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Global Metal
Power House
with Market
cap of USD 8
billion

ABOUT HINDALCO

Leading Global Industry Player

Hindalco Industries Ltd



Integrated Aluminium Copper: Major player in India

Aluminium

- Alumina: 2.9 MT
- Primary Metal (Al): 1.3 MT
- VAP including Wire Rod: 481 KT

Copper: Major player in India

- Copper Cathode: 376 KT
- DAP: 301 KT

Aluminium Downstream

ADITYA BIRLA

#1 Rolled Products Supplier Worldwide

- Global Presence
- Global leader in Aluminium recycling
- Shipments: 3.1 MT
- Focused on premium segments

Business Highlights

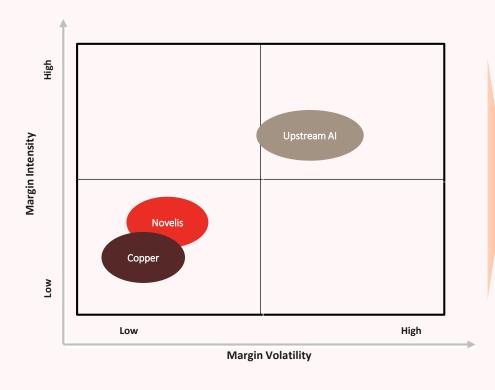
- √ Novelis Largest aluminium FRP producer globally
- ✓ Aditya and Mahan 1st quartile cost producer of Aluminium
- ✓ Utkal amongst the lowest cost producers of Alumina in the world
- ✓ One of the largest custom copper smelter at single location in Asia
- ✓ Global operations across 11 countries
- ✓ Revenue of USD 15 billion
- ✓ EBITDA of USD 2 billion
- √ ~35,000 employees across the world



Well
diversified
product mix
and business
operations
with steady
cash flow

DE-RISKED BUSINESS MODEL

High Margin- High Volatility Aluminium Business supported with two steady cash flow Converter Businesses



- ✓ Upstream Aluminium → co-related to the metals cycle
- ✓ Novelis → Steady operational results; likely to benefit from growth in the automotive sector
- ✓ Copper → TCRC-linked earnings
- Diversified operations to provide a stable margin profile

In FY17, Novelis and Copper (two converter businesses) contributed more than 60% in overall consolidated EBITDA



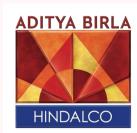
High Natural
Resources
Security:
Bauxite and
Coal in close
proximity, has
integrated
operation

Integrated

Players

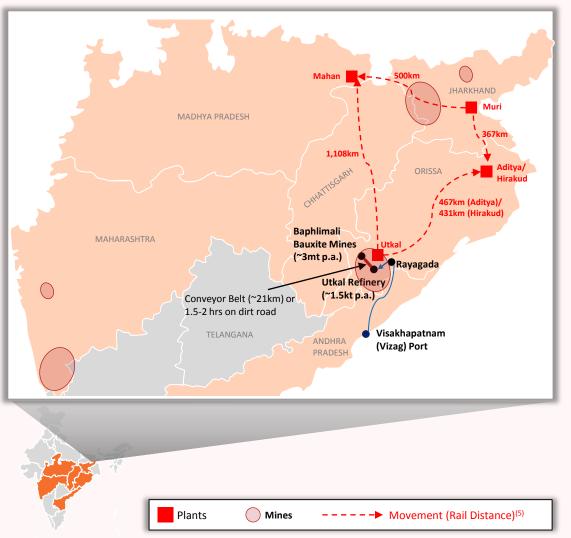
PRESENCE ACROSS THE ALUMINIUM VALUE CHAIN

Typically accounts for 60-70% of Metal Input Costs **Aluminium and** Novelis Hindalco **Raw Materials Rolled Products/ VAPs Downstream** Power Bauxite Renukoot Renukoot **Rolled Products Downstream FRP** Muri Hirakud **Extrusions** Wide presence across **E** four continents Mahan Foil Belgaum Diversified business portfolio, with focus on Aditya premium segments Utkal Coal Wire Rod Captive+Linkage CONSTELLIUM ARCONIC **ALCOA** RUSAL **NORSK HYDRO HONGQIAO**



Access to high quality bauxite with integrated operations with proximity to Vizag port in case of foreign trade

SECURE SUPPLIES OF ALUMINA



The Alumina Advantage

- Access to total of 28 bauxite mines located in close proximity to the refineries
- ✓ Total proved and probable reserves of ~246 MT.
- Primarily supplies alumina to Mahan and Aditya smelters through dedicated BTAP wagons
- ✓ Utkal has access to good quality bauxite (high in alumina content and low in silica) in Baphimali mine with ~189 MT of proved and probable reserves
 - Expected to have mine life of approximately 42 years
- Utkal refinery located in close proximity of the bauxite mine
- Bauxite transported from mine site to Utkal refinery through a long distance conveyer belt







Hindalco has successfully ensured long-term availability of coal through linkages and captive mines

SECURED COAL SUPPLIES FOR CAPTIVE POWER

Coal Procurement Options

Key Considerations

% of Total Requirement

 Long term coal linkage contract with Coal India; typically for 5 years

New Linkage: Oct - Nov'2016 & Q1 FY18 Over 35% secured for each smelter

Existing Linkage: 2013/2014

В

Bidding / Tendering of captive mines

Linkage coal

- Hindalco has acquired 4 coal blocks in 2015
 - Kathautia
 - o Gare Palma IV/5
 - Gare Palma IV/4
 - o Dumri

Over 35% tied-up for each smelter

C

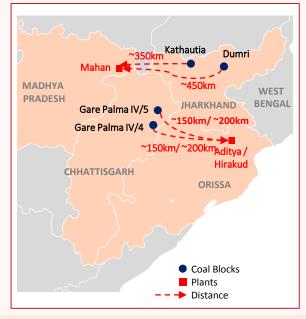
Purchase from the market

E-auction

- Spot purchase via e-auction routeImported coal
- Import of the coal from Indonesian / Australian mines through ports located on east cost

Balance requirement

Coal Blocks Won by Hindalco in 2015



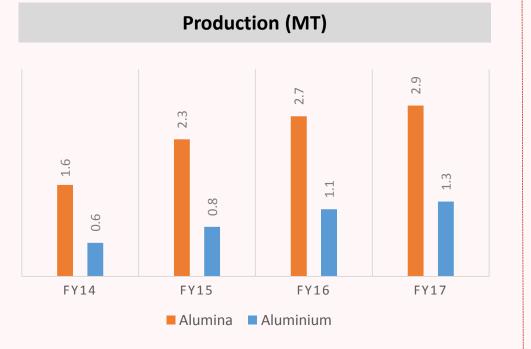
- Coal blocks located in close proximity to the smelters
- Currently, evacuated by road transport; multimodal evacuation using combination of rail/ road planned
- 3 of the 4 blocks are operational (Gare Palma IV/4
 & Gare Palma IV/5 and Kathautia)



Three project in India operating at their rated capacity and at **Novelis Share** of **Automotive** shipments at 18% up from 15% last year

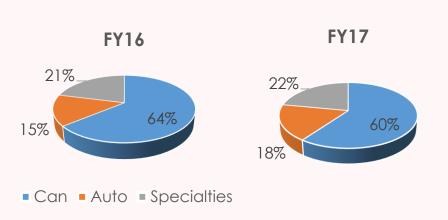
STABLE OPERATIONS ACROSS HINDALCO







Increase share of Auto Shipment

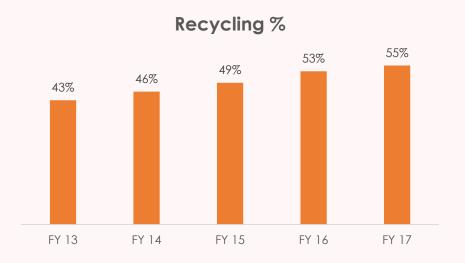




Maintaining momentum and leveraging technology edge

NOVELIS: SUPERIOR ROLLING AND RECYCLING TECHNOLOGY

Growing Our Recycled Content



- Manufacturing expertise in Recycling technology
- Continue to focus on advanced Recycling capabilities

Beverage Cans



- Novelis is committed to Can sheet customers and market – Total Can shipment in FY 17 at 1.8 MnT
- Demand of 5.4 million tonne global aluminum can sheet market remains unchanged, expected to grow low single digits through 2021



Continued optimization of capex and stable operations will result in reduction of debt and **further** strengthening balance sheet

CONTINUED FOCUS ON DE-LEVERAGING

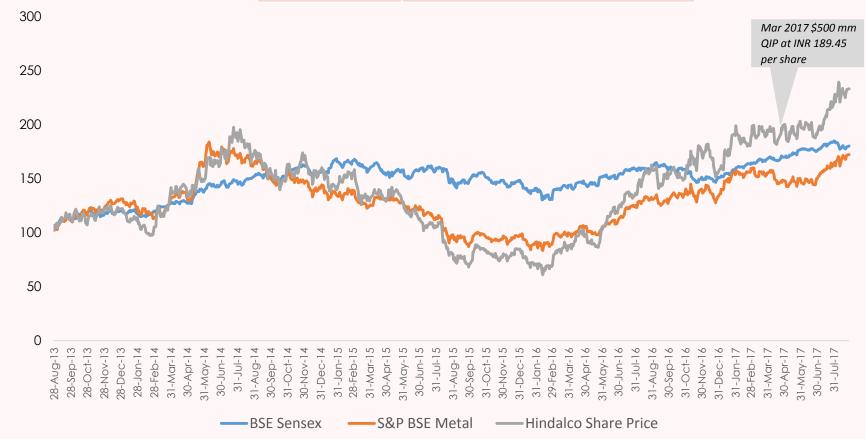
- ✓ Raised USD 500 mn through Qualified Institutional Placement (QIP)
 - Largest non bank QIP in last 2 years
 - Generated demand in excess of USD 1.5 bn (3x Subscription) with strong demand from FII
 - Priced at 2.7% premium to floor price & zero discount to closing price
- ✓ Prepaid Rs. 1,031 crore long term loan in FY 2017 & Rs. 6,785 crore (incl. Utkal) in FY18 till August'17 Total pre-payment of Rs. 7,815 crore
- ✓ Refinanced USD 4.3 billion long-term debt at Novelis annual cash interest reduced by USD 79 mn



Over last four years
Hindalco's return was higher as compared to BSE Metal Index and Sensex

CONSISTENTLY DELIVERING VALUE TO INVESTORS

	Last 4 years
Hindalco	128%
BSE Metals	69%
Sensex	76%





Growth Opportunities





Novelis is the global leader and preferred choice for automotive aluminium sheet solutions -Plan to increase the overall share of Automotive shipment

GLOBAL AUTOMOTIVE SHEET MARKET



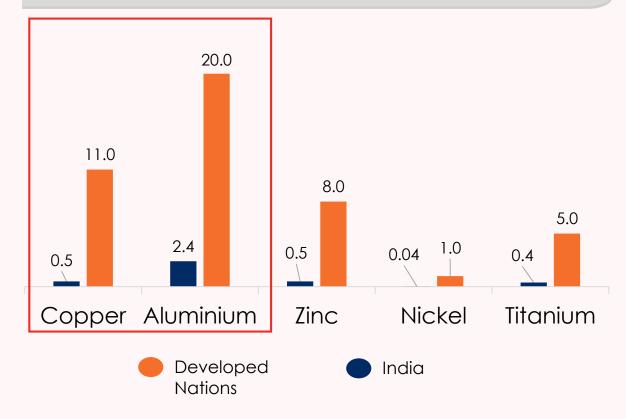
- Ducker Worldwide and IHS project increased penetration of aluminum sheet, mainly through hang-on parts, leading to higher demand
- Aluminum penetration is higher in Trucks, SUVs, and EVs globally
- China automotive FRP market is growing at the highest CAGR supported by government policies and EV market development
- □ Trucks, SUVs and EVs will continue to grow faster than the overall market



Hindalco is fully prepared to tap the market

INDIA'S UN-TAPPED POTENTIAL FOR NON-FERROUS METALS

Per capita consumption of Non Ferrous metals against developed economies (Kg)

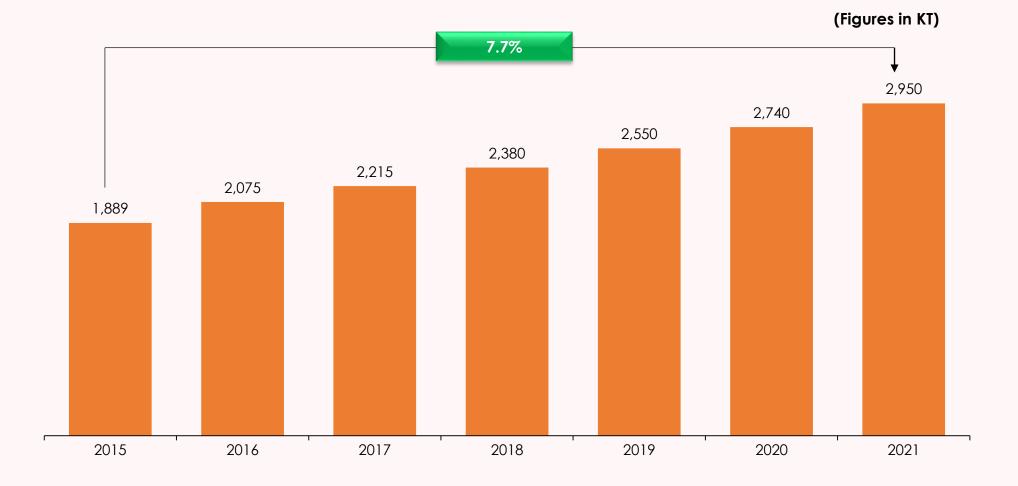


- It is witnessed that in manufacturing dominated economies, the per capita consumption of non-ferrous metals increases exponentially with increasing per capita GDP. China is an ideal example
 - India has a unique advantage of abundant, good quality bauxite and coal



India is
world's one
of the
largest
Alumina
and
Aluminium
Producer

LOW ALUMINIUM CONSUMPTION BASE IN INDIA: SIGNIFICANT GROWTH POTENTIAL





To take the advantage of growth in India -Hindalco to focus on downstream expansion in both **Aluminium** and Copper segments

KEY SECTORS TO DRIVE GROWTH IN INDIA



Auto

Auto manufacturing hub for Eastern hemisphere; 3rd largest auto market globally



Power

5th largest electricity producer globally; goal of 100% Rural Electrification by 2018



Construction

2nd largest employer in the country; goal of 100+ Smart Cities and 500 AMRUT cities



Railways

No. 1 passenger & 4th largest freight carrier globally; employs 1.3 million



Aerospace & Defence

Goal to grow indigenisation from 30% to 70% by 2017; increased private participation



Solar Energy

Target generation of 100 GW by 2020; increase current share of 10% indigenisation



Electronics

NPE target of zero net imports by 2020; manufacturing growth at 27% from 2015-20



Maximizing returns by converting metal into value added products both in **Aluminium** and Copper segments

INVESTING FOR GROWTH AND COMPETITIVE STRENGTH

Upstream

Resource Management Continuous supply of key raw material for both Aluminium and Copper

Expansion

 De-bottlenecking of Existing capacity and Brownfield expansion

Downstream

People

 Optimize and modernize manufacturing process to achieve operational excellence

Digitization

 Automation and manufacturing excellence

Customer experience

Process

 Applying global best available practices and create a sustainable model of growth

Technology

 Best in class rolling, extrusion and foil technique with emphasis on productivity and quality



GOING FORWARD

Hindalco remains focused on accelerated deleveraging, operational excellence, higher value addition, customer centricity and cash conservation to deliver stakeholder value

Thank You



We Manufacture Materials that Make the World Greener - Stronger - Smarter