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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

### The Copper Miner to The Nation



### Long Standing Presence

- A 'Mini Ratna' Company
- Around 5 decades of experience in mining copper
- Government of India (GoI) shareholding of 76.05 %
- 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, Primary 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 2/5<sup>th</sup> of India's copper ore resource
- Reserves: 378.06 mn tonnes<sup>2</sup> (estimated balance as on 01.04.2019)
- Resources: 589.85 mn tonnes <sup>32</sup> (estimated balance as on 01.04.2019)

## Clear Roadmap for Expansion

- Plans to increase capacity from 3.4 Mtpa to 12.4 Mtpa in Phase I and from 12.4 Mtpa to 20.2 Mtpa<sup>4</sup> in Phase II. Phase I is under implementation.
- Through expansion of existing mines, re-opening of closed mines and opening of new mines

### Robust Financial Performance

- Market Capitalization Rs. 36915.5 Million <sup>5</sup>
- FY 19 Revenue Rs. 18162.6 Million <sup>6</sup> , FY 19 PAT Rs 1455.1 Million <sup>6</sup>
- Credit Rating: Short Term: ICRA A1+; Long Term; ICRA AA+

- 1. Platts 2016 global metal awards; https://gma.platts.com. Golden Peacock award for CSR in Jan 2017/ET Now presents CSR Leadership awards in 2019
- 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 + Inferred, 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 approval. All the clearances for Phase I expansion were already received and the company is in the process of getting clearances for Phase II expansion.
- 5. BSE as of Jun 30, 2019
- 5. Based on stock exchange filings for FY 18-19, ended Mar 31, 2019
- 7. ICRA credit rating report, May 2019





Khetri Con	per Complex (KCC) <sup>1</sup>	-346		Indian Coppe	r Complex (ICC)
State	Rajasthan			State	Jharkhand
Inception	1967			Inception	1924, Nationalized in 1972
Facility	Mining (underground), Beneficiati Smelting & Refining	on,		Facility	Mining, Beneficiation Smelting Refining
Product	Copper Concentrate & cathode			Day Lord	Copper concentrate, cathode
Capacity	Ore -1.4 mn tonnes p.a. Cathode - 31,000 tonnes p.a. ( ur	oder.		Product	slime, sulphuric acid & coppe suplphate
Capacity	s/down due to economic reasons			Capacity	Ore -0.6 mn tonnes p.a. Cathode - 18,500 tonnes p.a.
)	Bureline ( (COD)			A.M.	
	per Project (GCP)				
State	Gujarat				
Acquisition	2015	GCP		ICC	(F)
acility	Secondary smelting & Refining		0		V
Product	Copper cathode, anode slime	TCP	MCP		
Capacity	Cathode – 50,000 tonnes p.a.				
Taloja Cop	per Project (TCP)			Malanjkhar	nd Copper Project (MCP)
				State	Madhya Pradesh
State	Maharashtra			Julio	Mauriya Frauesii
State Inception				Inception	1982
	Maharashtra				1982
Inception	Maharashtra 1988			Inception	•

- Mines are operational, only Smelter and Refinery and Sulphuric Acid Plants are not in operation since Dec 2008, on account of economic consideration 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**

1967

Hindustan Copper was setup in 1967 with 100 % Gol ownership and assets at Khetri, Rajasthan transferred to Hindustan Copper from NMDC Limited 1972

Government of India nationalized Indian Copper Corporation Limited, Ghatsila, Jharkhand and merged with Hindustan Copper 1982

India's largest mechanized hard rock open pit copper mine was developed at Malanjkhand (MP) 1988

Wire rod copper plant at Taloja was commissioned 2008

Government of India granted Hindustan Copper status of "Miniratna category –I" 2015

Acquired the secured assets of Jhagadia Copper Limited, now renamed Gujarat Copper Project Named the

2017

industry leader (base metals) at the 2016 PLATTS Global Metals Awards <sup>1</sup> **2018** 

Firmed up major expansion projects to enhance mine capacity from 3.4 to 20.2 million tonne in phases. Phase-I is under implementation

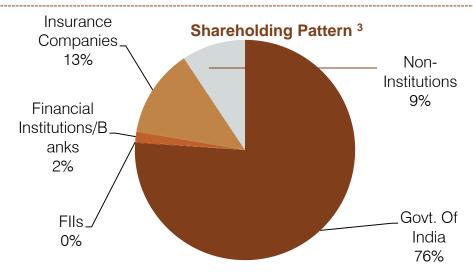
Source: Company website and annual reports

### Listed on BSE and NSE

Number of Shares: 925.2 mn

Share Price (52Wk High/Low): Rs. 68.05<sup>2</sup> (10/08/2018 / Rs. 33.30<sup>2</sup> (25/07/2019)

Market Cap: Rs. 36915.5 Million (30/06/2019)



- 1. Platts 2016 global metal awards; https://gma.platts.com. Golden Peacock award for CSR in Jan 2017, CSR Leadership awards in 2019
- 2. BSE as of July 25, 2019
- 3. Shareholding position as on Mar 31, 2019

### Key Highlights



- 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



### Global Copper Production and Usage Highlights



### **World Refined Copper Usage**



- Copper usage increased by ~3% in CY2018 compared to CY2017
- Mainly due to higher Chinese demand (demand increased by 2.5%)
- Excluding China,

#### Region wise change in usage

Europe	+ 2%	Americas	- 3%
Asia	+ 65%		

### **World Refined Copper Production (Primary + Secondary)**

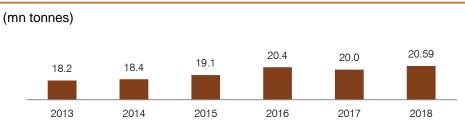


 Refined copper production Increased by ~2.5% in CY 2018 compared to CY2017

### Region wise change in production

Europe	- 2%	Africa	- 10%
Asia	+ 6%	Americas	+ 1%

### World Copper Mine Production (in metal terms)



World mine production increased by 2.5% in 2018 principally due to constrained output in 2017 and to an unusually low rate of overall supply disruptions in 2018. Besides the restart of the Katanga mine in the DRC no major new copper mine capacity was brought on stream in 2018

#### 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

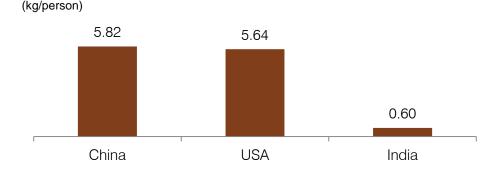
Europe	~ 0%	Africa	- 4%
Asia	+ 12%	Americas	+ 6%



### Significant Growth Potential in Copper Consumption in India

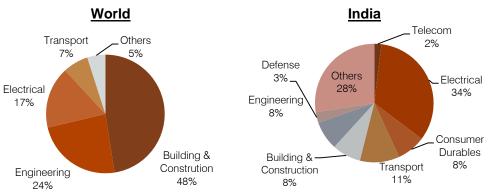


## India's Per Capita Copper Consumption currently low – Expected to increase to 1.5 kg by 2025



Source: Ministry of Mines, Annual Report 2015-16

#### **Refined Copper Consumption**

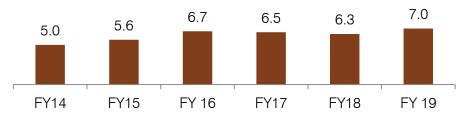


India's copper consumption is concentrated in Electrical industry in contrast with the rest of the world which is concentrated in Building and Construction

### **Domestic Copper Consumption to Increase**

#### **Refined Copper Consumption**

(Lakh tonnes)



Copper consumption grown at a CAGR of 5.8% from FY13 to FY18. Copper demand in electrical segment is growing due to demand in infra sector as a result of affordable housing schemes, rural electrification and more urbanization.

Source: Impact on FTAs on the Indian Copper Industry by IIFT

# Government initiatives will further Increase Growth of the Copper Consuming Industries

- Total projected outlay for infrastructure in FY18: Rs. 2,413 bn <sup>1</sup>
- Target of achieving 160GW of solar and wind by 2022 <sup>2</sup>
- "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<sup>2</sup>
  - 100 Smart Cities and 500 AMRUT Cities likely to invite investments of Rs. 2 tn in the next five years <sup>3</sup>

#### Source:

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

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



# Significant Gap in Domestic Copper Ore Mining Capacity and Consumption by Custom Smelters in India



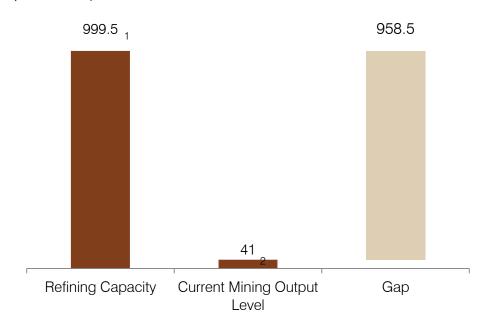
- Significant mismatch between India's processing requirement and copper mining capacity
- Approximately 100 mn tonnes of copper ore (assuming a copper content of 1%) is required to produce 1 mn tonne of refined copper
- The copper ore production in India for 2018-19 was 4.12 mn tonnes, meeting only ~4% of the country's demand <sup>1</sup>. 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
- Mine expansion under way, significant capacity expansion to be achieved from 3.4 Mtpa to 12.4 Mtpa in Phase I and from 12.4 Mtpa to 20.2 Mtpa in Phase II.
- 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's Annual report

# India's Refined Copper Capacity vs. Copper Mining Capacity (as of FY19)

('000 tonnes)



#### **Notes**

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

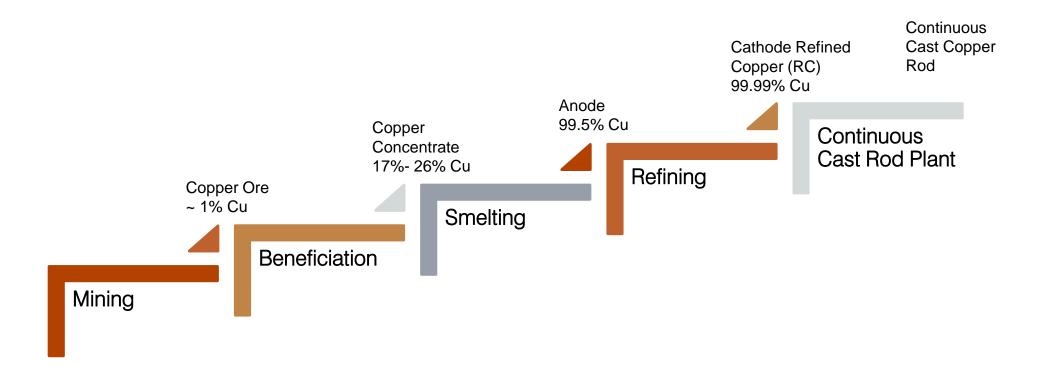
Source: Company websites

2. Please refer Slide 18 for details



### Vertically Integrated Operations







### Refining and Smelting Facilities

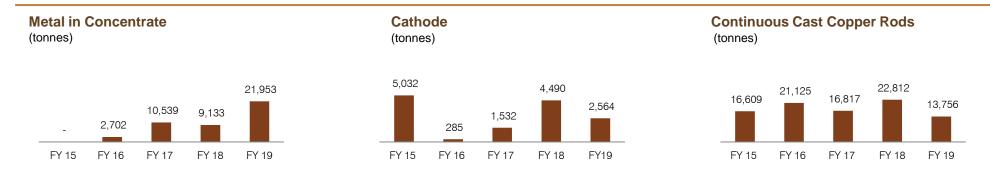


#### **Facilities Overview**

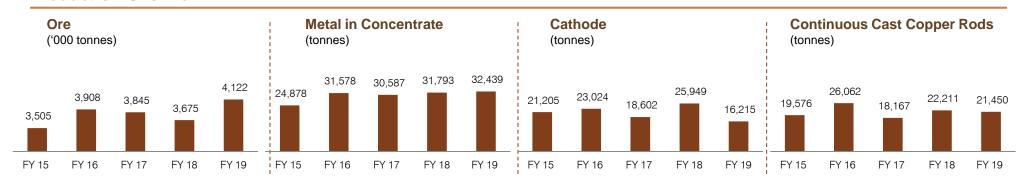
Facility	Location	Principal Activities	Products	Operating Capacity ('000 tonnes)
ICC Smelter	ICC	Copper smelting	Copper anodes	20.0
ICC Refinery	ICC	Copper refinery producing LME grade Copper Cathode from Anode	Copper cathodes	19.0
TCP Extrusion Plant	TCP	Production of continuous cast rods from copper cathode	Continuous cast rods	60.0
KCC Smelter & Refinery 1	KCC	Copper smelting & Refining	Copper cathodes	31.0
GCP Smelter & Refinery	GCP	Copper smelting & Refining	Copper cathodes	50.0

<sup>1.</sup> Not in operation since Dec 2008, on account of economic consideration

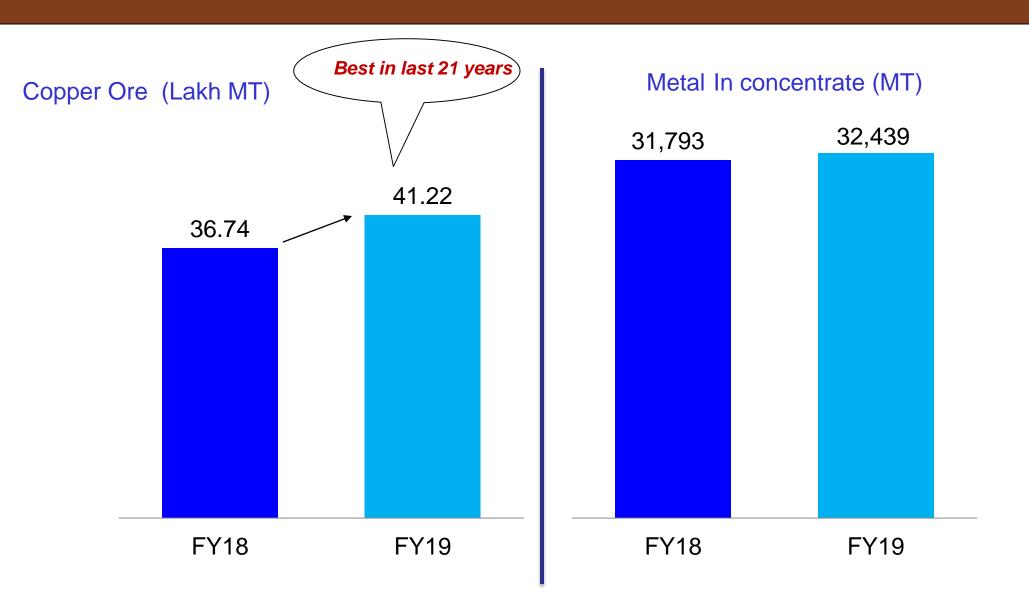
#### **Sales Overview**



#### **Production Overview**



### Financial Year 2019







Copper ConcentrateGrade 17-26%



ApplicationsSmelting 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)



ApplicationsWinding wires, strips

### By Products

- Anode Slime containing precious metals
- Sulphuric Acid
- Copper Sulphate



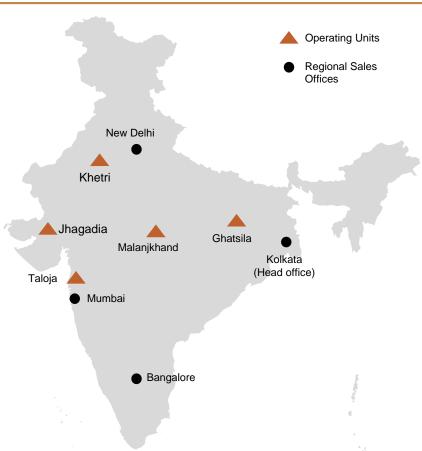
Applications
 Anode Slime – production of gold and silver



### Only Operating Copper Ore Producer in India



# **Experience and expertise in developing and operating Copper Mines**



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

#### Note:

 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, 2019 as per JORC <sup>3</sup>

Mines	Reserves <sup>1</sup> (mn Tonnes)	Average Grade (% Cu)	Resources <sup>2</sup> (mn Tonnes)	Average Grade (% Cu)
MCP				
Malanjkhand	224.51	0.93	310.42	0.95
ICC				
Surda phase I	3.81	1.03	22.49	1.22
Surda phase II	8.17	1.25	16.32	0.99
Rakha phase I	3.36	1.14	6.42	1.15
Rakha phase II	30.63	1.18	41.10	0.93
Kendadih	9.27	1.4	17.83	1.25
Sideshwar	7.68	2.19	13.73	1.45
Chapri	41.6	1.15	49.84	1.05
Tamapahar	14.42	1.08	26.46	0.87
Total ICC	118.94	1.24	194.19	1.06
KCC				
Khetri	6.92	0.91	28.88	1.13
Kolihan	8.74	1.05	14.73	1.36
Banwas	18.95	1.33	23.75	1.70
Chandmari				
intermediate	0	0	12.11	1.02
Chandmari	0	0	6.07	1.03
Total KCC	34.61	1.17	85.24	1.31
Total	378.06	1.05	589.85	1.04

Operating Mines

#### Note:

- 1. Proved + Probable
- 2. Measured + Indicated + Inferred
- 3. Joint Ore Reserves Committee of the Australasian Institute of Mining and Metallurgy, Australian Institute of Geoscientists and the Minerals Council of Australia.

Source: Base JORC Equivalent Mineral Resource And Ore Reserve Statement prepared by IMC SRG Consulting (Pvt.) Limited. dated September 11, 2010 – Balance estimated as on 01.04.2019

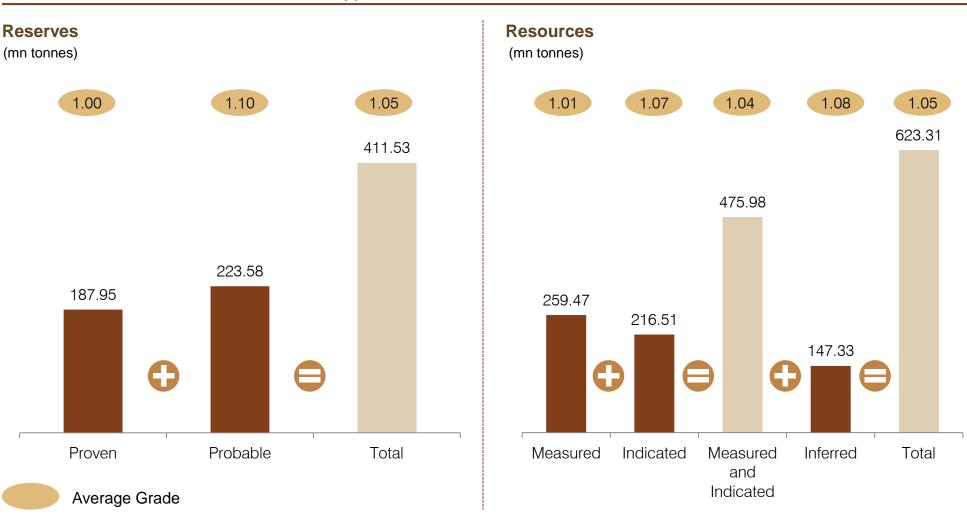
# 4

### Access to Substantial Copper Ore Reserves in India



(as on 11/09/2010)

### HCL has access to over 2/5<sup>th</sup> of India's copper ore reserves

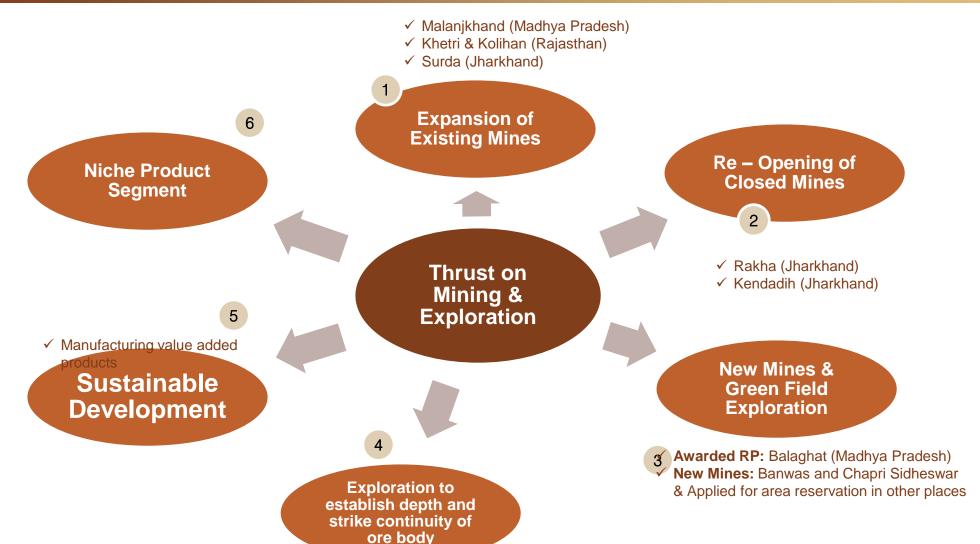


Source: JORC Equivalent Mineral Resource and Ore Resource Statement prepared by IMC-SRG Consulting (Pvt.) Limited. Dated September 11, 2010



### **Expansion Strategy: Thrust Areas**







### Estimated Production Capacity and Project wise capex



	(MTPA)	Existing Capacity (MT)	Phase I Expansion	Phase 1 estimated capex (Rs. Mn.)	Scheduled Completion	Phase II Expansion	Total Capex (Phase-I + II) (Rs. Mn,)	Scheduled Completion
Expansion of	Malanjkhand	2.2	5.2	18,560	2020	8.0	29,000	2024
Existing Mines	Khetri and Kolihan	1.0	2.5	4,430	2021	4.4	9,100	2024
	Surda	0.4	0.9	2,190	2020	1.0	3,500	2020
	Total	3.6	8.6	25,180		13.4	41,600	
	Kendadih	-	0.2	940	2019	0.2	950	2019
Reopening of Closed Mines	Rakha	-	1.5	3,150	2020	2.5	5,500	2022
	Total	-	1.7	4,090		2.7	6,450	
	Banwas	-	0.6	900	Completed	0.6	900	
Establishing New	Chapri- Sidheshwar	-	1.5	4170	2020	2.5	5,500	2023
Mines	Dhobani- Pathargora Block	-	-	-	-	1.0	550	2023
	Total	-	2.1	5,070		4.1	6,950	
	Grand Total	3.6	12.4	34,340		20.2	55,000	

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



# Current Status of Mine Development for enhancement of capacity



Approval of Board

Invite RFQ

Issuance of RFQ

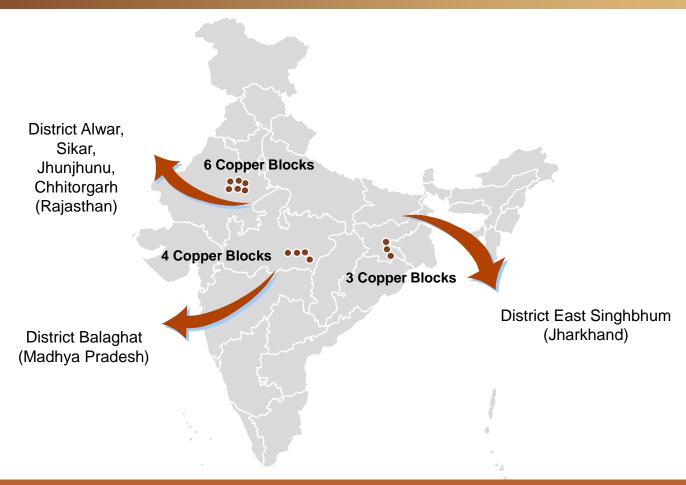
Finalization of Contract / Lol issued Mine Construction and Development

Mine	Investment Approval	Invite RFQ	Issuance of RFP	Finalization of Contract / Lol Issued	Mine Development	Likely Scheduled Completion
МСР	Investment approvals in place	Completed	Completed	Completed	Started in 2015 – Work in Progress	2022
Khetri	Investment approvals in place	Under Tendering Sta	ge			
Surda	Investment approvals in place	Completed	Completed	Completed	Work-in-Progress	2021
Kendadih	Investment approvals in place	Completed	Completed	Completed	Completed	Mine development restarted in Nov' 2017
Rakha	Investment approvals in place	Under Tendering Sta	Under Tendering Stage			
Banwas	Investment approvals in place	Completed	Completed	Completed	Completed in Februa Contractor appointed commenced from Feb	and production has
Chapri- Sideshwar	Investment approvals in place	Under Tendering Sta	ge			



### **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

- 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



# Setting up New Projects

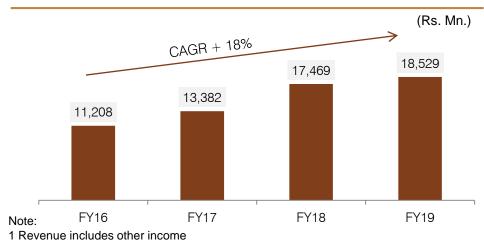


Project	Estimated Project Cost (INR mn)	Status
JV with CMDC for exploration & exploitation of copper in Chhattisgarh State.	100	<ul> <li>JV Company Incorporated in May 2018.</li> <li>Exploration identified and area reservation applied</li> </ul>

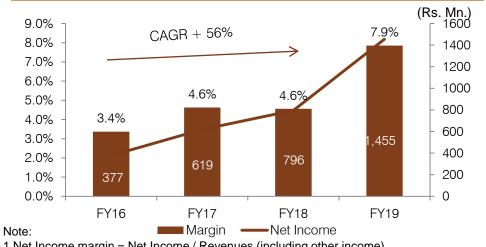




#### Revenue



### **Net Income (PAT)**

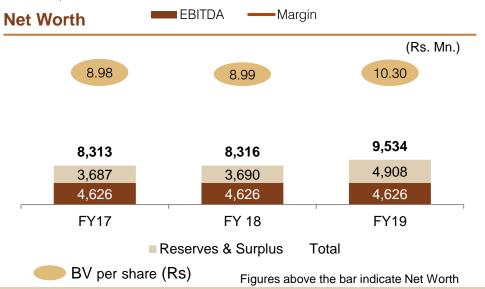


#### 1 Net Income margin = Net Income / Revenues (including other income)

#### **EBITDA**



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

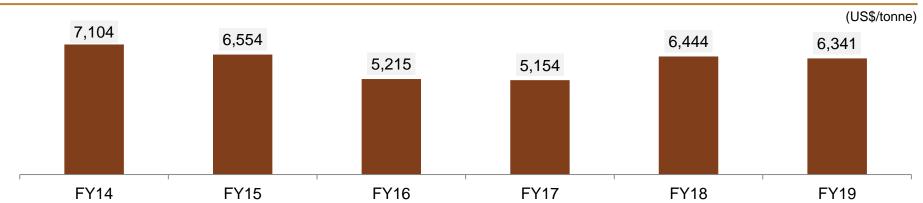




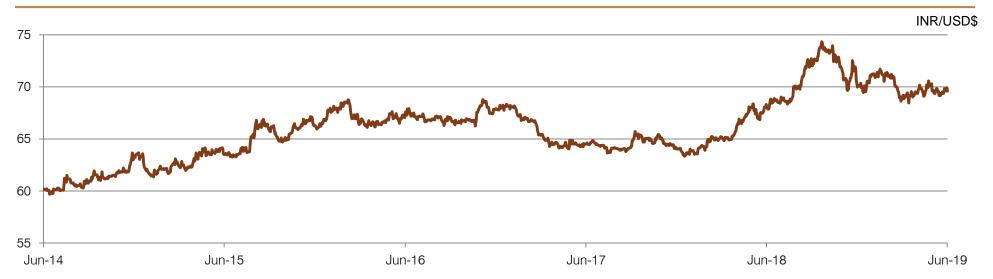
# Key Parameters Affecting HCL



### **London Metal Exchange (LME) Copper Prices**



#### **INR/USD Rates**



Source: Bloomberg

Appendix

### Experienced Management Team w.e.f. Jan 2020





### Shri Arun Kumar Shukla Chairman-cum-Managing Director

- Holds Bachelor's degree in Mining and M.Tech. in Environmental Engineering from IIT (ISM), Dhanbad. He also holds Degree in Law (LL.B). He possesses First Class Mines Managers' Certificate under the Mines Act, 1952.
- He started his carrier in Coal India Ltd and worked there for more than 21 Years. He Joined NMDC in October 2006. Mr. Shukla also served as Managing Director of Jharkhand State Mineral Development Corporation Limited for 2 Years.
- Prior to Joining Hindustan Copper Ltd. (HCL) as Director (Operations) in October 2018, he was working as Executive Director in NMDC and was heading one of its major unit namely Bailadila Iron Ore Mines, Bacheli Complex in Bastar, District of Chhattisgarh.
- He has taken charge as CMD of HCL from Jan 2020
- Received the prestigious FIMI Golden Jubilee Awards for Excellence (2016-17) & TATA Steel Mining Sustainability Award (2017-18).



Shri Sukhen Kumar Bandyopadhyay Director (Finance )

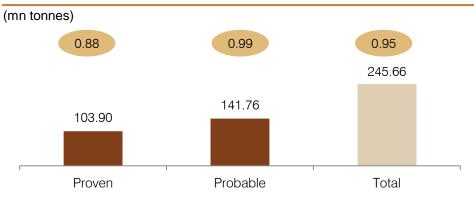
- Holds a degree of Institute of Cost & Works Accountants of India Before joining as Director (Finance) of the Company, Shri Bandyopadhyay was CGM (Finance & Accounts) in SJVN Ltd, Schedule A CPSU.
- During his professional career spanning 29 years in executive position, he had served in many key administrative positions in the
  different fields of Finance & Accounts for the execution of Hydro/Thermal/ Gas/Solar/ Wind Projects in NEEPCO & SJVN Ltd
  (CPSUs) and in PPCL & IPGCL (Delhi Govt. PSU), on deputation.
- He has expertise in raising of long term loans, due diligence of project appraisal and evaluations, long term investment plan for project execution with budgeting, Treasury Management, Policy formulation, Accounts & Audit.

### Malanjkhand Copper Project (MCP)

Dist: Balaghat, Madhya Pradesh

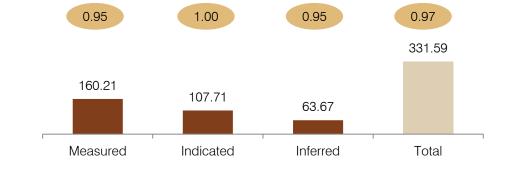


#### Reserves



#### Resources

(mn tonnes)



### **Expansion Plans**

Average Grade

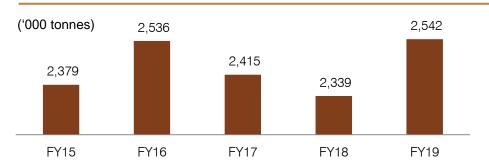
• From existing 2.2 mtpa to 5.2 in Phase-I and upto 8.0 mtpa in Phase-II

### Mining Lease

	Area (sq. km.)	Expiry
MCP	4.7990	31/03/2023 <sup>1</sup>

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

### **Copper Ore Production**



#### **Metal - in- Concentrate Production**

('000 tonnes)

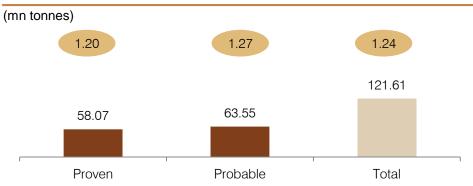


### Indian Copper Complex (ICC)

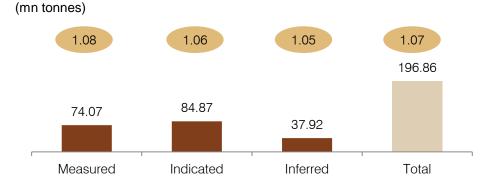
Dist: Singhbhum, Jharkhand



#### Reserves



#### Resources





Average Grade

### **Expansion Plans**

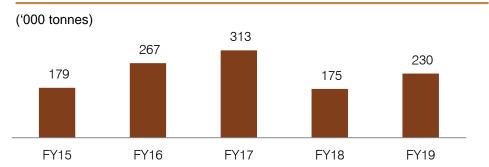
- Increasing Surda Mines capacity from 0.4 Mtpa to 0.9 Mtpa (Ph-I) and upto1.0 Mtpa (Ph-II)
- Reopening of Closed Mines 1.71 Mtpa and establishing new Mines 1.5 Mtpa

### **Mining Lease**

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

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

### **Copper Ore Production**



#### **Metal - in- Concentrate Production**

('000 tonnes)

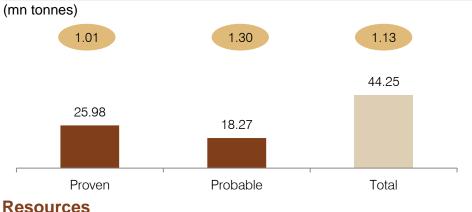


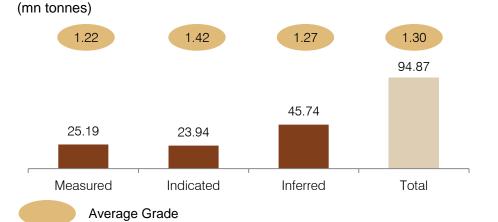
### Khetri Copper Complex (KCC)

Dist: Jhunjunu, Rajasthan



#### Reserves





### **Expansion Plans**

Increasing Khetri & Kolihan Mines capacity from 1.0 Mtpa to 3.1 (Phase-I) and upto 5.0 Mtpa (Ph-II) incl. velopment of new mine Banwas 0.6 Mtpa

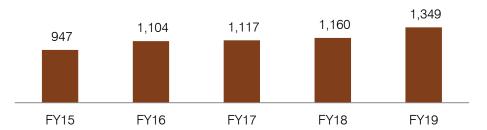
### **Mining Lease**

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

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

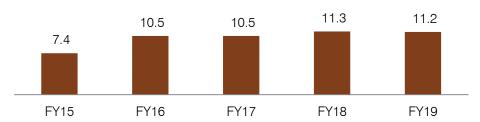
### **Copper Ore Production**

('000 tonnes)



### **Metal - in- Concentrate Production**

('000 tonnes)



# Taloja Copper Project (TCP)

Dist: Raigad, Maharashtra



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

# Gujarat Copper Project (GCP)

Dist: Bharuch, Gujarat



Acquisition	<ul> <li>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)</li> </ul>
Facility	<ul> <li>Copper smelting and Refining - Largest secondary recycler in India capable of producing LME "A" grade Copper Cathodes.</li> <li>Flexibility to process various grades of copper/precious metal bearing raw materials including E-scrap.</li> </ul>
Product	<ul> <li>Copper Cathodes, conforming to LME-A grade. Copper Cathode produced is one of the best in the industry.</li> </ul>
Capacity	■ 50,000 tonnes p.a.
Technology	<ul> <li>Smelter: Top Blown Rotary Converter (TBRC) process using Kaldo furnace from M/s Boliden Contech AB, Sweden</li> <li>Refinery: ISA Process from M/s Xtrata, Australia</li> </ul>
Status	<ul> <li>Phase I: Refurbishment of plant completed, commercial production started from October 2016. This included anode furnace, anode casting and refinery operations</li> <li>Phase II: Refurbishment of smelter has been completed in March 2019. This includes kaldo furnace, slag granulation, effluent treatment plant. The trial run of the plant has started and the plant is expected to start operating as per design capacity and production</li> </ul>

# Malanjkhand Underground Project



