Greener
Stronger
Smarter
Contents

The Materials that Build the Future 02
Customers as Business Partners 04
The Hindalco Growth Story & Metals Flagship of a Global Conglomerate 05
Local & Global Advantages 07
Hindalco Aluminium : Manufacturing Excellence 09
Robust Growth in Flat Rolled & Extruded Products 16
Major Aluminium Brands 17
Novelis Aluminium 18
Hindalco in Speciality Alumina 20
Hindalco Copper 26
Sustainability Framework 32
Research & Development 36
People at the Core 42
Reaching out to Communities 46
From islands of Excellence to a World of Excellence 54
Offices 55

Growing Worldwide Presence – India Map Ⅰ
– World Map Ⅱ
Across the Metals Value Chain – The Making of Aluminium Ⅲ
Across the Metals Value Chain – The Making of Copper Ⅳ
Hindalco produces materials that create a greener, stronger, smarter, world. Its products sustain the environment, power the global economy and offer smart solutions for today and the future.

From infrastructure to aeronautics to seafaring vessels, Hindalco products find applications across land, sea and air. From new generation automobiles to aerospace and bullet trains, to innovations like tempered glass for the transformational mobile communication revolution, Hindalco leads from the front.

The metals from Hindalco, namely, aluminium and copper are green in more ways than one. Their use in electric vehicles or solar panels contribute to a sustainable planet.

From mining to manufacturing, Hindalco cares for the environment at every stage. Combining advantages of lightweight and strength, recyclability and manufacturing excellence, strong research and development capability and a global talent pool, Hindalco today is big in your life.
At Hindalco the Customer is the ultimate boss – the Bosstomer! The Company strives to provide best products and services to its customers, who in turn deliver quality products to the end users. It’s a win-win partnership to build a GREENER STRONGER SMARTER world.

Understanding the customers’ expectations is crucial. Hindalco regularly engages with its customers, encouraging them to share their views on product quality, delivery and services. From shop floor to marketing to corporate functions – internal collaboration to meet the external customers’ requirements is a crucial and continuous process.
Hindalco came into being from the vision of its founder the late G.D. Birla. The foundation of India’s first integrated aluminium complex at Renukoot in the state of Uttar Pradesh, marked the beginning of the historic journey. Today, under the leadership of the Aditya Birla Group Chairman, Kumar Mangalam Birla, the Company has taken giant strides into the future. A transformational journey from a single unit in India to a global metals major, with a remarkable growth in revenues in the last 18 years.

Hindalco is the flagship company of the Aditya Birla Group, a US $44 billion corporation in the league of Fortune 500. The Group is anchored by an extraordinary force of over 120,000 employees, belonging to 42 nationalities. Over 50 percent of its revenues flow from its overseas operations spanning 35 countries. The Group was named the Aon Best Employer in India for 2018 – the third time in 7 years.
Hindalco is the industry leader in aluminium and copper metals. Headquartered in Mumbai, India, Hindalco, along with its wholly-owned subsidiary Novelis Inc., is the world’s largest aluminium rolling company and one of Asia’s biggest producers of primary aluminium. The state-of-the-art copper facility comprises a world-class copper smelter and a fertiliser plant along with a captive jetty.

The copper smelter is among the world’s largest custom smelters at a single location.

Global Metals Powerhouse with Market Cap of

US $8billion
Revenue of
US $18billion
(₹1,15,809 crore)
LOCAL & GLOBAL ADVANTAGES

Hindalco enjoys a leadership position in aluminium and downstream value-added products in India and overseas. The combined power of Hindalco and Novelis offers unique benefits, which are both local and global. It ranks among the lowest cost primary aluminium metal producers and is a leading player in value-added products of aluminium and copper.

Operational excellence in manufacturing, combined with backward and forward integration strategies provides a balanced business portfolio which strengthens Hindalco’s global leadership position.
Novelis

is a global leader in aluminium flat rolling and recycling

UNBEATABLE RECYCLABILITY

70% of all aluminium produced since 1886 still in use today

- Global leadership
- Operations in 44 manufacturing units across 11 countries in 4 continents
- Multi-cultural workforce of around 36,000 across the globe
- Novelis – world’s number one producer of aluminium flat rolled products
- Integrated operations in India from primary aluminium smelting to rolling, with resource security through access to captive bauxite ore, coal mines and linkages
- Aditya and Mahan Aluminium Smelting Units – 1st quartile cost producers of world-class aluminium
- Utkal Alumina, a wholly-owned subsidiary of Hindalco, is a world-class Refinery – leader in technology, cost and quality
- Among the world’s largest custom copper smelters at a single location
HINDALCO ALUMINIUM: MANUFACTURING EXCELLENCE

Excellence by design is the mantra at Hindalco. It is the underlying theme of the Hindalco Management Framework (HMF) — an effort to standardise processes as the Hindalco Way, in order to embed excellence and agility in every aspect of operations; ensuring quality, safety, and long-term sustainability. With the commissioning of new technologies at the plants, new product applications and strong sustainable management practices, the positive transformation has gained momentum, towards customer delight and satisfaction every time, by rule and not by chance.
**MINES: RESPONSIBLE RESOURCE MANAGEMENT**

The Company’s captive bauxite mines in Jharkhand, Odisha, Chhattisgarh and Maharashtra provide the basic raw material to its alumina refineries located at Muri in Jharkhand, Renukoot in Uttar Pradesh and Belagavi in Karnataka. Utkal Alumina (Odisha) located in close proximity to Baphlimali bauxite mines has access to superior quality bauxite ore which is transported to the refinery through an 18 km long-distance conveyor, considered an engineering marvel. Alumina is the intermediary product in white powder form, for manufacturing of aluminium metal.

Hindalco’s mining practices, regeneration activities and sustainable community engagement initiatives are geared towards minimising environmental impact and maximising socio-economic development of the surrounding regions.
SECURE COAL SUPPLIES FOR CAPTIVE POWER

To ensure uninterrupted power for primary aluminium production, all Hindalco smelters are fully backed by captive power plants, with secured coal supplies from captive mines – Gare Palma IV/4 and IV/5 in Chhattisgarh and Kathautia and Dumri in Jharkhand. Balance coal is sourced through linkage contracts. The coal mines operate on highest standards of mines safety and quality production.

RESOURCE AVAILABILITY

India has abundant bauxite and coal reserves which gives Hindalco unique stability in both production and capability. This enables the Company to visualise long term perspectives and stay ahead of new developments to meet emergent needs.
WORLD-CLASS REFINERY

Utkal Alumina (Odisha), wholly-owned subsidiary of Hindalco, is a world-class alumina refinery and most economical alumina producer in the world today. Utkal supplies alumina to the new age Mahan and Aditya smelters, through dedicated BTAP wagons and aluminium bulkers.
State-of-the-art aluminium smelters at Aditya (Odisha) and Mahan (Madhya Pradesh), operate on AP36 technology. These smelters have not only resulted in expansion of capacities, but also improved cost-efficiency of overall operations.

### NEW AGE SMELTERS

<table>
<thead>
<tr>
<th><strong>ALUMINA</strong></th>
<th><strong>ALUMINIUM</strong></th>
<th><strong>CAPTIVE POWER GENERATION</strong></th>
<th><strong>DOWNSTREAM ALUMINIUM VALUE-ADDED PRODUCTS</strong></th>
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<tr>
<td>Capacity</td>
<td>Capacity</td>
<td>Capacity</td>
<td>Shipment</td>
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<td>2.9 million tpa</td>
<td>1.3 million tpa</td>
<td>3,300 MW</td>
<td>3.7 million tonnes (incl Novelis)</td>
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PROMISE IN PRIMARY ALUMINIUM

Globally, primary aluminium industry faces cyclical trends based on international price movements on the London Metal Exchange. Hindalco’s operational excellence and resource security enables it to face market volatility and expand its market presence. High purity ingots, sows, cast slabs, billets cater to various downstream operations.

MAJOR PRODUCT GRADES IN ALUMINIUM

Primary Aluminium
- Ingots: Pigs & Sows
- Cast Slabs
- Billets

Value-Added Aluminium Products
- Wire Rods
- Extrusions
- Flat Rolled Products
MAHAN & ADITYA: SCALING QUALITY AND GLOBAL PRESENCE

The Smelters took up the challenge to produce high quality aluminium metal beyond design grades and provide a window of opportunity to the global market to source primary aluminium metal from India. Both smelters produce 100% P0610+ grades and quality that made these smelters eligible to be branded as equivalent to “Good Western” by the discerning Japanese customers. This is comparable to any benchmarked smelter of the world.

Ingot and sows from Aditya and Mahan smelters are registered with the London Metal Exchange (LME) as good delivery brands. Mahan also has a patent for surface finish of their sows and ingots.
ROBUST GROWTH IN FLAT ROLLED & EXTRUDED PRODUCTS

With world-class rolling facilities in Hirakud (Odisha), Renukoot (UP), Taloja, Mouda (Maharashtra), Belur (West Bengal) and Extrusions at Renukoot and Alupuram (Kerala), Hindalco is poised to lead the market in India towards newer applications in the aluminium segment.

LOW CONSUMPTION HIGH POTENTIAL

India’s historically low aluminium consumption of around 2.5 kg per capita as compared to around 24 kg per capita consumption in China and global average of 11 kg, is a great opportunity for growth in the domestic value-added products market.

A global standard in primary metal quality coupled with downstream rolling expertise to offer customised solutions, gives Hindalco a competitive edge to meet the growing global as well as local demand.
MAJOR ALUMINIUM BRANDS

FLAT ROLLED PRODUCTS
Hindalco Everlast: Leading brand for aluminium roofing solutions. Preferred choice for industrial and residential applications.

EXTRUSIONS
Hindalco Extrusions (HE) offers an impressive range of shapes and alloys. Maxloader all-aluminium truck body made up of HE profiles offers many cost-saving advantages. ETERNIA Quality window and door systems of superior Italian design. Beauty and engineering come together seamlessly.

FOIL AND PACKAGING
Freshwrapp, Superwrap and Freshpakk the Semi Rigid Container (SRC) are convenient and popular Hindalco brands.
Over the last decade, Novelis has grown to become the leading producer of flat-rolled aluminium products and the world's largest recycler of aluminium. Driven by its purpose to shape a sustainable world together, Novelis works alongside its customers to provide innovative solutions for beverage cans, automotive and high-end speciality markets. As a world-class business-to-business manufacturer, Novelis is proud to serve some of the largest and best known brands in the world, such as Coca-Cola, ABInBev, Ford Motor, Jaguar Land Rover, LG and Samsung.

Operating a global network of technically advanced rolling and recycling facilities across North America, South America, Europe and Asia, Novelis leverages its global manufacturing and recycling footprint to deliver consistent, high quality products around the world.
Novelis’ expert team of engineers, metallurgists, chemists and scientists have set the standard for aluminium alloy innovations. Owning more than 140 automotive-specific patents, Novelis is committed to continuing to lead the industry in developing aluminium solutions for its customers. Novelis’ 11,000+ employees worldwide are the driving force behind its forward-thinking innovation and it is their talent that sets Novelis apart as a 21st century manufacturer.

**INNOVATION: MICRO TO MACRO**

**PREMIUM PRODUCT FOCUS**

- Premium product segments (beverage can, automotive and specialities)
- Increased focus on high growth automotive segment
HINDALCO IN **SPECIALITY ALUMINA**

From smart phone display screens to detergents and floor tiles; from car air bags to bullet proof vests — all have Speciality Aluminas produced by Hindalco.
HINDALCO IN CHEMICALS: SPECIAL APPLICATIONS TO MEET CUSTOMISED NEEDS

Hindalco’s Chemicals Business comprises two refinery Units in India – Belagavi Alumina Refinery in Karnataka with an Innovation Centre and Muri Alumina Refinery in Jharkhand. Hindalco’s overseas subsidiary Hindalco Do Brasil operates its refinery at Ouro Preto, Brazil in South America.
BELAGAVI: THE SPECIALITY SPECIALIST

Belagavi is a dedicated Speciality Alumina Plant, offering chemical grade Speciality Aluminas and Hydrates. Hindalco Speciality Aluminas and Hydrates are now widely consumed in over 34 countries, commanding a strong market share in India and globally.
HINDALCO DO BRASIL

Hindalco do Brasil (HDB), located in Ouro Preto, Brazil, has in the last four years of operation grown a customer base of over 150 in Brazil, Argentina, Paraguay, Colombia, Mexico, USA & Canada. HDB has now become a strong player of hydrate and alumina in the non-metal space.
A GROWING RANGE OF GRADES

In-house development and production of Speciality Alumina and Hydrate started in the early 1980s with just one grade at Belagavi. This has now grown over the years to more than 120 grades spread over 45 applications and selling in 34 countries.

One of the latest developments is addition of new product lines in Speciality Alumina, which has helped the business to enter into display glass applications for mobile phones and television sets – one of the fastest growing markets in the world.

A number of products are also at pilot stage of development, such as alumina for emission control ceramics, low soda fusion grade products, low soda alumina for vacuum circuit breaker, high purity alumina for different high tech ceramics, superfine precipitated alumina hydrate offering fire resistant solutions to different polymer applications like wire and cable, etc.

SPECIALITY PRODUCTS

Hindalco’s chemical products are used in numerous industrial formulations. What makes these products special (hence referred to as non-metallurgical grade or Speciality Aluminas & Hydrates), is that they impart benefits of scratch resistance, strength against abrasion and impact, chemical resistance, glossy look and shine to enhance quality of life; and as electrical resistance, fire retardants & smoke suppressants to ensure human health and safety.

PURE WATER FOR PEOPLE

Hindalco Alumina Chemicals serve the needs of society in another important aspect, namely, supply of customised Alumina Hydrates that go into making of Alum and PAC used for water purification. It is estimated that about 8% of the urban population of India uses clean water that is purified using Hindalco products.
**Major Applications**

- Display glass for mobile phones
- Refractories & Castables
- High Tension Insulators
- Floor Tiles
- Solar Panels
- Tableware – Ceramic and Glass

- Glassware – Cosmetic Bottles, Pharmaceutical Bottles, Injection Ampoules, Laboratory Equipment
- Detergent Bars
- Ceramic Insulators
- Electrical Switchboards

- Automotive Components
- Ceramic products used as grinding media
- Brake liners
- Catalytic Converters for emission control in cars
- Electric cables

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**Previous | Next | Contents**
HINDALCO COPPER:
BEST INTEGRATED
CUSTOM SMELTER IN THE WORLD
AT ANY SINGLE LOCATION

Hindalco’s Copper Business operates one of the largest single location custom copper smelters in the world. The custom smelter complex at Dahej (Gujarat) in the west coast of India houses the copper smelters, refineries, rod plants, by-products plant, captive power plant, a captive jetty and other utilities.

There is also a precious metals recovery plant which produces gold, silver, selenium and platinum.
Established in 1998

ISO 9001, 14001, 27001, 50001 & OHSAS 18001 certified
Registered on the London Metal Exchange

Capacities

Refined Copper: 500 ktpa | Copper Rod: 400 ktpa
Sulphuric Acid: 1670 ktpa | Phosphoric Acid: 210 ktpa
DAP & Complexes: 400 ktpa | Gold: 15 tpa
Silver: 150 tpa | Power: 135 MW
Hindalco’s copper cathodes are branded as Birla Copper and Birla Copper II. The Copper unit has the capacity to produce 500 KT of copper cathodes. Known for high purity and consistent quality, Birla Copper cathodes are square shaped, with 99.99% copper purity levels, produced using the Mount ISA electro-refining process. They meet the international quality standards BS 6017 1981 (1989) and u-Cath-1/ASTM B-115 (1999) and are registered as LME A Grade. They are high grade and have the lowest levels of various group and individual impurities.

The Birla Copper laboratory has been accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories) in accordance with the standard ISO/IEC 17025:1999.

Birla Copper cathodes are used in the manufacture of continuous copper rods for the wire, cable and transformer industries, and copper tubes for consumer durable goods and other applications in the form of alloys and sheets.
Hindalco has Southwire as well as the new SMS Contirod mill (state-of-the-art facility established in 2018) to produce Continuous Cast Rods. These rods meet all international quality standards and their homogeneous structure and fine grain size result in outstanding drawability. They can be drawn to an ultrafine wire at a high yield rate. Birla Copper rod is considered suitable for power and communication cables, strips for power and distribution for transformers, magnet wires and household wires. Their excellent surface finish makes them suitable for processing to enameled, coated and plated wires. Hindalco can produce copper rods in diameters of 8, 11, 12.5, 16, 19.6, 21, 23 and 26 mm.
CAPTIVE JETTY

Hindalco’s fully-owned subsidiary, Dahej Harbour and Infrastructure Limited (DHIL), operates an all-weather jetty in the Gulf of Khambhat on the west coast of India. DHIL is strategically located to cater to the logistics and transportation needs of Hindalco Copper, equipped with a skilled and professional workforce and having deep-water, direct-berthing facilities. The present handling capacity is 4.5 million MT of solid bulk cargo with berthing capacity of vessels up to 70,000 DWT in fair weather.
FERTILISER: BY-PRODUCTS THAT ADD VALUE

Hindalco produces di-ammonium phosphate (DAP) fertiliser. It is the most popular phosphatic fertiliser because of its high nutrient content and good physical properties. The composition of DAP is Nitrogen-18% and P2O5-46%. With the same facility Hindalco can also produce nitrogen phosphorus potassium (NPK) complexes as value-added downstream products. It can produce NPK complexes such as 10:26:26, 12:32:16 and 20:20:0.

The DAP fertiliser is marketed under the well known Birla Balwan brand, a name that commands preference among the farmers of Gujarat, Maharashtra, Rajasthan, Madhya Pradesh, Haryana, Punjab and Chhattisgarh through the established vast network of dealers, retailers and C&F agents.
Hindalco’s focus is on leveraging operational excellence to optimise its environmental footprint. This signifies managing resources sustainably and responsibly, while at the same time improving performance on aspects like energy conservation, zero water discharge, waste minimisation and recycling, with very high priority on safety performance. Hindalco has aligned its efforts with the global call to mitigate climate change and has committed to do its bit to limit the global temperature rise to less than 2°C.
RECYCLABILITY

The Company continues to strive towards developing applications and products which maximise recycling and minimise resource extraction in India, while Novelis maintains its position as the global leader in Flat Rolled Products. Drawing upon the unique nature of aluminium, a 100% recyclable metal which does not degrade in quality on recycling, Novelis has invested in major recycling initiatives and has been able to use 57% of its input in the form of recycled scrap.

GREEN INITIATIVES

Mining: Greening/Sustainable Practices/Biodiversity | Refining: Pollution control/Value from waste and safe storage
Smelting: Pollution Control | Power: Investing in renewable energy and alternative use for wastes
Manufacturing: Zero Waste/Rainwater Harvesting/Zero Liquid Discharge
**UNITED NATIONS SUSTAINABLE DEVELOPMENT GOALS**

Hindalco’s sustainability initiatives and strategies are aligned with the UN Sustainable Development Goals (SDGs). The Company’s Sustainability Committee is chaired by its Managing Director. It reviews the sustainability performance at regular intervals. Areas of prime importance on which the Company is working on include:

**SUSTAINABILITY FOR BUSINESS GROWTH**

Hindalco’s approach to sustainability focuses on sustainable mining practices, energy conservation, recycling, environment-friendly disposal of industrial wastes, safety practices, socio-economic development of the communities around the plant and empowerment of employees. It sets clear policy and institutional framework, systematically monitors performance, encourages continuous improvements and innovative practices, and deepens the dialogue with all stakeholders.

**ZERO LIQUID DISCHARGE**

Water Conservation and achieving ‘Zero Liquid Discharge’ status continue to be a strong focus area. Various initiatives have been undertaken across plants towards reduction of water consumption and efficient recycling of treated water. Over the past three years use of recycled water at the units has doubled.
VALUE FROM WASTE

Avoidance, Reduction and Reuse of waste created is systematically and efficiently handled through Hindalco’s ‘Value from Waste’ initiative. Innovative ways are regularly explored to reduce, and reuse waste generated. For instance, a recently commissioned Red Mud Filtration (RMF) unit is helping in reducing the caustic soda content in the red mud.

THE ‘WASH’ PLEDGE

As a responsible organisation, Hindalco is working towards achieving the World Business Council for Sustainable Development’s Water, Sanitation and Hygiene (WASH) pledge to ensure supply of safe drinking water, sanitation and hygiene in all its operations.

ALTERNATIVE ENERGY

Several initiatives have also been taken towards energy efficiency and reduction of GHG (greenhouse gas) emissions. Alternative sources of fuel and power such as biomass and solar power have been successfully commissioned. In recognition of its initiatives, the Ministry of Power has awarded the National Energy Conservation Award to many of Hindalco’s manufacturing Units.
RESEARCH & DEVELOPMENT:
SUSTAINABLE FUTURE

A global presence brings with it a global responsibility. It is a responsibility towards customers to provide the best and most environment-friendly products. Hindalco and Novelis Innovation and Technology Centres along with research labs at all manufacturing units, work towards creating process efficiencies and innovative products.

Hindalco’s Research and Development teams work to create pioneering solutions to the technology challenges faced today for all tomorrows. Better products and innovative manufacturing processes ensure product quality while safeguarding the environment. With over 200 employees dedicated to R&D including Global Technology Centres, Hindalco offers leading expertise in areas of applied technology, market-led innovation and technical services for customers.
RECOGNISED RESEARCH CENTRES

Research and Development at Hindalco in India is spearheaded by the three Hindalco Innovation Centres (HIC) at Belagavi, Taloja and Dahej. The Innovation Centres at Belagavi and Taloja are recognised by the Department of Scientific & Industrial Research (DSIR), Government of India. HIC Semi Fab Taloja is also ISO 9001:2015 certified and accredited in accordance with the standard ISO/IEC 17025:2005 by the National Accreditation Board for Testing and Calibration Laboratories (NABL). Developmental and analytical services over the years have earned the centres national and international recognition, including the National Award for R&D efforts.

Every day Novelis furthers its commitment to build upon its rich heritage of innovation to develop new products and processes to meet the growing needs of its customers. At its Global Research & Development Centres, which are strategically located around the world — including USA, Switzerland and South Korea — Novelis is able to maintain close proximity to its customer-base and work alongside them to develop the newest and most innovative aluminium solutions in the market.

Novelis’ Global Technological Organisation offers new solutions for Hindalco and its customers.

HINDALCO INNOVATION CENTRE

Alumina – Belagavi, India | SemiFab – Taloja, India
Kennesaw – Georgia, USA | Spokane – WA USA | Gottingen – Germany | Sierre – Switzerland | Ulsan – South Korea
VARIED SPECIALISATIONS

The Belagavi Innovation Centre conducts research in the field of bauxite, Bayer process and alumina, while the Taloja Innovation Centre specialises in the field of development of new product and applications, analytical support in metallurgy and oil and lubrications.
Every manufacturing plant has its own R&D/technical cell that works on quality assurance, process improvements, and new product development. R&D teams at Unit levels have launched projects to achieve higher amperage, lower specific energy consumption and minimal interruptions of process flow.

**PLANT LEVEL TECHNICAL CELLS**
Hindalco’s long term success rests on its people who have high commitment levels and are working to meet the challenges of the future. The Company culture values performance that comes through empowerment, so that people don’t feel they are working ‘for’ the organisation but ‘with’ the organisation. Well laid-out processes and management systems foster an environment of growth through collaboration, with a young and vibrant multi-cultural workforce. Learning and development are well integrated with business objectives to enhance functional and leadership capability. Competencies are aligned and developed through on-the-job learning, classroom programmes, coaching, mentoring and e-learning modules.
LEADERSHIP CULTURE
@ HINDALCO

Hindalco’s robust talent management programme focuses on developing a leadership pipeline across levels. The aim is to attract and retain best talent through challenging and exciting opportunities across geographies and functions, to build leaders who in turn practice seamless teamwork and develop their teams.

‘ZERO HARM’ CULTURE

Hindalco is working towards a ‘Zero Harm’ culture. Safety underpins every decision and activity. Ensuring health and safety of not just employees but also contract workers, is of paramount importance. A Safety Board chaired by the Managing Director along with business heads and functional heads, reviews safety initiatives and closely monitors safety performances with unit teams.
DIVERSITY AND CONSCIOUS INCLUSION

Diversity and inclusion help create a workforce that mirrors the communities in which Hindalco operates. Hindalco’s Gender Intelligence programme focuses on building awareness and understanding that “strength lies in differences, not in similarities”. An enabling work environment with employee-friendly policies facilitates growth with equal opportunities.

As a member of the Aditya Birla Group, Hindalco has implemented several leadership programmes for women managers and is the first in India to have a woman heading a manufacturing unit.
LEARNING AND DEVELOPMENT

Competency based programmes aim to develop behavioural and functional capabilities. At Hindalco, learning initiatives emphasise on-the-job learning as also learning through projects and classroom sessions. A well planned calendar of programmes along with a menu of learning options is offered to employees who are encouraged to draft their own development plan. The Hindalco Technical University has been set up to provide specialised training on technical and functional skills. Behavioural programmes target the development of leadership and managerial competencies including a specific focus on GenY and women managers, as also focused training on Safety and Customer Centricity.
REACHING OUT TO COMMUNITIES: BUILDING A SHARED FUTURE

“Hindalco has made it its business to grow through a partnership approach and prides itself on giving back to society. It is an on-going commitment to our spirit of sharing and caring. Our social development strategy adopts programmes dedicated to uplifting communities through development programmes that not only lead to short-term sustenance but long-term empowerment so that societies of tomorrow find themselves on a better footing.”

Rajashree Birla
Chairperson
Aditya Birla Centre for Community Initiatives and Rural Development
Investing part of the profits beyond business was a norm at Hindalco even before the government recognised its need and mandated it. Community projects are carried out under the aegis of the Aditya Birla Centre for Community Initiatives and Rural Development, led by Rajashree Birla. The Centre provides strategic direction and the thrust areas for work, also ensuring performance management.

All development activities fall under five key areas: Health Care, Education, Sustainable Livelihood, Infrastructure and espousing Social Causes.

The various initiatives span across the country impacting a population of around 1.2 million across 626 villages and 22 urban slums in the states of Odisha, Jharkhand, Madhya Pradesh, Chhattisgarh, Uttar Pradesh, West Bengal, Gujarat, Maharashtra, Karnataka and Kerala.
Hindalco has been tirelessly working to provide access to quality education to the rural community, by setting up and supporting schools, running balwadis/adult literacy centres, providing scholarships and focusing on educating the girl child.

- Hindalco’s Aditya Birla Public schools offer quality education at remote locations
- Coaching centres and ITI training to local youth offer additional vocational learning opportunities
- Strong financial and infrastructural support is given to revamp and improve the facilities at local schools, including teaching aids, computers, uniforms, stationery, classrooms, toilets, midday meals, etc
- Encouraging girl students through the Mahan Jyoti Scholarship for higher studies and supporting the Kasturba Gandhi Balika Vidyalayas
- Supporting Adult Literacy centres and encouraging computer literacy
- Other educational support programmes include setting up of a Mini Science Centre at Saraswati Shishu Mandir School near Mahan Aluminium; as also Knowledge Centre/Library at various other places
HEALTH CARE

Addressing the sorely lacking medical facilities in the remote areas around its plant sites has been the primary focus for Hindalco. Some major initiatives include:

- Rural medical and awareness camps, including surgical camps organised in remote areas
- Building good medical facilities, e.g. hospitals and Health/Dispensary Centres; new hospital set up at Utkal Alumina and at Mahan
- Mobile Health Camps in remote areas – focus on TB, polio eradication, dental, cataract, skin diseases
- Ambulance services with modern well-equipped vans
- 8 Company run hospitals and 15 Dispensaries/Clinics that serve local communities
- Furthermore, Hindalco supports several Government initiatives like primary health centres
MOTHER AND CHILD CARE

Hindalco runs an extensive pre and post-natal care for mother and child health. Many of these projects are carried out in remote areas where traditionally such health care was rarely available.

- Polio immunisation camps as well as administering of BCG, DPT and anti-Hepatitis B vaccines
- Family welfare centres to care for expectant mothers as well as post-natal care
- Nutrition and escort services for institutional delivery
- Adolescent health care with focus on girl child and menstrual health issues
- Motivational drive on awareness of Responsible Family life
SUSTAINABLE LIVELIHOOD

Helping communities to build their self-reliance has been the prime focus through income generation programmes, especially for those in project affected areas; build employability through vocational training, empower women and support farmers to improve their agricultural methods for higher crop yield. Hindalco has tied up with Xenteo to build sustainable mining models around the Gare Palma Coal mines eco-system.

Notable achievements include:

• Project Saksham at Utkal Alumina – a garment production unit at Tikiri to help 30 women earn a livelihood
• Project Kaushalya at Utkal Alumina supports vocational training to women in tailoring, appliqué work at Nuagaon and then extended to Paikupakhal and D.Karol villages
• Project WADI has been started in collaboration with NABARD which will benefit 500 farm families across 15 villages
• Mahan Aluminium has constructed Check Dams for water management, facilitating agriculture in over 4,000 acres of land which has helped over 6,000 farmers. This process in the hilly terrain helps preserve rain water and does not cause displacement to communities nor does it destroy natural resources
• Farmers training helps to impart knowledge on crops, fertilisers, pest management, and thereby improve the agricultural output
• Additional sources of income through dairy, poultry, animal husbandry help supplement low income families. Aditya Aluminium has promoted Banaraja chicks rearing with over 6,000 birds given to 1,000 beneficiaries, out of which over 150 of them are earning more than ₹4,000 to ₹5,000 per month
• Empowering Women is an important key to Sustainable Liveliood. Skill development training has been implemented to motivate and build self-reliance. There are currently 1,571 Self Help Groups empowering 21,696 households and running successfully
INFRASTRUCTURE DEVELOPMENT

Hindalco improves the infrastructure around its units through:

- Constructing roads, community halls, temples, ponds, bathing ghats
- Building irrigation and check dams
- Ensuring safe drinking water and clean drainage system in villages
- Supporting electrification drives while also promoting renewable energy sources such as solar street lights and solar operated drinking water supply and biogas units
ESPousing SOCIAL CAUSES

Hindalco believes in promoting socio-economic development of the communities while preserving the unique cultural ethnicity of each region.

- Religious, cultural and sports events promote harmony and positive attitude
- Street plays and awareness drives are conducted on the evils of child marriage, dowry, domestic violence and to help support gender equality, promote widow remarriage and run de-addiction campaigns
A journey from islands of excellence to a world of excellence
Building relationships, understanding values, creating value together

Developing a sense of purpose, defining a perspective
What we do and why we do it
We build materials that make the world: **GREENER-STRONGER-SMARTER**

We use green technologies
We build stronger products
We play a major role in smart projects
Our skills and our deliveries are key to stay competitive and lead
We want to be a sustainable company that builds a sustainable world
HINDALCO INDUSTRIES LIMITED

Corporate Office
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Worli, Mumbai 400 030
Ph: +91 22 6662 6666/6261 0555

Registered Office
Ahura Centre, 1st Floor, B Wing, Mahakali Caves Road
Andheri (East), Mumbai 400 093
Ph: +91 22 6691 7000 | Fax: +91 22 6691 7001

www.adityabirla.com | www.hindalco.com

OFFICES

Bengaluru
Industry House, 45 Race Course Road, Bengaluru 560 001
Ph: +91 80 4041 6100-3 (2nd floor including Copper)
Ph: +91 80 4041 6000-4 (7th floor)

Bhubaneswar
J-6 Jaydev Vihar
Bhubaneswar 751 013, Ph: +91 674 236 0362

Kolkata
Jeevan Deep, 1st Floor
1, Prafulla Chandra Sen Sarani (Middleton Street)
Kolkata 700 071, Ph: +91 33 2280 9710

Industry House, 17th Floor, 10 Camac Street
Kolkata 700 017, Ph: +91 33 2282 1630

Noida
Mindmill Corporate Towers
5th Floor, 24 A, Film City, Sector 16 A
Noida (UP) 201 301, Ph: +91 120 669 2100

Ranchi
Vasundhara Mega Mart, 2nd Floor
Near Argora Chowk, P.S. Argora
Ranchi 834 002, Ph: +91 651 224 7900

Vadodara
The Park, Unit 301-303, 3rd Floor
Akshar Chowk, O.P. Road
Vadodara 390 012, Ph: +91 265 233 8655

Novelis Inc.

3560 Lenox Road, Suite 2000
Atlanta, GA 30326 USA, Ph: +1 404 760 4000

All figures pertain to FY2017-18
Market Cap as on 31st March 2018
GROWING WORLDWIDE PRESENCE

4 CONTINENTS

44 MANUFACTURING LOCATIONS

11 COUNTRIES

Hindalco In India

- Mahan Aluminium
- Aditya Aluminium
- Hiral Aluminium
- Nalco
- Belur
- Mundra
- Kollur
- Alupuram
- Dahej

- Mahan Alumina
- Aditya Alumina
- Hiral Alumina
- Nalco
- Belur
- Mundra
- Kollur
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- Dahej

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ACROSS THE METALS VALUE CHAIN

The Making of Aluminium

Aluminium is not found in free form in nature, even though it is the most common metal on earth. Bauxite is the only ore from which aluminium can be economically extracted. The aluminium production process can be broken down into three stages. First, bauxite is extracted from the earth, second, it is processed into alumina and then, using electrolytic reduction methods, alumina is converted into molten aluminium. Alloyning ingredients are added to change the chemical and mechanical properties of aluminium in line with market requirements (to increase strength, to make it denser or to change the heat transmission properties). Molten metal is then cast into various shapes and sizes and converted into value-added products like sheets, foils, extrusions and wire rods, to produce a wide range of aluminium products for use in various industrial and consumer applications.

Speciality grade aluminium and hydrates are important non-metallurgical value additions for applications in products like refractories and ceramics.
Copper is one of the basic elements in the world. The ore, after mining, goes through a process of concentrating to remove waste and other material. When fed into a smelter, the copper concentrate (27% Cu) undergoes several chemical reactions, transforming it into molten metal called blister (96.5% Cu), which is refined into anodes. Each copper anode (99.9% Cu) further undergoes the final electro-refining process to convert into pure copper cathodes (99.99% Cu). Copper cathodes are re-melted into continuous cast rods and further drawn to make copper wires. Copper cathodes, rods and wires as finished goods find application in electrical, electronic, automotive, construction, railways and other industries.

The Making of Copper

Sulphuric acid produced from sulphur dioxide rich off gas generated during smelting, is either used to produce SOP fertilizer or sold as merchant grade sulphuric acid. Gold, Silver, Selenium and other precious metals are also important by-products which are recovered and sold.
HINDALCO INDUSTRIES LIMITED

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