

July 6, 2021

The Secretary, Listing Department BSE Limited Phiroze Jeejeebhoy Towers, Dalal Street, Mumbai - 400 001, Maharashtra, India. Scrip Code: **500470/890144*** The Manager, Listing Department
National Stock Exchange of India Limited
Exchange Plaza, 5th Floor, Plot No. C/1,
G Block, Bandra-Kurla Complex, Bandra (E),
Mumbai - 400 051, Maharashtra, India.
Symbol: TATASTEEL/TATASTLPP*

Dear Madam, Sirs,

Sub: Submission of Presentation to be made to Analysts/Investors

Please find enclosed herewith the presentation to be made to Analysts/Investors at the Investor Day of Tata Steel Limited scheduled to be held on July 6, 2021.

This presentation is being submitted in compliance with Regulation 30(6) of the SEBI (Listing Obligations and Disclosure Requirements), Regulations, 2015.

This is for your information and records.

Yours faithfully,

amainellan

Tata Steel Limited

Parvatheesam Kanchinadham

Company Secretary & Chief Legal Officer (Corporate & Compliance)

Encl: As above

*Securities in scrip code 890144 and symbol TATASTLPP stand suspended from trading effective February 17, 2021

TATA STEEL LIMITED







INVESTOR DAY 2021

July 6, 2021

Resilient | Resolute | Future-ready





AGENDA

2:30pm-6:30pm IST



- 1 Strategic Roadmap 2030
- **2** Financial Strategy
- 3 Q&A Session I
- ----- Break (4:00pm-4:15pm IST) ------
- 4 Market Leadership and Future-fit Strategy
- 5 Our Approach to ESG
- 6 Technology and Innovation-led Transformation
- 7 Q&A Session II

Statements in this presentation describing the Company's performance may be "forward looking statements" within the meaning of applicable securities laws and regulations. Actual results may differ materially from those directly or indirectly expressed, inferred or implied. Important factors that could make a difference to the Company's operations include, among others, economic conditions affecting demand/supply and price conditions in the domestic and overseas markets in which the Company operates, changes in or due to the environment, Government regulations, laws, statutes, judicial pronouncements and/or other incidental factors.





- 1 Strategic Roadmap 2030
- 2 Financial Strategy
- 3 Q&A Session I

----- Break (4:00pm-4:15pm IST) -----

- 4 Market Leadership and Future-fit Strategy
- 5 Our Approach to ESG
- 6 Technology and Innovation-led Transformation
- 7 Q&A Session II



Mr. T V Narendran

CEO & Managing Director
Tata Steel

Tata Steel is focused on creating sustainable value

Safety remains our priority



TATA STEEL



Become Culturally future ready

Leadership in India





Sustainability is core to our business

Robust financial health

Employee well being has been our No. 1 priority during the pandemic

Sustained focus on safety: reduction in red risk incidents by 82% in last 3 years Successful integration of TSBSL & TSLP

Setup commercial mining business

GraphITI: one of the world's largest single site Graphene production plant set up in FY21

Net Debt/EBITDA <2.5 in FY21 end

Cumulative operational improvement savings of **Rs 21,400+ crores** over last 5 years in Tata Steel India

Structural interventions at **Tata Steel Europe**; **turns cash positive** in FY21

Circular business models
- established **0.5 MTPA**scrap recycling unit

Long term roadmap created for de-carbonization

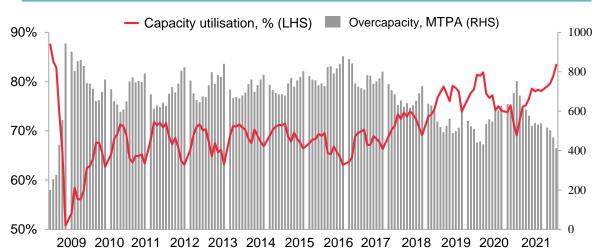
Only steel company with three assets¹ recognized as Global Lighthouses by WEF for adoption of 4th IR Technologies

Embedding a culture of Agility, Innovation, Digital & Technology leadership

Global Steel Industry witnessing structural changes: Steel prices to stabilize at higher levels than in the last decade



Capacity utilization is improving with closure of inefficient and polluting assets





China Net Exports and HRC Export Prices





Govt spending on infrastructure as response to slowdown, globally, will increase steel consumption



Growing de-carbonization focus, especially in Europe and China, will increase steel companies' cost of operations



Geopolitical events will continue to impact international raw material prices



India steel demand continues to be buoyant (expected grow by ~20% in CY21); supported by economic recovery, government spending and improved liquidity

Our strategies for success are informed by opportunities presented by megatrends

Urbanization

Increase in number of Megacities

Demographic Change

- Increasing population and the burgeoning youth population
- The Talent Cloud and their growing 'customer' like expectations

Climate Change

- Changing climatic patterns
- Decarbonization



Shifting Economic Power

- Rising economic disparities
- Shift in Global Economic Power from West to East

Technology

- Connected Living; Industry 4.0
- Evolving preferences of the hyper-connected consumers

Over this decade, Tata Steel aims to be the most respected and valuable steel company globally



Leadership in India: Most respected and preferred by discerning customers

- Increase capacity of India operations through organic and inorganic growth
- Attain and retain Leadership in chosen segments



Consolidate position as global cost leader

- Raw material self-sufficiency
- Cost improvement & value enhancement through structural interventions & continuous improvement



Attain leadership position in adjacent businesses

- Services and Solutions
- New Materials Business
- Commercial mining



Leadership in sustainability

- Benchmark in CO₂ emissions
- Benchmark in specific water consumption
- Value creation using Circular Economy business models



Best Place to work for in Manufacturing in India

Be the Digital Leader in steel industry globally

Top 5 in technology in steel industry globally

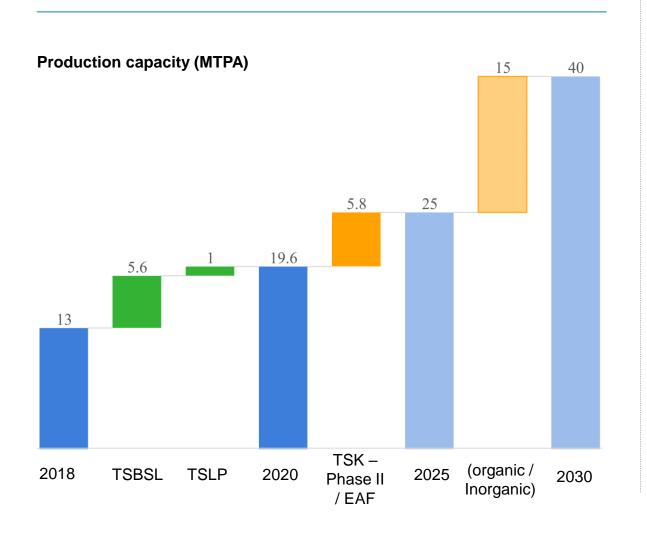
Fostering a future ready culture

Tata Steel's strategy is pivoted around capitalizing on India Growth Story...



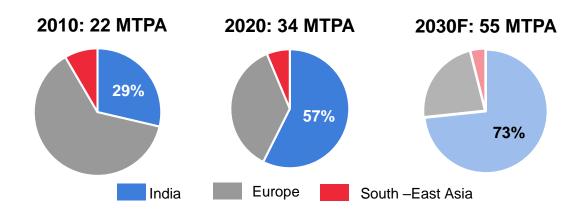


Targeting value accretive growth in India



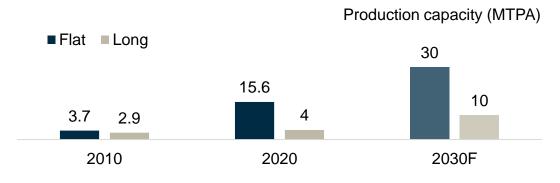


India to be the dominant manufacturing base for Tata Steel going forward





Optimizing product portfolio is a key target in India



... with a continued strong market presence





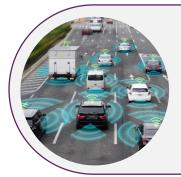
Attain and retain Leadership in chosen segments (current and new)

- Market share in 'Automotive' grew to 58% in FY21 from 50% in FY20
- High-end engineering segment grew by 46%YoY in FY21

Reinventing the route to connect, transact and engage with customers

- Connected platforms: Aashiyana (130% YoY growth to reach sales of Rs. 726 crores in FY21), COMPASS,
 DigECA and Sampoorna
- Synergy across the Group: Basera and Nexarc (Digital B2B platform & one-stop solution for emerging businesses)





Technology and knowledge intensive differentiation in marketplace

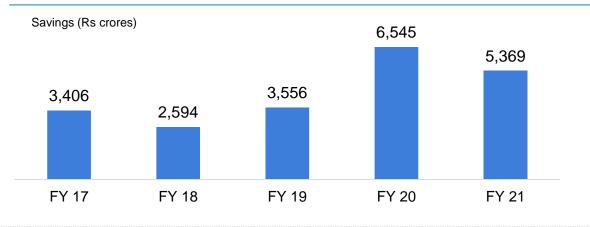
- Steel for future mobility and Ready-to-paint technology
- Graphene and Composites

Continuous structural and operational improvements key to achieve our financial goals





Savings of Rs 21,400+ crores over last 5 years through operation efficiency improvement in Tata Steel India



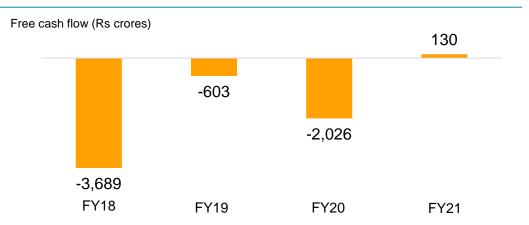
Interventions planned over the next 5 years



- Focus on augmenting raw material production capacity
- Strengthen logistics network and upstream of steel manufacturing
- Continue to focus on reducing fixed cost



Structural interventions has resulted in TSE becoming cash positive





- Continue with the ongoing transformation program in TSE
- Complete separation of UK & Netherlands operations to focus profit & loss accountability at geography level

We continue to focus and invest in capabilities to attain leadership position in Adjacent Businesses



Services & Solutions



Prayesh – Doors and windows

Nest-in – solutions for society

New Material Business







3 material verticals – composites, graphene & advanced ceramics

Focus on building an ecosystem of manufacturing and technology partners

Commercial Mining



3 chromite mines in Odisha

450 KTPA of ferro chrome production

Future growth engines - a) Chrome business, b) MDO business, c)
Strategic minerals play

Sustainability – a strategic imperative for a 'hard to abate' sector



Sustainability is now deeply embedded in Tata Steel ecosystem ...

Long term decarbonization roadmap created

Pursuing low carbon technologies

Circular Economy integrated as part of business model

Deploying Responsible Supply Chain Policy across value chain

Improving transparency and disclosures

...intent to demonstrate leadership position in sustainability over this decade Goals for 2025 Goals for 2030



TSI: Achieve <2 tCO₂ /tcs carbon emission

- TSI: Achieve <1.8 tCO₂ /tcs carbon emission
- TSE: 30% reduction in specific emissions over 2020



Water

TSI: Achieve specific freshwater consumption of 2 m³/tcs

- TSI: Achieve specific freshwater consumption of <1.5 m³/tcs, aim for water neutrality
- TSE: EU benchmark for water intensity



Achieve material efficiency of 99%

Build 5 MTPA recycling business



Develop and implement **Biodiversity Management** Plans for all operations

Aspire for no net loss of biodiversity

We aspire for leadership position in Technology and Digital



Infrastructure and enablers in place



- √ Focussed on leveraging external eco-system through outcome driven collaborations
- Monetisation of in-house IPs
- ✓ Building organizational capability on innovation
- 45% of the patents have been granted in last 5 years

Aspirations for this decade

- Deliver 'new to world' products and solutions
- Deploy new technologies at scale addressing sustainability
- Build industry leading technology management processes and capabilities



Top 5 in

technology in

steel industry

globally

- Data maturity is now close to process maturity
- Enabled unlocking and creation of value
- Platformization Connected assets, workforce and e-commerce platforms
- √ Adoption of 4th IR Technologies

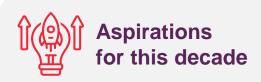
- Enable remote operations for key processes and operations
- Drive 65-70% of value creation through digital transformation initiatives by FY30
- Enterprise management through business platforms – enhancing stakeholder experience and ensuring global optima

Becoming culturally future ready will provide the platform for future value creation



Strengthening enablers for Future of 'Work', 'Workforce' and 'Workplace'





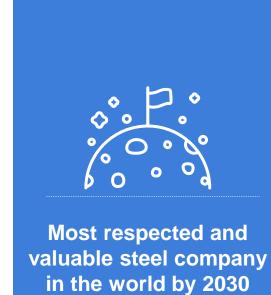
Culture of **safety** ingrained in the org - *Achieve* Zero Harm

Institutionalise culture of Agility & Breakthrough innovation

Technology and knowledge-based differentiation in whatever we do

Be Great Place to Work #1 in Manufacturing, Top 10 among all companies in India

We are on our way to build the Tata Steel of the Future





Strong, non-cyclical free cash flows driving best-in-class valuations



 Recognized as technology & innovation leader by customers, peers, employees, investors



• Leadership in sustainable practices: low carbon business model at scale



Customer obsessed organization with world class operational performance



Culture and values for the next generation



Global benchmark in corporate citizenship





- 1 Strategic Roadmap 2030
- **Financial Strategy**
- 3 Q&A Session I

----- Break (4:00pm-4:15pm IST) -----

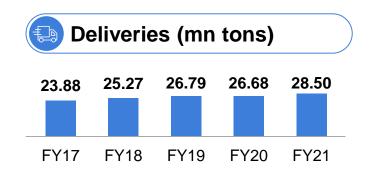
- 4 Market Leadership and Future-fit Strategy
 - 5 Our Approach to ESG
- 6 Technology and Innovation-led Transformation
- 7 Q&A Session II

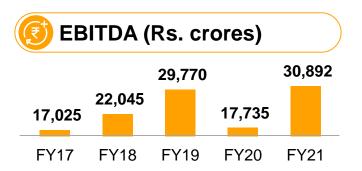


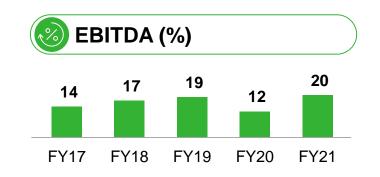
Mr. Koushik Chatterjee

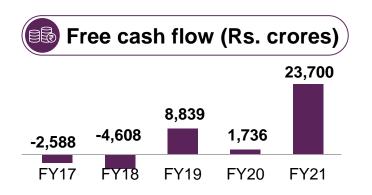
Executive Director & Chief Financial Officer
Tata Steel

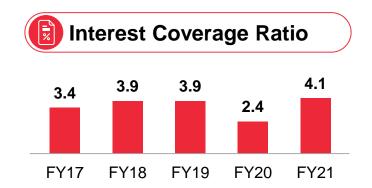
Recap of financial year 2021

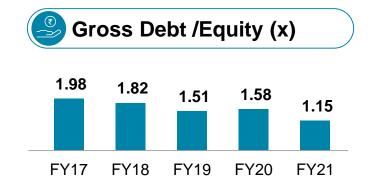


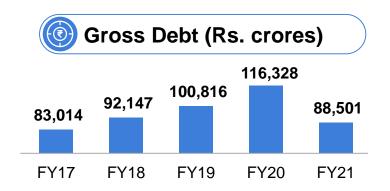


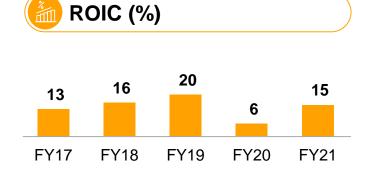




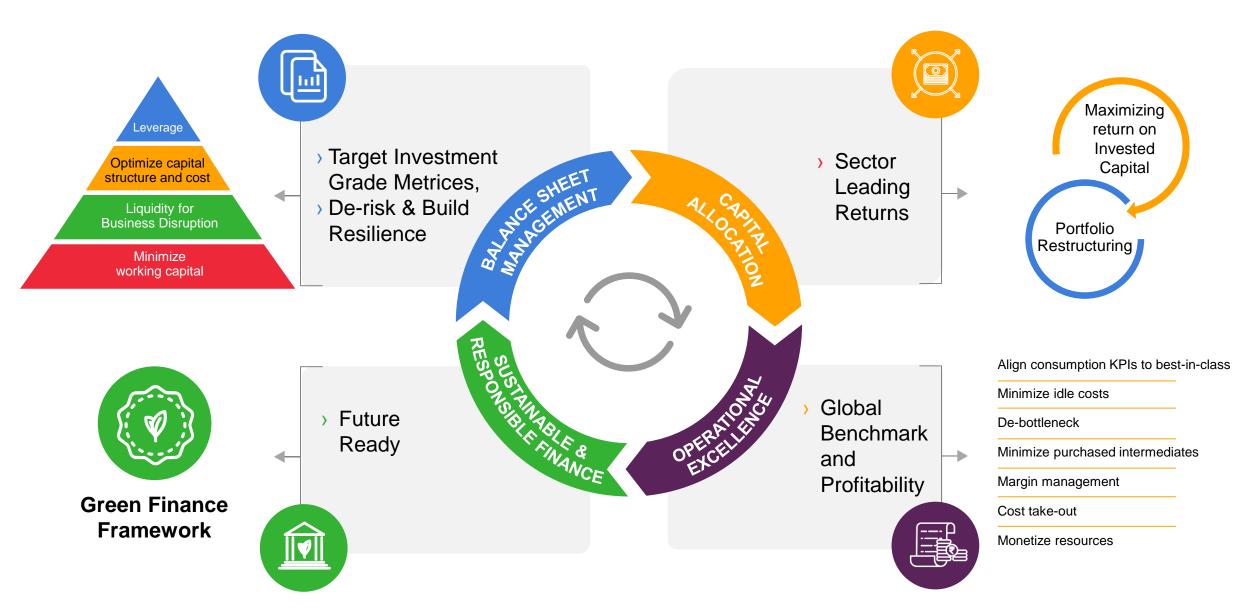








Pillars for Tata Steel's financial strategy



Balance sheet management – de-risked and resilient





Value Drivers



FY 20-21 Actions



FY 21-22 Priorities

Deleveraging	Net debt reduction by ~ US\$4 billion	> US\$2 billion gross debt reduction; prioritize off-shore debt pre-payment
Raising Equity	Called residual Partly paid amount ~Rs.3,000 crores	Not envisaged
Working capital Management	Cash release of ~ Rs.9,400 crores	Drive working capital management in upcycle
Capex Capex	~ Rs.7,000 crores	~ Rs.10,000 -12,000 crores

Capital allocation – focus on sector leading returns

Rs. 80,000 crores Spend over Last 5 years

Running the Business (Sustenance)

25%

Enhance Market Competitiveness Through Growth

70%

Working Responsibly (License to Operate)



Invest in New Business (Internal Start-ups)





82% of Investments in India is prioritised towards Growth



~ 65%

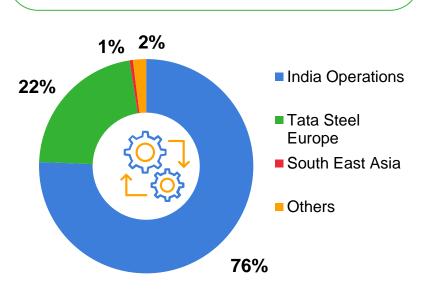
of Investments in Europe is towards Sustenance & Environment



12%

Carbon adjusted Project IRR threshold for capital allocation





₹

Future Investments Focus

India Steel Production

- Complete Kalinganagar expansion @ Rs.48,000/ton of Capex
- Invest in Raw Material Expansion @ Rs.2,600/ton to 50 MTPA of Iron Ore

New & Allied Business

- Electric arc furnace low carbon Steel
- Composites
- Graphene
- Medical Materials
- Services and Solutions
- Ferro chrome business

Downstream Portfolio in India

- Cold Rolling Mill From 4.3 MTPA to 6.5 MTPA
- Ductile Iron Pipes From 0.2 MTPA to 1 MTPA
- Tinplate From 0.4 MTPA to 1 MTPA
- > Tubes From 1.3 MTPA to 2 MTPA
- > Wires From 0.45 MTPA to 1 MTPA

Average India Capital Expenditure estimated @ Rs. 10,000- 12,000 crores per annum over next 5 years (excluding potential acquisitions)

Portfolio management





Clusterization of Indian Business

Optimisation of network and resources

> Common customer face

Improved financial management



Tata Steel BSL Merger

Integration

Cost Control

Synergies



Investing in New Growth Engines

New Materials

Steel Recycling & Electric Arc Furnace

Infrastructure and Logistics

Port Project



European **Business**

Separate UK & Netherlands

New organization and governance structures

Overhead and fixed costs reduction

Discussions with Governments on Decarbonization roadmap & Investment

> **Disciplined Capital** allocation



Simplification

100 entities liquidated/ merged over 2 year

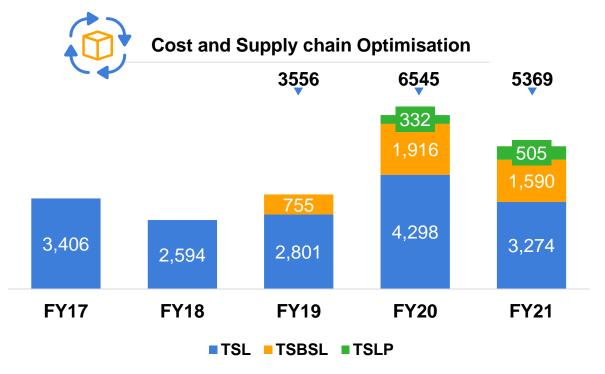
> Continuous Journey

Operational excellence through continuous improvement culture



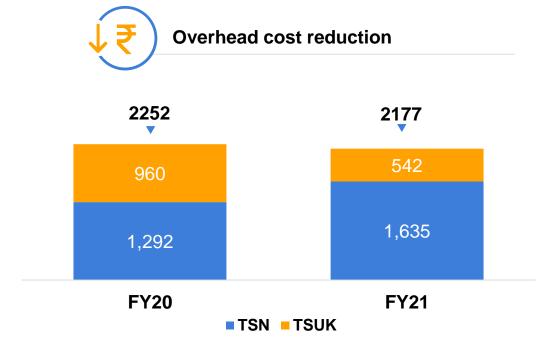
Figs in Rs. crores





FY2022 Target:
Fixed cost reduction of ~Rs.2,000 crores

Transformation programme at Tata Steel Europe



FY2022 Target: Fixed cost reduction of ~£200 mn

Target to reduce India operation fixed Cost by ~10 % over the medium term

Building blocks of sustainable and responsible finance



	Strategic Alignment	 Transition to Low carbon business with pathway milestones
₹	Climate aligned Capital Allocation	 Carbon Pricing integral in decision making
	Assessment of Risk and Opportunities	 Reporting based on TCFD Framework
	Reporting of ESG Performance	 Integrated Reporting Dow Jones Sustainability Index CDP (Carbon Disclosure Project)
	Financing	 Align and Report Fund based Green Finance Framework

Pathway for future financial strategy



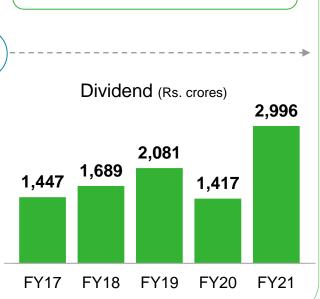
- Strong earnings and cashflow performance expected
- Investment Grade Financial Metrics
- Significant reduction in Overseas debt
- Continued focus on Capital allocation and cashflow management

Target Leverage Net Debt/EBITDA at 2x **Interest Cover at 4x** EBITDA/Interest Medium-term Net Debt/EBITDA (Across cycle targets) 4.49 4.35 3.74 2.97 5.91 FY18 FY19 FY20



FY19

FY18



Dividend Policy

Robust dividend

pay-out



Leverage Management remains an **Enterprise Priority**



Capital Allocation towards Growth and De-risking with additional capacity



Industry Benchmark Return Profile



Initiate gradual **Greening of Balance** Sheet



Target Financial Metrics in line with **Investment Grade** Rating





- 1 Strategic Roadmap 2030
- **2** Financial Strategy
- 3 Q&A Session I

----- Break (4:00pm-4:15pm IST) -----

- 4 Market Leadership and Future-fit Strategy
- 5 Our Approach to ESG
- 6 Technology and Innovation-led Transformation
- 7 Q&A Session II



Mr. Peeyush Gupta

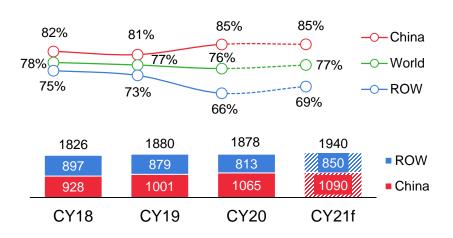
Vice President
Steel Marketing & Sales

Global Steel Industry has witnessed four key structural changes in 2020



Rise in gap between China & **ROW**

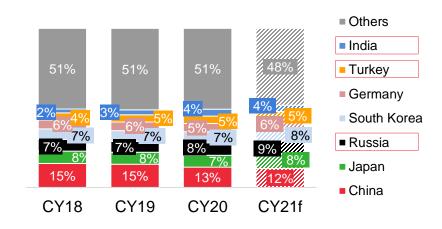
Crude Steel Output & Utilization (mn tons, %)

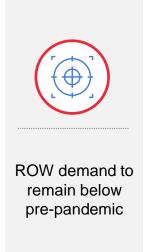




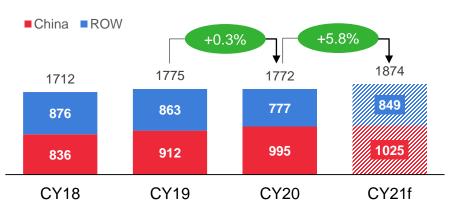
Fall in China's exports

Total World Exports (%)



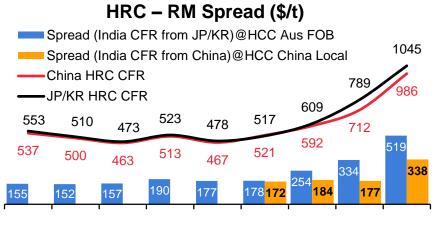


Steel Demand (mn tons, % growth)





(China vs Rest)



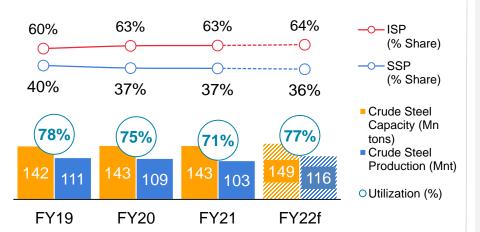
Q1 Q1 Q2 FY20 FY20 FY20 FY21 FY21

Indian Steel Industry has also witnessed four significant developments in 2020



Utilization levels remained high

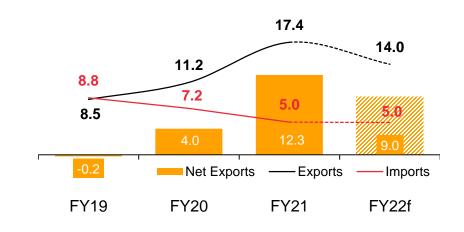
Crude Steel Output & Utilization (mn tons, %)





India net exporter

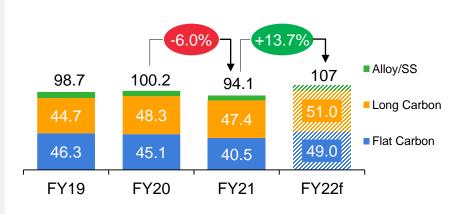
Steel (Finished + Semis) Net Exports (mn tons)





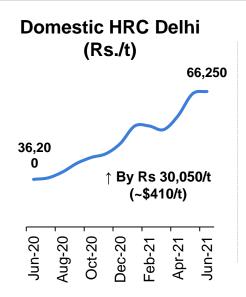
Steel demand to cross prepandemic levels

Steel Consumption (mn tons)

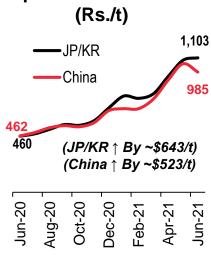




Domestic Price at a discount



Imported HRC Mumbai (Rs./t)

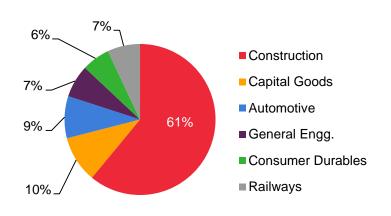


Tata Steel caters to ~87% of domestic market and has a unique way of segmenting the market



Construction consumes most of steel in India...

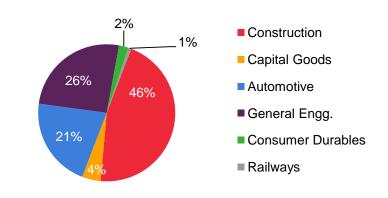
Sector-wise India steel demand (FY21, 94.1 mn tons)





...However, Tata Steel has a significant play in automotive

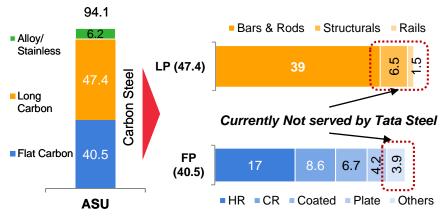
Tata Steel: Sector-wise domestic sales (FY21, 13.7 mn tons)



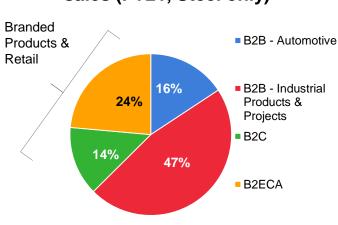


Present across multiple products

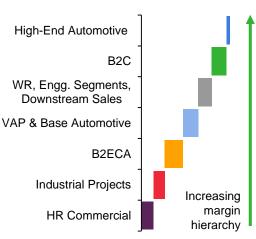
Sector-wise India steel demand (FY21, 94.1 mn tons)



Vertical-wise Tata Steel domestic sales (FY21, Steel only)

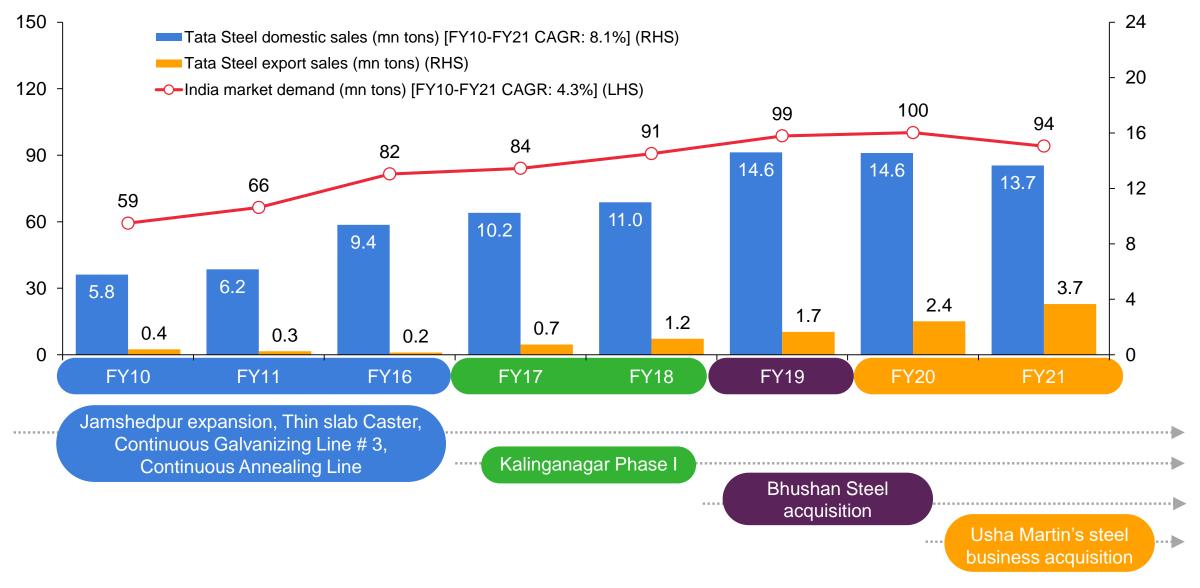


Domestic Sale Mix*

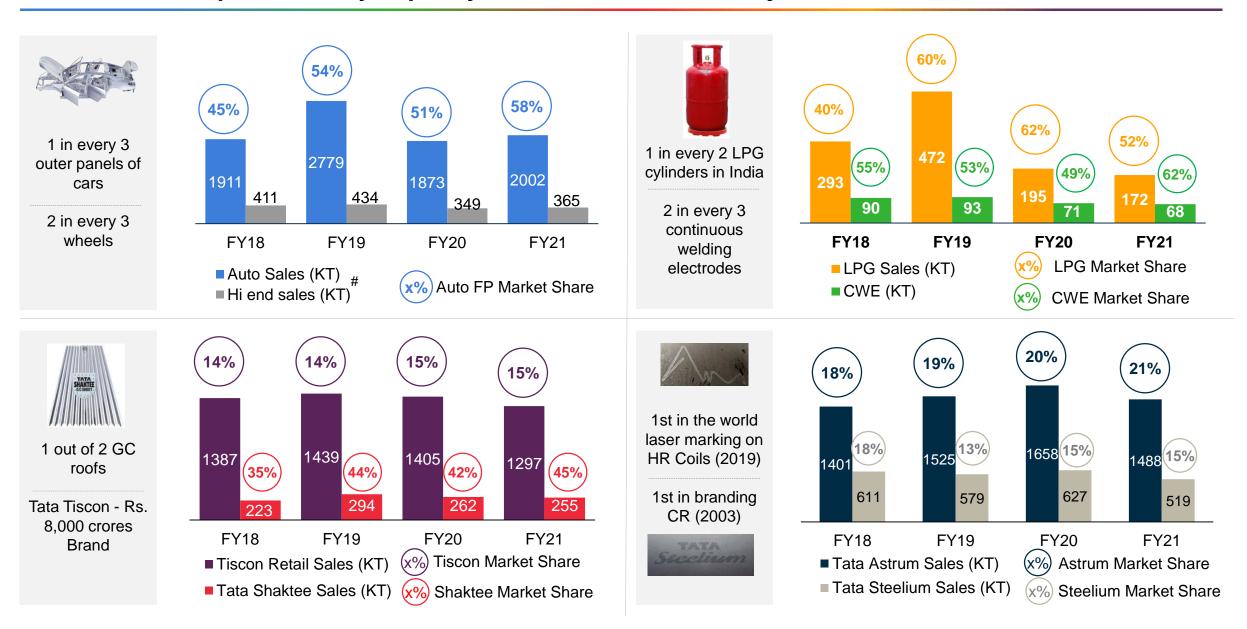


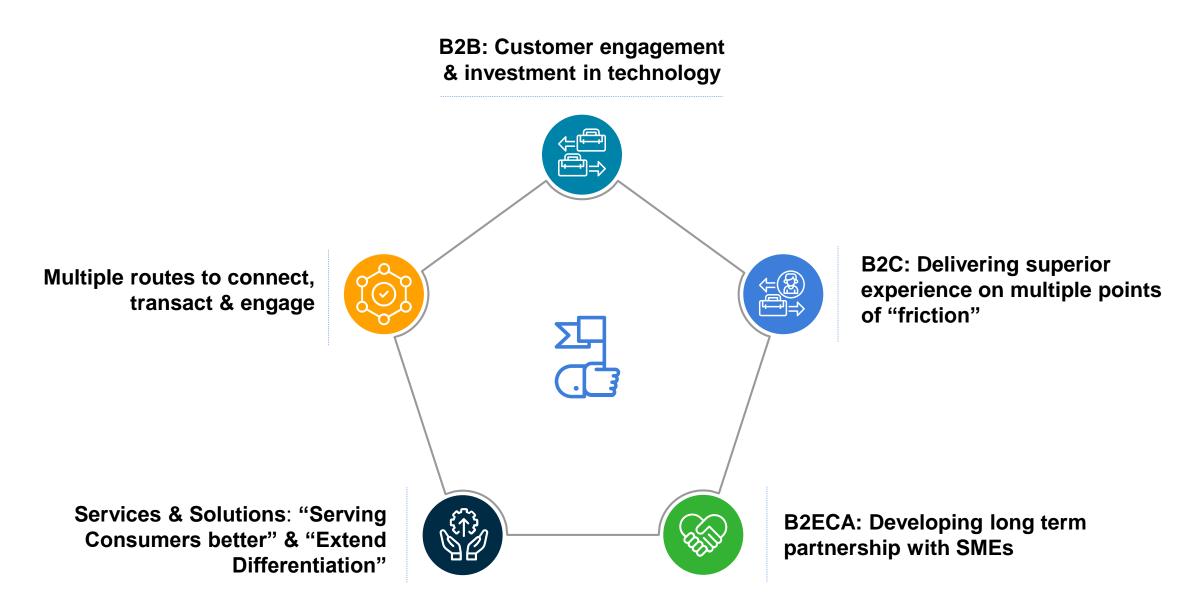
Others: Tinplate; Electrical Steel, Large Dia. Pipes. Tata Steel makes Tinplate through its subsidiary 'Tinplate company of India Ltd'. Tata Steel is not present in Electrical Steel, Structurals and stainless steel; Industrial Projects include TMT, Semis, CR-IP, Galv-IP & FHCR-IP; *TSL Standalone domestic sales for FY21; WR: Wire Rods; VAP: Value Added Products (Hot Rolled); ASU: Apparent Steel Use HR: Hot Rolled; CR: Cold Rolled; ECA: Emerging Corporate Accounts

Demonstrated track record of superior growth as compared to the market...with consistent and strategic exports since 1988



Market leadership enabled by capacity enhancement, brand rejuvenation and de-commoditization





Leadership Enabler – 1: Tata Steel has designed multiple routes to market to connect, transact and engage with customer groups and enabled digitally

Marketing & Sales Channel Partners and corresponding customer groups Direct Tata Centre B₂E (Corporate **Route** & Marketing **Zonal Sales Distributors** Offices (4) Regional **Distributors** Sales Offices B₂C (27)Powered by digital technology – platform based approach

6 Hubs¹ and 14 spokes²

50+ Product Application Engineers

Covering 95% districts across India

100% fleet covered by vehicle tracking system

Service centers for last point processing

TOC³ enabled supply chain

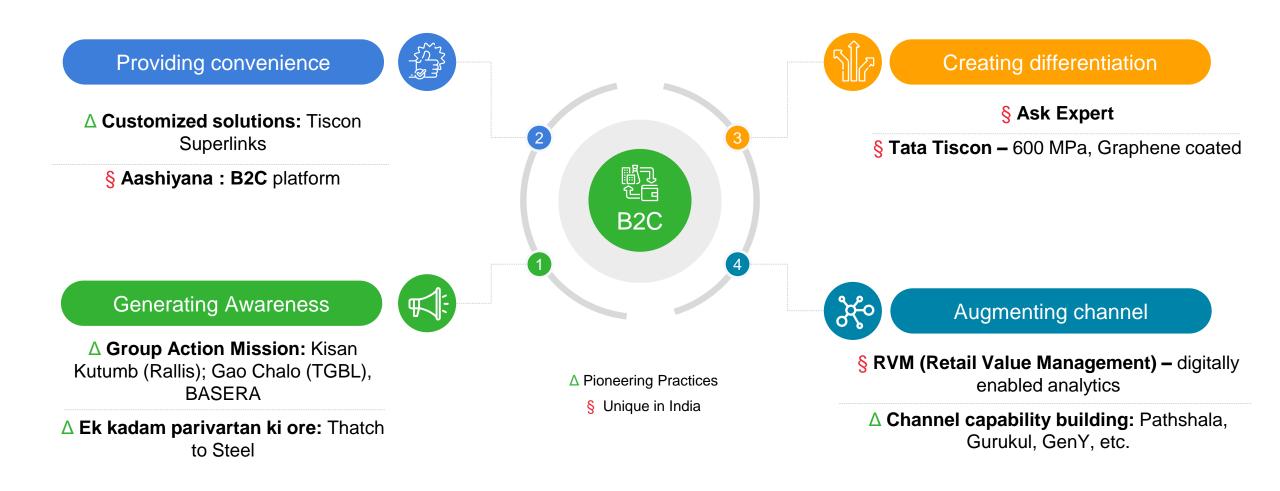
B2B Leadership Enabler – 2: Customer engagement and investment in technology



B2ECA Leadership Enabler – 3: Developing long term partnership through micro-segmentation and delivering delight to SMEs



B2C Leadership Enabler – 4: Delivering superior consumer experience on multiple points of "friction"



TGBL: Tata Global Beverages Limited

S&S Leadership Enabler – 5: "Serving Consumers better" and "Extend Differentiation"

Business Context



Challenge of improving profitability



Narrowing Product Differentiation



Commoditisation of technology



Ease of market access & Competition



Higher premium on convenience & comfort



Steel based solutions for Society

Some of our S&S offerings



Tata Pravesh Doors



Tata Pravesh Windows



Raso-e - Modular kitchen



Anganwadi - Rural child care centre



MobiNest-Portable cabins



Quarantine Cabins for Covid care



AquaNest – Drinking-watervending kiosk



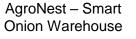
EzyNest

– Modular Toilet

Construction Solutions

Rebar cost /Sq. Ft.: 150

Construction cost/ sq.ft.: 1500-2000



Pravesh

Galvano Price/KG: 80



Doors Price/kg: 700

Nest-In

Steel value/Sq. Ft.: 320



Nest-In Solution Value/ Sq. Ft. 2000-2500

TATA STEEL | 38





Strategic Roadmap 2030

Financial Strategy

Q&A Session - I

----- Break (4:00pm-4:15pm IST) -----

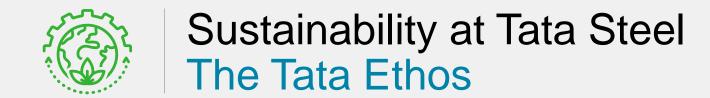
- **Market Leadership and Future-fit Strategy**
- **Our Approach to ESG** 5
- **Technology and Innovation-led Transformation**

Q&A Session - II



Mr. Sanjiv Paul

Vice President Safety, Health & Sustainability





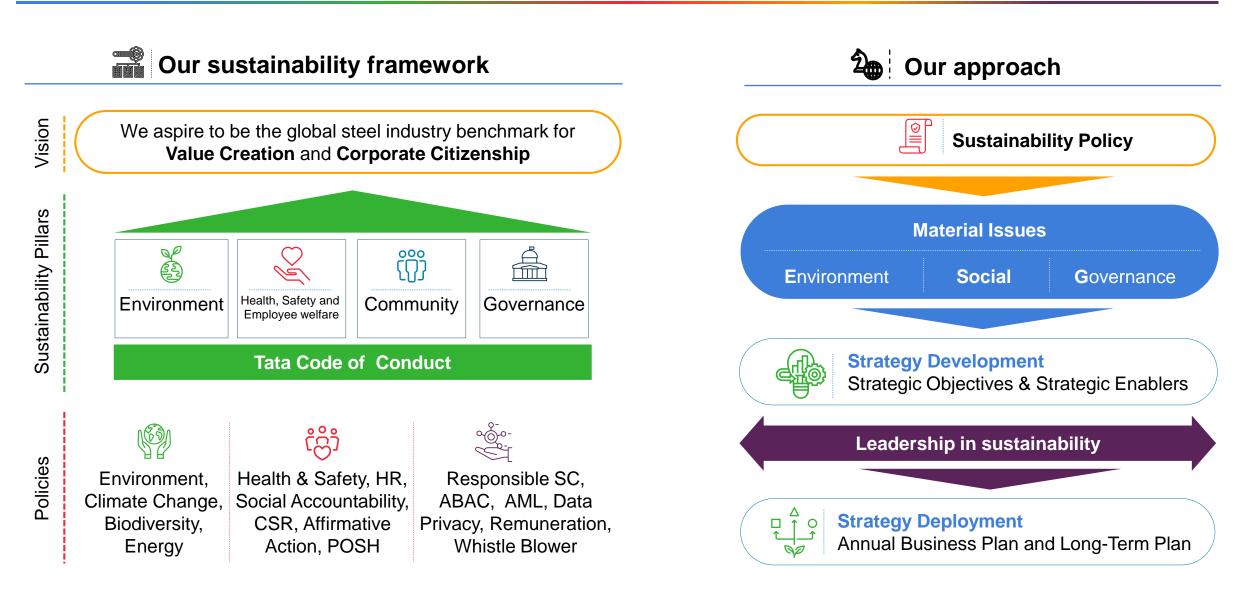
J. N. Tata
Founder of the Tata Group

In a free enterprise, the community is not just another stakeholder in the business but in fact the very purpose of its existence

We do not claim to be more unselfish, more generous or more philanthropic than other people. But we think we started on sound and straightforward business principles, considering the interests of the shareholders our own, and the health and welfare of the employees, the sure foundation of our success.

Nagpur, 1895

Our sustainability framework provides guidance for developing and deploying sustainability initiatives across our value chain



Our carbon footprint is best in class in the geographies we operate in, and our long term decarbonization roadmap is aligned with national commitments



Climate Change



Key Enablers

Adoption of BAT

Maximizing scrap use

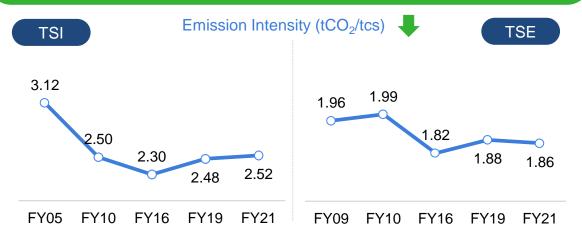
Raw material quality improvement

Greening of power mix

Scrap based growth (EAF) in India

Collaborations with technology providers, startups and academia

Performance Over the Years



Worldsteel benchmark*: 1.87 tCO₂/tcs (Average of top 15% performers)

- IJmuiden Steel Works is amongst top 15% companies globally at 1.76 tCO₂/tcs (FY20).
- Jamshedpur Steel Works is Indian benchmark at 2.29 tCO₂/tcs (FY21).
- Our NatSteel plant at Singapore is one of the more energy efficient EAF's in the world at 0.5 tCO₂/tcs

Way Forward

TSI: Achieve <1.8 tCO₂/tcs carbon emission by 2030

TSE: Strive for 30% reduction in specific emissions by 2030 over 2020 and carbon neutrality of steel making by 2050

Water is a material issue for Tata Steel India, and we have reduced our specific water consumption by more than 50% in last 15 years

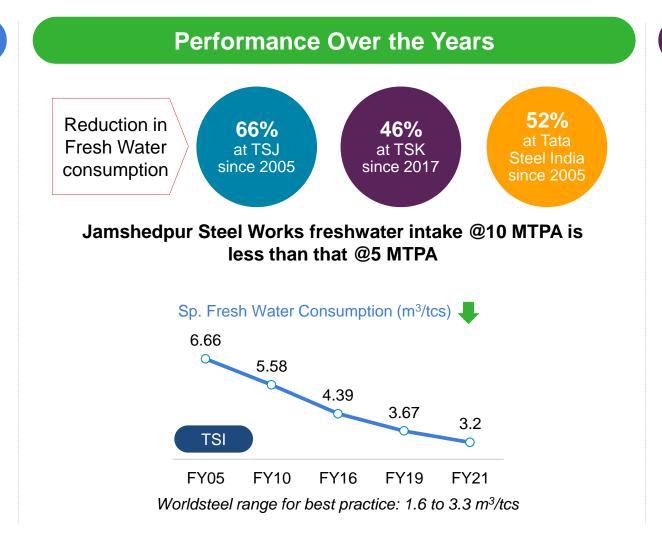


Water

Key Enablers

Focus on 4-R
principles (Reduce,
Reuse, Recycle,
Recovery) to
minimize
dependency on
fresh water

Rainwater harvesting as additional source of fresh water



Way Forward

Achieve specific freshwater consumption of 1.5 m³/tcs by 2030

Progress towards water neutrality



We have made significant improvement in air quality in the geographies we operate in



Emissions

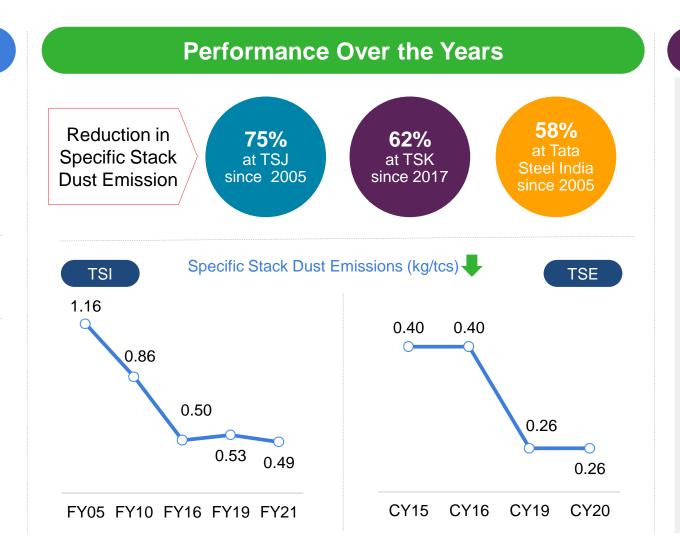
Dust

Key Enablers

Continuous upgradation of APC equipment across all sites

Adoption of BAT to achieve best in class performance

Real-time monitoring of emissions enabling better operating regime



Way Forward

Strive for benchmark status in specific stack dust emissions by 2030



Adoption of circular economy principles for efficient use of resources



Economy Circular

Key Enablers

Use of by products in value added applications

100% steel making slag utilization across sites (India) through introduction of new brands

Tata Aggreto



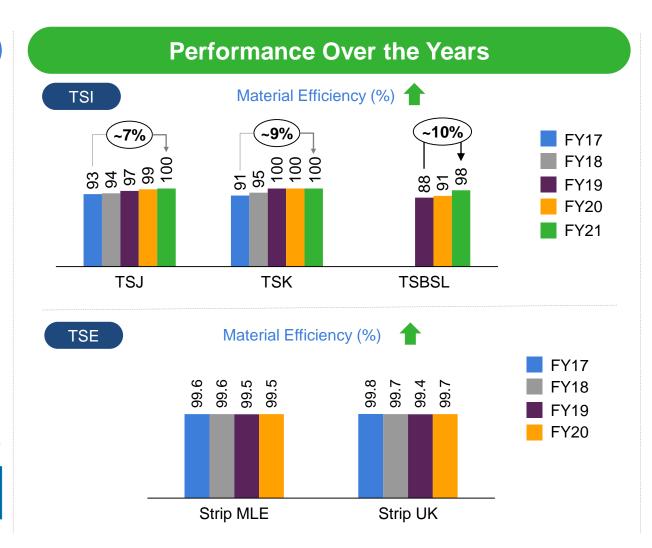
Tata Nirman



Setting up of SRB to harness future recycling opportunities in India: 1st plant setup in Rohtak (FY21)







Way Forward

Achieve 99 % material efficiency by 2025

Scale up scrapbased Steel **Recycling Business** in India

Increase EBITDA of our By-product business in India by more than 2 times by 2030



Key Enablers

Collaboration with IUCN for developing Biodiversity Policy (2016) and development of BMPs

Focus on Biodiversity conservation & restoration projects

Thrust on use of native species for restoration plans

Key Results

- One of the first companies in India to have a Biodiversity Policy
- All our Raw Material locations have Biodiversity Management Plan which is integrated with the Annual Business Plan
- Key Biodiversity restoration projects:
 - Jugsalai Eco Park (25 Ha) Land-Use Transformation from Muck to Eco-Park
 - Sir Dorabji Tata Biodiversity Park (100 Ha) created on mined out area at West Bokaro
 - Ecological Park (12 Ha) developed on MSW dumpsite at Jamshedpur
 - Rejuvenated CRM Bara Pond (5.6 Ha) at Jamshedpur
 - Facilitating nesting and breeding of Common Terns in Wales, UK (nationally acclaimed conservation project)

Way Forward

Develop BMPs for all operating sites

Aspire to achieve no net loss of biodiversity



Biodiversity

Committed to reduction of environmental footprint of our products using Life Cycle Approach



Product Sustainability

Key Enablers

Increase in coverage of operating sites and products under LCA

Product disclosure through EPDs & Ecolabels (GreenPro in India)

All NPD decisions based on the sustainability assessment score in TSE

Key Results

TSI

 Developed GreenPro framework for steel rebars in Collaboration with CII GBC (1st time in India)



1st GreenPro certified rebar brand in India



 HabiNest (Light gauge steel frame construction solutions) LCA comparison with conventional structure (Critically reviewed by 3rd party)



- 53% reduction in CO₂ emissions
- 40% reduction in water consumption

TSE

- One of the oldest EPD programs (~15 years)
- Only company in steel sector to operate a third party verified EPD program aligned with EN 15804
- Developed 50 EPDs for its site & downstream products
- Recognized by WorldSteel Steelie Award for excellence in LCA category

Way Forward

Disclose environment performance of 100% of products

Use LCA approach to differentiate our products & brands

Influence consumer behavior by creating awareness on ecofriendly products



Chain Supply Responsible

Committed to building a sustainable & resilient supply chain by proactively engaging with our supply chain partners



Key Enablers

TSI:

Release of Responsible Supply Chain Policy (RSCP) to formalize our expectations on sustainability with our supply chain partners

Initiation of 3rd party assessment of ESG risks of critical supply chain partners

TSE:

Adhere to BES 6001

Zero Carbon Logistics Program

IRBC programme partner

Key Highlights

- >200 critical suppliers assessed on RSCP in FY21. Another 400 to be covered in FY22 (covering 58% of total procurement spend)
- Tata Steel became member of ResponsibleSteel in 2020



- All products at UK and NL certified to BES 6001
- 98% of 1029 suppliers adhere to Responsible Procurement Policy at TSE



4 Principles of Responsible **Supply Chain Policy**

Principle 1

Fair Business Practices

Principle 2

Health & Safety

Principle 3

Human Rights

Principle 4

Environmental Protection

Way Forward

Cover 100% critical supply chain partners for ESG risk assessment as per RSCP principles

Get site certification for all operating sites under ResponsibleSteel by 2025

Integrate ESG performance of supply chain partners in procurement decision making



Zero harm is highest priority for Tata Steel Group



Health Safety **Occupational**

Key Enablers

Build (safety) leadership capability

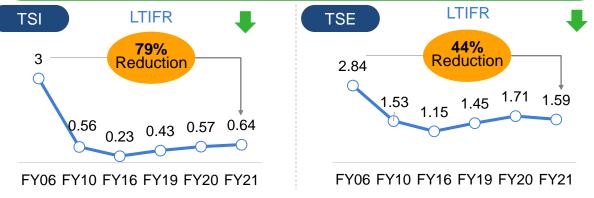
Risk based approach for hazard identification and risk mitigation

CSM & behavioural safety programs

Excellence in Process Safety Management

Establish industrial hygiene and improve occupational health

Performance Over the Years



Safety highlights:

- Eliminated fatality on roads with infrastructure development, zero cyclist policy and digital interventions inside steel works.
- Sustained Zero for last 8 years in 4 fatality potential hazards under Confined space, Fire, Gas exposure & Drowning at TSI
- 96% reduction in Tier-1 (Red Risk) process safety incidents at TSI through deployment of HSE Risk Management system & Centre of Excellence (CoE) concept since FY19
- Capability building through state of art training facility (SLDC), simplification of safety standards and e-learning modules

Occupational Health:

- 21 basis points improvement in TSI Health Index since FY19
- Health Champion Programme at TSE

COVID Measures:

Deployed 4000+ PODs¹ across TSI to tackle Covid-19 Pandemic

Way Forward

Achieve Zero Harm Through

Reinforce positive safety culture and behavior

Enhance capability through technology enablement

Multi skill vendor employees

Reduce ergonomic risk factors by ergo risk assessment & implementing control measures.

Fostering a culture of people care



People Care





Key Enablers

Deliver best in class experience and build a unique employer brand

> Drive Agility thru Behavior & Work practice changes

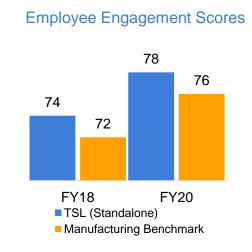
Focus on Diversity & Inclusion

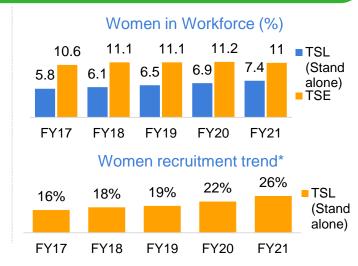
Flexible working methods

Focus on Health & well being

Upskill & democratize Learning

Key Highlights





Diversity & Inclusion

- Launch of MOSAIC the organization wide Diversity Resource group
- 17.2% Affirmative Action community in workforce
- Deployment of women in mining and manufacturing change in law
- LGBTQ+ Employee Resource Group WINGS
- Equal Opportunity Policy, focus on Persons with Disability

Agility With Care – POD working, Proactive testing and vaccination, Digital tracks for contact tracing and Health monitoring, Agile working policy to facilitate remote working. Benchmark **COVID Social Security** Schemes

Learning & Development – Skill certification of 100% of contract workforce (75000+), launched award winning E-learning venture **Digi-e-shala**, Learning & development **investment of Rs. 151 crores** in FY21

Way Forward

Sustain Best Workplace in Manufacturing Sector in India

Sustain benchmark status in employee engagement

Improve diversity in workforce: target of 25% gender diversity in Manufacturing & Mining locations

Working with communities to address their most pressing development challenges



ponsibility Resi Social Corporate

1 POVERTY 「下本帝帝帝 2 ZERO HUNGER

2 ZERO HUNGER

















Key Enablers

Large scale, replicable change models addressing core development gaps

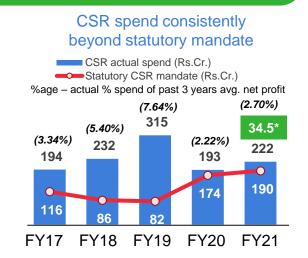
Cocreation of strategies, outcomes and institutions with and for those who are left behind

Allocation of best talent and resources for societal outcomes

Collaborations which deepen SDG 2030 agenda amongst communities

Performance over the years





- Education: 1,200+ habitations made child labour free, while working on learning and governance of 3,300+ government schools in remote Jharkhand and Odisha.
- Maternal And Newborn Survival Initiative (MANSI), worked with ASHA cadres to reduce CMR by 28% in 3 years in 12 blocks of Jharkhand and Odisha.
- Samvaad, curates dialogue on indigenous identity which has reached 157 tribes from 25 Indian states and representatives from 15 countries.
- Livelihoods programmes have enhanced annual incomes of 35,000+ households by Rs 65,000 on average.

Way Forward

Facilitate
transformative,
efficient and lasting
solutions to the
development
challenges of 10
million people per
year by 2030

Foster an active community of changemakers

Establish Tata Steel
Foundation as
'partner of choice' for
deep societal impact
in Eastern India

Standing with the nation during COVID-19 pandemic



15,000+ Hours of Volunteering





61,000 tonnes Liquid
 Medical Oxygen
 supplied





(Figures updated till May 2021)

Medical Support (COVID care facilities)*

- > 1,187 beds at Jamshedpur
- 150 beds at Kalinganagar
- > 500 beds at Jajpur
- > 230 beds at Angul
- 639 beds across our operational areas in Jharia, West Bokaro, Noamundi, Joda and Gopalpur

Supporting the community

#ThoughtforFood:

27 lakh meals provided to Covid+ and economically distressed households.

#StitchinTime:

1.01 lakh cloth masks made by 194 women headed households and distributed to frontline health workers.

#CashforWork:

Short term income of Rs 950 enabled for 2,860 distressed households, including online vegetable retail system for marginal farmers.

#DigitalBridges:

94,349 migrant workers across 24 states reached with aid and counselling.

#LockdownLearning:

1.36 lakh children in remote Jharkhand and Odisha continued their learning journeys through a bridgital model.

#ApnokiSuno:

Collaborative ecosystem to overcome vaccination and early diagnosis hesitation in rural communities.

^{*} Peak capacity during the pandemic & includes owned & managed, supported as well as subsidiary hospitals

Governance: Demonstrating 'Leadership with Trust'



Board Committees

CSR & **Sustainability Audit**

Nomination and Remuneration

Stakeholders'

Relationship

50% Independent Directors

10% Woman **Directors**

~100% Attendance

Policies (ESG)

ABAC

- Affirmative Action
- AML
- Biodiversity

- Climate Change
- **CSR**

Risk

Management

- Data Privacy
- Energy

- Environmental
- Health & Safety
- Human Resource
- **POSH**

Safety, Health

and Environment

- Remuneration
- Responsible Supply Chain
- Social Accountability

Whistle Blower



- Guided by the Tata Code of Conduct (TCoC)
- Compliance to all regulatory laws and corporate governance guidelines
- Deployed MBE framework that reflects our commitment to shared values and principles.

Leadership Engagement Compliance Structure

Pillars of MBE framework

Communication and Training

Disclosing

since 2012

Measurement of Effectiveness



Conduct



One of the first companies in India to adopt GRI framework for Sustainability reporting in 2000



First company in India to publish **Integrated Report** in FY2015-16

Member of

Dow Jones Sustainability Indices

Powered by the S&P Global CSA



Disclosing since

2006: Climate Change

2014: Water

Our efforts are recognised globally and nationally



TSL and TSE recognised as 'Sustainability Champions' by worldsteel (4th time in a row)



Safety & Health Excellence Recognition 2020 for Digitalisation of Process Safety Performance Indicators (PSPI)



Recognised as the world's most ethical companies for the 10th time by Ethisphere Institute



Rated 'A-'
(Leadership band)
for our Climate
Change and Supply
Chain disclosure



Certified as the Best Workplace in Manufacturing 2021



3 Assets recognized as Global Lighthouses by WEF (Jamshedpur, Kalinganagar and IJmuiden)

Member of
Dow Jones
Sustainability Indices
Powered by the S&P Global CSA

Rated amongst top 5 Steel Companies globally.



Dun & Bradstreet Corporate Award 2019 in the category of Corporate Social Responsibility



Recipient of Prime Minister's Trophy for 11 times (out of 25) for the Best Performing Integrated Steel Plant





1 Strategic Roadmap 2030

2 Financial Strategy

3 Q&A Session – I

----- Break (4:00pm-4:15pm IST) -----

- Market Leadership and Future-fit Strategy
- 5 Our Approach to ESG
- 6 Technology and Innovation-led Transformation

7 Q&A Session – II



Dr. Debashish Bhattacharjee

Vice President
Technology & New
Material Business

Architecture for discussion

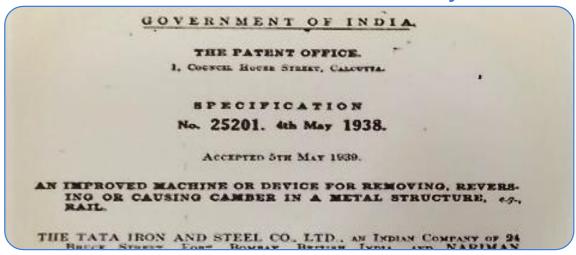


Technology has always been at the heart of Tata Steel

Developed steel grades for light armour vehicles during second world war (1940)



Tata Steel documented its first patent in 1938 – a first for the Indian steel industry



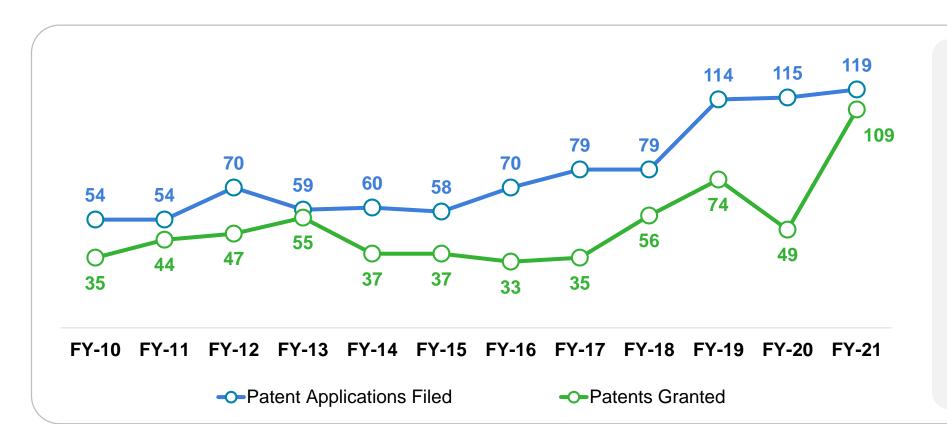
Supplied steel for Howrah bridge (1943)



Tata Steel was the first in Asian steel sector to set up a corporate R&D centre



Progressing towards a 'knowledge-intensive' organization



- 32% of patents are in the domain of raw materials while 25% are in the area of products.
- No. of patents filed with collaborators – 10% of total patents filed



Over 100 New filings every year for last three years in line with organization's thrust towards innovation and technology development.

Cumulative patents filed till FY21 –

1319

Cumulative patents granted till FY21 –

707

Consistently being recognized in the space of innovation

2020 | 2019 | 2018



2020



CII Industrial Intellectual Property Award

for the Best Patents Portfolio in the Large Enterprises (manufacturing/engineering) category

Innovista

- most number of awards every year for last 3 years

2019

2015



Thomson Reuters Innovation Award

CII Industrial Innovation Award

- among the top 25 innovative companies



Unlocking and monetizing knowledge and intellectual property



Incubating Intellectual **Property**

Dhurvi Gold

- use of steelmaking slag as a soil conditioner







Utilizing waste Iron powder for value added use in cutting tools, food fortification and metal injection moulding



Monetizing Internal **Expertise and** Knowledge



Technology leadership areas (TLAs) – 7 identified

Use of low-quality Iron ore, coal, ferro alloy minerals with focus on (i) Mining (ii) Beneficiation & processing (iii) Recovery & recycling

Technologies for generation /usage of large scale & economical green/blue H2 in steel value chain

Technologies for Water neutrality through Reduce, Reuse & Recycle

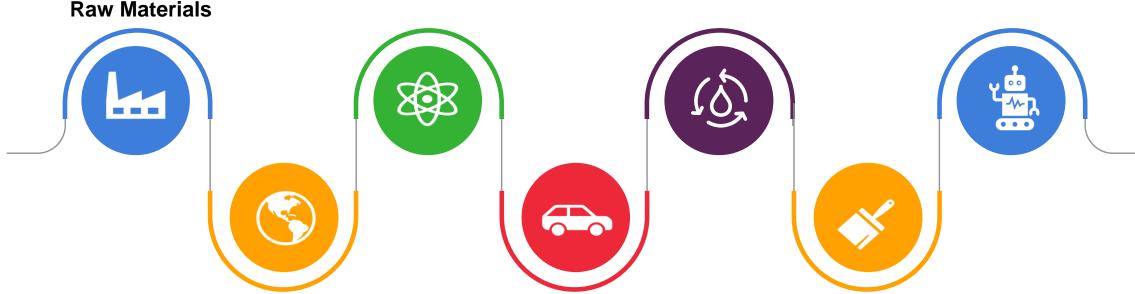
Use of AI to drive process excellence and 'first time right' in steel value chain

Utilizing Low Quality Raw Materials

Hydrogen

Water

Digital



Carbon Capture and Utilization

Technologies for CO2 capture, storage and utilization

Mobility

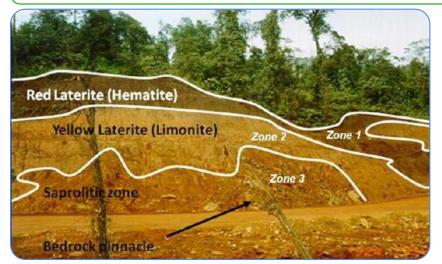
Material leadership through breakthrough technologies in mobility domain

Coatings

Breakthrough coating solutions serving latent needs / existing needs better than competition / cost saving for **OEMs**

Utilizing low quality raw materials – early steps in the domain of 'energy materials' while working on traditional issues

Exploring Chromite overburden to extract Nickel and Cobalt for use as a cathode material in Li-ion battery





Sulphate

Mixed Hydroxide Product

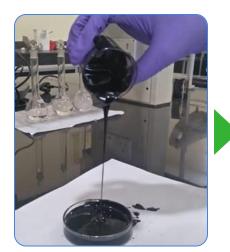




Cobalt Sulphate



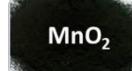




A polymer based fluidity enhancer that helps substitute hard coking coal for coke making. 10% of hard coking coal replaced by non-coking coal.

Annual savings of around Rs.150-200 crores





MnSO₄

 MnO_2

Utilizing low and subgrade Manganese ore to produce Manganese compound for use as a cathode material in Li-ion battery

CO₂ capture & utilization and generation of Hydrogen rich gas



Carbon
Capture
and
Utilization

5 ton per day CO₂ capture plant commissioned at Tata Steel Jamshedpur – a 'first in India'. Captured CO₂ utilised in the steel melting shop.

Tata Steel in collaboration with a startup company has developed a technology to produce Syngas (H₂:CO=4:1) from biomass

Hydrogen



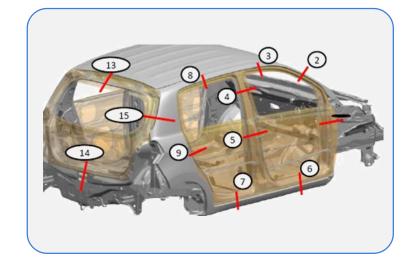
Mobility – providing advanced technical support and solutions to customers



Services to a Japanese car manufacturer:
Localized the tear down activities. 1st in India by an steel company.



VAVE/EVI - 1st in India by any steel company. More than 75 models covered. Now on virtual platform



Participating in Hyperloop. Developing steel components

World leading solutions for clean water and coatings



A patented technology which uses Ultraviolet rays to permanently oxidize cyanide present in industrial waste water into carbonate and molecular Nitrogen



'First in the World' Ready-To-Paint (RTP) coating developed for cold rolled and galvanised steel. It will help eliminate the pre-treatment process at the customer end.

New materials play to capitalize on future opportunities



Drivers

- Emerging trends in the area of light weighting and environmental sustainability
- Emergence of multi-material play meet future needs of existing segments while adding new ones
- Counter cyclicality of steel business



Composites business – aiming for leadership in industry, infrastructure, railways and automotive applications



Light weight enabling fuel efficiency

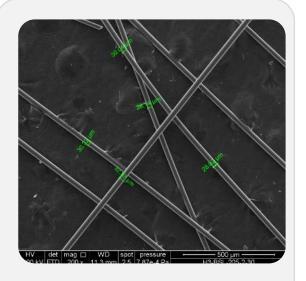
Corrosion resistance enabling longer life

Flexibility in forming lowering manufacturing capex









Tata Steel in collaboration with a Spanish lab is trying to develop carbon fibre from coal tar.

Composites business set quite a few milestones along the way

- leveraging group synergy to deliver a 500-bed hospital project in Kerala
- establishing itself as an integrated solutions provider to Indian railways and,
- Commissioning India's first FRP foot-over bridge in Jamshedpur

Graphene business – one of the largest production plant in the world Medical materials – initiating with bone and skin replacement materials



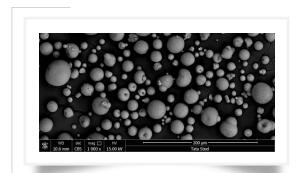
Graphene business

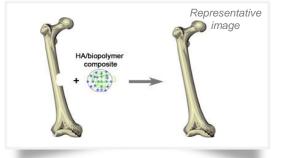
- 50 patents across 10 countries
- Patent protected manufacturing technology
- Graphene doped and coated products commercialized in three sectors: (a) material handling, (b) conveyance and, (c) coatings

100 ton per annum integrated Graphene manufacturing plant – one of the largest single unit Graphene production centre in the world.

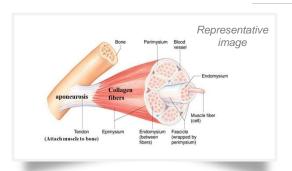
Medical materials







Hydroxyapatite



Collagen non-cow & non-pig source

Leveraging internal and external ecosystem

Internal ecosystem





Revenue expenditure

(Rs. Crores)

220 **FY21** 275 FY22 Plan

Planned expenditure for next 5 years

(Rs. Crores)



1,200 Capital Revenue

1,500

External ecosystem



Tata Steel Chair Professor

- University of Cambridge
- Indian Institute of Engineering Science and Technology, Shibpur
- Indian Institute of Technology, Kharagpur



Umbrella Memorandum of Understanding (MoU)

with Council of Scientific & Industrial Research (CSIR) to collaborate in specific areas

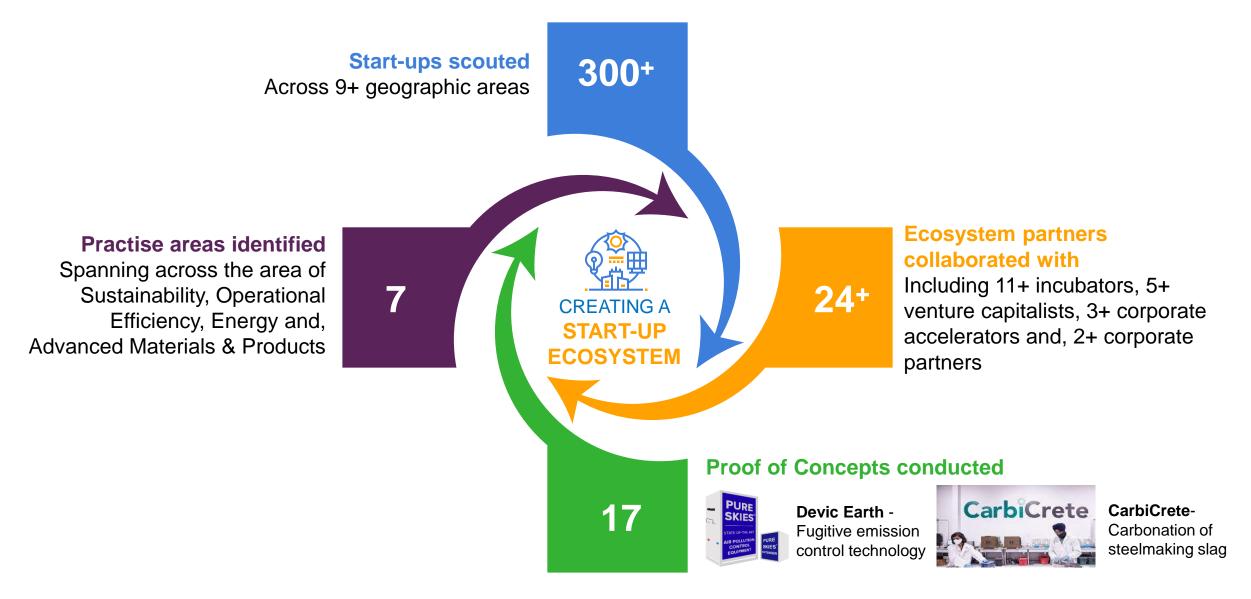


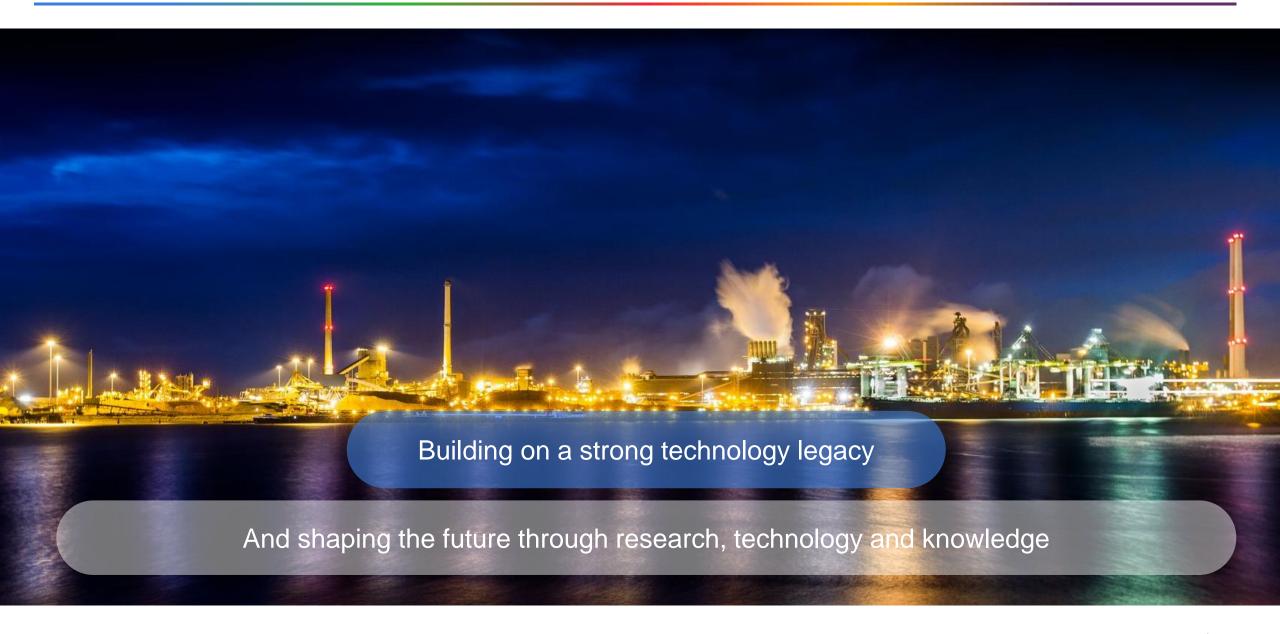
Tata Steel Advanced Materials Research Centre

At IIT Madras – co-location with academic institutions, engagement with various CSIR labs, IITs and other leading research institutes

^{*}Number of employees mentioned corresponds to the workforce of Tata Steel India R&D; Spend mentioned is that for Tata Steel India R&D in INR Crores

External ecosystem – plugging in the start-up community







Institutional investor enquiries:

Sandep Agrawal

Email: Sandep.agrawal@tatasteel.com