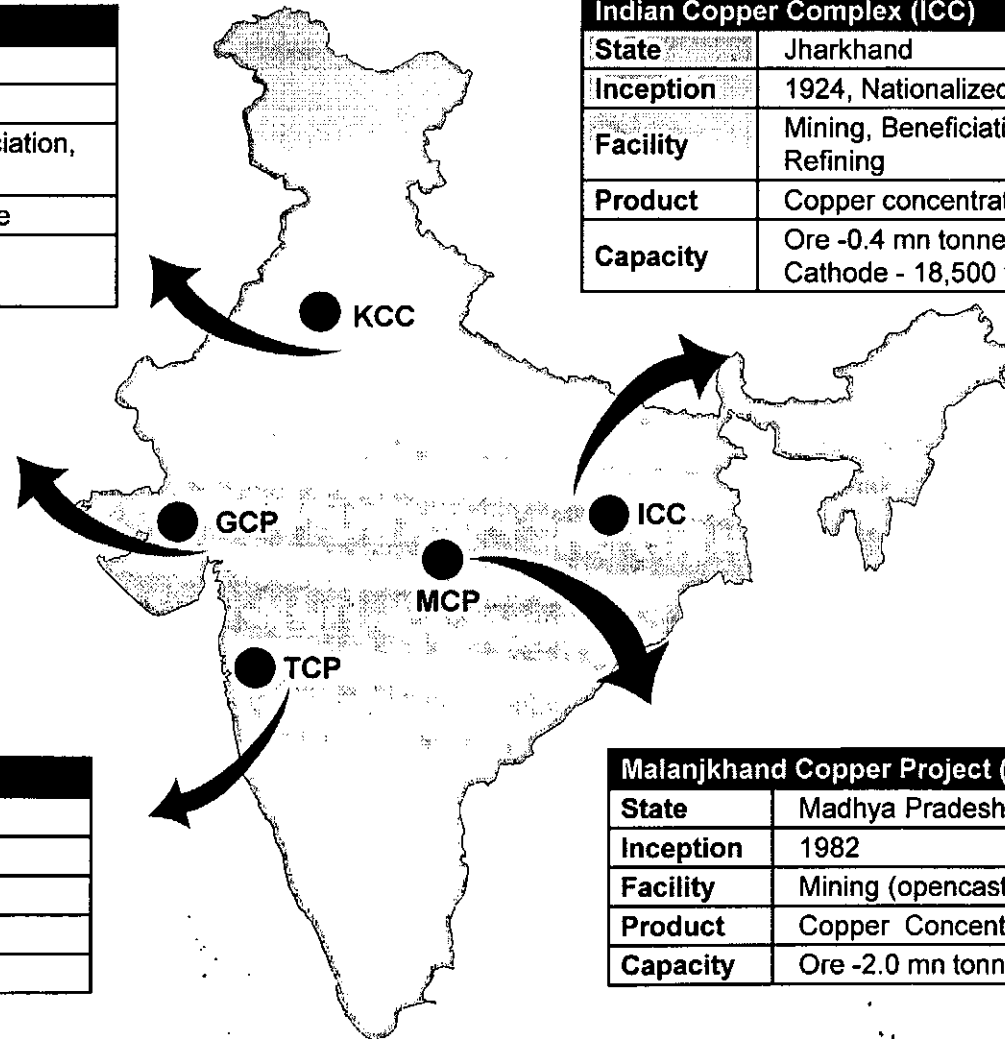


Khetri Copper Complex (KCC) ¹	
State	Rajasthan
Inception	1967
Facility	Mining (underground), Beneficiation, Smelting & Refining
Product	Copper Concentrate & cathode
Capacity	Ore -1.0 mn tonnes p.a. Cathode - 31,000 tonnes p.a.

Gujarat Copper Project (GCP)	
State	Gujarat
Acquisition	2015
Facility	Copper smelting & Refining
Product	Copper cathode
Capacity	Cathode – 50,000 tonnes p.a.

Taloja Copper Project (TCP)	
State	Maharashtra
Inception	1988
Facility	Continuous casting
Product	Copper wire rod
Capacity	60,000 tonnes p.a.

Indian Copper Complex (ICC)	
State	Jharkhand
Inception	1924, Nationalized in 1972
Facility	Mining, Beneficiation Smelting & Refining
Product	Copper concentrate & cathode
Capacity	Ore -0.4 mn tonnes p.a. Cathode - 18,500 tonnes p.a.



Malanjkhand Copper Project (MCP)	
State	Madhya Pradesh
Inception	1982
Facility	Mining (opencast), Beneficiation
Product	Copper Concentrate
Capacity	Ore -2.0 mn tonnes p.a.

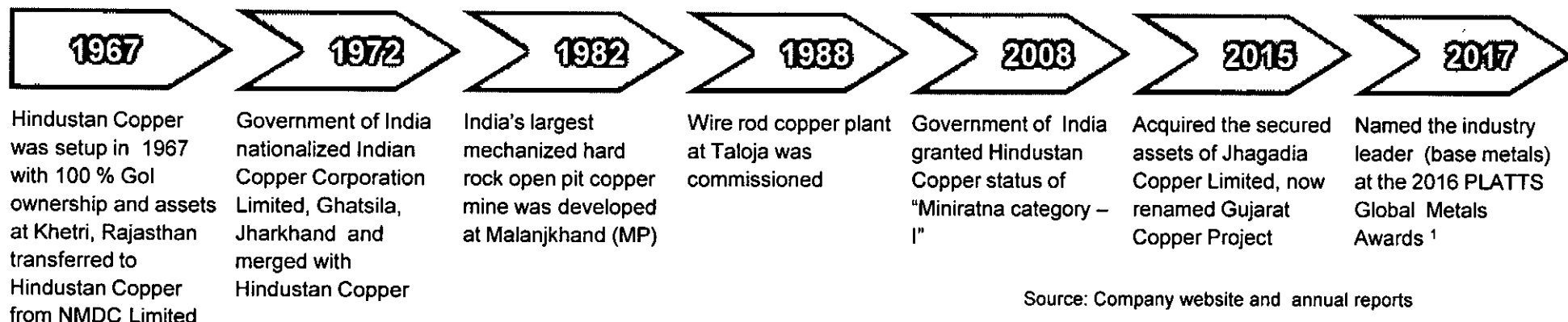
Notes:

1. Mines are operational, only Smelter and Refinery not in operation since Dec 2008, on account of economic consideration
2. Map not to scale and is presented only to provide an indication of approximate locations of our mining complexes

Evolution and Share Holding Structure



Evolution of Hindustan Copper



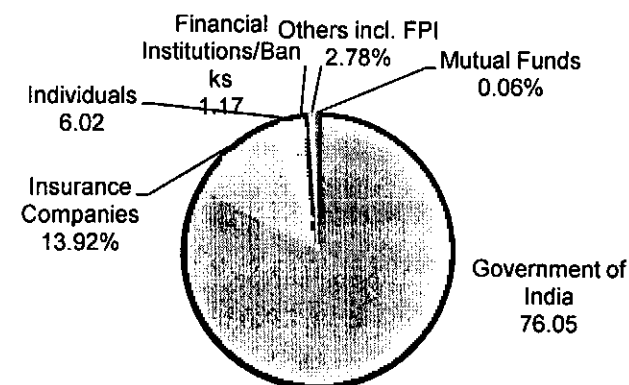
Listed on BSE and NSE

Number of Shares: 925.2 mn

**Share Price (52Wk High/Low):
Rs. 110.55² (07/11/2017) / Rs. 55.45² (04/10/2017)**

Market Cap: Rs. 68187 mn²

Shareholding Pattern ³



Notes:

1. Platts 2016 global metal awards; <https://gma.platts.com>. Golden Peacock award for CSR in Jan 2017/
2. BSE as of Feb 6, 2018
3. Shareholding position as on Dec 31, 2017 (pie chart not to scale)



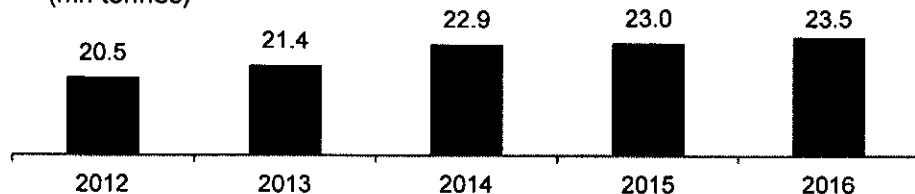
- 1 **Significant Growth Potential in Copper Consumption in India**
- 2 Vertically Integrated Operations
- 3 Only Operating Producer of Copper Ore in India
- 4 Access to Substantial Copper Ore Reserves in India
- 5 Clear Roadmap for Expansion
- 6 Robust Financial Performance



Copper Production and Usage Highlights

World Refined Copper Usage

(mn tonnes)



- Copper usage increased by ~2% in CY2016 compared to CY2015
- Mainly due to higher Chinese demand (demand increased by 2.5%)
- Excluding China, world usage increased by ~1%

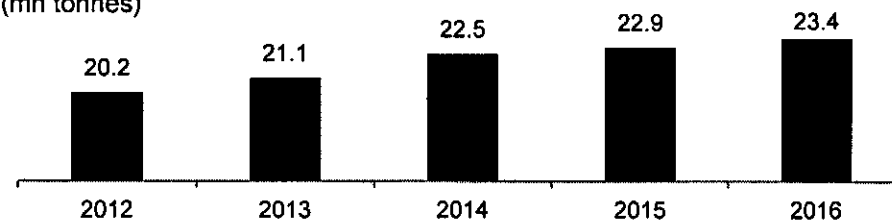
Region wise change in usage

Europe	+ 2%
Asia	+ 3%

Americas	- 3%
----------	------

World Refined Copper Production (Primary + Secondary)

(mn tonnes)



- Copper production Increased by ~2.5% in CY 2016 compared to CY2015
- Main contributor to growth was China (increase in production by 6%) followed by US (7%) , Japan (5%) & Mexico (16%)

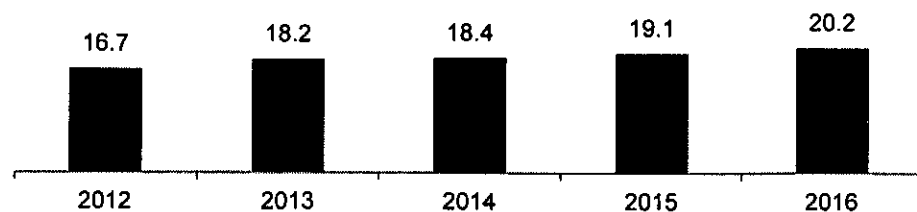
Region wise change in production

Europe	- 2%
Asia	+ 6%

Africa	- 10%
Americas	+ 1%

World Copper Mine Production (in metal terms)

(mn tonnes)



- Copper Mine production increased by ~5% in CY2016 compared to CY2015

Main contributors to increase in mine production

- 38% rise in Peruvian output, that benefitted from new and expanded capacity brought on stream in last 2 years
- Recovery in production levels in Canada, Indonesia and US
- Expanded capacity in Mexico

Region wise change in production

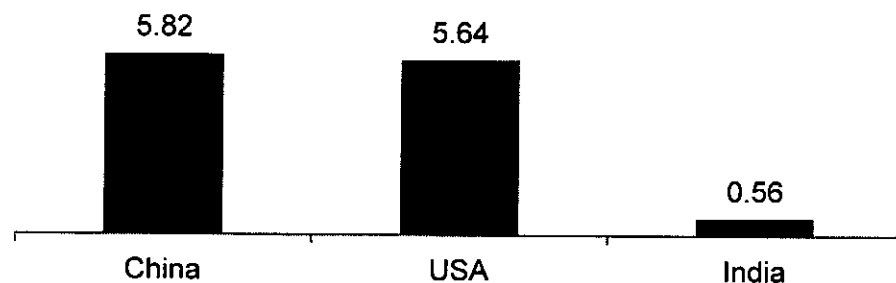
Europe	~ 0%
Asia	+ 12%

Africa	- 4%
Americas	+ 6%



India's Per Capita Copper Consumption currently low – Expected to increase to 3 kg by 2025

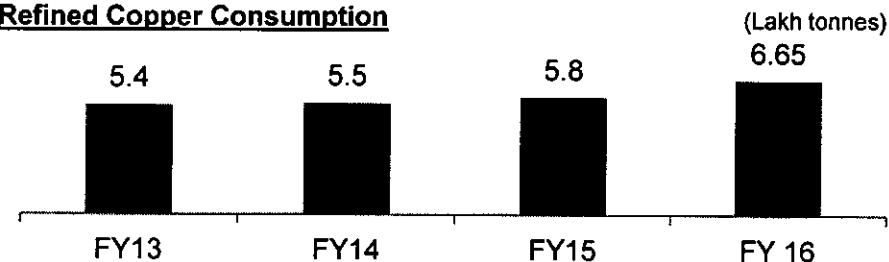
(kg/person)



Source: Ministry of Mines, Annual Report 2015-16

Domestic Copper Consumption to Increase

Refined Copper Consumption

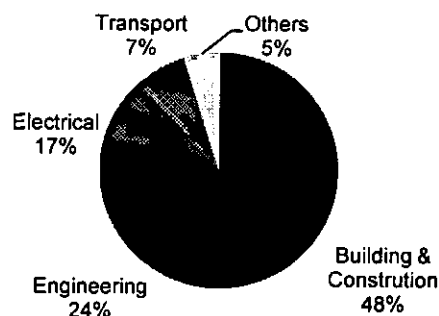


Copper consumption growth rate is likely to increase around 6% to 7% due to improvement in growth rate of manufacturing, housing & infrastructure and Power sectors

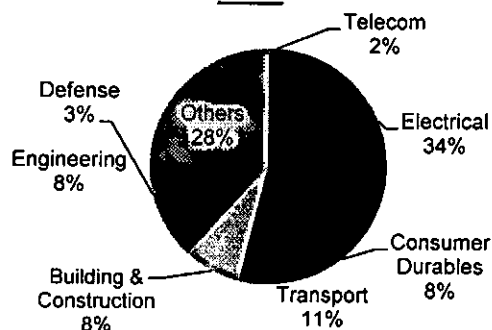
Source: Ministry of Mines Annual Report 2015-16

Refined Copper Consumption

World



India



India's copper consumption is concentrated in Electrical industry in contrast with the rest of the world which is concentrated in Building and Construction

Source: Ministry of Mines, <http://mines.nic.in/>

Government initiatives will further Increase Growth of the Copper Consuming Industries

- Total projected outlay for infrastructure in FY18: Rs. 2,413 bn ¹
- Target of achieving 160GW of solar and wind by 2022 ²
- "Make in India" is expected to drive manufacturing growth
- Power and construction sectors to witness strong growth
 - Electricity generation estimated to increase by 6.0% in FY18 ²
 - 100 Smart Cities and 500 AMRUT Cities likely to invite investments of Rs. 2 tn in the next five years ³

Source:

1. Union Budget 2017 -18, <http://unionbudget.nic.in>
2. Ministry of power, <http://powermin.nic.in/>
3. Make in India, <http://makeinindia.com/>

1c

Addressing Gap in Domestic Copper Ore Mining Capacity by Custom Smelters in India



- Significant mismatch between India's processing requirement and copper mining capacity
- Approximately 100 mn tonnes of copper ore (assuming a copper content of 1%) is required to produce 1 mn tonne of refined copper
- The copper ore production in India for 2015-16 was 3.9 mn tonnes, meeting only ~4% of the country's demand ¹. The current mining capacity is entirely catered to by HCL
- Custom smelters are relying on imported copper concentrate to feed their plants

Hindustan Copper Advantage

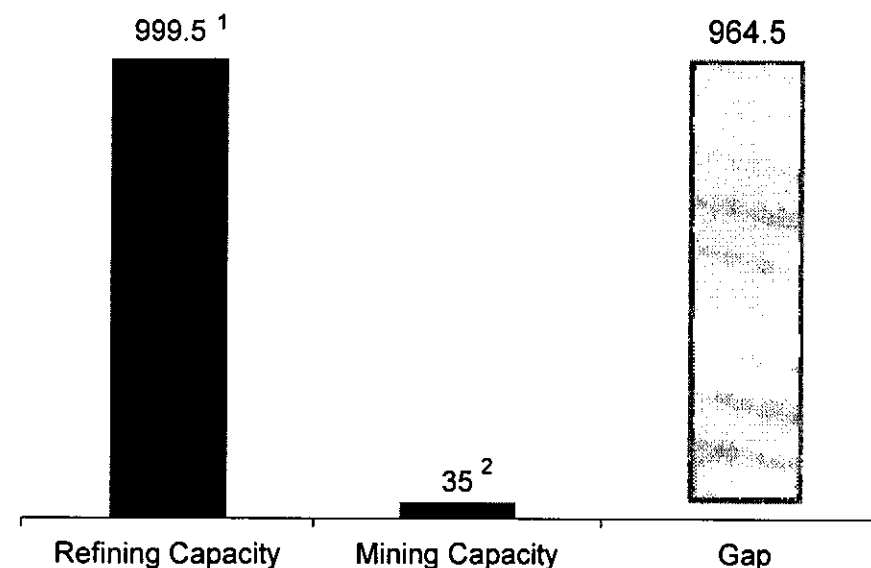
- Mining is the maximum value creator in the value chain of copper
- HCL has identified mining as its core focus area
- Significant capacity addition have been envisaged in Mining – expansion from 3.4Mtpa to 12.2 Mtpa ²
- Significant potential for copper concentrate consumption in the country. Currently the requirements are met through Imports by custom smelters
- HCL has added 50,000 tonnes of smelting and refining capacity by acquiring the assets of Jhagadia Copper Limited

1. Company annual report 2015-16

2. Please refer Slide 18 for details

India's Refined Copper Capacity vs. Copper Mining Capacity (as of FY17)

('000 tonnes)



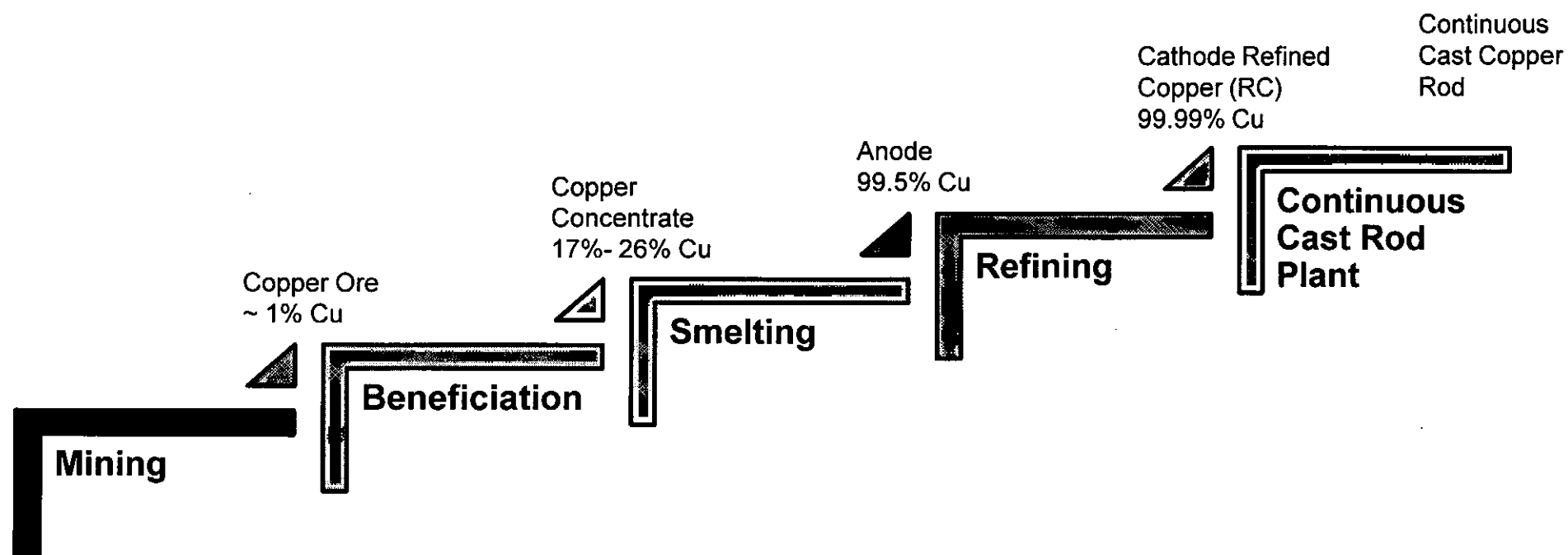
Notes

1. Refining capacity break-up ('000 tonnes)
 - i. Hindalco: 500.0
 - ii. Vedanta: 400.0
 - iii. HCL : 99.5
2. Indicates the amount of refined copper that can be extracted from the current copper ore production in India

Source: Company websites

2a

Integrated Operations





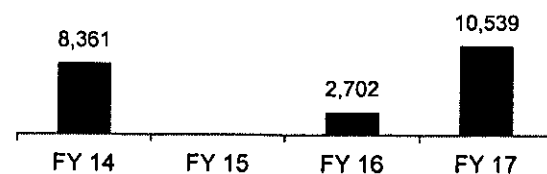
Facilities Overview

Facility	Location	Principal Activities	Products	Operating Capacity ('000 tonnes)
ICC Smelter	ICC	Copper smelting	Copper anodes	20.5
ICC Refinery	ICC	Copper refinery producing LME grade Copper Cathode from Anode	Copper cathodes	18.5
TCP Extrusion Plant	TCP	Production of continuous cast rods from copper cathode	Continuous cast rods	60.0
KCC Smelter & Refinery	KCC	Copper smelting & Refining	Copper cathodes	31.0
GCP Smelter & Refinery	GCP	Copper smelting & Refining	Copper cathodes	50.0

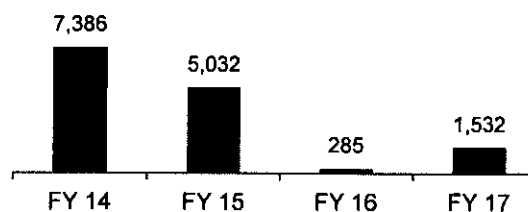
1. Not in operation since Dec 2008, on account of economic consideration

Sales Overview

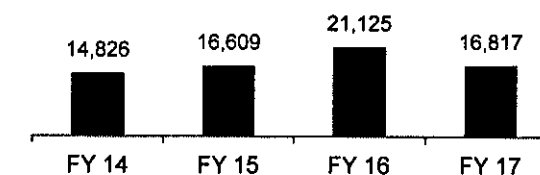
Metal in Concentrate
(tonnes)



Cathode
(tonnes)

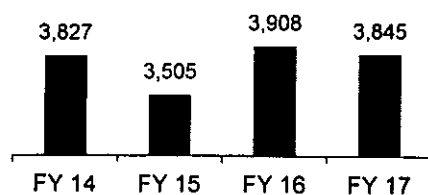


Continuous Cast Copper Rods
(tonnes)

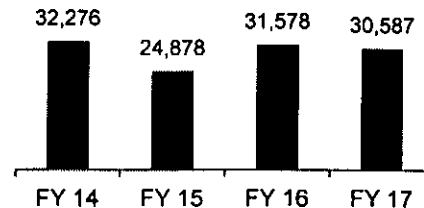


Production Overview

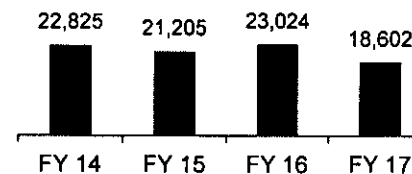
Ore
('000 tonnes)



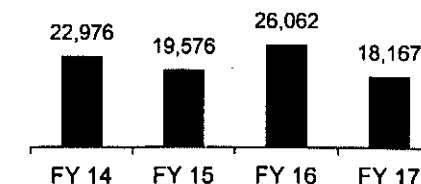
Metal in Concentrate
(tonnes)



Cathode
(tonnes)

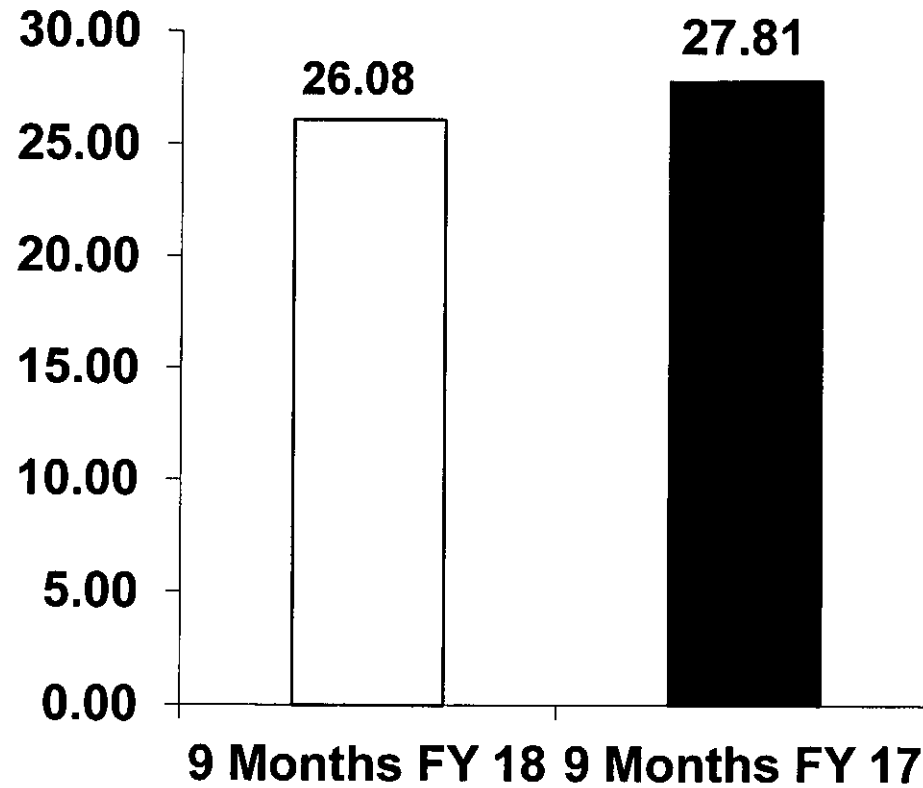


Continuous Cast Copper Rods
(tonnes)

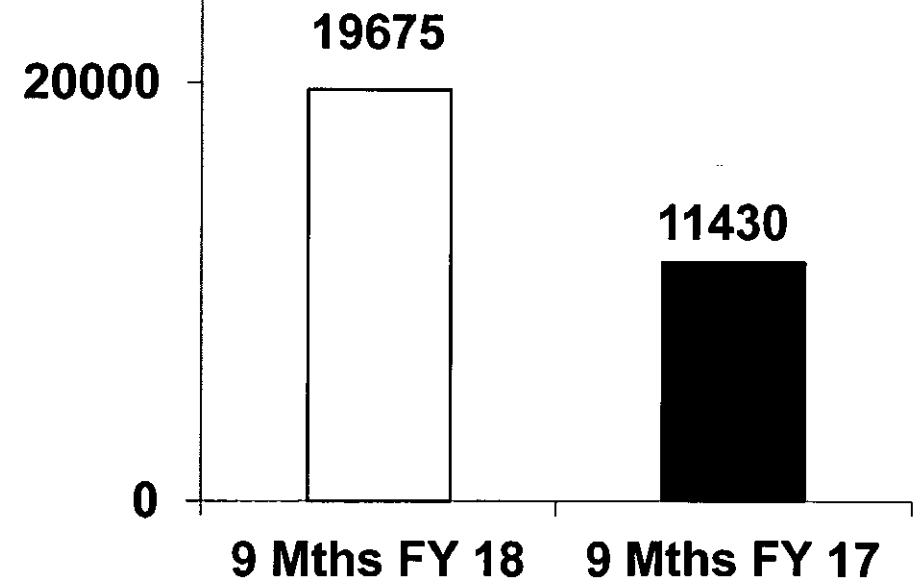


FY 18 - (9 Months)

Copper Ore Lakh MT



Cathode (MT)





2c

- **Copper Concentrate**
Grade 17-26%



- **Applications**
Smelting and Refined Copper

- **Cathode**
Purity: 99.99% - equivalent to LME
Grade – "A" specification



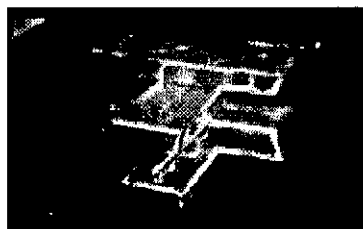
- **Applications**
Alloys, foils, CC Wire Rods

- **Continuous Cast Wire Rod**
Diameter(mm): 8, 11, 12.5, 16, 19.6
(+/- 0.50 mm)



- **Applications**
Winding wires, strips

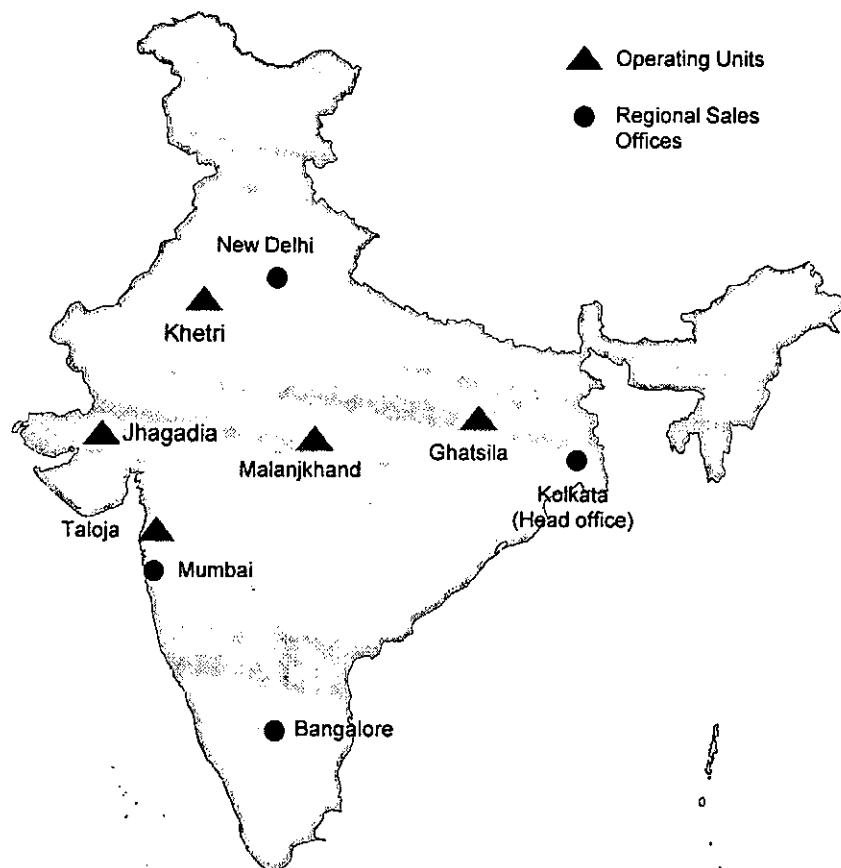
- **By Products**
 - Anode Slime containing precious metals
 - Sulphuric Acid
 - Copper Sulphate



- **Applications**
Anode Slime – production of gold and silver



Experience and expertise in developing and operating Copper Mines



- HCL has significant Mining Resources with high grade of copper in Ore

Note:

1. Map not to scale and is presented only to provide an indication of approximate locations of our mining complexes

Copper Reserves and Resources as on April 1, 2010 as per JORC ³

Mines	Reserves ¹ (mn Tonnes)	Average Grade (% Cu)	Resources ² (mn Tonnes)	Average Grade (% Cu)
MCP				
Malanjkhand	245.66	0.95	331.59	0.97
ICC				
Surda phase I	4.81	1.05	23.49	1.22
Surda phase II	9.85	1.27	17.99	1.02
Rakha phase I	3.36	1.14	6.42	1.15
Rakha phase II	30.63	1.18	41.03	0.93
Kendadih	9.27	1.4	17.84	1.25
Sideshwar	7.68	2.19	13.73	1.45
Chapri	41.6	1.15	49.84	1.04
Tamapahar	14.42	1.08	26.46	0.87
Total ICC	121.61	1.24	196.85	1.07
KCC				
Khetri	10.51	0.91	32.47	1.13
Kolihan	13.47	1.03	19.45	1.32
Banwas	20.27	1.32	24.77	1.69
Chandmari intermediate	0	0	12.11	1.02
Chandmari	0	0	6.07	1.03
Total KCC	44.25	1.13	94.87	1.30
Total	411.53	1.05	623.31	1.05

□ Operating Mines

Note:

1. Proved + Probable

2. Measured + Indicated

3. Joint Ore Reserves Committee of the Australasian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and the Minerals Council of Australia.

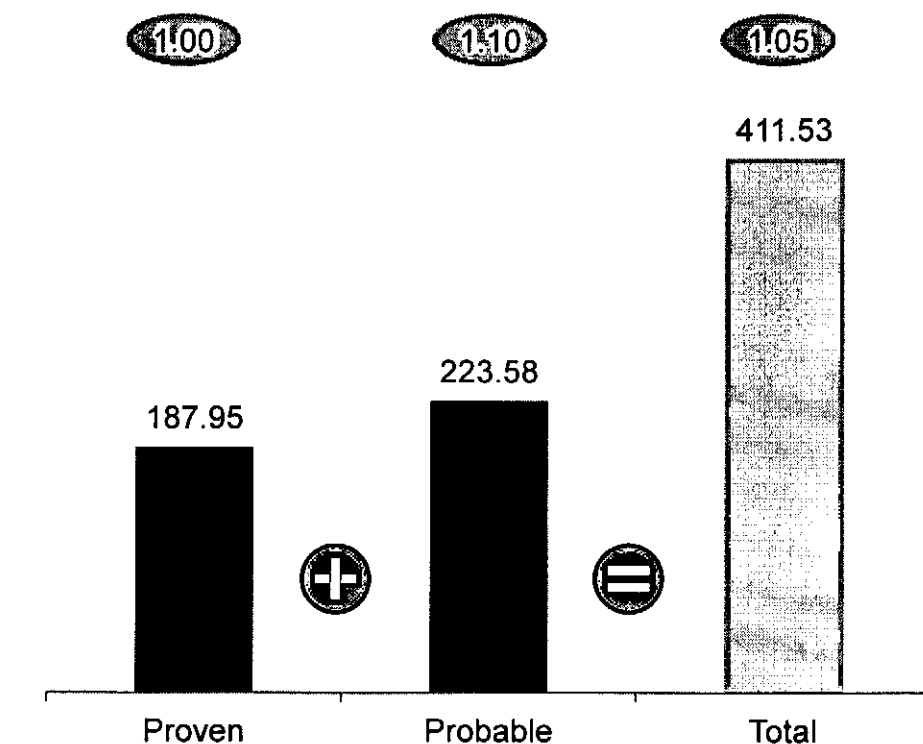
Source: JORC Equivalent Mineral Resource And Ore Reserve Statement prepared by IMC SRG Consulting (Pvt.) Limited, dated September 11, 2010



HCL has access to over 2/3rd of India's copper ore reserves

Reserves

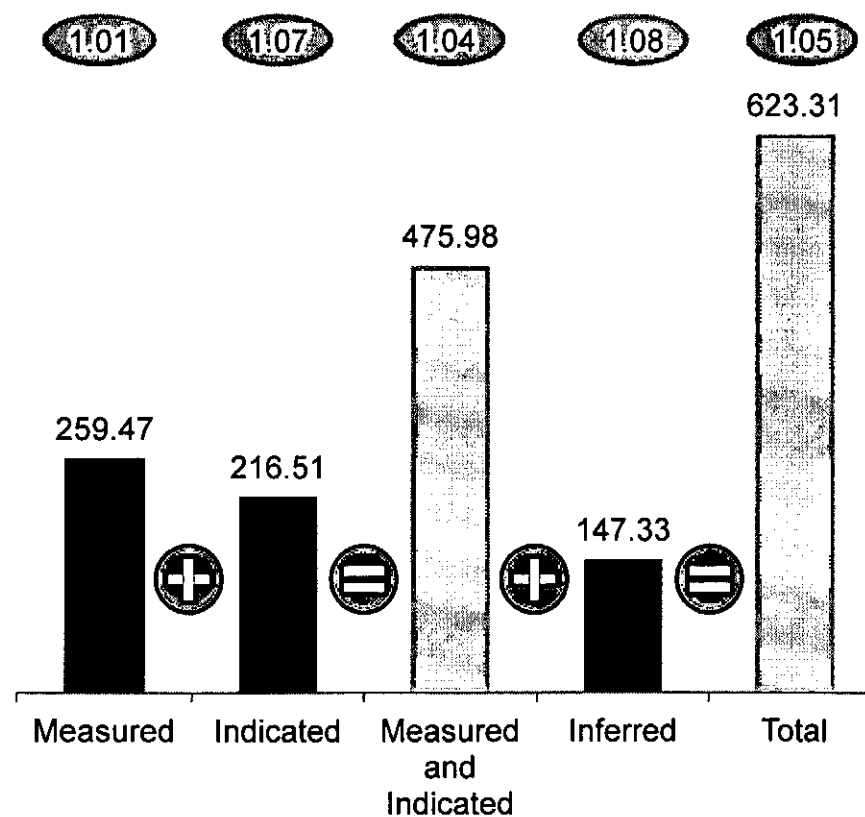
(mn tonnes)



 Average Grade

Resources

(mn tonnes)

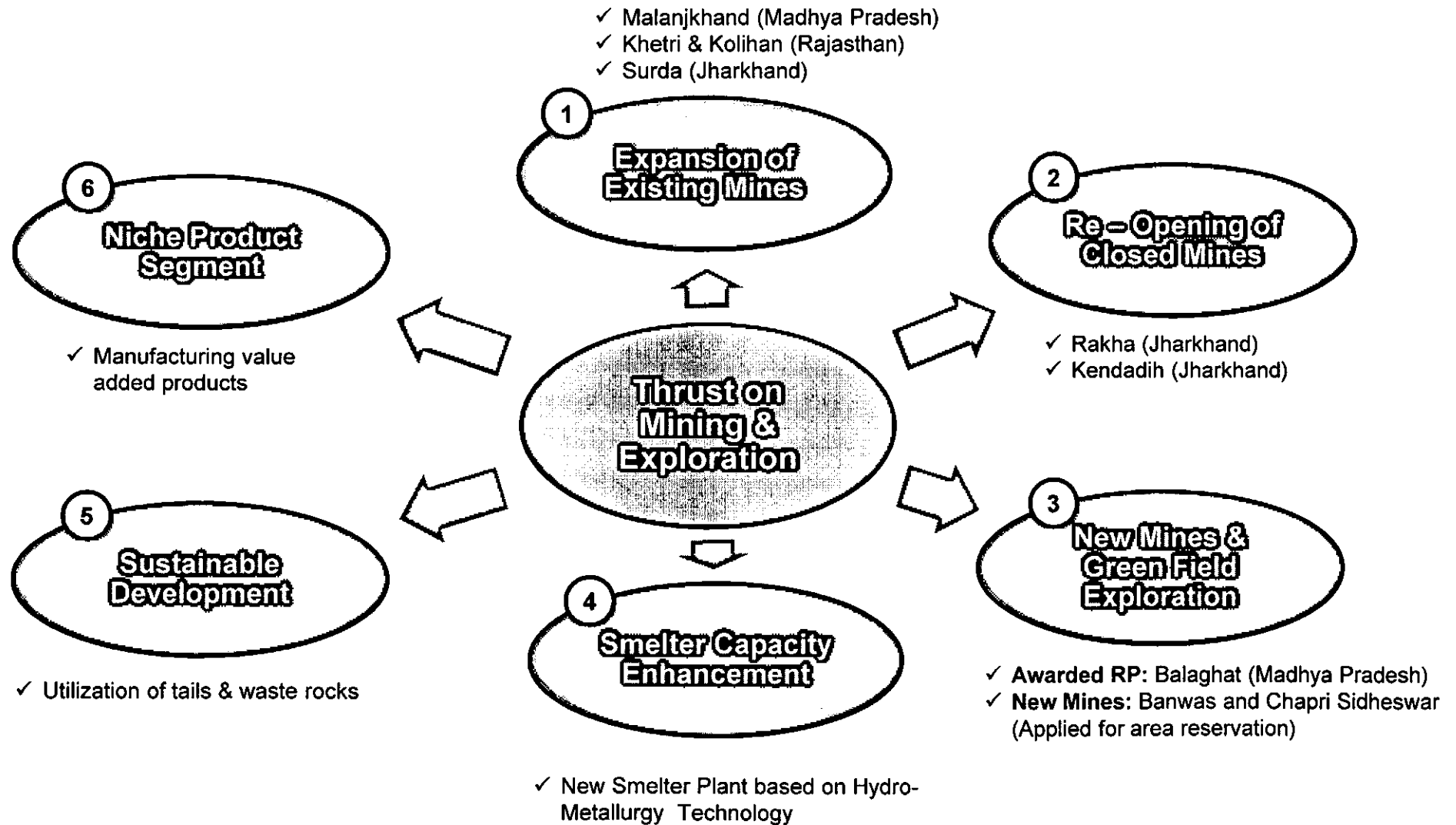


Source: JORC Equivalent Mineral Resource and Ore Resource Statement prepared by IMC-SRG Consulting (Pvt.) Limited. Dated September 11, 2010



5a

Expansion Strategy: Thrust Areas





5b

Estimated Production Capacity

Expansion of Existing Mines	(MTPA)	Existing Capacity	Expected Capacity	Expected Expansion Cost including Concentrator plant (Rs. Mn)
	Malanjkhand	2.0	5.0	18,560
	Khetri and Kolihan	1.0	2.5	4,410
	Surda	0.4	0.9	2,190
	Total	3.4	8.4	25,160
Reopening of Closed Mines	(MTPA)	Existing Capacity	Expected Capacity	Expected Expansion Cost including Concentrator plant (Rs. Mn)
	Kendadih	-	0.21	940 (Development operation has commenced)
	Rakha	-	1.5	To implement the project through MDO route
	Total	-	1.7	940
Establishing New Mines	(MTPA)	Existing Capacity	Expected Capacity	Expected Expansion Cost including Concentrator plant (Rs. Mn)
	Banwas	-	0.6	Completed (Production and Development commenced)
	Chapri-Sidheshwar	-	1.5	To implement the project through MDO route
	Total	-	2.1	--
Grand Total		3.4	12.2	26,100

Source: Costs stated are at the time of award / Based on Management estimates. Please note that these estimates are subject to risks including changes in expected capacity, changes in expected expansion cost, risks relating to delays in expansion, obtaining and maintaining mining leases at the mining sites, obtaining environmental clearances and requisite government approvals

Approval of
Board

Invite RFQ

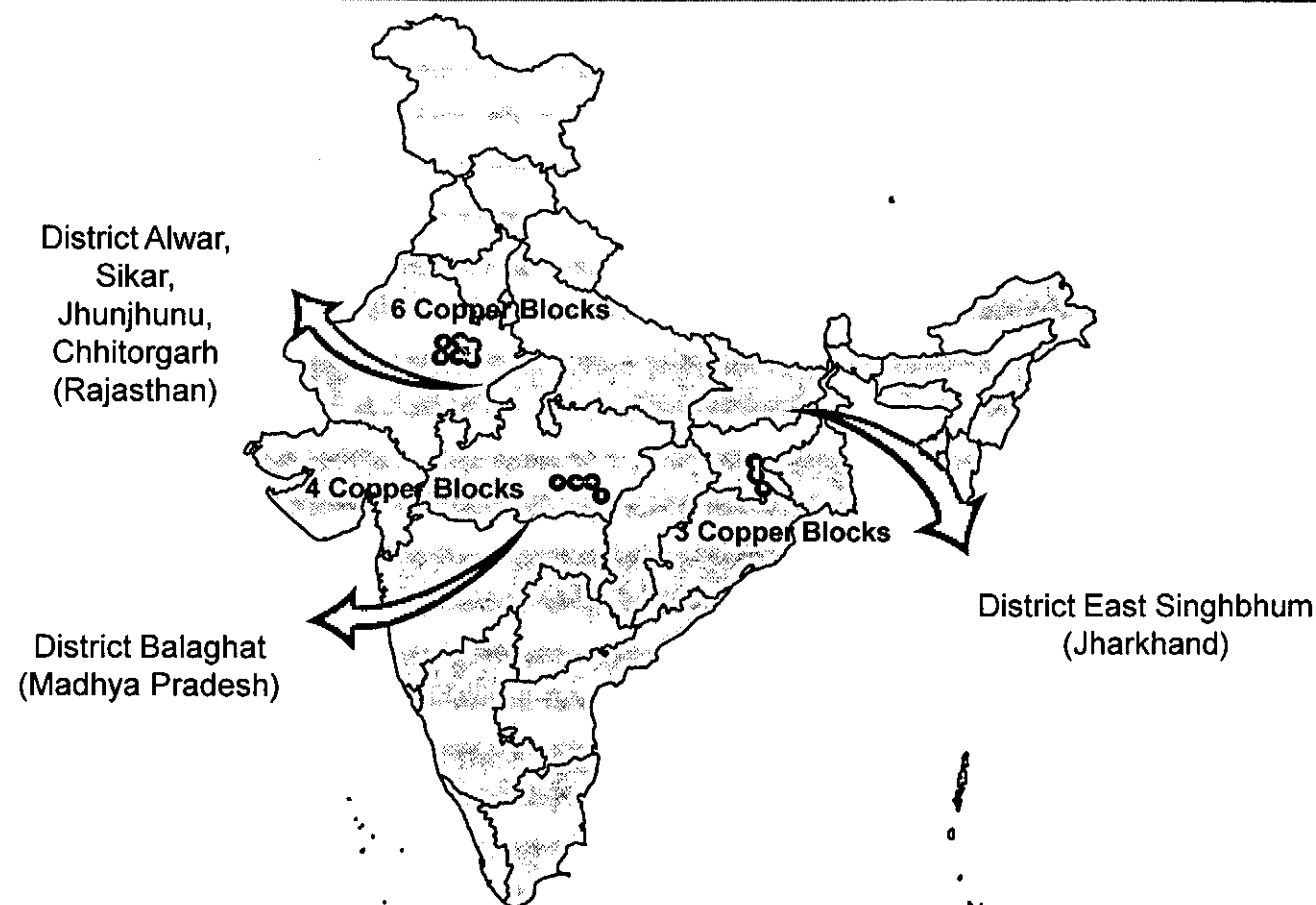
Issuance
of RFQFinalization of
Contract / Lol
issuedMine
Construction and
Development

Mine	Investment Approval	Invite RFQ	Issuance of RFP	Finalization of Contract / Lol Issued	Mine Construction	Scheduled Completion
MCP	Investment approvals in place	Completed	Completed	Completed	Started in 2015	2020
Khetri	Investment approvals in place	Completed	Completed	Completed	Work-in-progress	2021
Surda	Investment approvals in place	Completed	Completed	Completed	Work-in-Progress	2020
Kendadih	Investment approvals in place	Completed	Completed	Completed	Completed	2018
Rakha	Investment approvals in place	Consultant appointed. Bid document under preparation.				To implement the project through MDO route
Banwas	Investment approvals in place	Completed	Completed	Completed	Completed on February 2017 MDO appointed and production has commenced from Feb 2018	
Chapri-Sideshwar	Investment approvals in place	Consultant appointed. Bid document under preparation.				To implement the project through MDO route



5d

Exploration for New Deposits



Application Submitted for Reservation of area for Conservation of Copper Mineral under Rule 17(A) of Mines and Minerals (Development and Regulation) Act, 1957

Notes:

1 Awarded RP in 580.73 sq km in the district of Balaghat in MP

2 Map not to scale and is presented only to provide an indication of approximate locations of our mining complexes

**5e**

Setting up New Projects

Project	Estimated Project Cost (INR mn)	Status
Extraction of Minerals from Copper ore tails	2,000	▪ Awarded contract for installation and commissioning of CoT plant of annual capacity 3.3 million tonne at Malanjkhand. ▪ The work at site commenced in April 2017 ▪ Plant expected to start trial production from April 2018
JV with CMDC for exploration & exploitation of copper in Chhattisgarh State.	100.0	▪ JV Agreement with CMDC signed August 31, 2016 ▪ JV Company operation will start from March 2018



Waste to Wealth: Extraction of Copper Ore Tailings (COT)



Current Operations of Hindustan Copper

Copper Mine



Copper Ore



Copper Concentrate



Anode



Cathode Refined Copper



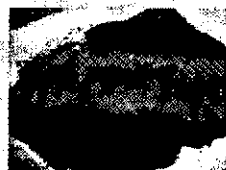
Continuous Cast Copper Rod (CCR)



Expansion Plan for Utilization of COT

During the Beneficiation process, ~93%-95% ore is discarded as tailings

Copper Tailings



Minerals Extracted from Copper Tailings at MCP

Gold
(bullion grade 90%)



Silver
(grade 92.5%)



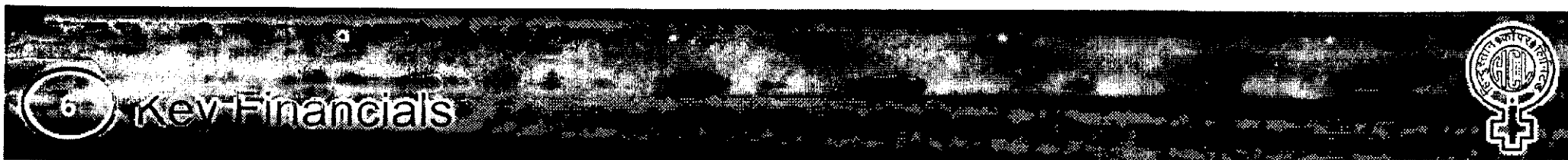
Glass Grade Silica



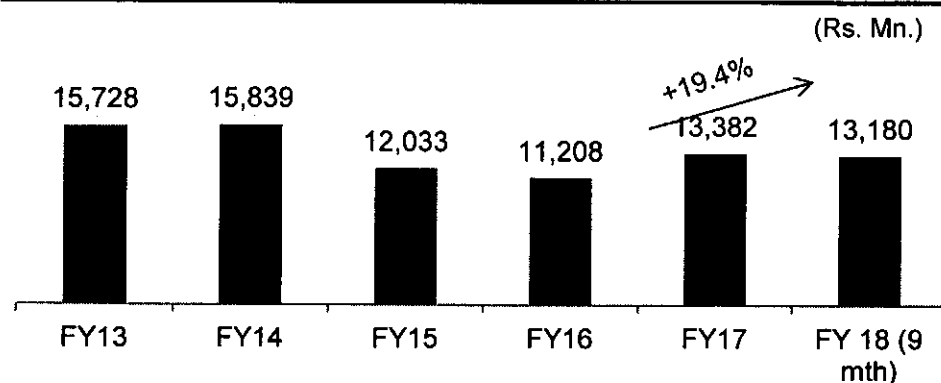
Media grade Magnetite



- Over a period of time, considerable quantity of COT has accumulated:
 - ~55 million tonnes at Malanjkhand Copper Project (MCP)
 - ~40 million tonnes at Khetri Copper Complex (KCC)
- Company had conducted a successful pilot project at KCC
- And now it is setting up a 3.3 million tonnes COT Plant at MCP

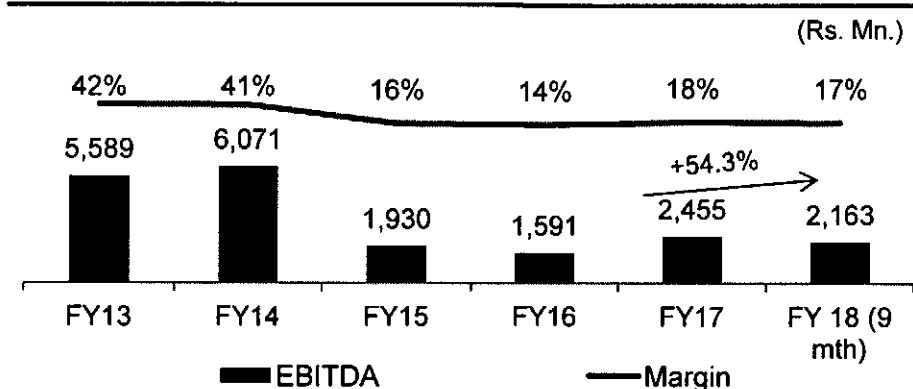


Revenue



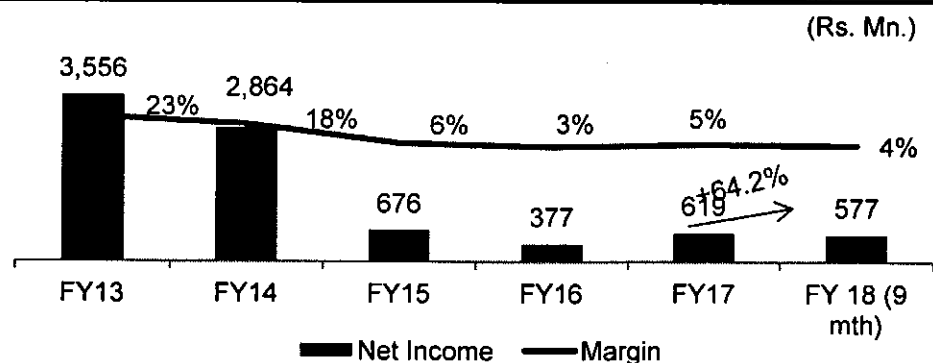
Note:
1 Revenue includes other income

EBITDA



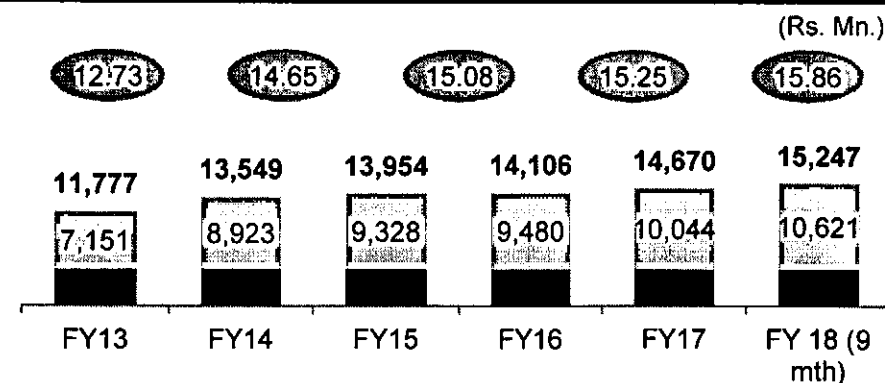
Note:
1 EBITDA includes other income
2 EBITDA margin = EBITDA (including other income) / Revenues (including other income)

Net Income



Note:
1 Net Income margin = Net Income / Revenues (including other income)

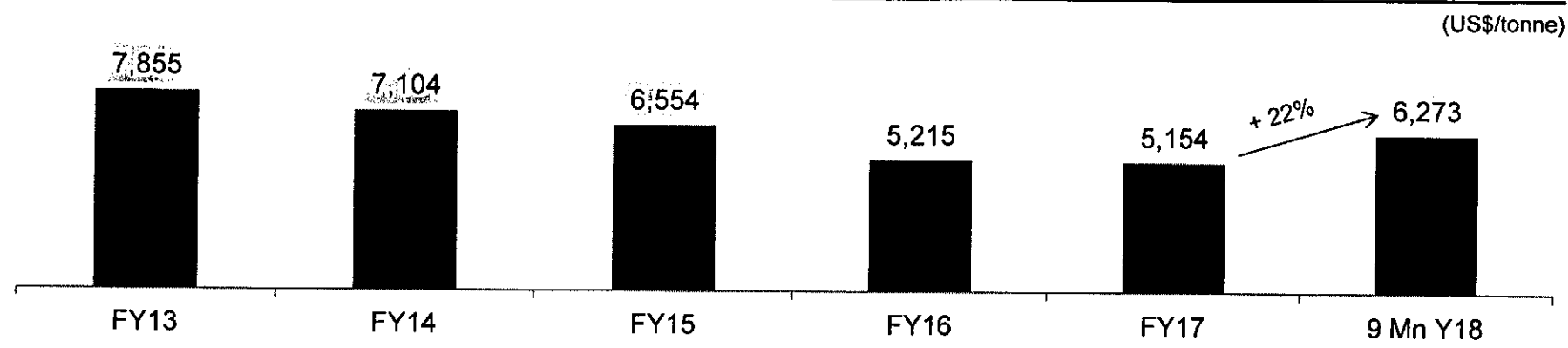
Net Worth



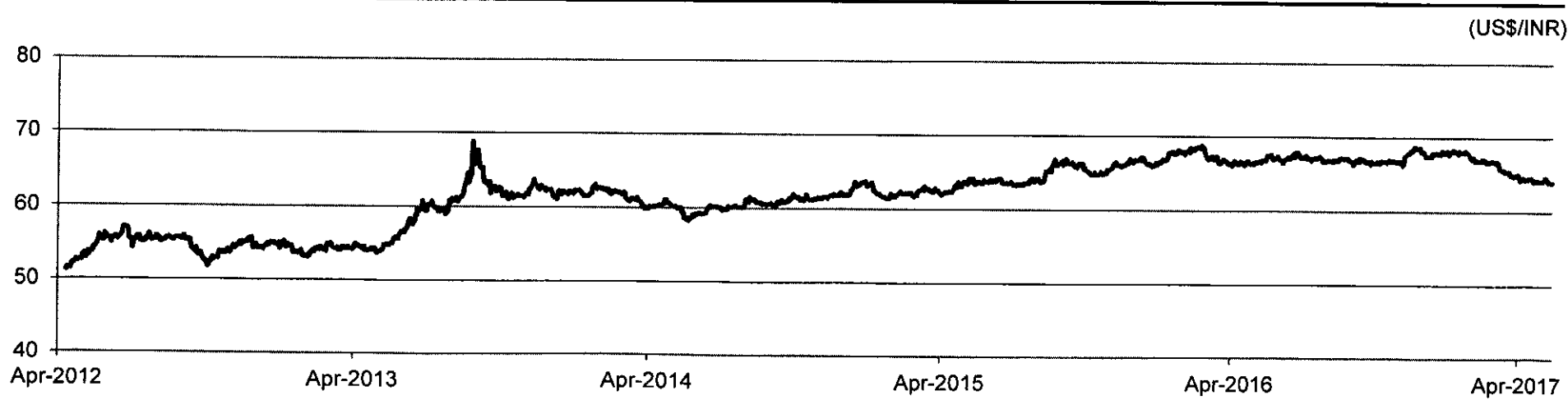
■ Reserves & Surplus Total
● BV per share (Rs) Figures above the bar indicate Net Worth

Source: Financial data for FY13, FY14, FY15 & FY16 -Annual Reports, Financial Data for FY17 -Stock Exchange filings

London Metal Exchange (LME) Copper Prices



USD INR Rates



Appendix

Experienced Management Team



Shri Santosh Sharma
Chairman & Managing
Director and
& I/C Director (Finance
& Operations)

- Holds a Bachelor's degree in Electrical Engineering, a LLB from Ravishankar University, Raipur and a MBA in Marketing from Sikkim Manipal University. He is also a member of Indian Institute of Metals and Indian Institute of Welding
- He joined the Company as General Manager (Operations) and thereafter, he became Executive Director (Operations) and also assumed charge as Unit Head of Gujarat Copper Project, a unit of the Company, in June, 2015. Subsequently he became Director (Operations) and finally CMD
- Prior to joining Hindustan Copper Limited, he was DGM (Projects) in Bhilai Steel Plant. There he was conferred with Jawahar Award for outstanding performance for preparation of plan for installation of Solar Power Units. He had also spearheaded the execution and monitoring of a mega project of construction of Blast Furnace-8 in Bhilai Steel Plant



Shri Anupam Anand
Director (Personnel)

- Holds a Masters' degree in Physics from Banaras Hindu University, a Masters' degree in Public Administration from Punjab University, a diploma in Social Work (DSW) from Calcutta University and has passed the Bihar Factory Welfare Officers' Examination conducted by Department of Labour, Government of Bihar
- Has extensive experience in all facets of Human Resources including Human Resource Management, Human Resource Development, Administration and Industrial Relations
- Prior to joining Hindustan Copper Limited, worked for around 24 years in Steel Authority of India (SAIL) & as GM(HR) in MTNL

Director (Finance)



**Shri Sanjay Kumar
Bhattacharya**
Director (Mining)

- Holds a Bachelor's degree in Mining from National Institute of Technology, Raipur and a MBA in International Business. He is a qualified Mining Person under Mines Act, 1952, possessing first class Mines Manager Certificate of Competency to manage Open Cast Metalliferous Mines
- He has 35 years of varied and diversified work experience in Copper mining (16 years at HCL), Iron Ore Mining (11 years at NMDC), Bauxite Mining (3 years at BALCO) and in construction activities for infrastructure developments like State Highways, Mining of Rock-Phosphate & Bauxite Minerals for State Govt. and State Mining PSUs through private participation (5 Years). Prior to joining the Board, Shri Bhattacharya was General Manager (Mines) at Malanjkhand Copper Project of the Company.

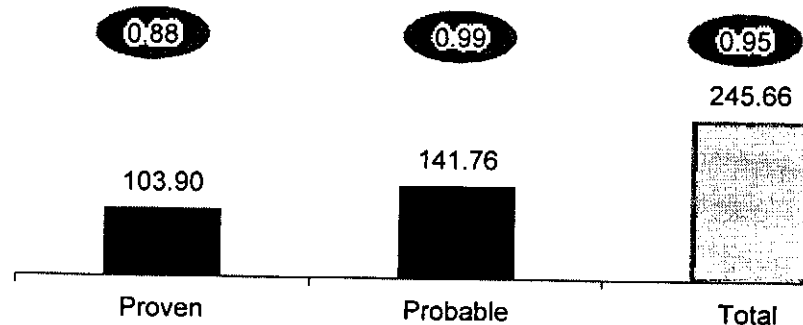
Project (MCP)

Dist. Balaghat, Madhya Pradesh



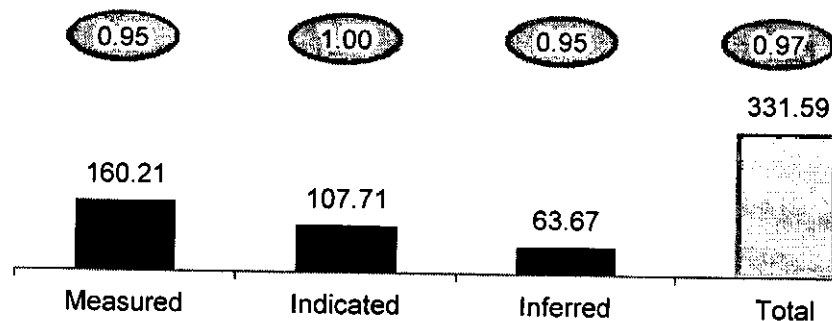
Reserves

(mn tonnes)



Resources

(mn tonnes)



 Average Grade

Expansion Plans

- From existing 2.0 mtpa to 5.2 mtpa

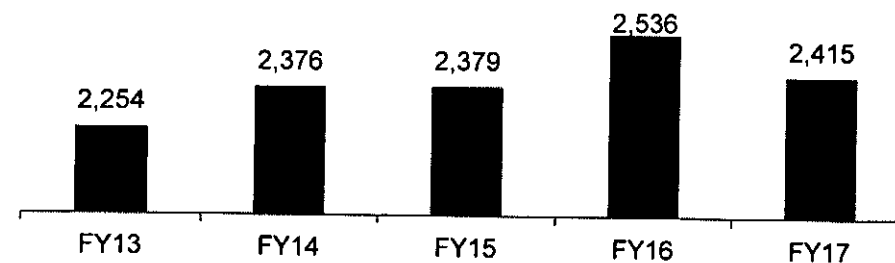
Mining Lease

Area (sq. km.)		Expiry
MCP	47990	31/03/2020 ¹

Note: ¹ Shall be extended as per Mineral (Mining by Government Company) Rules 2015

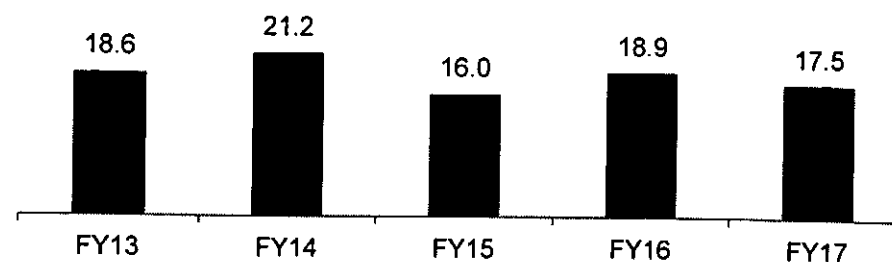
Copper Ore Production

('000 tonnes)



Metal - in- Concentrate Production

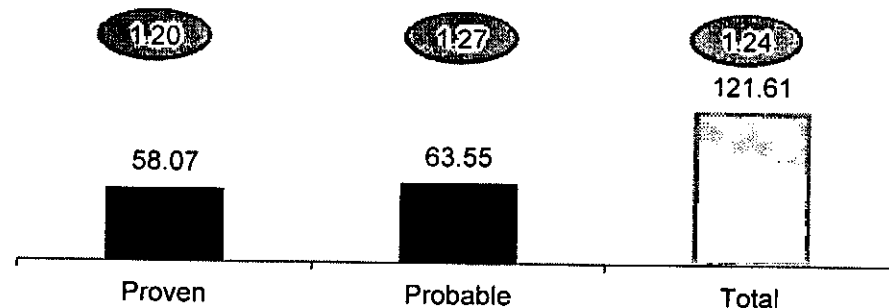
('000 tonnes)





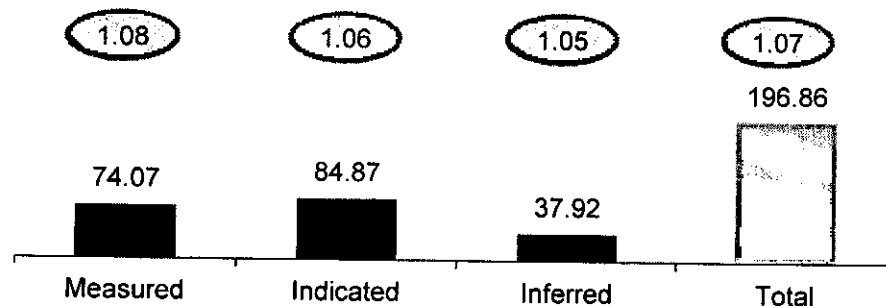
Reserves

(mn tonnes)



Resources

(mn tonnes)



 Average Grade

Expansion Plans

- Increasing Surda Mines capacity from 0.4 Mtpa to 0.9 Mtpa,
- Reopening of Closed Mines 1.71 Mtpa and establishing new Mines 1.5 Mtpa

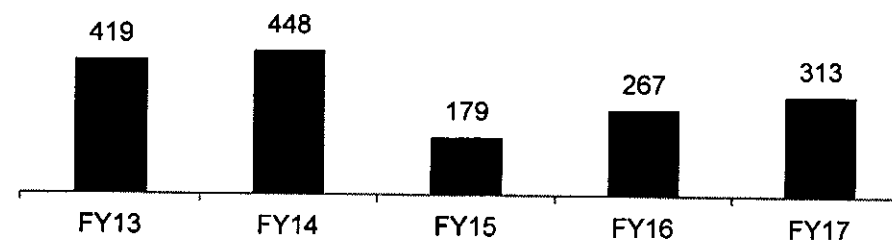
Mining Lease

	Area (sq. km.)	Expiry
ICC Group of Mines	23.13371	31/03/2020 ¹

Note: ¹ Shall be extended as per Mineral (Mining by Government Company) Rules 2015

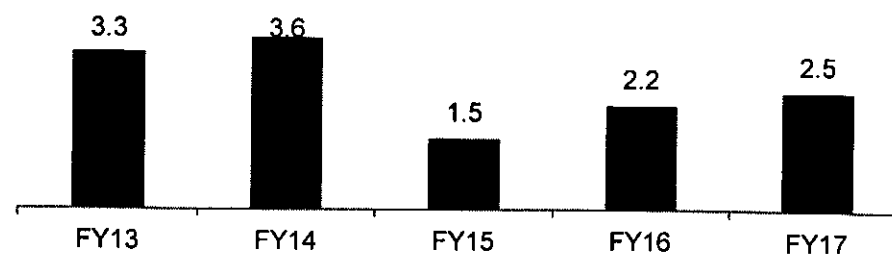
Copper Ore Production

('000 tonnes)



Metal - in- Concentrate Production

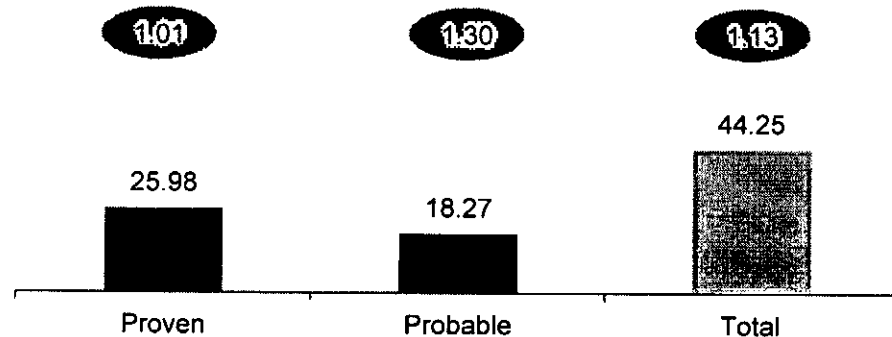
('000 tonnes)





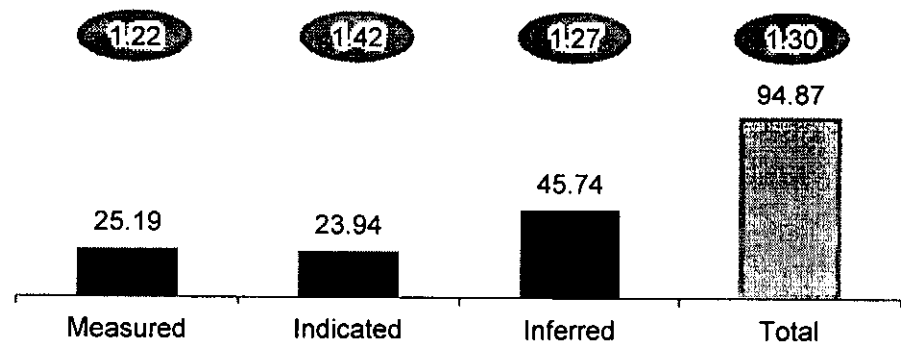
Reserves

(mn tonnes)



Resources

(mn tonnes)



Average Grade

Expansion Plans

- Increasing Khetri & Koliha Mines capacity from 1.0 Mtpa to 2.5 Mtpa and development of new mine Banwas 0.6 Mtpa

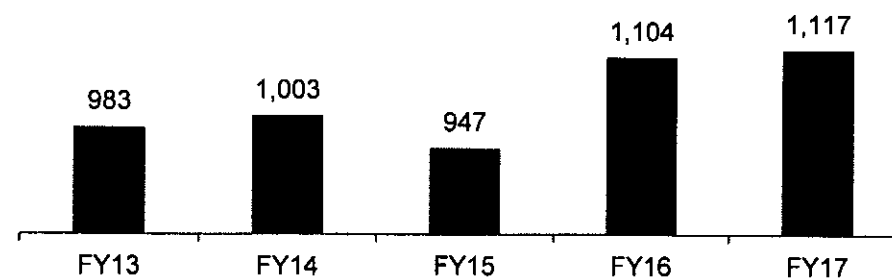
Mining Lease

	Area (sq. km.)	Expiry
KCC Group	7.0675	31/03/2020 ¹

Note: ¹ Shall be extended as per Mineral (Mining by Government Company) Rules 2015

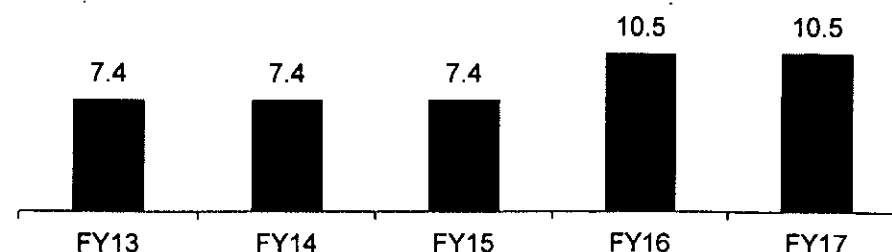
Copper Ore Production

('000 tonnes)



Metal - in- Concentrate Production

('000 tonnes)



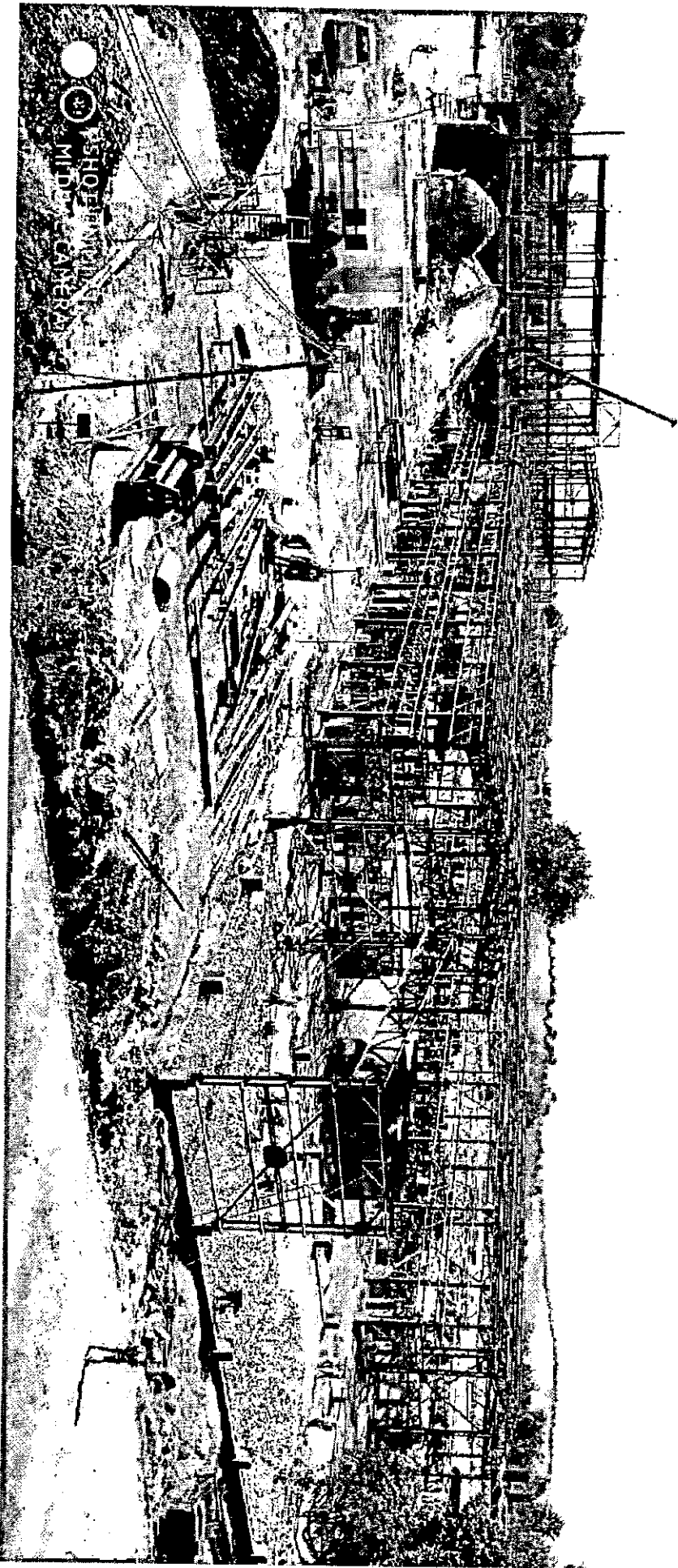
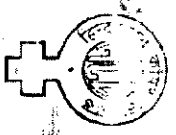


Inception	▪ December 1989
Facility	▪ Continuous Casting
Product	▪ Continuous Cast Copper Rods (CCR) ▪ Inputs (Cathodes) sourced from ICC and tolled cathodes from KCC
Capacity	▪ 60,000 tonne p.a. ▪ Diameters: 8mm, 11mm, 12.5mm, 16mm, 19.6 (+/- 0.50 mm)
Technology	▪ Sourced from Southwire Co., USA ▪ World's leading technology for producing premium quality CCRs ▪ Rods produced by this technology meet the most exacting standards conforming to ASTM B 49/98 &/or IS 12444/1988
Location	▪ Taloja is a 43 km drive from Mumbai airport and enjoys most of the facilities of a metro city ▪ Vashi is another important commercial hub close to Taloja ▪ The district headquarters Alibagh, is a popular tourist spot

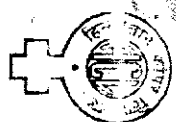
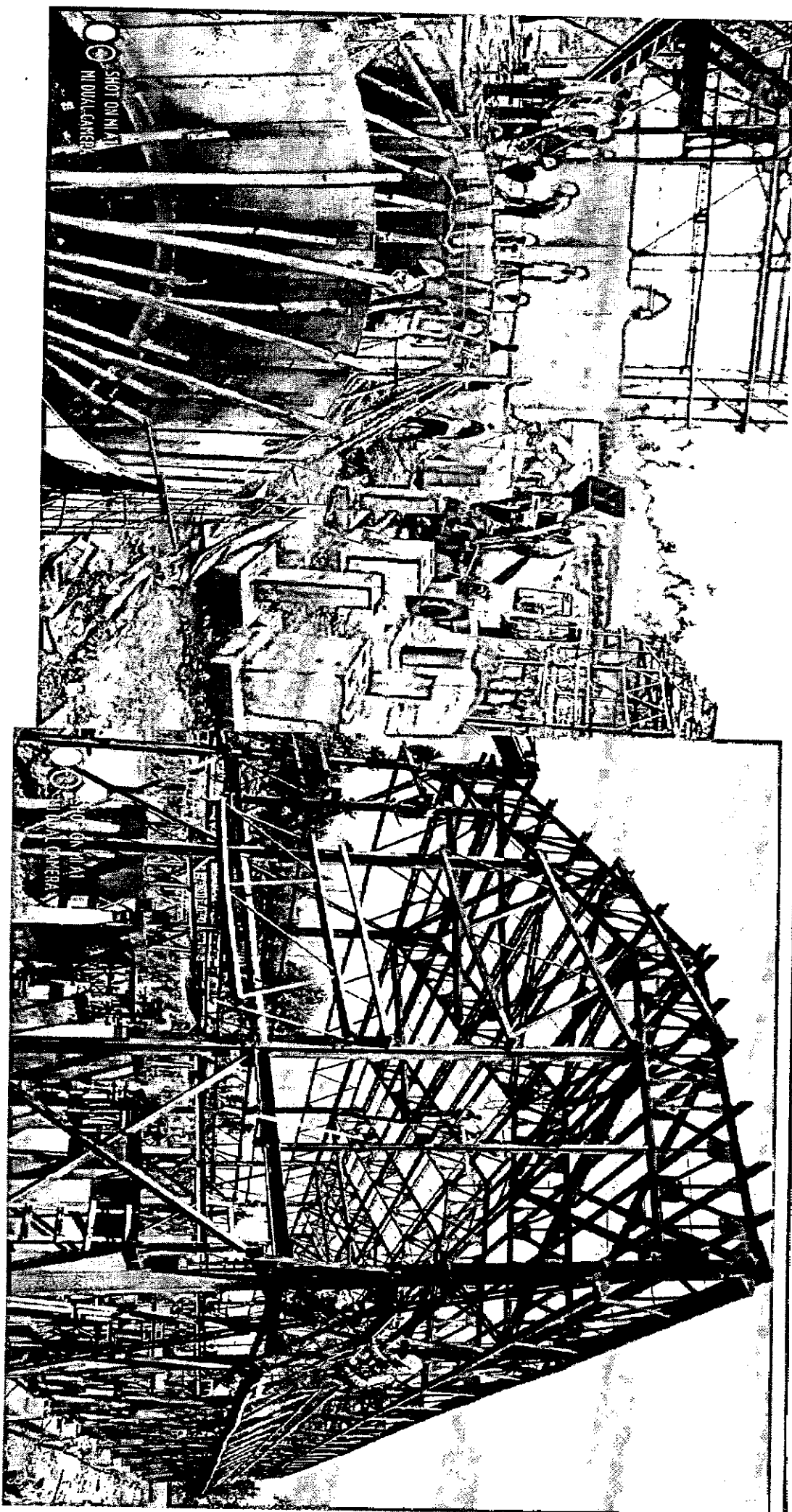


Acquisition	▪ HCL acquired the secured assets of Jhagadia Copper Limited (JCL) from ARCIL Sarfaesi Act in April 2015 and renamed it as Gujarat Copper Project (GCP)
Facility	▪ Copper smelting and Refining - Largest secondary recycler in India capable of producing LME "A" grade Copper Cathodes. ▪ Flexibility to process various grades of copper/precious metal bearing raw materials including E-scrap.
Product	▪ Copper Cathodes, conforming to LME-A grade. Copper Cathode produced is one of the best in the industry.
Capacity	▪ 50,000 tonnes p.a.
Technology	▪ Smelter: Top Blown Rotary Converter (TBRC) process using Kaldo furnace from M/s Boliden Contech AB, Sweden ▪ Refinery: ISA Process from M/s Xtrata, Australia
Status	▪ Phase I: Refurbishment of plant completed, commercial production started from October 2016. This included anode furnace, anode casting and refinery operations ▪ Phase II: Refurbishment of smelter commenced (expected to be completed by April 2018). This includes kaldo furnace, slag granulation, effluent treatment plant. After commencement of Phase II, plant will start operating as per design capacity and production

Sección de Procesamiento de Alimentos

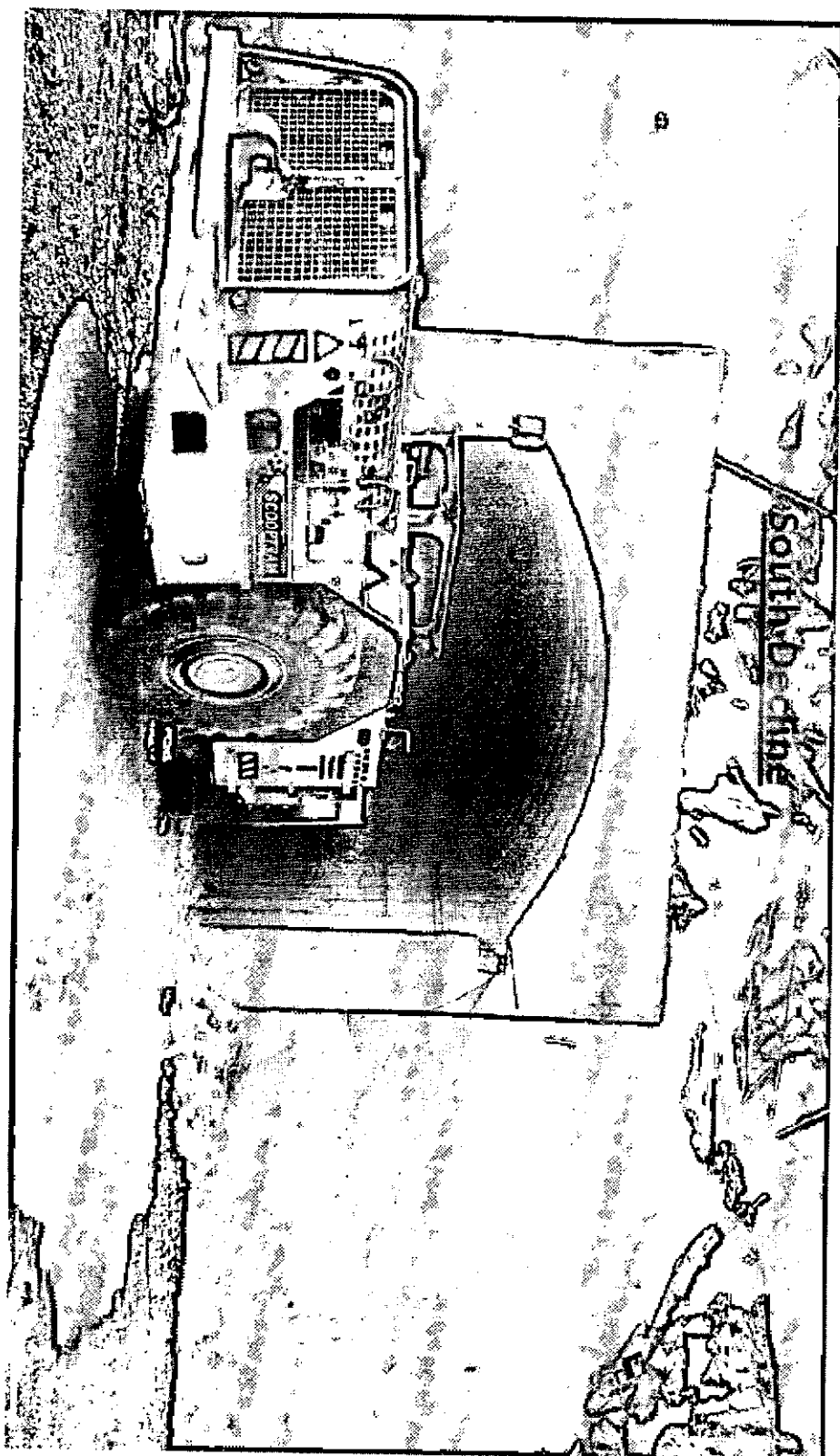


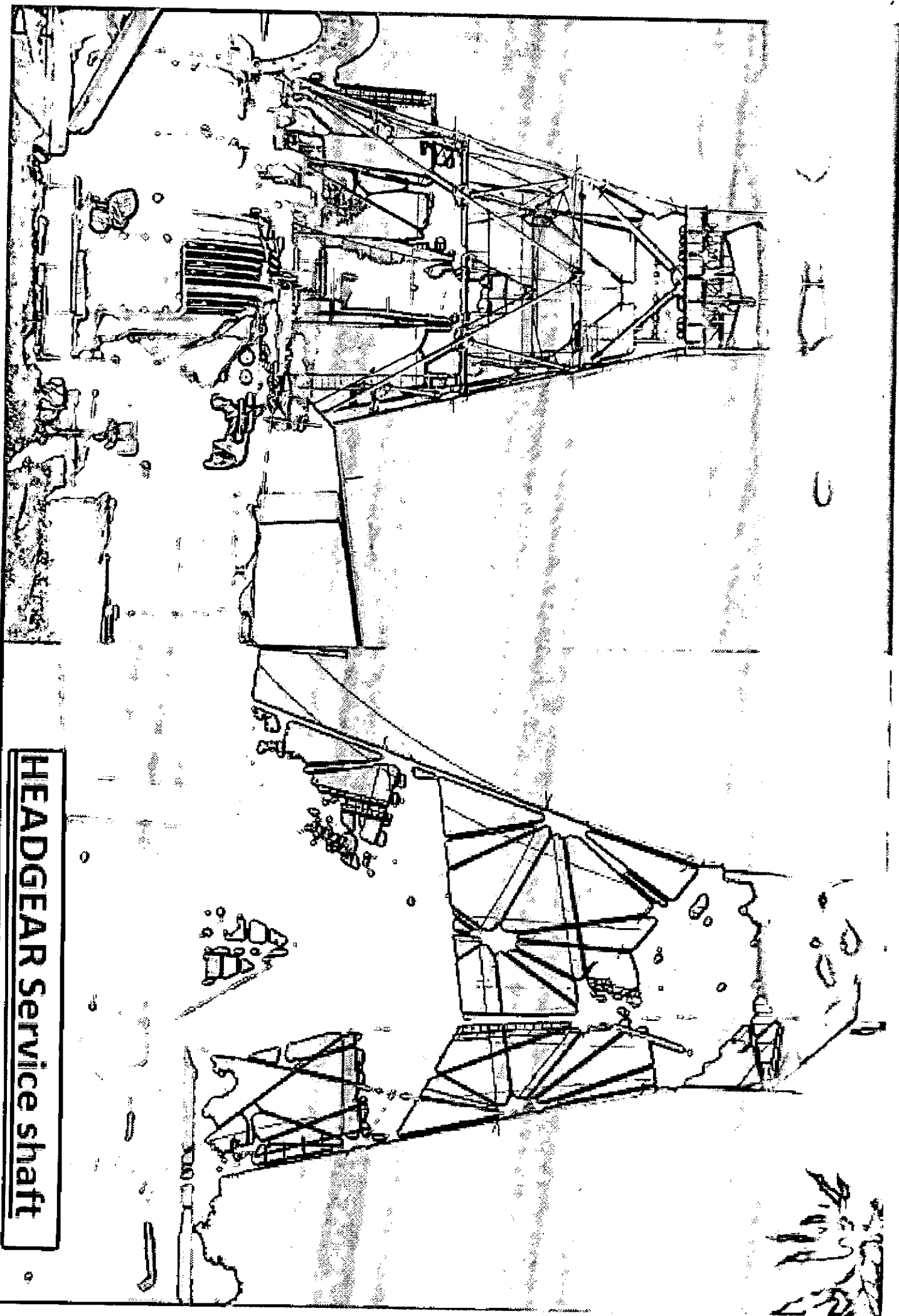

 SHOEINMIL
 MILD CANE





Project





HEADGEAR Service shaft