



23<sup>rd</sup> June, 2021

<b>BSE Limited</b> Phiroze Jeejeebhoy Towers Dalal Street Mumbai: 400 001  <b>Scrip Code: 500440</b>	<b>National Stock Exchange of India Limited</b> Exchange Plaza, 5 <sup>th</sup> Floor, Plot No. C/1, G Block, Bandra Kurla Complex, Bandra (East) Mumbai – 400 051  <b>Scrip Code: HINDALCO</b>
Mr. Daniel Schammo <b>Banque Internationale A Luxembourg Societe Anonyme</b> 69, Route d'Esch L-2953 LUXEMBOURG Fax No. 00 352 4590 2010 Tel. NO. 00 352 4590-1	

**Sub: Copy of Investor Presentation on Sustainability at TheAmbit Capital-India Access Virtual ESG Conference 2021 to be attended by Hindalco Industries Limited (the Company)**

**Ref : Regulation 30 of Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements)Regulation, 2015 (Listing Regulations)**

**Dear Sir/Madam,**

Pursuant to Regulation 30 of Listing Regulations, please find attached herewith copy of Investor Presentation on Sustainability at Hindalco to be presented at The Ambit Capital-India Access Virtual ESG Conference 2021 by the Company's representatives on 23<sup>rd</sup> June, 2021 followed by the Questions & Answers session on the said presentation.

This copy of this presentation will also be available on the Company's website: [www.hindalco.com/investors](http://www.hindalco.com/investors).

For **Hindalco Industries Limited**

**Anil Malik**  
**President & Company Secretary**

**Encl: As above**

**Hindalco Industries Limited**

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T:+91 22 66626666/62610555 | F:+912262610400/62610500 | W: [www.hindalco.com](http://www.hindalco.com)  
Registered Office : Ahura Centre, 1<sup>st</sup> Floor, B wing, Mahakali Caves Road, Andheri (East), Mumbai – 400093, India

Corporate ID No: L27020MH1958PLC011238



# Hindalco Industries Limited



## Presentation on Sustainability @Hindalco at Ambit India Access Virtual ESG Conference 2021

*Presented by :*

*Ms. Deeksha Vats, Chief Sustainability Officer, Aditya Birla Group*

*Ms. Vaishali Surawar, Chief Sustainability Officer, Hindalco Industries*

**23<sup>rd</sup> June 2021**

**Greener, Stronger, Smarter**

1. Aditya Birla Group Sustainable Business Model
2. Hindalco's Sustainable Business Strategy, Actions & Performance
3. Hindalco's Approach To Governance
4. Environmental Stewardship: Approach, Examples
5. Hindalco's People Focus: Approach, Examples

# **Determining Ability to Sustain - ABG Businesses**

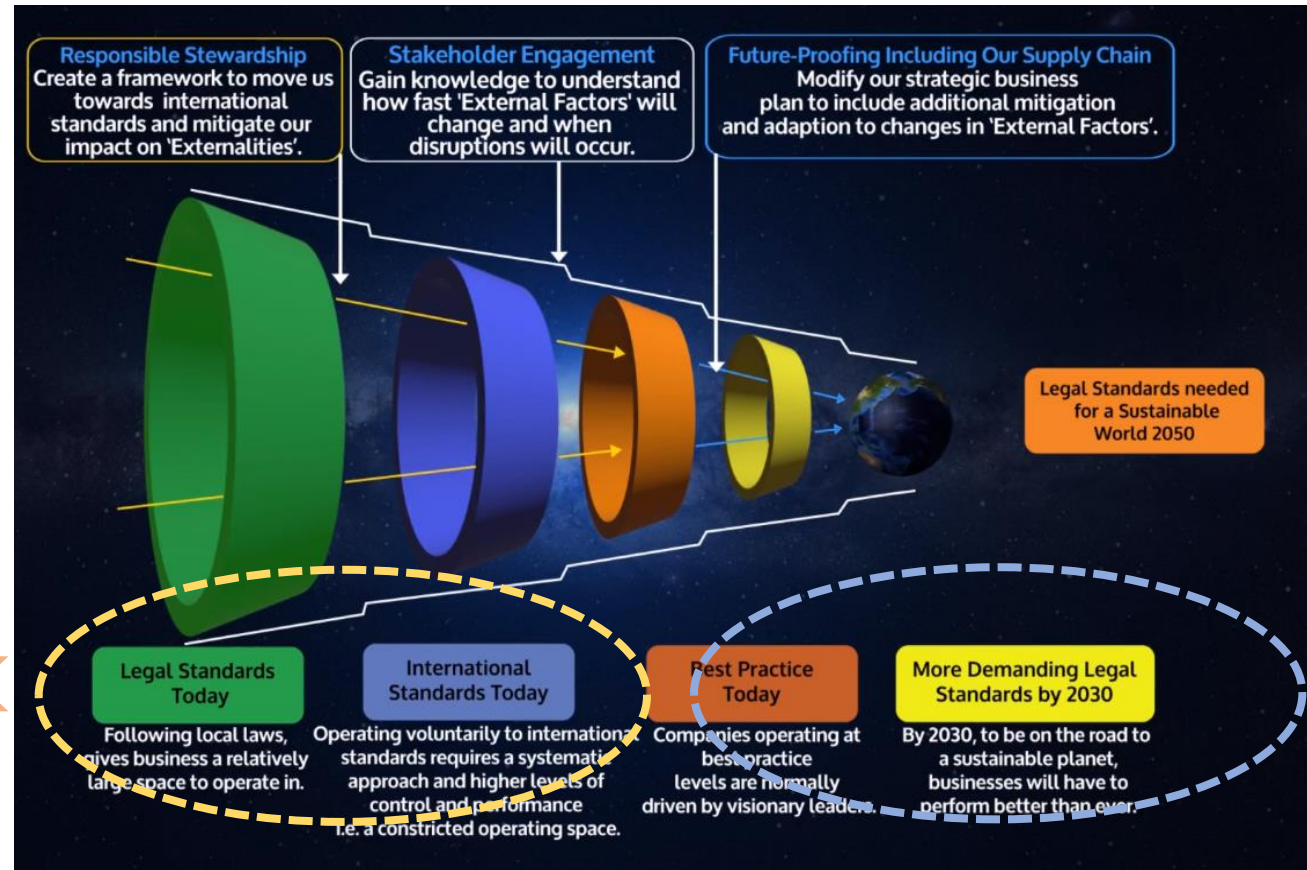
## *Sustainable Business Model and Framework*

# Using 4-Dimensional Approach to Navigate ABG Sustainable Business Model

- Dimension 1: Industry sector of operation
- Dimension 2: Geography of operation
- Dimension 3: Value chain approach to include key stakeholders
- Dimension 4: Time horizon

**Operational aspects from:**

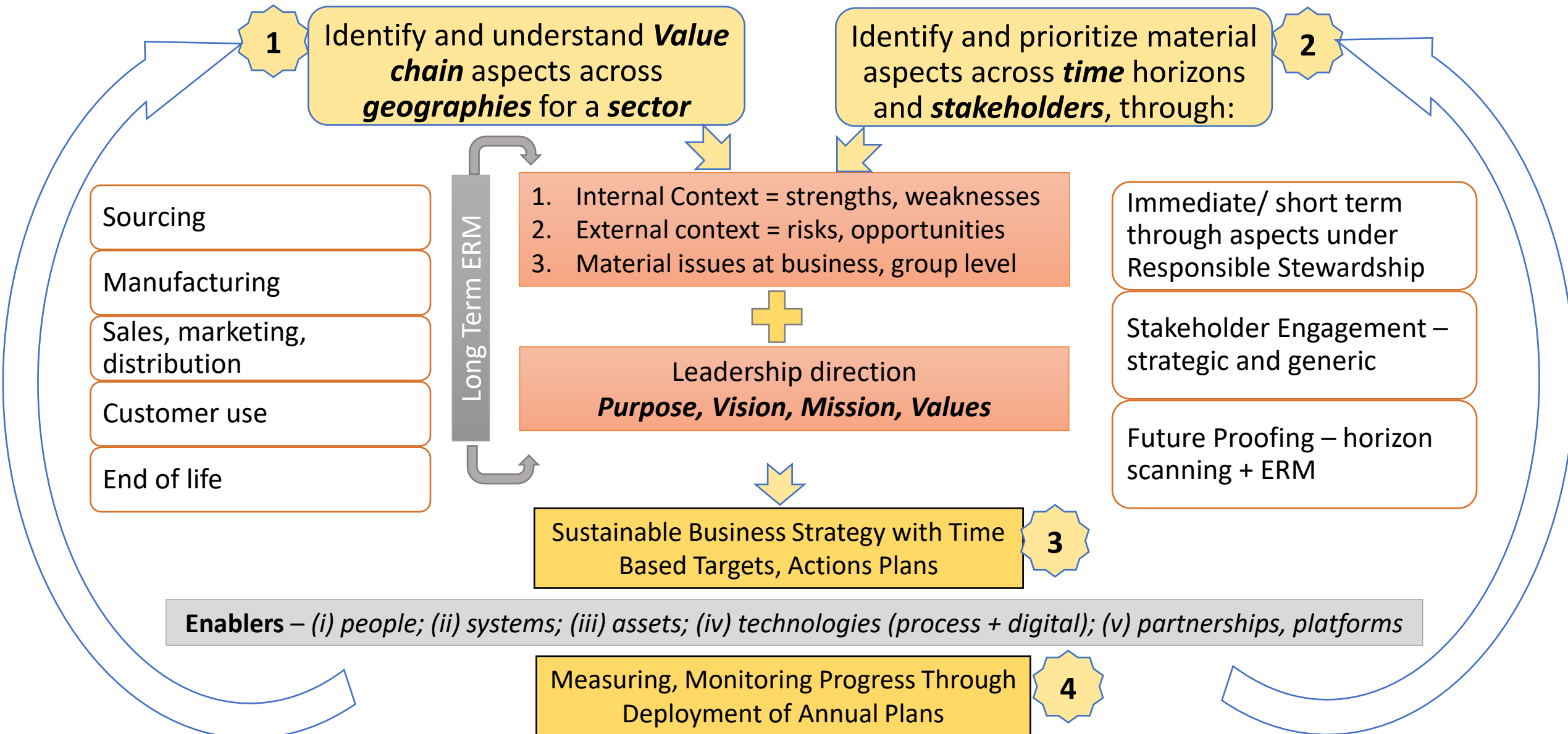
- legal compliance (now/ future),
- best practices
- select stakeholder requirements
- immediate/ short-term
- Linked to “responsible stewardship”



**Strategic aspects from:**

- Strategic stakeholder engagement
- Future proofing exercises – horizon scanning, risk assessments
- Includes ENABLERS to implementation – Governance, People, Technology

# Four Steps Towards Transition to Sustainable Businesses



# Aditya Birla Group - Sustainability Policies and Standards

## Responsible Stewardship

## Stakeholder Engagement

## Future Proofing

### Technical, Management Standards Focus Area

- Air
- Biodiversity
- Contaminated sites
- Energy and carbon
- Health
- Human rights
- Noise
- Product stewardship
- Resource Conservation
- Safety
- Security
- Supplier and Contractor
- Transport
- Waste
- Water
- Stakeholders
- Acquisition and joint venture
- Project development
- Crisis management
- ESIA

### Group Policies

- Environmental policy
- Energy and Carbon Policy
- Water stewardship policy
- Biodiversity policy
- Health policy
- Safety policy
- Security policy
- Product stewardship policy
- Supply chain and procurement policy
- Wood fiber sourcing policy
- Transportation policy
- Human rights policy
- Stakeholder Engagement policy
- Future proofing policy
- Crisis management policy
- Quality policy
- Responsible care policy

# Implementation of ABG Policies, Standards

## Platform and tools:

ENABLON, SAQs on WASH, ENHESA, TSs

- ENABLON available across at businesses, sites
- SAQs filled at sites, scores then reviewed
- Excellent diagnostic and tracking tools



- Results published as heat maps along with list of findings
- SAQ findings to be action plans for change

## Expert help:

SMEs working with business teams

- Appropriate use of framework at a business and its various sites
- Projects, programmes, workshops
- Technologies, tools, networks



- Awareness building
- Expertise development in business
- Support on cross-business and business-specific topics

Aspect specific workshops

e-learnings

GiS Tool

Sustainability Conference

Pilot projects

Working Groups

Sustainability reports



# **Hindalco's Sustainable Business Strategy, Actions & Performance**



## Our Purpose ... Why it exists, why it does what it does ?

**WE MANUFACTURE MATERIALS THAT MAKE THE WORLD**

**GREENER**



**STRONGER**



**SMARTER**



# What Does Sustainability Mean To Hindalco?

It is about Hindalco's ability to sustain in wake of megatrends and stakeholder expectations

## RESILIENCE

### Resource Security

- Fully integrated aluminium business model providing support in low commodity cycle
- Long term supply contracts with miners assures uninterrupted supply of copper concentrate

### Balanced Product Portfolio

*(LME v/s Non-LME linked Businesses)*

- On a consolidated basis, ~80% EBITDA was non-LME Linked in FY21

### Strong Balance Sheet

- Consolidated Net Debt to EBITDA at 2.59x as on 31<sup>st</sup> Mar 2021, from its peak of 3.83x as on 30<sup>th</sup> June 2020, post Aleris acquisition.

## RELIABILITY

### Operations

- Operational excellence based of safety and Quality
- Digitalization to drive productivity

### Stakeholder Engagement

- Supplier Engagement
- Customer Centricity
- Employee Stewardship

### Product Stewardship

- Focus on downstream Value-Added Products
- Recycled Metal

## RESPONSIBILITY

### Environment Sustainability

- Environmental Stewardship
- Climate Change

### People

- Occupational Safety & Health

### Community

- Social Initiatives (CSR)

# Strong ESG Commitment

## E

### ENVIRONMENT

- Continued Emphasis On Recycled Content
- Net Carbon Neutrality By 2050
- Zero Waste To Landfill By 2030
- Water Positive By 2050
- No Net Loss On Biodiversity By 2050



## S

### SOCIAL

- Zero Harm-occupational Health And Safety
- Diversity And Inclusion
- Commitment To Community And Society Along With Creation Of Sustainable Livelihood
- Affirmation To Human Rights



## G

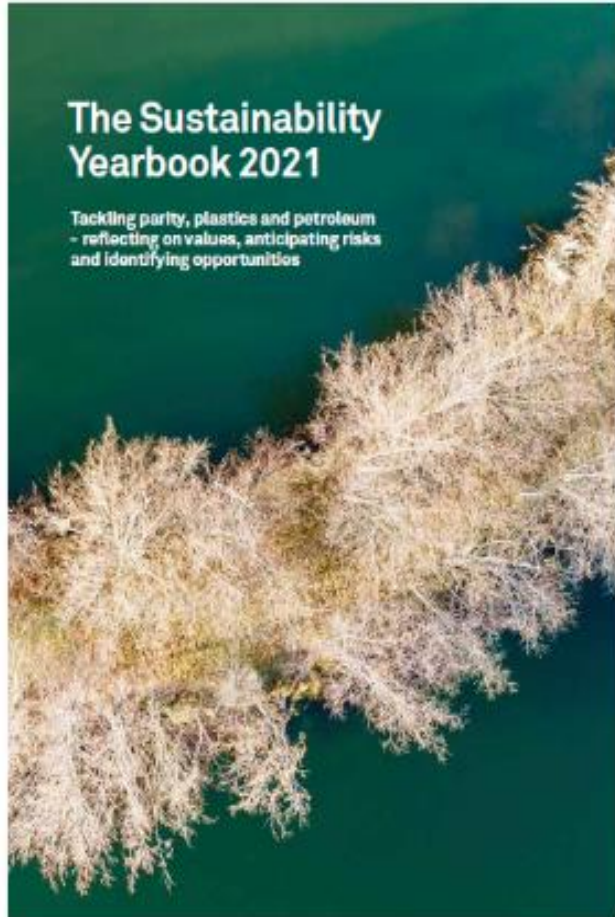
### GOVERNANCE

- Highest Level of Values And Transparency
- Strict Adherence of Code Of Conduct
- Best in class in Corporate Governance
- Highest Levels of Information Security/Cybersecurity
- Customer and Supplier centricity



# Hindalco in DJSI Year Book 2021

## Inclusion in DJSI Sustainability Year Book 2021



S&P Global

ROBECO  
The Quantitative Edge

Sustainability Leaders 2021	
<b>S&amp;P Global Gold Class</b>	
<b>Hindalco Industries Limited*</b>	<b>India</b>
<b>S&amp;P Global Bronze Class</b>	
Alcoa Corporation	United States
Norsk Hydro ASA	Norway
Industry Statistics	
Number of companies assessed	13
Market capitalization of assessed companies (in USD Billion)	51.4
Number of companies in yearbook	3
Market capitalization of companies in yearbook (in USD Billion)	18.8

\* S&P Global Industry Mover

# Environmental Stewardship: Approach, Examples

# Net Carbon Neutrality By 2050 – 3 Key Decarbonization Levers

## PROS

- **Aluminium is infinitely recyclable**
- Life cycle of an aluminium product is a renewable "cradle-to-cradle"
- 95% less energy to recycle aluminium than to produce primary metal
- Light-weighting of transport offering reduction in vehicular GHG emissions
- Replace plastic packaging for food, pharmaceuticals

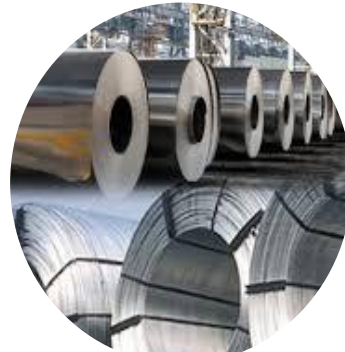
## CONS

- Aluminium smelting is energy intensive (Al<sub>2</sub>O<sub>3</sub> bond to be broken)
- Process GHG emissions - PFCs + use of carbon as anode
- Need for continuous, reliable power – traditional use of fossil fuels in India

## Hindalco's 3 decarbonization levers as a Corporate



1. Focus on energy efficiency & clean energy

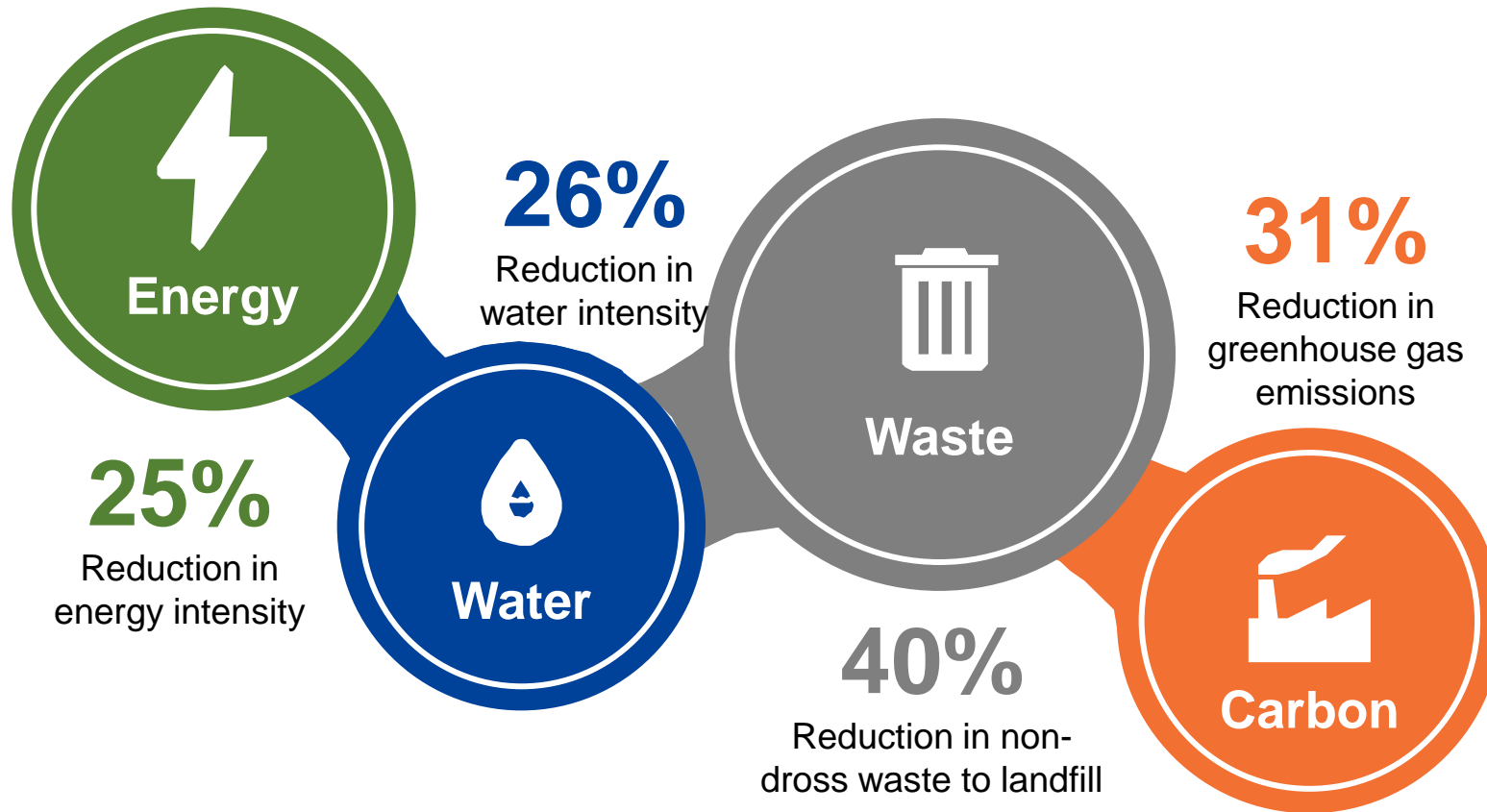


2. Grow in downstream with increase in recycled content

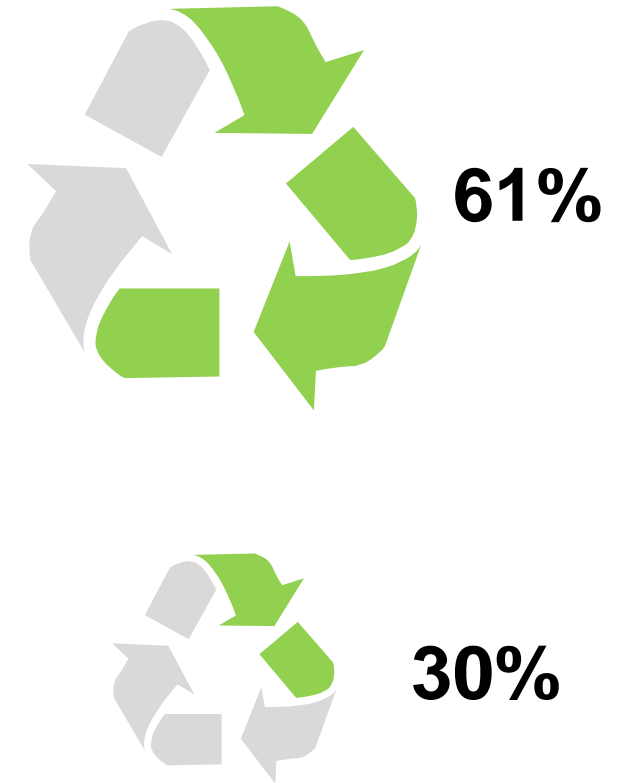


3. Product Stewardship, Supply Chain Action e.g. More use of Aluminium in Automotive

# Lever 2: Novelis' Progress Since FY 2007



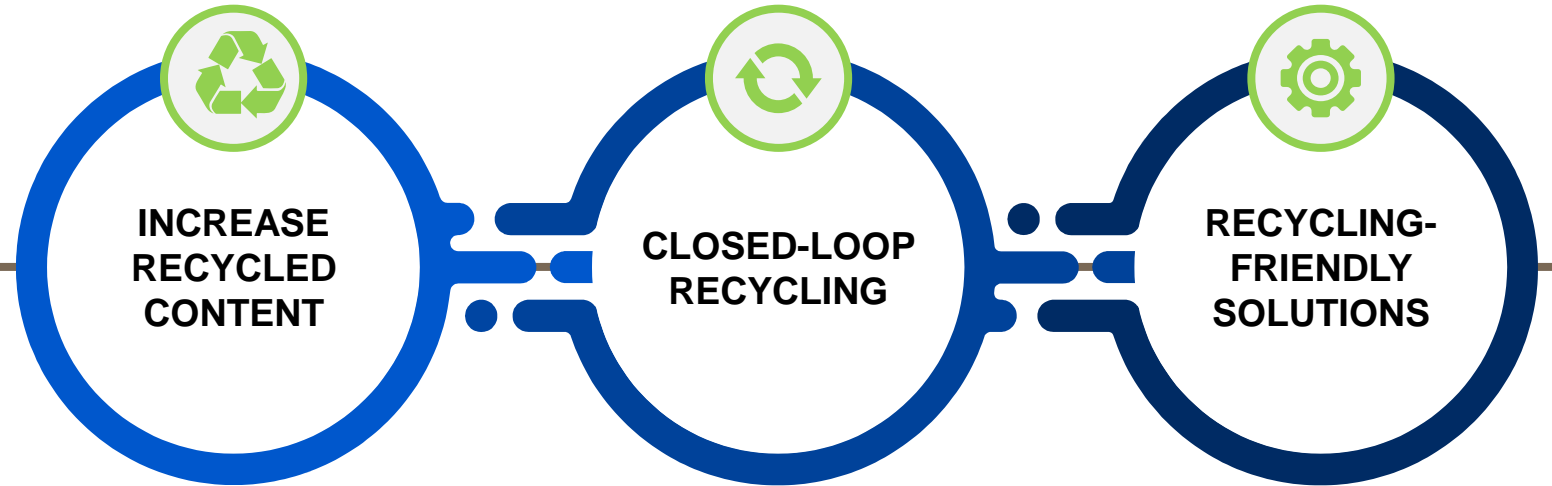
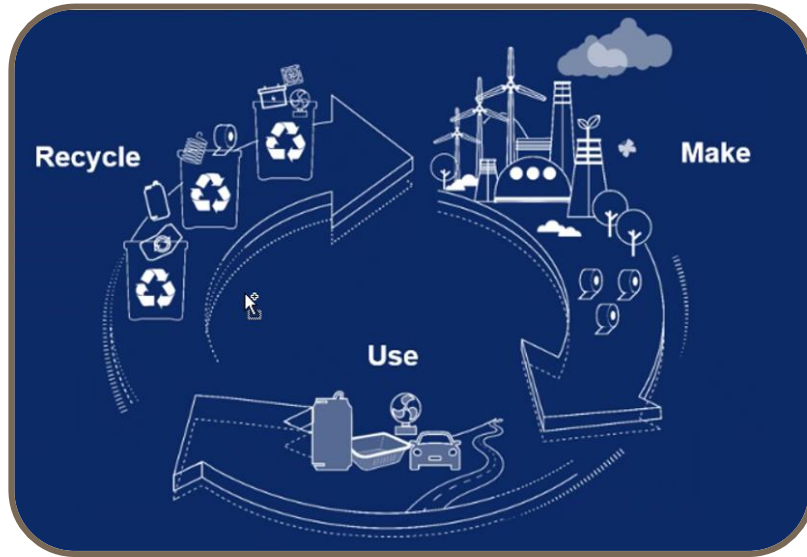
## Recycled Content Evolution



Legacy Novelis plants progress, FY21 (including Aleris) vs baseline (average FY2007-09)

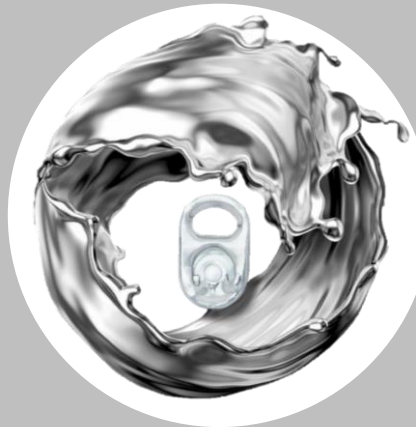


# Lever 2: Continued Emphasis On Recycled Content – Novelis' Progress



- 75% of all aluminum ever produced is still in use today
- Invested approximately \$700 million since FY11 to grow total recycling capacity to approximately 2.5 million tonnes
- Identifying additional recycling and casting investments over next five years to improve recycling content and increase casting capacity

**Novelis recycles more than 74 billion cans annually  
Back on the shelf in 60 days**



**Closed loop recycling produces equivalent of 30,000 F-150 truck bodies entirely from scrap each month**

# Lever 1: Renewable Energy

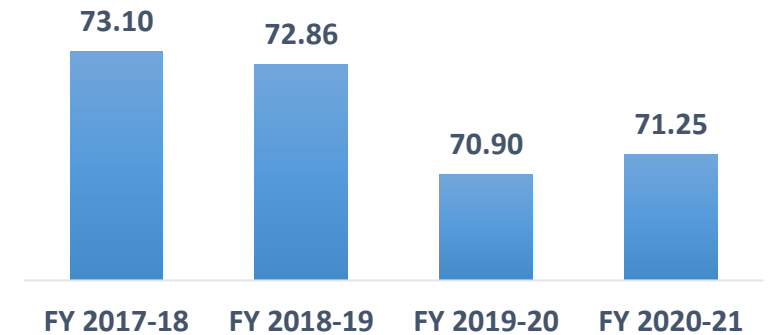
Additional 2.3 MW Solar was commissioned in Alupuram, Kerala unit in Sep'20 taking the total Renewable capacity of Hindalco to 49 MW, in line with our target of 100 MW by FY22

Statutory approval process has been initiated for Solar projects at four location totaling 42 MW

20 MW Renewable Hybrid with storage project with potential of supplying RTC (round the clock) power is under active consideration for Dahej, Gujarat unit

Converting Oil fired furnaces with Natural Gas to reduce Carbon footprint at Dahej, Hirakud, Aditya

**Energy Intensity - Aluminium (GJ/MT)**



# Lever 3: Product Stewardship for Lowering Carbon Footprint



**Aluminium  
Railway Wagon**



**Aluminium  
Trailer**



**Aluminium  
Bulker**



**Aluminium  
Bus**



**Aluminium Foil-  
Laminated Jute Bags**



**Aluminium LPG  
Cylinder**



## Sustainable transportation and logistics

India's first lightweight aluminium trailer and bulker which helps transporters to save

- Fuel up to 15,000 litres/ trailer and 12000 litres/ bulker
- CO2 emissions  $\approx$  38 tCO2/ trailer and 30tCO2/ bulker

### Aluminium Bus savings:

- Fuel upto 18,000 litres/ AI bus
- CO2 emissions  $\approx$  45 tCO2 / AI bus

## Sustainable packaging

A combination of aluminium and jute bags, for food items is a big step towards SUP (Single use Plastic) free INDIA



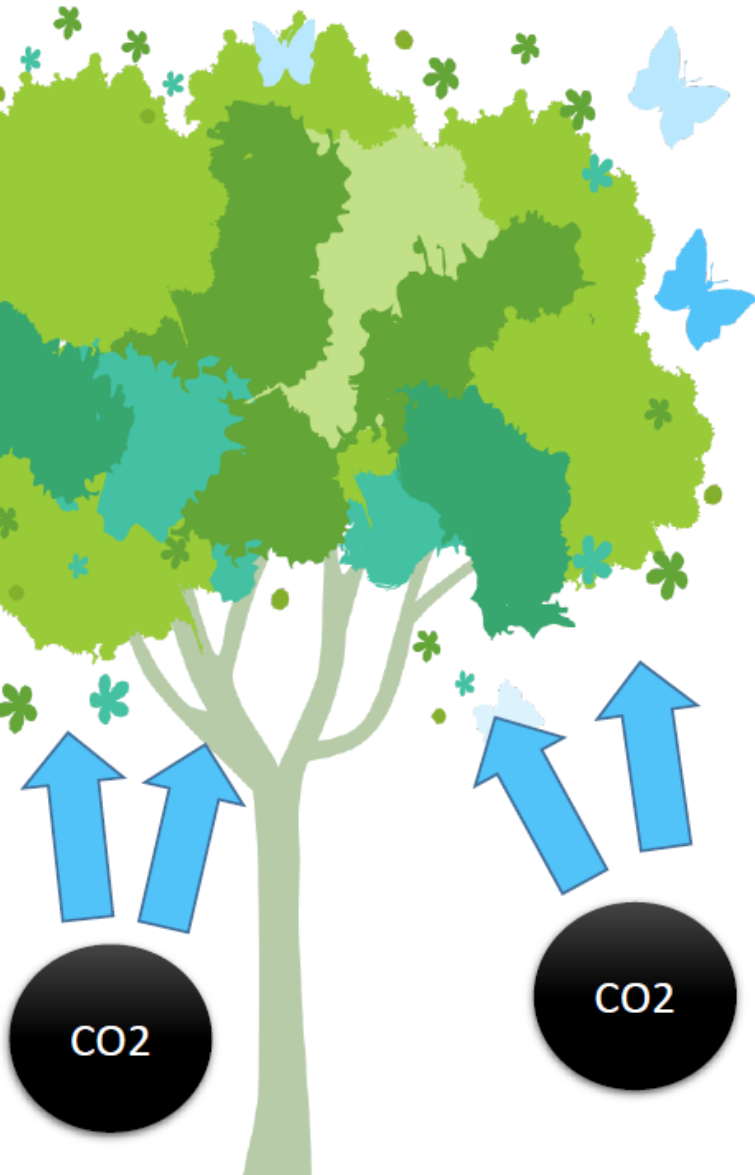
## Sustainable Aluminium Packaging / Vehicles / Building & Industrial Materials / EV Battery Boxes

An **aluminum-intensive** vehicle can achieve up to a 20% reduction in total life cycle energy consumption and up to a 17% reduction in CO2 emissions  
(Source: Aluminum Transportation Group)

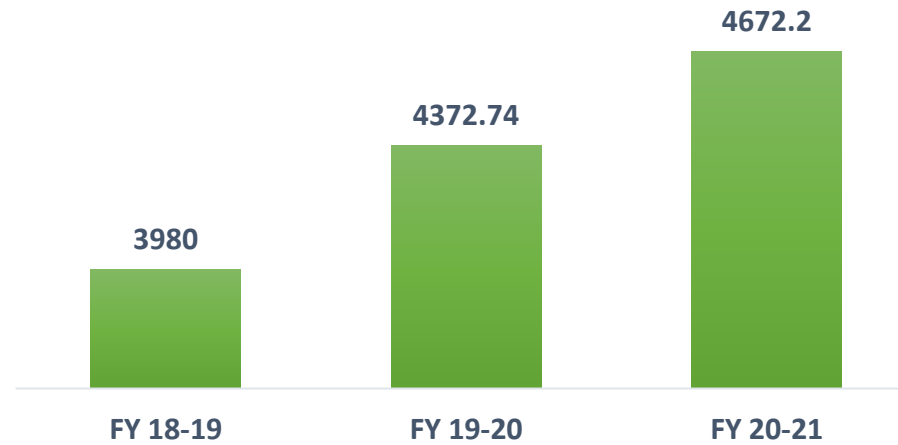
**Aluminium battery enclosures** are up to 50% lighter than an equivalent steel design and extends vehicle range up to 10% further on a single charge



# Biodiversity – NNL by 2050, Green Cover for CO2 sequestration



## Green Cover (Acres)



Cumulative Green Cover = Carbon Sequestration

**4 Biodiversity Management Plans** developed alongside IUCN for scientific rehabilitation of flora and fauna at Utkal, Baphlimali, Aditya & GarePalma sites.

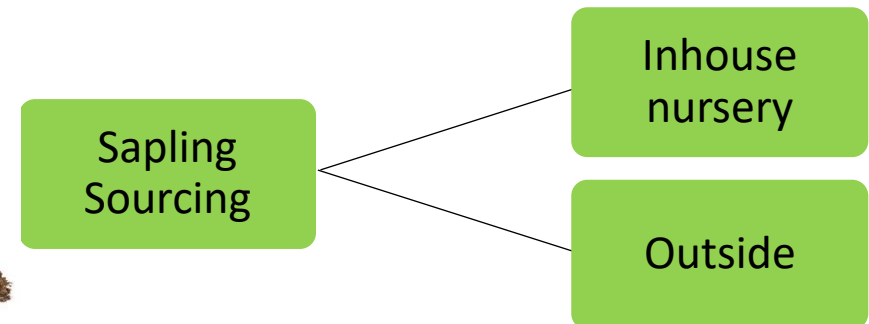
- ~**2855.29 T** of CO2 Sequestration potential per annum from our manufacturing locations.
- Over **6.8% YOY growth** in Green cover from FY20.
- Upwards of **31 lacs trees** within owned area.
- Additional value created by them for the society every year in terms of O2 production and CO2 sequestration.

# Biodiversity – NNL by 2050, Green Cover Planning

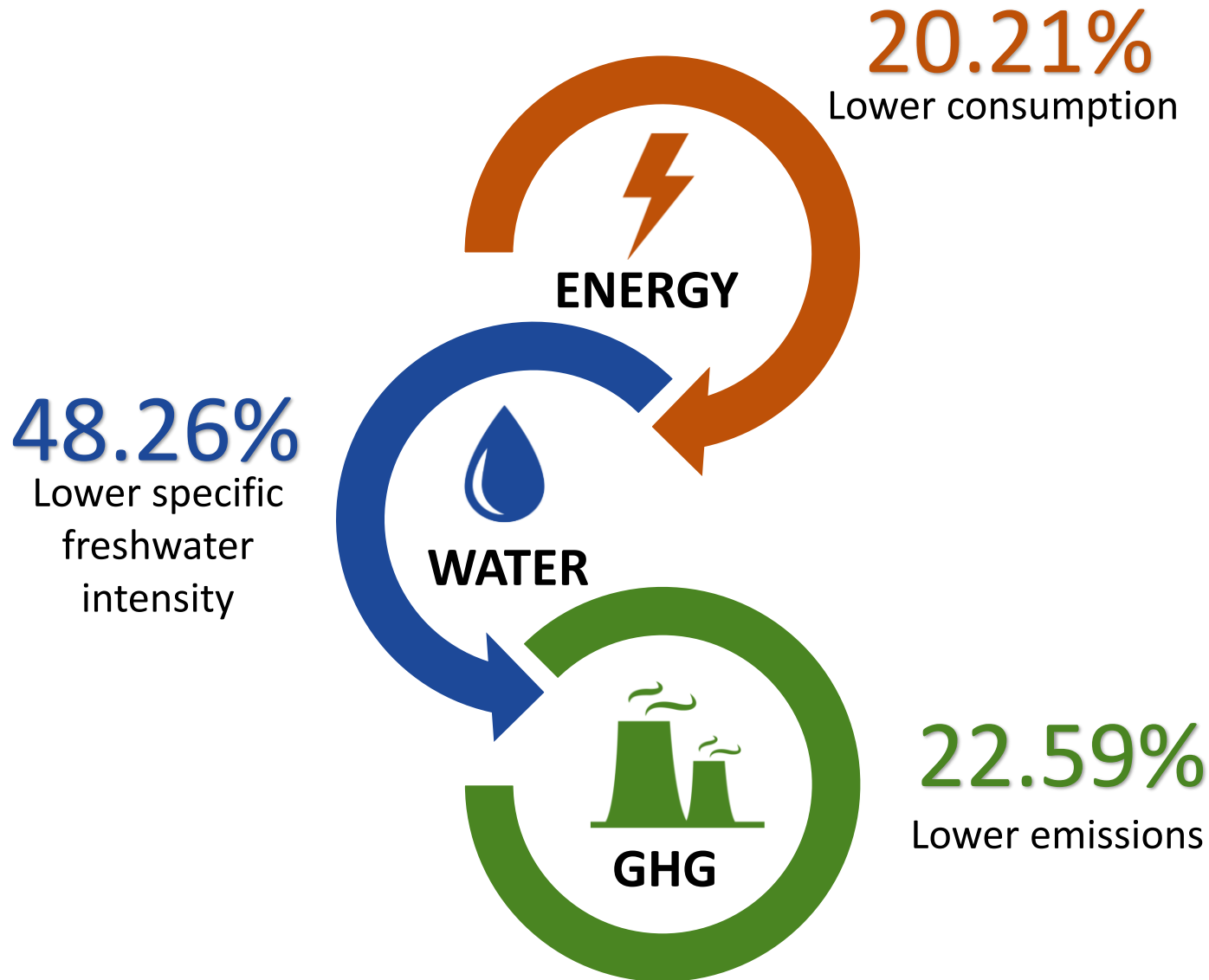
- Undertake the plantation planning for all Hindalco Plants (Non-BMP sites) – engaged experts
- Rolling the SoPs for plantation at all the sites.
- Standardising Green Belt Development
- Upgrading nurseries and sapling sourcing process
- Training and capacity building of staff on the gaps

## Key considerations in SOP:

- Species selection under tree, shrub, herbs and grasses for plantation
- Target identified green belt areas and proposed offset locations
- Avoiding Invasive/Exotic Species
- Immediate survival (after winters) and final survival (after 3 years)



# Hindalco's Progress from FY 2010-11 till FY 2020-21



## Waste Management



**Around 80% of our wastes\* go for recycling and reusing**

*\*Includes bulk wastes, hazardous and non-hazardous*

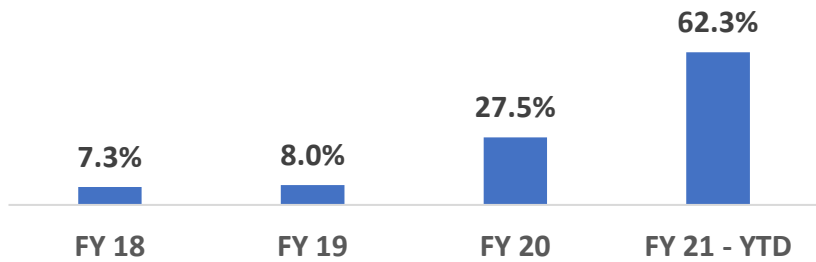
# Hindalco: Zero Waste To Landfill by 2050



## Bauxite Residue (Red Mud)

Generation – 4.07 MMT – FY21  
Utilization – 2.54 MMT – FY21

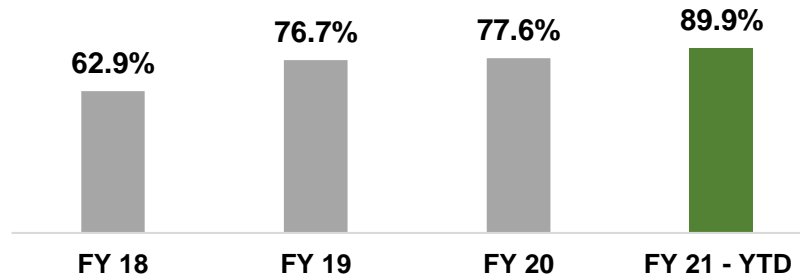
### Bauxite Residue (% Recycled)



## Fly Ash

Generation – 5.77 MMT - FY21  
FA gets Green Berth – Maximising dispatches through Rail

### Fly Ash (% Recycled)



## Hindalco – 3 sites Single Use Plastic (SUP) free



Currently 80% Of The Waste Generated Is Recycled/ Reused, Balance 20% Goes For Secured Landfill/Storages/Incineration  
**Targets To Reduce Landfill By 5% YoY**

# Leading Practices on Water @ Hindalco

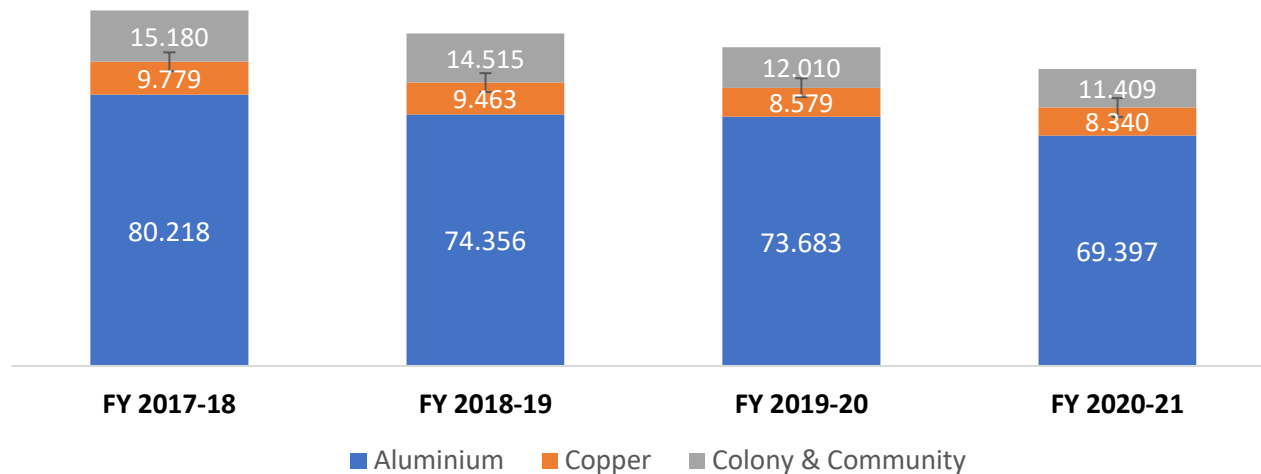
We have an overall 26,89,500 m<sup>3</sup> storage capacity near our plants.

Our Aluminium and copper operations have a recycled water share of 22.52% and 15.06% respectively.

Water task forces from Individual units take up Projects to improve water efficiency.

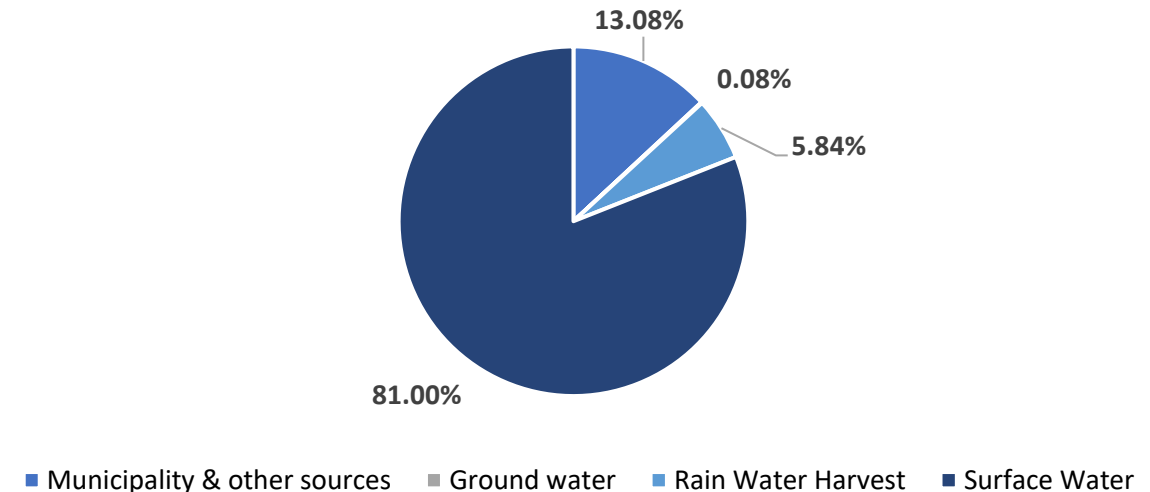
## Water Consumption

Water Consumption - Freshwater and Recycled water ( Million m<sup>3</sup>)



## Declining share of Ground water

Water Withdrawal from Source (%)

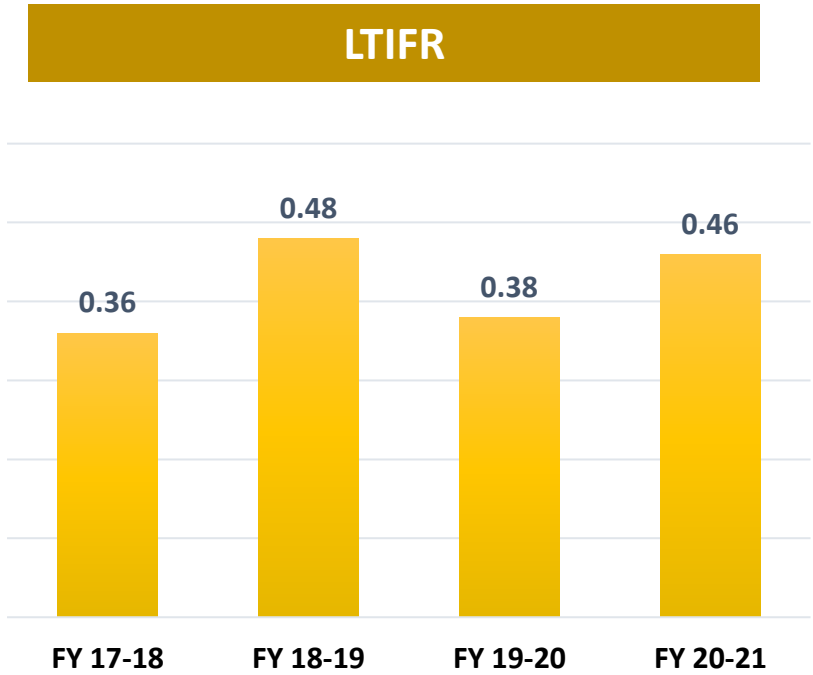




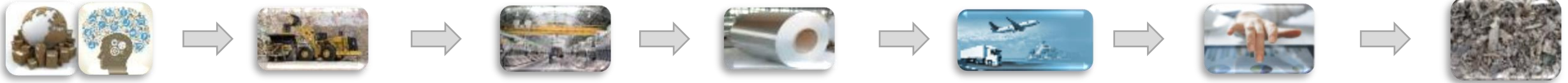
# Hindalco's People Focus: Approach, Examples

# Occupational Safety & Health

- Serious Injuries and Fatality prevention program implementation
- All Cat 5 & 4 Incident / Near Miss investigation using “TapRoot” Methodology and Software
- Corporate – Cross Entity Safety audit to bring in independent / outside perspectives in safety program.
- Mandatory Behaviour Based Safety Observations by all including senior leadership members.
- Digital Safety initiatives like VEDA, Confined space cleaning all across Hindalco



# Digital @ Hindalco Value chain



Sourcing  
Mfg Technology

Mining  
Coal and Bauxite  
Inbound logistics

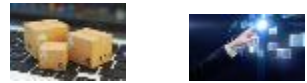
Refining  
Smelting

Down Stream  
FRP Extrusions Foils/Stocks  
Power Plants Chemicals

Outbound Logistics  
Multi Modal Transport

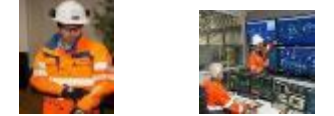
Sales and AS  
support

Recycling



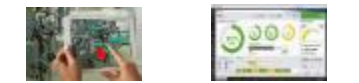
Digital / Smart Sourcing  
Tracking System

- Procure to Pay automation (Yellow)
- Spend Analytics (Yellow)
- Integrated planning and Inventory controls (Yellow)
- Real Time process simulators (Red)
- Digital Engineering and KM (Red)



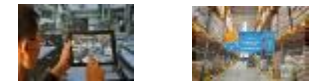
Safe Mines  
Digital Operations

- Connected workers (SAFETY) (Yellow)
- Fleet/Asset Management (Yellow)
- Predictive Maintenance (Yellow)
- Mines Operations RTD (Yellow)
- Coal Handling (Yellow)
  - Inside plant (Yellow)
  - From mines to plant (Yellow)



Autonomous Factory  
Connected Operations

- Connected Shop floor - RT Perf (Green)
- Connected Process (Green)
- Asset Predictive Maintenance (Green)
- Spares Management (Green)
- Connected workforce (Yellow)
- Digital Twin Smelting ,CPP (Green)
- AI/ AR/VR -Ops (Yellow)



Smart Operations  
Digital Warehouse

- Real time MIS, Costing, S&OP and SPC (Yellow)
- Automated material sorting and packaging (Red)
- Real Time Inventory visibility (Yellow)
- Real time RFID tracking of FG (Green)
- AI/ AR/ VR (Yellow)
- Block Chain (Yellow)



Multimode Tracking System

- GPS enabled transport tracking (Green)
- RFID enabled tracking of vehicles within factory (Green)
- App based multimode tracking of Logistics (Green)
- Block Chain and Smart contracting (Yellow)



Metal Ecommerce  
Agile NPD

- Mobile enabled end-to-end visibility (Yellow)
- Metal Ecomm (Red)
- Online Commit and Monitoring of OTIF, Quality, and Returns (Yellow)
- Insight based NPD (Yellow)
- Key Account Management (Yellow)
- NPS Management System (Yellow)



Connected Operations

- Connected Shop floor and Managers (Red)
- Connected Processes (Red)
- Asset Predictive Maintenance (Red)

● Early gains and scaling up    
 ● In progress    
 ● Yet to start

# Human Rights Policy

**Committed to respect the human rights of workforce and community around operations:**

- Maintaining positive legal compliance
- Due diligence process aimed to Identify, assess & manage human right risks
- Diversity & Equal opportunities
- Respect the rights of all workers
- Barring child labour, forced labour, discrimination & harassment
- Grievance resolving in timely and culturally appropriate manner
- Engagement with all stakeholders on human right concerns related to business activities
- Awareness on human rights



## HUMAN RIGHTS POLICY

Hindalco recognises the valuable role that our business can play in protection of human rights. We are committed to respect the human rights of our workforce and the communities around our operations.

Our commitment encompasses respecting human rights and seeking to avoid involvement in human rights violations, by identifying, assessing and minimising potential adverse impacts through due diligence and resolving issues & grievances of stakeholders effectively.

We endeavour to achieve our commitment by:

- Maintaining positive legal compliance to applicable regulatory human rights requirements in-line with Hindalco Management Framework (HMF).
- Undertaking an iterative due diligence process, aimed at identifying, assessing and managing potential human rights related risks and impacts in areas of our control.
- Aligning our existing processes and activities with our commitment to respect human rights, as applicable to areas including labour practices, engagement with indigenous peoples, in land acquisitions, supply chain and security management.
- Valuing diversity and equal opportunity.
- Preventing harmful conditions, human trafficking, child labour, forced labour, discrimination and harassment in our operations.
- Prohibiting any contribution to armed conflict or human rights abuses.
- Protecting the data confidentiality of employees and that of customers and suppliers.
- Promoting awareness of human rights among employees through training and communication.
- Providing access to remedy by resolving grievances in a timely and culturally appropriate manner.
- Prohibiting interference in any way with the establishment, functioning or administration of workers' organisations.
- Respect the right of all workers to form and join a trade union of their choice and participate in collective bargaining without fear of intimidation or reprisal, in accordance with national law.
- Engaging with stakeholders in an inclusive, transparent and culturally appropriate manner on human rights concerns related to our business activities.
- Influencing our contractors, suppliers and other organisations with whom Hindalco has a leverage to align with our commitment to human rights protection.

This policy shall be made available to all employees, suppliers, customers, community and other stakeholders, as appropriate.

Dated: 7<sup>th</sup> June 2021

Satish Pai  
Managing Director



# Respecting Rights - Actions at Hindalco Sites in COVID



## Our Resilience

### Pre Operations Planning

- Compliance Management under DMA
- Secure Permissions to run operations
- Establish - Standard Operating Procedures
- Steering, Taskforce Committees
- Securing Frontline staff with PPEs, Thermal Scanners, UV scanning, Sanitizers, Automated Hand wash system

### Operations Management

- Daily morning reviews with Senior Leadership Team
- Afternoon meets of Line manager with Leadership team
- Implementation of SOPs – Mock drills, Movement of Men, Material inside Units
- Daily Canteen Operations/ Food management
- Daily Employee Entry Management

<p>Aprx. 1.5 Lakhs masks issued</p>	<p>Thermal scanning across units</p>	<p>Sanitizers Aprx 4000 Litres</p>
<p>100% Compliance with Aarogya Setu App</p>	<p>Taskforce for crisis management</p>	<p>Pedal operated Sanitizers all units</p>
<p>Isolation centers at Unit/ Colony</p>	<p>Social Distancing at Units &amp; Offices</p>	<p>Liaison for permissions</p>

# Respecting rights - Actions around our Sites in COVID



**Isolation centres = 51**



**Awareness Camps: 930 in 322 villages**



**3.8 Lakhs masks distributed in 431 villages . 75% SHG**



**2466 Litres Handwash in 46 villages**



**6500 Sanitizers in 69 villages**



**Health Check up = 1984 people**



**People Quarantined = 3744**



**Leaflets – 29981 in 212 villages**



**Soap = 71175 in 254 villages**



**Bleaching powder = 7182 kgs**



**Fumigation = 44 villages**



**People Discharge**



**Thermal Scanners**



**PPE Kits**



**Sodium Hypochlorite = 11084 lit. in 69 villages**



**Grocery Kits = 29937 in 102 villages**

**Meals = 7571 in 29 villages**

# Community Engagement by Hindalco

## Key focus areas in CSR activities



- **Education:** Girl child education, Digital literacy
- **Health and family welfare:** Awareness and prevention camps
- **Sustainable development & livelihood**
- **Water & Sanitation**
- **Rural infrastructure development**
- **Social reform:** Culture & Sports and women empowerment

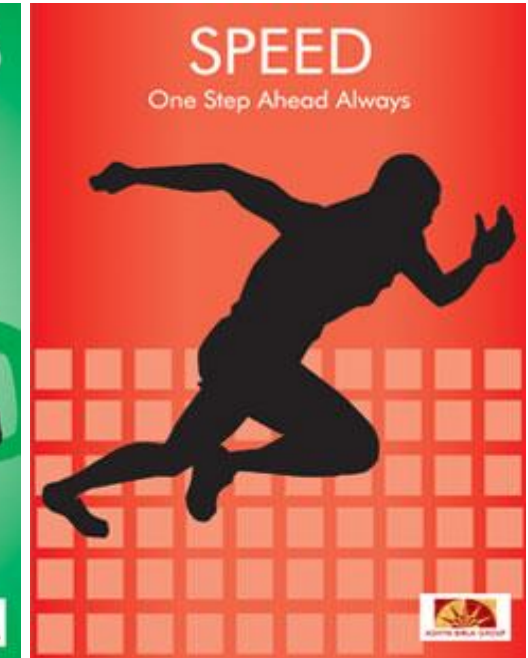
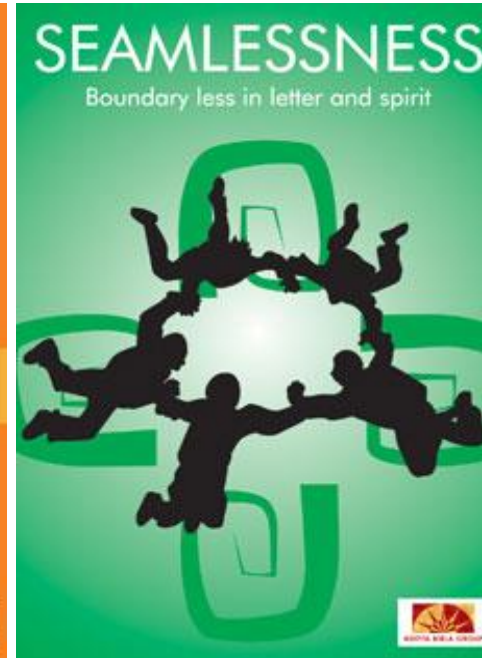
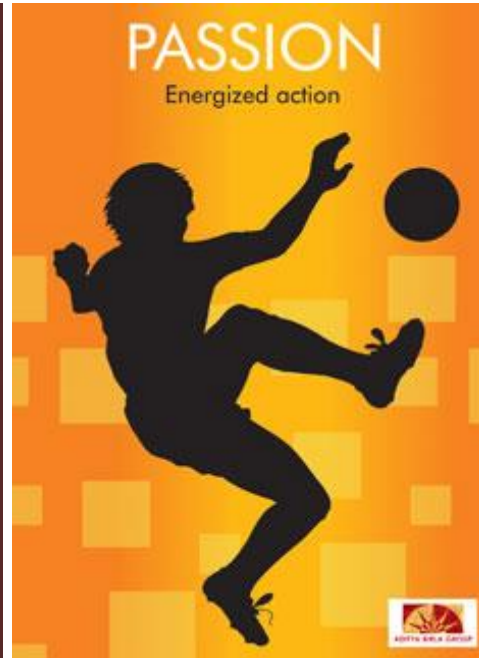
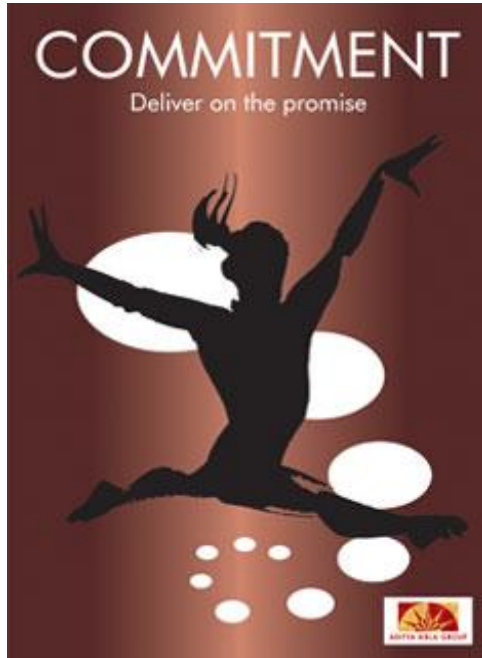
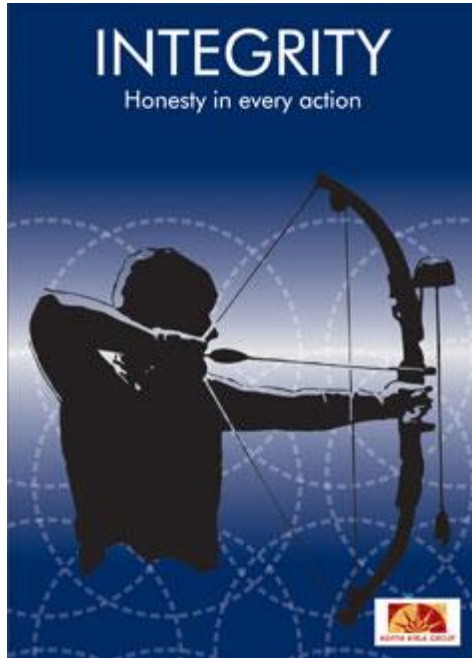
## Social Vision is integrated into Business Vision

- 01 All projects are identified in consultation with the community in a participatory manner. Baseline and other need assessment results are discussed with the community and consensually the projects are prioritized and the Annual plan is prepared accordingly.
- 02 Our focus areas are Education, Health care, Sustainable livelihood, Infrastructure development, and espousing social causes.
- 03 Collaborative partnerships are formed with the Government, the village panchayats & communities, NGOs and other like-minded stakeholders.
- 04 Our Policy is in line with the Schedule VII of the companies Act, 2013

# Hindalco's Approach To Governance



# ABG and Hindalco Values



Acting and making decisions in a manner that is fair and honest. Following the highest standards of professionalism and being recognized for doing so.

On the foundation of Integrity, doing all that is needed to deliver value to all stakeholders.

An energetic, intuitive zeal that arises from emotional engagement with the organization that makes work joyful and inspires each one to give his or her best.

Thinking and working together across functional groups, hierarchies, businesses and geographies.

Responding to internal and external customers with a sense of urgency.

# Hindalco Code of Conduct

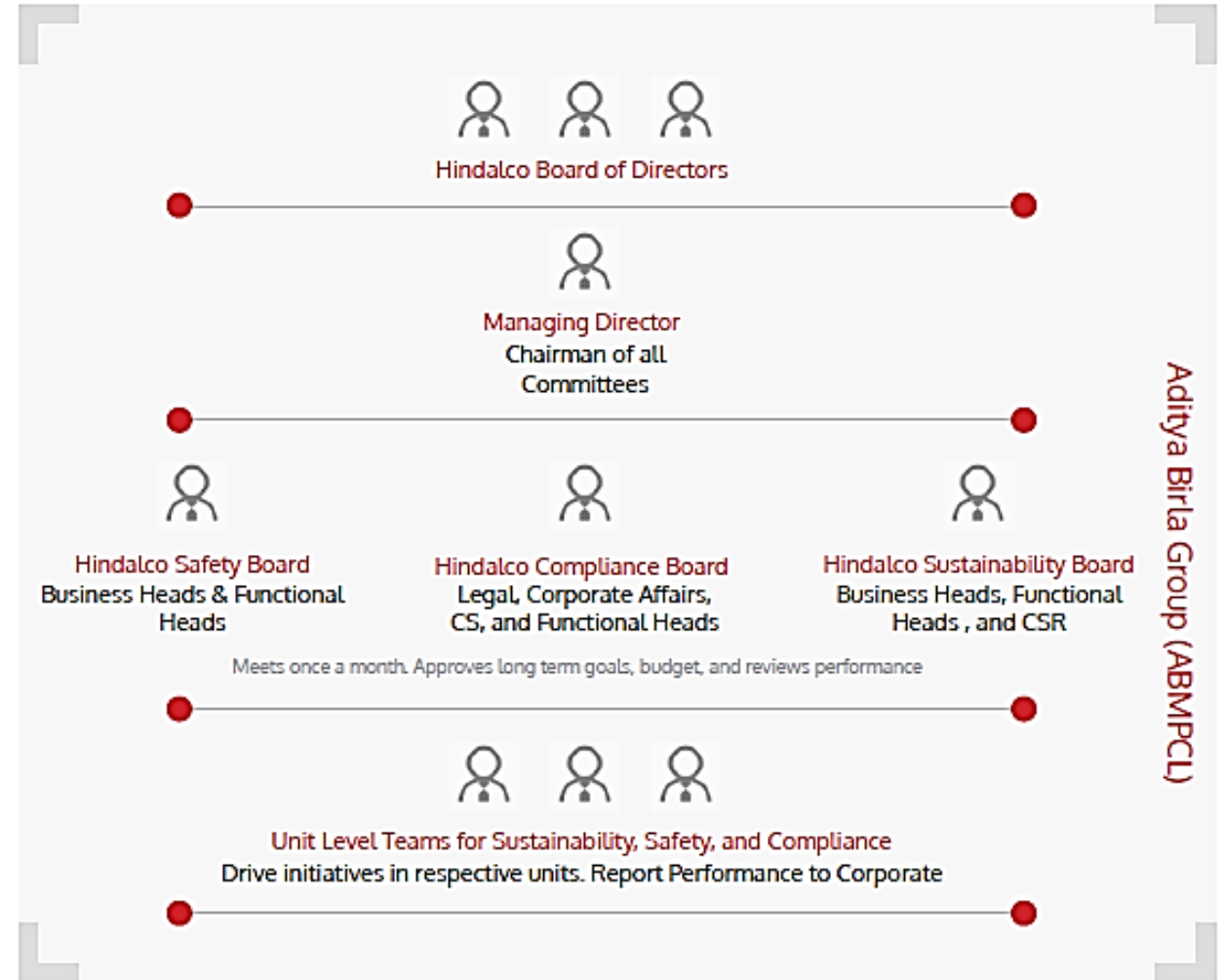
- Available on Hindalco's website: <http://hindalco.com/Investor-centre/Governance/Code-of-conduct>
- Framed and adopted by Hindalco in compliance with the provisions of Clause 49 of the Listing Agreements entered into by the Company with the Stock Exchanges.
- The Code applies to the Members of Board of Directors and Members of the Senior Management Team of the Company one level below the Board Members, viz. Manager & CEO, CFO and all Unit Heads, Presidents, Joint Presidents and all other executives having similar or equivalent rank in the Company and the Company Secretary of the Company
- The Company Secretary is the Compliance Officer for the purpose of this Code.
- The Code is effective from 1st January, 2006. The Board of Directors at its meeting held on 14th August, 2014 amended the Code to include point no.12 in Clause 3 being reference to duties of independent directors as set out in the Companies Act, 2013 read with the Schedules and Rules thereunder.
- Also covers:
  - Code Of Practice And Procedures For Fair Disclosure Of Unpublished Price Sensitive Information
  - Vigil Mechanism: [http://hindalco.com/upload/pdf/Vigil\\_Mechanism.pdf](http://hindalco.com/upload/pdf/Vigil_Mechanism.pdf)

# Governance and Compliance

## As per Governance and Compliance Policy of the Company,

Governance and Compliance shall take place at three interlinked levels, namely:

1. Strategic supervision by the Board of Directors
2. Strategic Management by the Corporate Management Committees
3. Executive Management by the Units and Functional Heads

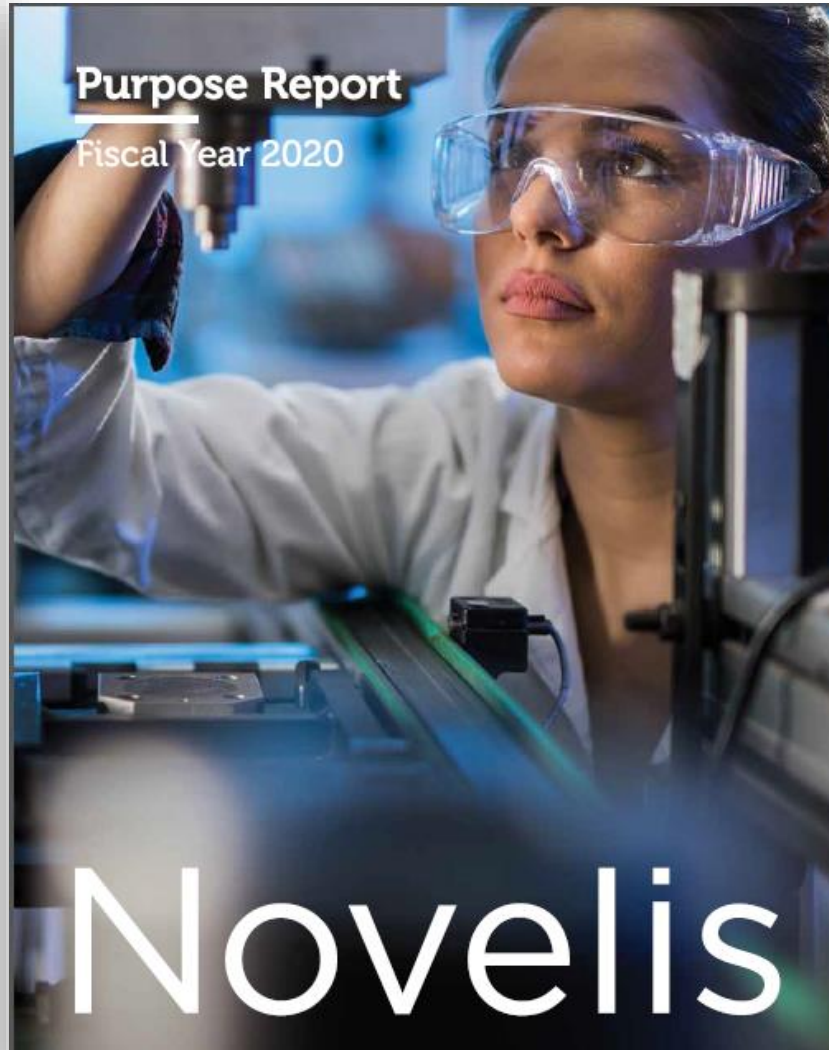




Building a Resilient, Responsible  
and Reliable Future



Sustainability Report FY 2019-20



# Thank you

### **Corporate office**

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*Pandurang Budhkar Road*

*Worli, Mumbai - 400 030*

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