







## **About Tata Steel** The Tata Steel group is one of the most diversified steel producers in the world, with an annual crude steel capacity of 34 MnTPA. It comprises Asia's first integrated steel maker, Tata Steel Limited, together with its subsidiaries, associates and joint ventures; and an employee base of 65,000+. A flagship entity of the 150-yearold illustrious Tata group, Tata Steel is one of the few global steel A vision for operations that is fully integrated from mining to manufacturing and marketing of finished products. tomorrow The world as we know it would not be the same without steel. From the buildings we work and live in, to the vehicles we drive, from the iconic landmarks that define our city skyline, to the roads and bridges that bring us closer to each other, Tata Steel is everywhere, ensuring lives are safer and easier. We strive to address society's biggest challenges, making the world's most versatile material even better. This desire to imagine and innovate helps us go beyond steel to champion a better tomorrow. Our foray into new solutions and technologies speaks of the consistent efforts we are making today to shape a future that is more humane, more liveable and filled with infinite possibilities. HIGH-RISE IN EUROPE

## From the House of Tata

The Tata group is a global business conglomerate founded by Jamsetji Nusserwanji Tata in 1868 and headquartered in Mumbai, India. Shaped by a lineage of sound and straightforward business principles, the group is built on a foundation of trust and transparency. This forms the basis of every business we, at Tata Steel, operate in.



## **Businesses at a glance**

From an early foray into steel and automobiles, to staying abreast of the latest technologies, the Tata group is present in 150 countries and six continents. It operates through 30 companies that are segregated into 10 clusters.



Steel



Information technology



Consumer and retail



Telecommunication and media



BOMBAY HOUSE

h Infrastructure



Trading and investments



Financial services



Tourism and travel



Aerospace and defence

## Values at the core

Our value system is not an adjunct to profits, but forms the very core around which each Tata group company works to create long-term stakeholder value based on 'Leadership with Trust'.



#### Integrity

We will be fair, honest, transparent and ethical in our conduct; everything we do must stand the test of public scrutiny.



#### Unity

We will invest in our people and partners, enable continuous learning, and build caring and collaborative relationships based on trust and mutual respect.



### Pioneering

We will be bold and agile, courageously taking on challenges, using deep customer insight to develop innovative solutions.



#### Excellence

We will be passionate about achieving the highest standards of quality, always promoting meritocracy.



### Responsibility

We will integrate environmental and social principles in our businesses, ensuring that what comes from the people goes back to the people many times over.



#### A look back

- 1868 Began as a trading company by Jamsetji
  Tata that had a capital outlay of ₹21,000
- 1903 Inaugurated Taj Mahal Hotel
- 1907 Established Tata Iron and Steel Company (now Tata Steel)
- **1941** Commissioned the Tata Memorial Hospital
- 1945 Established Tata Engineering and Locomotive Company (now Tata Motors)
- **1954** Incorporated Voltas
- **1968** Established Tata Consultancy Services (TCS)
- 1984 Forayed into the watch market with
  Titan Industries, a Joint Venture (JV) with
  the Tamil Nadu Industrial Development
  Corporation (TIDCO)
- 1994 Entered the Indian jewellery market with Tanishq
- 1998 Launched Tata Indica, India's first indigenously designed and manufactured car, and Tata Safari, India's first SUV
- 2000 Tata Tea (now Tata Global Beverages)
  acquired the erstwhile 160-year-old British
  Tetley group
- 2001 Entered the insurance space with two JVs: Tata AIG, this year, and Tata AIA in 2000
- 2006 Launched the Direct-to-Home (DTH) service
- **2015** Formed Vistara, Tata Sons' JV with Singapore Airlines
- 2018 TCS became the first listed Indian IT company to cross US\$100 billion in market capitalisation
- 2019 Tata Global Beverages and Tata Chemicals combined consumer brands to create Tata Consumer Products Ltd.

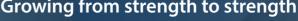


## At home around the world

The Tata group has made significant investments in different geographies. With its ever-increasing international footprint, the group is now reaching out to customers in the farthest corners of the world.







- Phase II of expansion of capacity at our Kalinganagar plant in Odisha, from 3 MnTPA to 8 MnTPA, will help us enter the automotive, general engineering
- The integration of Bhushan Steel, renamed Tata Steel BSL, has helped us expand our footprint in India significantly.
- We acquired the steel business of Usha Martin, through Tata Sponge Iron, renamed Tata Steel Long Products. This will enable us to participate in the



## Did you know?

Tata Steel is what connects the London Eye, Kolkata's Howrah Bridge and Dubai's Burj Khalifa. All three iconic structures have been built using our steel.

Our steel is found in every model of Boeing and Airbus civil aircraft in production today.

90,000 sq m of our steel, equal to almost 17 football fields, is building the new gem in London's skyline, 100 Bishopsgate Tower.

### Recognitions

- CII GreenCo Star Performer Award 2019
- Dun & Bradstreet Corporate Award 2019 in the category of Corporate Social Responsibility
- Honoured as 'Business Transformer' at the 14th Annual CIO100 Awards, 2019
- Best Integrated Report Award 2018 by the Asian Centre for Corporate Governance and Sustainability in September 2019
- World Economic Forum's Global Lighthouse recognition for our Kalinganagar Plant - a first for India

## A purpose that binds

The Tata group's value system directs the growth and business of all sectors we operate in.

#### Mission

Consistent with the vision and values of our founder Jamsetji Nusserwanji Tata, Tata Steel strives to strengthen India's industrial base through effective utilisation of staff and materials.

The means envisaged to achieve this are cuttingedge technology and high productivity, consistent with modern management practices.

Tata Steel recognises that while honesty and integrity are essential ingredients of a strong and stable enterprise, profitability provides the main spark for economic activity. Overall, the Company seeks to scale the heights of excellence in all it does in an atmosphere free from fear, and thereby reaffirms its faith in democratic values.

#### Vision

We aspire to be the global steel industry benchmark for Value Creation and Corporate Citizenship.

We make a difference through:

- Our People
- Our Policies
- Our Offerings
- Our Innovative Approach
- Our Conduct

#### **Values**

Our excellence is rooted in the value system of the Tata group.



Integrity



Responsibility





Excellence Pioneering







- 1907 Tata Iron & Steel registered as a company
- 1910 Obtained the first colliery for Tata Iron & Steel, adding six more in the course of time
- 1911 Began successful operations of the first blast furnace
- 1912 Rolled out the first ingot of steel from the Sakchi plant; introduced an 8-hour working day
- 1918 Established India's first steel (coke) plant on June 18, as an enterprise financed by Indian capital and built by Indian workers
- 1955 Signed an agreement with Kaiser Engineers for a 2 MnT expansion programme
- **2007** Acquired the London-based steel manufacturer Corus Group, thereby becoming one of the most geographically diversified and leading steel producers in the world
  - Commemorated 100th year, with the Indian Prime Minister unveiling the centenary postage stamp
- **2012** Created history by becoming the world's first integrated steel company to be awarded the **Deming Grand Prize**
- **2016** Began commercial production in Kalinganagar, our second integrated steel plant in India
- 2018 Acquired Bhushan Steel
- 2019 Undertook the second phase of capacity expansion programme at Kalinganagar
  - Acquired Usha Martin's steel business through our subsidiary, Tata Sponge Iron Limited
- **2020** Tata Steel Mining Limited signed 50-year leases for Kamarda and Saruabil chromite mines

DOWNSTREAM, JAMSHEDPUR

Diversified global footprint



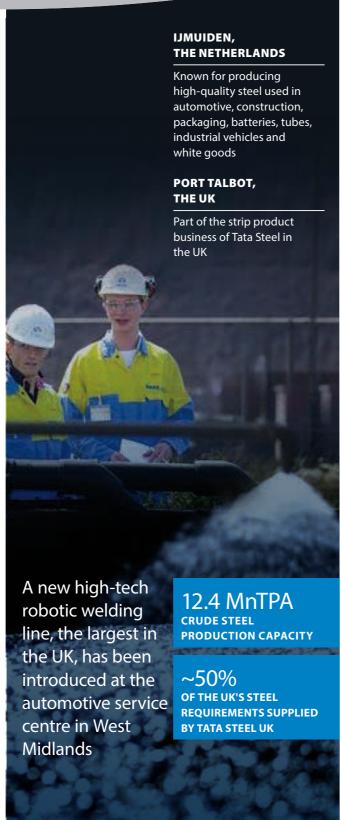
#### India

We are Asia's first integrated steel company with captive iron ore mines and collieries located near our manufacturing facilities in Jamshedpur and Kalinganagar. With a slew of organic and inorganic growth initiatives, we are strengthening our business in India and remain well poised to take advantage of the emerging opportunities in the country.

#### Europe

Tata Steel is Europe's second-largest steel producer, establishing a presence in the continent after acquiring Corus in 2007. We have integrated steelmaking sites in Ijmuiden, the Netherlands and Port Talbot, the UK. Our other downstream facilities across Europe produce a variety of special steels, ultra-pure re-melted steels and various rolling and coating lines.

## **JAMSHEDPUR** Our flagship facility and Asia's first integrated steel works **KALINGANAGAR DHENKANAL** Tata Steel BSL's plant is one of India's largest integrated steel mills equipped with steelmaking One of the most 15 MnTPA profitable and CRUDE STEEL lowest cost CAPACITY producers of 5.6 MnTPA steel in the world CAPACITY OF TATA STEEL BSL FORMERLY KNOWN AS BHUSHAN STEEL 24



#### **South-East Asia**

Our South-East Asian operations began in 2004 with the acquisition of NatSteel, Singapore. This was further strengthened in 2015, when we acquired a majority stake in the Thailand-based steelmaker Millennium Steel. We are concentrating our efforts in the region to grow our value-added products and services portfolio, while strengthening our key steel operations in Singapore, Thailand and China.

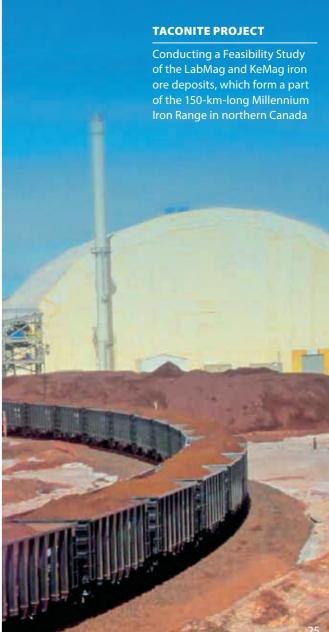
#### Canada

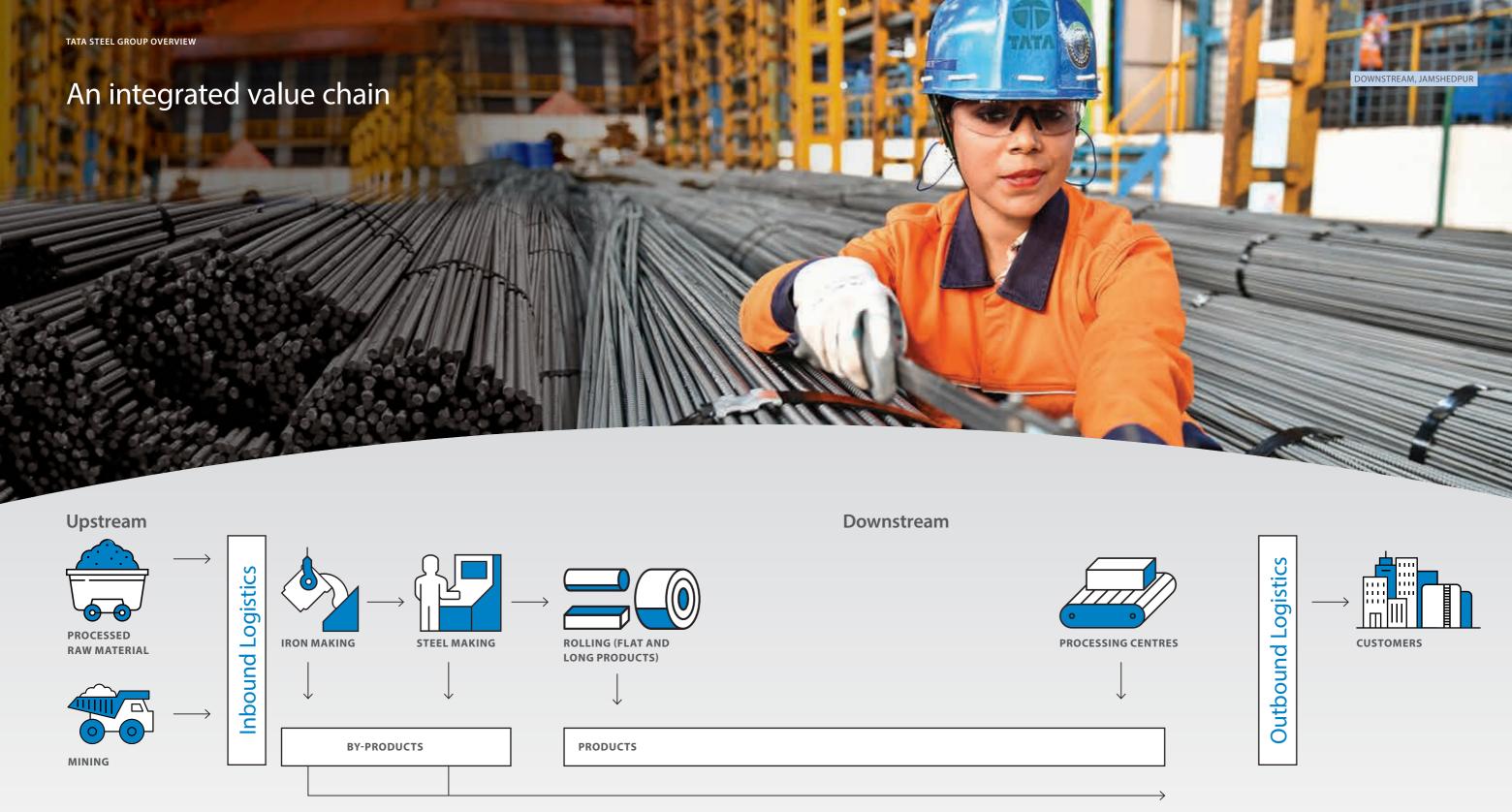
Tata Steel Minerals Canada is a JV between Tata Steel Limited (80%) and New Millennium Iron Corporation (20%). The JV aims to develop iron ore deposits in Quebec, and Newfoundland and Labrador in Canada and is involved in two major projects.



## DIRECT SHIPPING ORE PROJECT

Involves mining, crushing, washing, screening and shipping the sinter fines and pellet fines to Tata Steel's European steel-making facilities





Tata Steel is one of the few fully-integrated global steel producers, involved across mining, iron-making, steel-making, casting, rolling and finishing, and marketing and sales.



## Mining

We adopt a holistic operating model encompassing a steel value chain and a raw materials value chain, along with downstream and allied businesses related to value-added products and solutions.



## Manufacturing

We convert the raw materials to hot metal and crude steel through various supporting processes, including coke making, sinter making and pelletisation. On the one hand, the steel is cast into slabs, which are then rolled into flat products. On the other, the steel is cast into billets, which are then rolled into long products.



## Marketing

We cater to an array of market segments in countries across the world with products and brands that fulfil different requirements.

## Inside Tata Steel India

We are India's lowest cost producer of steel. Our history and journey are inextricably linked to the Indian growth story; and we have helped build the nation's industrial narrative, since the time we laid the foundation of India's first industrial city in Jamshedpur more than 100 years ago.



12 MnTPA
JAMSHEDPUR PLANT

3 MnTPA KALINGANAGAR PLANT

5.6 MnTPA CAPACITY OF TATA STEEL BSL

FORMERLY KNOWN AS BHUSHAN STEEL



₹82,125 crore

₹17,650 crore

₹5,611 crore

₹10,400 EBITDA/TONNE



### Did you know?

Tata Steel Kalinganagar is the first Indian plant to be included in the elite Global Lighthouse Network of the World Economic Forum for its leadership in applying Industry 4.0 technologies.

India's first steam ageing facility for 'accelerated weathering' of LD slag was commissioned at Tata Steel Jamshedpur.

#### SHARE IN TOTAL DELIVERIES (MnT)



9.88 Domestic

1.50 Exports

0.94
Transfer to downstream units

#### **SHARE IN DOMESTIC SALES (MnT)**



1.45 Automotive & special products

4.61
Industrial products & projects

3.82
Branded products & retail

NOTE: ALL FIGURES ARE FOR TATA STEEL INDIA FOR FY 2019-20





## Asia's first integrated steel plant

Tata Steel Jamshedpur (TSJ) is our flagship facility. From driving the first stake into the soil of Sakchi village in 1908 to becoming India's steel city, Jamshedpur (also known as Tatanagar) is the soul of the Tata story.



#### An industry benchmark

- TSJ sets the yardstick for specific consumption of energy, refractory, pulverised coal injection and coke rates in India
- Initiative to roll out process safety through a 'Centre of Excellence' methodology at Jamshedpur has been appreciated by World Steel Association as the 'Best Practice' of 2018 across the industry

## Availability of critical manufacturing units

Our focus on asset management using data analytics and predictive modelling, has resulted in >90% availability of our key manufacturing units at Jamshedpur.

## Key outputs







COLD ROLLED COILS



WIRE RODS



**GALVANISED COILS** 



REBARS

#### TATA STEEL KALINGANAGAR (TSK)

## India's largest single-location greenfield steel project

Tata Steel Kalinganagar (TSK) is our second integrated steel plant in India, manufacturing high-end flat products. Spread over 3,000 acres and commissioned in 2016, TSK attained production levels at its rated capacity in less than two years. We installed state-of-the-art equipment and modern facilities to achieve a highly cost-competitive and productive plant. TSK is designed to have a minimal water as well as carbon footprint.

#### **Key digital enablers**



DATA-BACKED **DECISION-MAKING AND REAL-TIME MONITORING** 



**ADVANCED ANALYTICS** 



HIGH-SPEED DATA



### **Key operational** highlights

- Fastest ramp-up of greenfield plant
- Fastest stabilisation of 3 MnT+ size blast furnace in the world
- 5% reduction in manufacturing cost
- 60% reduction in product development time
- Fastest time-to-market from order generation to fulfillment in Tata Steel

## **Fortifying tomorrow**

Following the successful implementation of Phase I of the Kalinganagar Project in Odisha, we initiated the next phase of capacity expansion in Kalinganagar in FY 2018-19.

The project configuration and costs include investments in raw material capacity expansion, upstream and mid-stream facilities, infrastructure and downstream facilities. This will help us make value-added products like cold rolled galvanised and annealed products, as well as meet the requirements of automotive, general engineering and other high-end quality product market segments.



₹23,500 crore **CAPEX ALLOCATION** 



5 MnTPA **CAPACITY EXPANSION** 



48 months **EXPECTED PROJECT** COMPLETION

NOTE: ALL FIGURES ARE FOR FY 2019-20



ARTIFICIAL INTELLIGENCE 3D PRINTING MODELLING

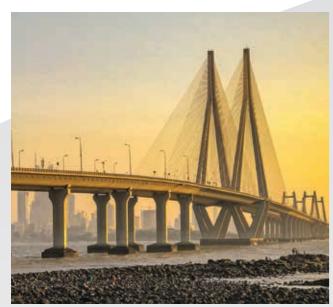






## Rich customer insight

Tata Steel is home to a comprehensive portfolio of products and brands, catering to multiple industries and segments. From the vehicle you drive, to the house you live in; from the bridges you cross, to the hand tools that you use; the steel we produce is an integral part of your everyday life.







# SEGMENT Construction

### Market Sub-segments

Individual House Builders (B2C)

Tata Tiscon (rebars), Tata Pravesh (steel doors and windows), Tata Shaktee (roofing sheets), Tata Pipes (plumbing pipes), Tata Structura (tubes)

**Products and brands** 

Corporate and Government Bodies (B2B) (B2G) Habinest (prefabricated houses), AquaNest Water Kiosks, Ezynest Modular Toilets, MobiNest (office cabins), Nestudio (rooftop houses), CanvaNest (EV charging station), Smart Easy Nest (for smart cities)

Infrastructure (B2B)

TMT rebars (higher dia rebars and corrosion-resistant steel)

Housing and Commercial (B2ECA)

Tiscon readybuild (cut and bend bars), Tata Structura (tubes), PC Strands (LRPC)\*\*, Tata Nirman, Tata Aggreto, Ground Granulated Blast Furnace Slag (GGBS), WAMA – GC for walling







## Automotive

#### Market Sub-segments

Auto OEMs\* (B2B)

Auto Ancillaries (B2B) (B2ECA)

#### **Products and brands**

Hot-rolled (HR), Cold-rolled (CR), Coated Coils and Sheets

HR, CR, Coated Steel Coils and Sheets, Precision Tubes, Tyre Bead Wires, Spring Wires, Bearings











#### **SEGMENT**

# Industrial and General Engineering

Market Sub-segments

Panel and Appliances, Fabrication and Capital Goods, Furnitures (B2ECA) Tata Steelium (CR), Galvano (Coated), Tata Astrum (HR), Tata Structura (tubes), Tata Astrum Super (for fabrication)

Products and brands

LPG (B2B)

Welding (B2B)

Transmission Power and Distribution (B2B)

Tata Astrum Super (for fabrication)

Hot-rolled (HR)

Wire rods

Process Industries (Cement, Power) (B2B) Tata Tiscrome (ferro chrome), Tata Ferromag (ferro manganese), boiler tubes, Tata Pipes, Tata Ferroshots, Blast Furnace (BF) slag, Metallics

Notes: B2B – Business to Business; B2C – Business to Consumer; B2G – Business to Government; B2ECA – Business to Emerging Corporate Account

\*OEM – Original Equipment Manufacturer

\*\*LRPC – Low-relaxation Pre-stressed Concrete





# **Agriculture**

Market Sub-segments

Agri Equipment (B2B)

Fencing, Farming and Irrigation (B2C) **Products and brands** 

Bearings

Galvanised Iron (GI), Wires, agricultural and garden tools, conveyance tubes

## **Board of Directors**

The trust that Tata Steel has garnered in the past 110+ years is an irreplaceable asset created through the efforts of colleagues. Our leaders guide us towards a better tomorrow, as we take this legacy forward and seek opportunities to create new value in the age of accelerating change.





STANDING (LEFT TO RIGHT) T. V. Narendran Chief Executive Officer and Managing Director

SITTING (LEFT TO RIGHT)

V. K. Sharma

Non-Executive Director

**Aman Mehta** Independent Director **Petrus Blauwhoff** Independent Director

N. Chandrasekaran Chairman

**Deepak Kapoor** Independent Director

Mallika Srinivasan Independent Director

Saurabh Agrawal Non-Executive Director

O. P. Bhatt Independent Director **Koushik Chatterjee** 

Executive Director and Chief Financial Officer





#### **Key outcomes**

We are creating solutions that make a positive difference to the society with patents, new products, new materials and by developing in-house technologies for sustainable





- Developed 155 new products in FY 2019-20, including those for high-strength automotive structural applications.
- On the long products front, we commercialised high-strength, high-ductility rebar grade Fe600 HD. We also developed low nitrogen steel grade (WR3M) wire rods through the Electric Arc Furnace (EAF) route for welding electrode wire application.
- Continuous efforts towards enriching customer experience by delivering innovative products resulted in Tata Steel winning the 'Innovative supplier of the year 2019' award for developing the S460MC grade of steel.
- In Europe, 22 new products were launched during the year, which include major developments for engineering, automotive and construction markets.
- The Packaging department has further developed and commercialised its already launched polymer laminated steel Protact® range of products.



#### Graphene

 ~1,500 tonnes of graphene-coated 'cut and bend' superlinks (GFX Ultima) were sold.

## Fibre Reinforced Polymer (FRP) products

- In the infrastructure segment, a wide range of FRP solutions were launched, including FRP street furniture, gazebos, fencing, and a range of decorative and translucent poles.
- Building on the success of installing India' first FRP foot overbridge in March 2019, our New Materials Business (NMB) completed two more successful FRP bridge projects in FY 2019-20.
- In the industrial segment, FRP pressure vessels for water filtration, FRP tanks and chemical equipment for paper and pulp, textile and iron and steel industries were supplied. These products are best equipped to tackle corrosion and are lightweight, thereby offering a long maintenance-free service life.
- Following the initial success of supplying FRP components to the Indian Railways, NMB has entered into railway coach interiors and is working closely with key production units of the Indian Railways.



#### **→** PROCESS IMPROVEMENTS

LOUVRE, ABU DHABI

#### **TMining**

 An insight development on application of blast free mining technology (Surface Miner) in hard rock (Underground Coal Study: ~80 Mpa) such as overburden material (sandstone, shale etc.) near West Bokaro has been conducted. This would be a first of its kind in the world for removing materials that create overburden.

## CProcess Visualisation and Diagnostics (PV & DT)

 Developed a virtual pile-making model using real time data for Noamundi iron ore pile, facilitating visibility of chemical composition and material mix of every location of 100 kilo tonne pile, to identify and take corrective action in order to reduce standard deviation of iron ore fines quality.

#### Innovent

In-house platforms such as Innovent focus on identifying key customer insights and translate them into tested and scalable business models.

#### **Pravesh Vista windows**

These are hybrid windows with dual functionality features, which swing and slide open.

- Give 95% uninterrupted opening space to the user
- Provide integrated security features
- Durable and easy to maintain
- Termite resistant and rust proof
- Hassle-free, professional installation

#### French doors

- Doors with aesthetic look and greater security for areas leading to balconies, gardens and lobbies
- Are being piloted in Punjab and Kerala

#### **Smart trash bins**

These help the municipality segregate waste at source into two collection bins.

- Variable sizes and vandal proof
- Provide garbage-level information to the command centre for necessary action

#### **Smart bus shelters**

- Provide Wi-Fi connectivity and phone charging sockets
- Accessibility for the differently abled
- CCTV and hooters to ensure safety of passengers
- Enable emergency access to a central command centre

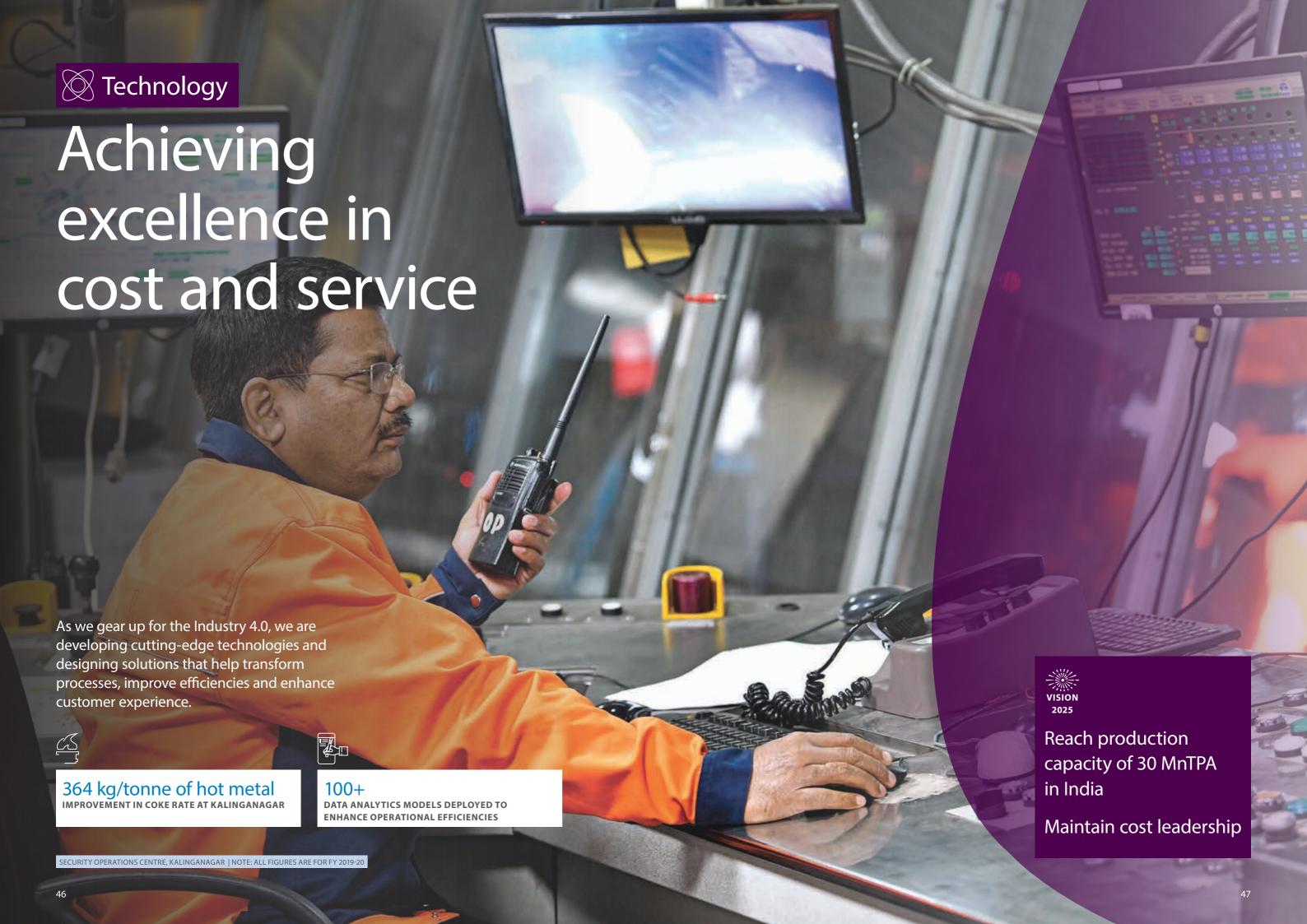
#### Solar panels

Our first-of-its-kind solar panels, made with extremely thin steel sheets, eliminate the thick, toughened glass with high-end polymers. This makes the panels practically unbreakable and are used in rooftops, mobile portable units, facades and solar bags.

- Steel integrated solar panels with all associated accessories as standard ready-to-use roof-top kits
- State-of-the-art mechanism for diverting solar power
- Easy and quick installation on flat roofs with no invasion to existing roof and no welding
- Modular structures that are lightweight, robust and wind- resistant, with complete safety features







#### **Manufacturing**

- Coke rate is an important operating parameter for an integrated steel plant, impacting cost, CO<sub>2</sub> emission and energy intensity. During FY 2019-20, the coke rate at our Kalinganagar plant improved from 399 kg/tonne of hot metal to 364 kg/tonne.
- The Shikhar25 programme focuses on delivering superior product quality, optimising product mix, improving operational efficiency to lower carbon footprint, reducing waste generation and improving waste utilisation, while maximising energy and material efficiency.

5.63 Gcal/tcs
ENERGY INTENSITY AT TSJ

6.27 Gcal/tcs
ENERGY INTENSITY AT TSK

₹4,298 crore

NOTE: ALL FIGURES FOR FY 2019-20





**Key outcomes** 

Digitalisation

value creation.

We have embarked on a long-term

transformation programme to drive

digital technology-led business

We have moved away from being capexheavy to capex-light by opting for managed services to augment the IT layers of connectivity, infrastructure and cybersecurity.



#### **DATA SECURITY**

We have deployed a full-scale Security Operations Centre (SOC) to safeguard our IT and Operational Technology (OT) data and applications, which can analyse 30,000 events per second, resulting in proactive detection and defence from cyber threats.



#### **PREDICTIVE ANALYTICS**

We have built and deployed over 100+ data analytics models to enhance operational efficiencies.

#### **CUSTOMER INTERFACE**



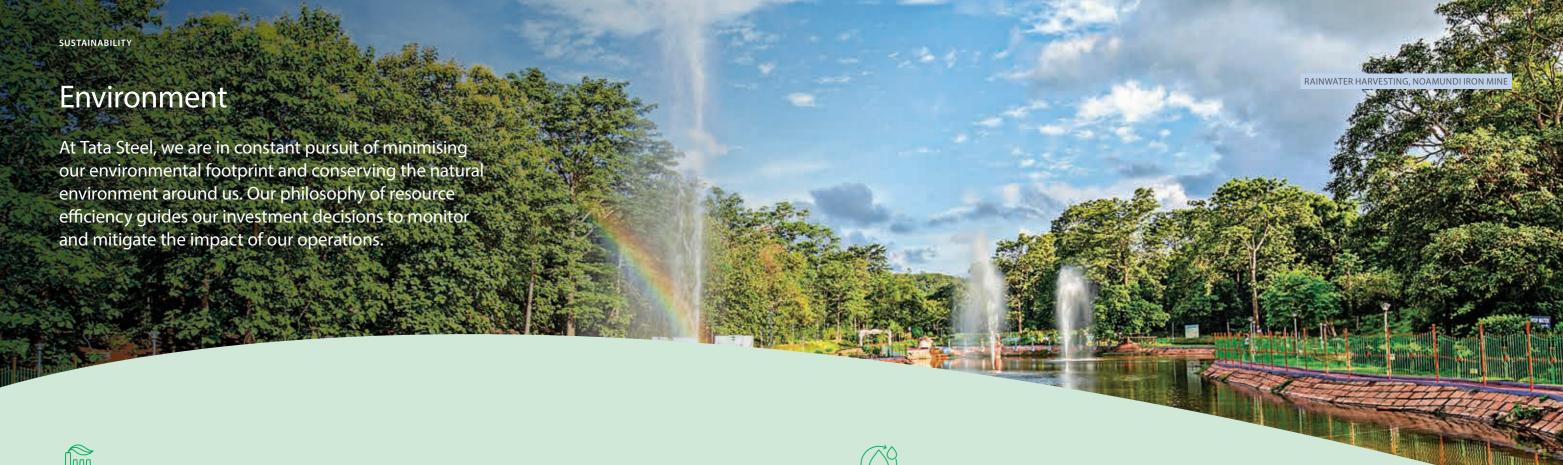
Our customer-facing digital platforms, Aashiyana, DigECA and Compass, have resulted in additional revenue and improved customer satisfaction.

#### **ROAD AHEAD**

- Be one of the top five technologically advanced global steel companies
- Become agile, intelligent and smart in all business processes and enhance stakeholder experience while generating substantial EBITDA improvement









#### **Emissions control**



#### CO, EMISSION

Tata Steel aims to achieve emission intensity <2 tCO<sub>2</sub>/tcs by 2025. We continue to implement Internal Carbon Pricing in our capital expenditure appraisal process with the shadow price of carbon at US\$15/tCO<sub>2</sub>.

Basic Oxygen Furnace route.

NOTE: ALL FIGURES ARE FOR FY 2019-20

Highlights of our CO, emission reduction projects:

- Carbon Capture and Use (CCU) at TSJ and at the Ferro Chrome plant at Bamnipal, Odisha
- Assessment of renewable energy potential across our locations in India
- Maximisation of scrap utilisation in steelmaking

TSJ is the Indian benchmark for CO<sub>3</sub> 2.31 tCO<sub>3</sub>e/tcs emission intensity at 2.29 tCO<sub>2</sub>/tcs and GHG EMISSION INTENSITY energy intensity at 5.67 GCal/tcs for steel production through the Blast Furnace

#### **DUST AND GASEOUS EMISSIONS**

- Upgradation of air pollution control equipment and better environment management in Jamshedpur, resulting in 25% reduction in dust emission since FY 2016-17
- Pollution control system operations established at Kalinganagar resulting in 56% reduction in dust emissions from the first year of operations in FY 2016-17



### Water management



3.11 m<sup>3</sup>/tcs

**SPECIFIC WATER** 

CONSUMPTION

- Specific consumption of freshwater at Jamshedpur was at an all-time best at 2.8 m³/tcs, which is also an Indian steel industry benchmark
- Constructed 177 water harvesting structures largely for agricultural use and partly for domestic use

Rated 'B' in Climate **Change and Water** related disclosures in 2019

**Tata Steel Bara Tertiary Treatment Plant** won the 'Industrial Water Project of the Year 2019' Award presented by the Global Water Intelligence (GWI)

53

0.38 kg/tcs **DUST EMISSION INTENSITY** 





#### **Circular economy**



Steel is 100% recyclable and we are setting the bar in the industry with our steel recycling business that will help meet the growing demand for steel in a sustainable manner. It will formalise the scrap market in India and help the country transition to a scrap-based steelmaking route for a more sustainable future.

- Recovered metal from steel slag is utilised in the steelmaking process and this scrap is used in steel melting shops, along with clean scrap and pooled iron.
- Tata Steel handles ~17 MnTPA of by-products, which is converted and sold across 20+ product categories every year.
- A steel scrap processing unit is under commissioning at Rohtak, Haryana with a 5,00,000 tonne per year capacity.
- Tata Steel has formed a Carbon Impact Centre to have a focused intervention to drive low carbon transition and initiatives and to achieve a goal of carbon neutrality in the long-term.

0.73 m<sup>3</sup>/tcs EFFLUENT DISCHARGE INTENSITY

100% TOTAL SOLID WASTE UTILISATION





While Tata Steel's current operations in India are not located in any of the identified biodiversity hotspots or protected areas, our mining operations (being extractive in nature) impact the flora and fauna in the region.

Therefore, we voluntarily partnered with the International Union for Conservation of Nature (IUCN) at our raw material locations in Jharkhand and Odisha for the implementation of biodiversity management plans.

### 100%

**TOTAL RAW MATERIAL SITES COVERED UNDER THE BIODIVERSITY** MANAGEMENT PLAN

#### **ROAD AHEAD**

- Continue investing in technologies

#### **IMPACT ON SDGS**











NOTE: ALL FIGURES ARE FOR FY 2019-20



#### **Thousand Schools Programme**

facilitates education for children, through better teaching and learning methods, while improving school governance through School Management Committees.

#### **Learning Beyond School** is

a fully-community-managed education resource centre that enables children to learn beyond school hours and become familiar with digital technology.

#### FY 2019-20 outcomes

- ~2,00,000 children's lives impacted through the Thousand Schools Programme
- Almost all blocks in Odisha are now child labour-free zones

### 3,400 youth **REACHED THROUGH 32**

**COMMUNITY-RUN EDUCATION RESOURCE CENTRES IN ODISHA** 

Residential camp schools, known as Masti Ki Pathshala, cater to children who are either dropouts or from vulnerable backgrounds engaged in child labour.

#### Saving Lost Childhood

programme aims to reduce child labour in Jamshedpur.

#### FY 2019-20 outcomes

- 700+ children covered from ~3,000
- 10 residential and non-residential facilities in Jamshedpur

CHILDREN MAINSTREAMED UNDER **MASTI KI PATHSHALA** 



**Empower youth** by training stakeholders and providing them access to unparalleled sports facilities and nurturing sporting talent with career potential.

#### **Outcomes**

53,844

YOUTH ENGAGED THROUGH **DIFFERENT SPORTS ACTIVITIES** 



#### Response to the COVID-19 pandemic

Have been spearheading a deep-dive into both the urban and rural communities in Jharkhand and Odisha since late March 2020 under a ten-point agenda, #CombatCovid-19

The agenda includes:

- Provision of food and dry rations with hygiene kits to vulnerable communities
- Enabling income-generation opportunities
- Co-ordinating volunteer assistance to assuage the anxieties of citizens in light of uncertainty

### 8,02,095

LIVES IMPACTED THROUGH OUR INITATIVES DURING THE PANDEMIC

- Supporting migrant labour across India to connect with their families besides
- Provision of relief materials
- Creating market linkages for farmers to ensure their crops get a fair price amid the lockdown

#### Prioritising maternal and child health

#### **FY 2019-20 outcomes**

- Reached 58,620 mothers and children and enabled the reach of ASHA system to their homes
- Sexual and reproductive health knowledge to 15,800 adolescents

### 97,000

PEOPLE EDUCATED ON THE **HEALTH AND SURVIVAL OF WOMEN AND CHILDREN BEFORE, DURING AND AFTER CHILDBIRTH** 

#### Focus on water consumption and effluent discharge

#### FY 2019-20 outcomes

- Minimising freshwater consumption by upgradation of existing water treatment and cooling tower systems to increase its efficiency and reusing treated waste water from sewage Treatment Plant at Bara for industrial purpose
- Undertaken river basin study to identify watershed-level risks at Jamshedpur

**ASPIRE TO ACHIEVE SPECIFIC WATER** CONSUMPTION OF <3 M3 BY 2025





#### Livelihood

#### **Technical education institutes**

improve employability of the youth in our community through professional skilling courses.

**Ek Pahal** is a skilling initiative to constructively engage prison inmates by imparting in-house training to enable them to secure gainful employment, both within and outside the jail.

Digital skills for rural children imparted through a classroom-onwheels, **Kaushalyan**, using an air-conditioned bus with workstations, an LED TV display as well as a trained computer faculty.

**Nursing programmes** to help address the issues of poverty, unemployment and mass migration through nursing training.

#### Outcomes

5.504 YOUTH ENROLLED

2,733

YOUTH TRAINED

2,197 YOUTH PLACED/SELF-EMPLOYED

#### Women Self-help Groups (SHGs)

created in our communities to help impart skills and empower them to run an enterprise.

#### **Outcomes**

14.822

**WOMEN EMPOWERED THROUGH** SHGs

#### Improve agricultural productivity

by investing in enhanced irrigation facilities for the community, waste land development and other allied activities.

#### **Outcomes**

## 17,032

**FARMERS BENEFITED THROUGH** AGRICULTURE PRODUCTIVITY **TECHNIQUES AND ALLIED ACTIVITIES** 



# Tribal Identity

Samvaad serves as an international platform for discussion among tribal communities.

#### Outcomes

**REGIONAL EDITIONS OF** SAMVAAD HELD ACROSS INDIA

## 2,115 tribals

FROM 150 TRIBES OF 13 COUNTRIES **ATTENDED THE SAMVAAD 2019 EVENT** 

Preserve literary and cultural tribal **heritage** in partnership with 12 tribal organisations.

#### Outcomes

### 23,005 students

OF JHARKHAND AND ODISHA STUDIED FIVE TRIBAL LANGUAGES **IN 464 LANGUAGE CENTRES** 

#### ROAD AHEAD

- to quality education and healthcare for infants,
- nurture leadership potential among tribal youth
- the differently abled and enabling better selfgovernance among citizens at the Panchayat level

#### **IMPACT ON SDGS**













## People

Investing in people, striving to be the employer of choice, while creating a safe and healthy workplace constitute key priorities for Tata Steel. Industrial harmony of 90-plus years and a century-old trade union is a testament to our culture of 'working together'.



# Occupational Health and Safety (OHS)

We have instituted policies that drive a culture of safety consciousness and prevention across our entire operations. Our commitment is reflected in the successful ramp-up of the Kalinganagar facility while maintaining the best practices in health and safety.

**Leadership capability** building at all levels to achieve zero harm and promote a safety-positive behaviour

#### Outcomes

~44%
REDUCTION IN HIGH POTENTIAL

**INCIDENTS** 

Elimination of safety incidents on road and rail to achieve safe, efficient and smart transport

#### Outcomes

 Three fatalities inside plant premises sustained between FY 2014-15 and FY 2018-19

**Competency and capability building** to mitigate hazards and manage risks

#### Outcomes

- ~300 supervisors and senior associates from various Centre of Excellence (CoE) departments trained on Process Safety Management
- 10 safety standards simplified, including development of e-learning modules

**Contractor safety risk management** to engage and empower the sizeable contract workforce

#### **Outcomes**

- 840+ high-risk job vendors assessed, of which 246 upgraded to 4-star rating and one to 5-star rating
- 100% contractor employees trained and certified on various skills

**Process safety management** to ensure effective control of risks at high-hazard operations

#### **Outcomes**

## 1.2%

#### IMPROVEMENT IN HEALTH INDEX

- Improvement in Health Index from 12.62 in FY 2018-19 to 12.70 in FY 2019-20
- ~7,600 employees trained to improve competency on first-aid and CPR
- 15 hazard control projects implemented in TSJ and Jharia Division for reduction of exposure level

32,984 employees on ROLL (INDIA) 6.9% women IN THE WORKFORCE FOSTERING DIVERSITY AND INCLUSION | NOTE: ALL FIGURES ARE FOR FY 2019-20

NOTE: ALL FIGURES ARE FOR FY 2018-19







We have implemented the Employee Productivity Framework across our facilities and we continue to identify redundancies through programmes such as right skilling, **Sunhere Bhavishya Ki Yojna** and a job-for-job scheme. We are making significant progress in simplifying the organisation structure, systems and communications.

We also have a Workforce Capability and Capacity Framework to assess capability needs across the workforce for skill and competence building, customer focus, organisational performance, innovation, health and safety, and environment and business ethics.

## 803 tcs/employee/year IN THE WORKFORCE

₹152.33 crore
INVESTED IN EMPLOYEE TRAINING
AND DEVELOPMENT

NOTE: ALL FIGURES ARE FOR FY 2019-20

MOSAIC, our marquee initiative, covers four aspects: Gender, Person with Disabilities (PwDs), LGBTQ+, and other marginalised sections of the society. Through this initiative, we are inducting female engineers in manufacturing, sensitising employees about diversity and inclusion, retaining and developing diverse talent, creating infrastructure to simplify lives of working parents and members of the workforce with special needs.

With the objective of enabling greater flexibility and empowering our people, we provide paternity leave for blue-collared workers, offer project-based and full-time roles to women willing to return to work after a hiatus, facilitate satellite office operation for those with location constraints, provide menstrual leave without approval to those that require it, provide adoption leave to single male and transgender employees, and so on.

17.5% EMPLOYEES FROM THE AFFIRMATIVE ACTION COMMUNITY



#### **ROAD AHEAD**

- Improve employee productivity
- Be one of the best places for people to work
- Zero fatality
- 2% improvement in health index year on year

#### **IMPACT ON SDGS**



# Directory of group companies

Name	Holding Type	Holding (9
Tata Steel Special Economic Zone Limited	Subsidiary	100
Tata Steel Utilities and Infrastructure Services Limited (formerly Jamshedpur Utilities & Services Company Limited)	Subsidiary	100
Kalimati Global Shared Services Limited	Subsidiary	100
Rujuvalika Investments Limited	Subsidiary	100
T S Alloys Limited	Subsidiary	100
TSIL Energy Limited	Subsidiary	100
Tata Steel Downstream Products Limited (formerly Tata Steel Processing and Distribution Limited)	Subsidiary	100
The Tata Pigments Limited	Subsidiary	100
Tata Steel Foundation	Subsidiary	100
Jamshedpur Football and Sporting Private Limited	Subsidiary	100
Bhubaneshwar Power Private Limited	Subsidiary	100
Bamnipal Steel Limited	Subsidiary	100
Bhushan Steel (Orissa) Limited	Subsidiary	100
Bhushan Steel (South) Limited	Subsidiary	100
Bhushan Steel (Madhya Bharat) Ltd.	Subsidiary	100
The Indian Steel & Wire Products Ltd.	Subsidiary	95.01
Subarnarekha Port Private Limited	Subsidiary	50.41
Adityapur Toll Bridge Company Limited	Subsidiary	88.50
The Tinplate Company of India Limited	Subsidiary	74.96
Tata Steel BSL Limited	Subsidiary	72.65
Haldia Water Management Limited	Subsidiary	60
Tata Metaliks Limited	Subsidiary	55.06
Tayo Rolls Limited	Subsidiary	54.91
Tata Steel Long Products Limited (formerly Tata Sponge Iron Limited)	Subsidiary	54.50
Creative Port Development Private Limited	Subsidiary	51
Angul Energy Limited (formerly Bhushan Energy Limited)	Associate	99.99
Bhushan Capital & Credit Services Private Limited	Associate	42.58
Jawahar Credit & Holdings Private Limited	Associate	39.65
TRF Limited	Associate	34.11
Tata NYK Shipping (India) Private Limited	Joint Venture	100
TKM Global Logistics Limited	Joint Venture	100
Naba Diganta Water Management Limited	Joint Venture	74
TM International Logistics Limited	Joint Venture	51
Jamshedpur Continuous Annealing & Processing Company Private Limited	Joint Venture	51
SEZ Adityapur Limited	Joint Venture	51
Mjunction Services Limited	Joint Venture	50
Tata BlueScope Steel Private Limited	Joint Venture	50
Jamipol Limited	Joint Venture	39.78
Himalaya Steel Mills Services Private Limited	Joint Venture	26
Industrial Energy Limited	Joint Venture	26
**		
Medica TS Hospital Private Limited	Joint Venture	26
Nicco Jubilee Park Limited NOTE: ALL FIGURES ARE AS ON MARCH 31, 2020.	Joint Venture	25.31



Tata Steel Limited

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