

# SEVERAL INITIATIVES TAKEN BY THE MINISTRY OF STEEL TO SUPPORT A COMPETITIVE, EFFICIENT, ENVIRONMENT FRIENDLY STEEL INDUSTRY, ADHERING TO GLOBAL SAFETY AND QUALITY STANDARDS

Relevant for: Indian Economy | Topic: Issues relating to Growth & Development - Industry & Services Sector incl. MSMEs and PSUs

Ministry of Steel

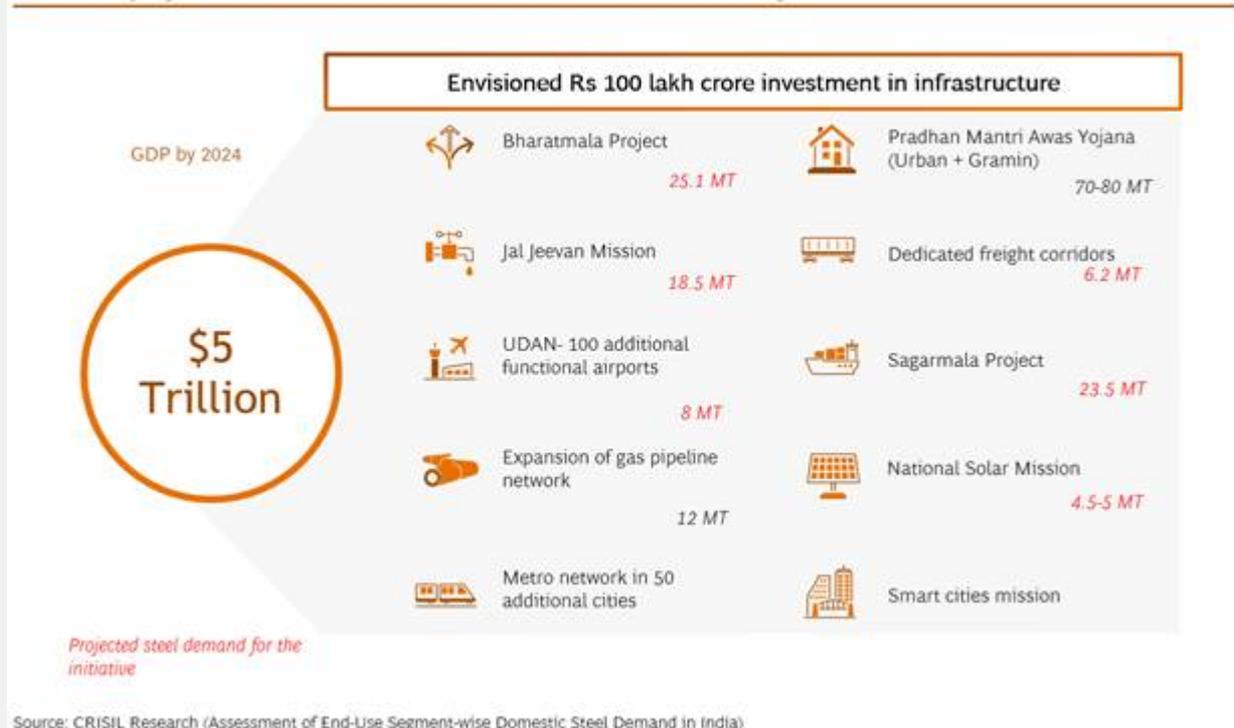
## Several initiatives taken by the Ministry of Steel to support a competitive, efficient, environment friendly steel industry, adhering to global safety and quality standards

Posted On: 24 DEC 2019 10:24AM by PIB Delhi

### Steel: Crucial in India’s ascent to \$5 Trillion economy

The Government's vision to achieve a \$5 trillion economy by 2024 entails investments worth INR 100 lakh crore in infrastructure sectors, including several steel intensive sectors like Housing for All, 100% electrification, piped water for all etc. Steel has several inherent advantages of durability, faster completion time, reduced environmental impact, and creation of a circular economy. Steel will have a crucial role to play in India's rise to a \$5 trillion economy.

#### Steel will play a critical role in India's rise to a \$5 Trillion economy



## 5-year Vision of the Ministry of Steel

Keeping in mind the importance and relevance of steel in building a \$5 trillion economy, the Ministry of Steel has defined its Vision in order to shape and drive the Indian steel sector. To ensure the Vision incorporates India's growth imperatives and addresses the aspirations of all stakeholders of the Indian steel ecosystem, the Ministry thoroughly studied relevant policy documents and held many stakeholder consultations such as:

- **National Steel Policy (NSP) 2017: Finalized by the Ministry of Steel and notified on 8th May 2017, the NSP laid down key imperatives to ensure that the Indian steel sector is prepared to service the growing requirements of modern India and to promote a healthy sustainable growth for the sector.**
- Publications from various high-level bodies such as NITI Aayog's publications E.g. 'Need for a New Steel Policy – 2016', 'Strategy Paper on Resource Efficiency in Steel Sector through Recycling of Scrap & Slag' etc.
- 90+ stakeholder consultations from across breadth of the steel value chain including - raw material providers; primary, secondary and end user industries; logistics and other enabling industries
- **“Chintan Shivir” - an idea generation event involving 900+ representatives from across the Steel sector**
- Consultations and discussions with relevant Central ministries and State governments

Derived from the detailed studies and consultations to further develop the Indian steel sector and to ensure a robust and globally competitive domestic steel industry as a critical pillar in India's ascent to a \$5 trillion economy in a rapid environmentally sustainable manner, the Ministry of Steel has laid out a comprehensive vision:

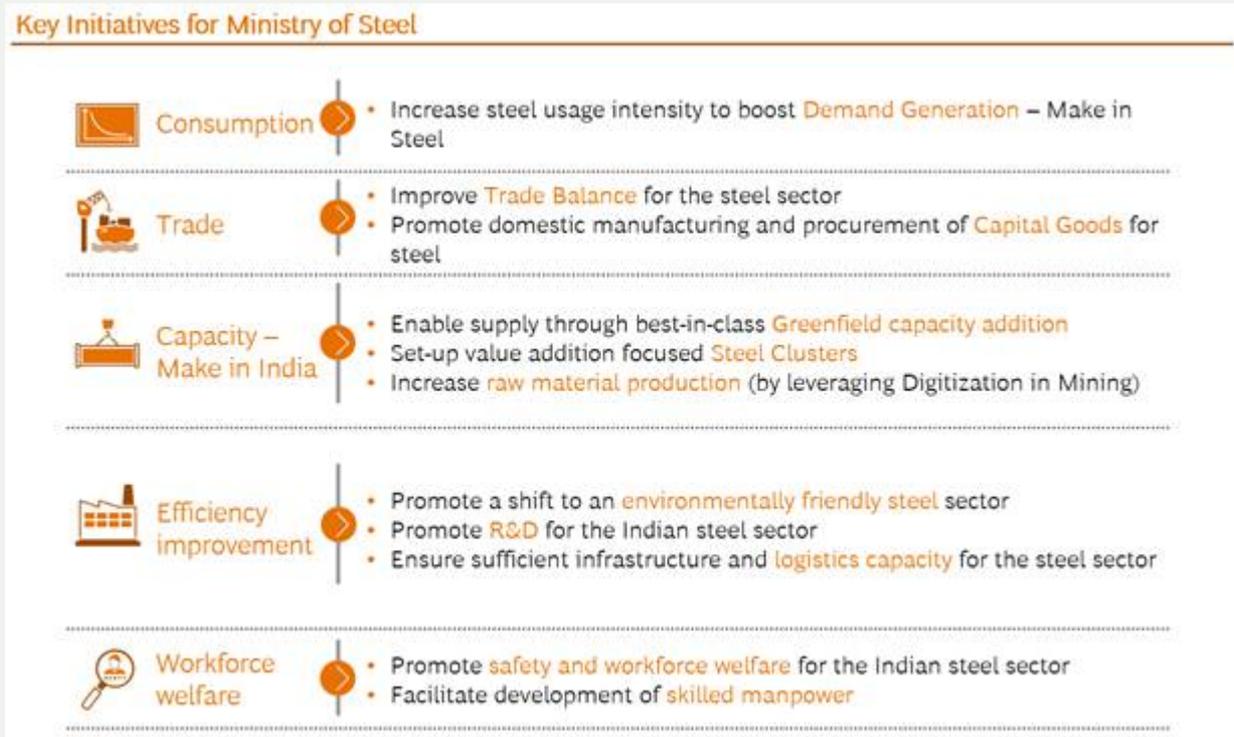
***“Meet the anticipated demand of 160 million tons of steel for becoming a \$5 trillion economy, through a competitive, efficient, environment friendly steel industry, adhering to global safety and quality standards.”***

### Key Elements of Vision for Ministry of Steel

 Consumption	• Develop structured intervention roadmap to facilitate growth in domestic steel consumption
 Trade	• Transform India's steel sector from a net importer to a net exporter
 Capacity – Make in India	• Provide appropriate policy support to facilitate capacity addition to enhance crude steel production from 111 MTPA to 169 MTPA by 2024
 Efficiency improvement	• Develop world class steel plants with best in class technology, environment adherence and safety norms
 Workforce welfare	• Create and facilitate employment (direct and indirect) for 12 Million people by 2024

## Roadmap towards achievement of the 5-year vision

The 5-year vision for the Ministry of Steel defines key imperatives for the sector across 5 broad areas. In order to achieve the stated elements of the Vision, the Ministry translated each of these 5 elements into 11 key initiatives to action:



1. Increase steel usage intensity to boost Demand Generation – Make in Steel
2. Improve Trade Balance for the steel sector
3. Enable supply through best-in-class Greenfield capacity addition
4. Set-up value addition focused Steel Clusters
5. Increase raw material production (by leveraging Digitization in Mining)
6. Promote domestic manufacturing and procurement of Capital Goods for steel
7. Promote a shift to an environmentally friendly steel sector
8. Promote R&D for the Indian steel sector
9. Promote safety and workforce welfare for the Indian steel sector
10. Facilitate development of skilled manpower
11. Ensure sufficient infrastructure and logistics capacity for the steel sector

In order to ensure focus and drive tangible outcomes, The Ministry has prioritized 5 out of these initiatives due to their potential impact on ease of doing business/living, employment generation as well as their criticality to economic growth.

## 5 key prioritized strategic initiatives being driven by the Ministry of Steel



Increase steel usage intensity to boost Demand Generation



Improve Trade Balance for the steel sector



Supply through Greenfield Capacity Addition



Set-up value addition focused Steel Clusters



Increase raw material production (by leveraging Digitization in Mining)

## High Impact 100-day initiatives

From across these initiatives, 4 key elements had been prioritized by the Ministry of Steel under the 100 days agenda of the Government. A brief summary of progress on these initiatives is as follows:

### Policy initiatives implemented in 100 days agenda



Improve Trade Balance for the steel sector



- ❖ Setting up Steel Import Monitoring System (SIMS) as online import monitoring platform based on advance registration of steel imports.
  - Platform has been launched on 16<sup>th</sup> September 2019 and implementation has started at port of entry from 1<sup>st</sup> November 2019.



Promote Safety and Workmen Welfare



- ❖ Safety guidelines for iron and steel sector: To ensure adoption of safe & healthy practices
  - 25 guidelines approved after extensive deliberations. These have been uploaded on the Ministry of Steel website for adoption by the iron and steel industry.



Increase raw material production



- ❖ Steel scrap policy: To ensure adequate availability of domestic scrap to reduce imports and improve competitiveness of Indian steel sector
  - Policy has been notified on 7<sup>th</sup> November 2019.



Set-up value addition focused Steel Clusters



- ❖ Framework policy on steel clusters : To encourage SMEs to boost production of value-added steel & capital goods, import substitution & additional employment
  - Draft Policy has been uploaded online for stakeholder consultation, cabinet note under preparation.

- Framework policy on creation of steel clusters - Aimed at encouraging the MSMEs in the steel sector, this would boost production of value-added products, drive import substitution and help create additional employment in the steel sector. A draft policy for the same has been prepared and uploaded online for stakeholder consultation. A cabinet note is being prepared and the policy shall be notified post cabinet approval.**
- Steel scrap policy - To ensure adequate availability of scrap for steel manufacturers**

which will reduce imports and improve competitiveness of Indian steel sector. Steel Scrap policy has been notified on 7<sup>th</sup> November 2019 with roles and responsibilities for players (aggregators, processing centres) & government bodies (E.g. MoEFCC, CPCB) defined.

- c. **Safety guidelines for Iron and Steel sector** - Ministry of Steel had constituted a working group to develop the Model guidelines of safety practices for iron and steel sector. This shall ensure that safe practices are adopted in all manufacturing units, large and small, of iron & steel. It shall ensure a healthy working environment and guard against possible hazards and risks at the workplace. 25 safety guidelines have been finalized and uploaded on the Ministry of Steel website for adoption by the iron and steel sector.
- d. **Steel Import Monitoring System (SIMS)** - An institutional mechanism in conjunction with DGFT has been envisioned for steel import monitoring. This would be a completely online system for advance registration for intended imports of steel. This information would be useful to the Indian domestic steel industry in responding to market conditions in a dynamic manner. SIMS platform has been launched on 16<sup>th</sup> September 2019 and implementation has already started at the port of entry from 1<sup>st</sup> November 2019.

In addition to these 4 initiatives, the Ministry of Steel has also worked on 6 other key initiatives. These initiatives include:

- a. **Raw Material Securitization** - To ensure short-term and long-term raw material security for the steel sector, the Ministry of Steel has worked closely with the Ministry of Mines to initiate several key actions.

Five proposals for amendments in the relevant mining rules have been sent to the Ministry of Mines. Some of the major proposals include:

- Rule 3 of Mineral (Mining of Govt. Companies Rule) 2015 – Word “may” would be replaced with “shall” to remove uncertainty
  - Reduction in royalty proposed from 15% to 5% to dispose low grade fines to incentivize pelletization and beneficiation
  - Liquidation of 70 MT iron ore fines (including slime) at SAIL
  - Increasing the size of mining lease areas
- c. **Digitization of mines in steel CPSEs** - To improve the operational and cost efficiencies as well as to increase the transparency in the mining sector, digitization is being driven across the Steel CPSEs. Detailed roadmap has been put in place to kick-start the digitization journey for the iron ore mining sector in the country for improvements in utilization, productivity and safety. The project will involve 2 phases with involvement from key Central Public Sector Enterprises. Identification and institutionalization of digital lighthouse project by NMDC to identify and streamline operating modalities has been initiated.
  - d. **Noamundi block initiative** - Social indicators of the Noamundi Block in the West Singhbhum (Chaibasa) District, Jharkhand are not reflective of richness of area in terms of natural resources (iron ore). Large organizations like SAIL, Tata Steel etc. have significant experience that can be leveraged for social transformation in the region. Core team has been set up under the leadership of Deputy Commissioner, West Singhbhum with representatives from SAIL, Tata Steel and Ministry of Steel. This program focuses on collaboration and convergence of efforts, resources, technology and thereby enabling people to participate in economy and governance.

- e. **Outreach to workforce of Steel CPSEs - People are the key drivers of success for most organizations. This is even more prominent in an employment intensive sector like steel. Therefore, they need to be the focus of the organization and their issues need to be taken care of. For this, multiple actions have been initiated at the steel CPSEs. At SAIL, pension scheme is being implemented and process for Wage Revision, 2017 of Non-executives and 3<sup>rd</sup> PRC for executives will be implemented.**
- f. **Synergising steel CPSEs' hospitals with Ayushman Bharat - Ayushman Bharat Yojana was launched in 2018 as the national health protection scheme by providing coverage of 5 lakh rupees per family per year for secondary and tertiary care hospitalization. SAIL maintains 3000+ beds in its hospitals for employees, families and others. These SAIL hospitals will be linked with the Ayushman Bharat Yojana to leverage existing synergies. Process of empanelment of these hospitals with Ayushman Bharat Yojana will be completed.**
- g. **Promotion of Steel Usage - In order to leverage the several benefits afforded by steel and to transition to an environmentally sustainable steel sector, it is crucial to promote steel usage in the country. Multiple initiatives have already been initiated for enhancing the domestic steel demand. These include:** Draft note of Committee of Secretaries (CoS) sent for inter-ministerial consultation. Under this note, multiple proposals for addition/modifications of steel based construction codes and necessary clauses in tender documents have been included to improve steel usage. Additionally, initiatives to increase steel usage in road and bridge construction have also been included. Collaborative branding campaign of '*Ispati Irada*' launched with logo, portal and communication by national level brand ambassador P.V. Sindhu. Letters sent to various Central Ministries/ Departments to improve usage of steel in Government projects. Requests sent to State Governments for increasing usage of steel intensive/composite structures in building and bridge construction projects and for putting up steel crash barriers.

Interactions held with INSDAG, SAIL-CET, MECON, HSCL, ISA, architects, builders, and contractors for increased steel usage in commercial and residential construction.

A brief on Indian Steel Sector is given below:

### **BRIEF ON INDIAN STEEL SECTOR**

The steel industry has been a core pillar of industrial development in India. From a capacity of ~1MT at the time of independence, India's crude steel capacity has risen to ~142 MT at present and India has become the world's second largest producer of steel (~111 MT crude steel production in 2018). A vibrant domestic steel industry is important for a developing economy as it is a critical input across major sectors such as construction, infrastructure, automotive, capital goods, defence, rail etc. Steel has also been proven to be a driver for prompt environmentally sustainable economic development due to its recyclable nature and faster associated completion times. The steel sector is also pivotal for a nation due to driving employment generation and economic growth. It has a multiplicative effect on the economy stemming from both direct and associated effects on the supply chain and consumption industries.

The Ministry of Steel, Govt. of India is responsible for planning and development of iron and steel industry, development of essential inputs such as iron ore, limestone, dolomite, manganese ore, chromites, ferro-alloys, sponge iron etc. and other related functions.

## 1. Steel industry at a glance

The steel industry in India is well established and has shown a steady growth. The demand for finished steel has consistently grown at 6.4% over the past 5 years reaching ~99 MTPA in 2018-19. In accordance with the rising demand, the crude steel capacity in the country has also increased to 142 MTPA.

### 1.1 India's crude steel capacity and production:-

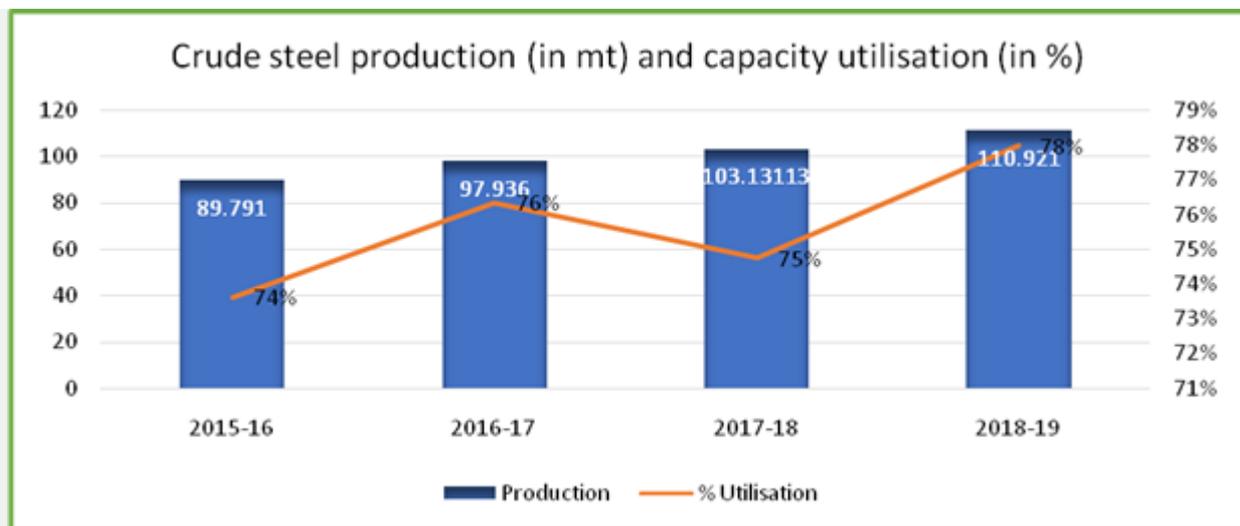
Domestic crude steel capacity and production has shown a sustained rise since 2014-15. Crude steel production grew at a compound annual growth rate (CAGR) of 5.6% during the last five years ending 2018-19 along with robust capacity expansion from ~110 Million Tonnes (MT) in 2014-15 to ~142 MT in 2018-19, showcasing a strong 6.6% CAGR.



India's crude steel capacity and production (2014-19) (Source: JPC)

- Crude steel capacity in country stood at 142.236 million tonnes in 2018-19 while production of crude steel reached at 110.921 million tonnes.

<b>Capacity and Production of Crude Steel</b>			
(in million tonnes)			
<b>Year</b>	<b>Working Capacity</b>	<b>Production</b>	<b>% Utilisation</b>
2015-16	121.971	89.791	74%
2016-17	128.277	97.936	76%
2017-18	137.975	103.131	75%
2018-19	142.236	110.921	78%
Source: JPC			



## 1.2 India's position in global crude steel production

This consistent growth in production has ensured that India remains a dominant player in the global steel industry. India was the 2<sup>nd</sup> largest crude steel producer (75.69 MT) with a 6.1% share in total world production and a 4.4% growth in production over same period of 2018.

Country	2016	2017	2018	Jan-Oct 2019
China	807.610	870.855	923.836	828.330
India	<b>95.480</b>	<b>101.455</b>	<b>109.272</b>	<b>93.304</b>
Japan	104.780	104.662	104.319	83.791
United States	78.480	81.612	86.607	73.539
South Korea	68.580	71.030	72.464	60.121
Russia	70.450	71.491	71.246	59.341
Germany	42.080	43.297	42.435	34.017
Turkey	33.160	37.524	37.312	27.973
Brazil	31.280	34.365	35.407	27.216
Italy	23.370	24.068	24.532	19.845
Others	271.680	289.441	281.607	233.406
<b>Total</b>	<b>1626.950</b>	<b>1729.800</b>	<b>1789.035</b>	<b>1540.882</b>

Source : WSA, Statistical Year Book 2019

- The country is 3<sup>rd</sup> largest consumers of finished steel in world in 2018 and expected to be 2<sup>nd</sup> largest consumers soon. As per WSA forecast, India will be 2<sup>nd</sup> largest steel user by 2019.

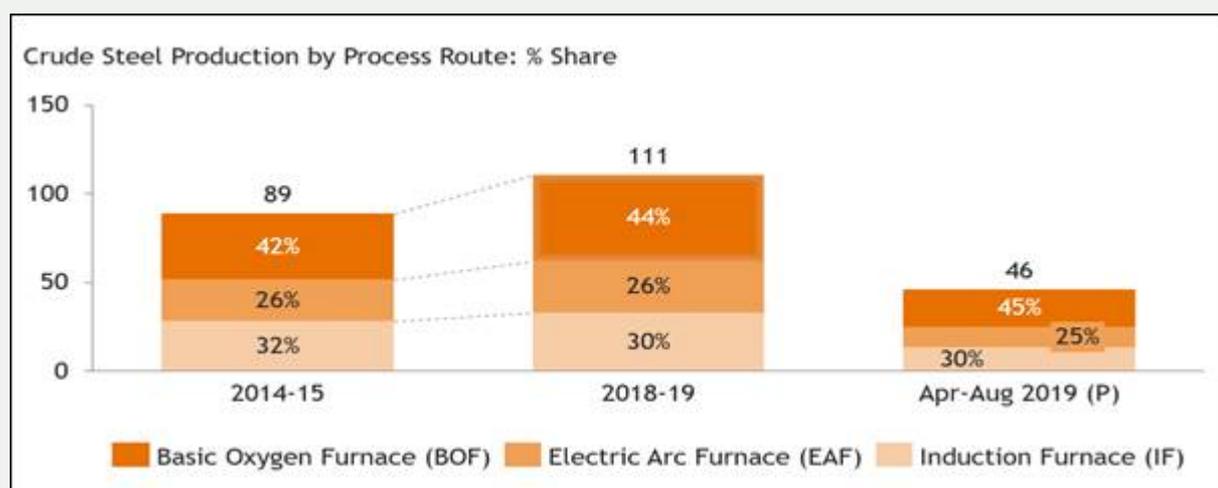
Countries	2016	2017	2018	2019 (f)	2020 (f)
China	681.000	773.800	835.0	900.1	900.1
United States	91.900	97.700	100.2	100.8	100.8
<b>India</b>	<b>83.643</b>	<b>88.680</b>	<b>96.7</b>	<b>101.6</b>	<b>101.6</b>
Japan	62.200	64.400	65.4	64.5	64.5

South Korea	57.100	56.300	53.6	53.9	5
Russia	38.700	40.900	41.2	43.2	4
Germany	40.500	41.000	40.8	37.2	3
Turkey	34.100	35.900	30.6	26.1	2
Italy	23.700	25.100	26.4	26.9	2
Mexico	25.500	26.500	25.4	24.7	2
Other	381.157	382.220	396.8	396.0	40
<b>Total</b>	<b>1519.500</b>	<b>1632.500</b>	<b>1712.1</b>	<b>1775.0</b>	<b>18</b>

Source : WSA, Statistical Year Book 2019, short range outlook Oct. 2019

### 1.3 Share of different routes of production in India

This growth in capacity has been enabled by a vibrant growth across all three routes of production (BOF, EAF and IF) ensuring the Indian steel industry remains extremely diverse. One of the key factors for India's strong growth rate in crude steel capacity has been the exceptional growth rate in the electrical route of steel making (EAF and IF), which accounted for 56% of the crude steel production in 2018-19.



Crude steel production by process route (2014-19) (Source: JPC)

### 1.4 Consumption of Steel

- The per capita consumption of finished steel in India has been rise from 60.8 kg in 2014-15 to 74.1 kg in 2018-19

Description	2015-16	2016-17	2017-18	2018-19
<b>Crude steel Production</b>	89.790	97.936	103.13	110.92
<b>Finished steel Production</b>	102.904	115.91	126.855	101.28
Imports	11.712	7.227	7.483	7.833
Export	4.079	8.243	9.620	6.36

Apparent Steel Use (ASU)	81.525	84.042	90.707	98.70
% Growth	5.9%	3.1%	11.3%	17.5%
Population (MOSPI) in Crores	128.3	129.9	131.6	133.2
<b>ASU per capita (kg)</b>	63.54	64.70	68.93	74.11
% Growth	4.6%	1.8%	8.5%	14.5%

Source JPC, \*Crude Steel equivalent

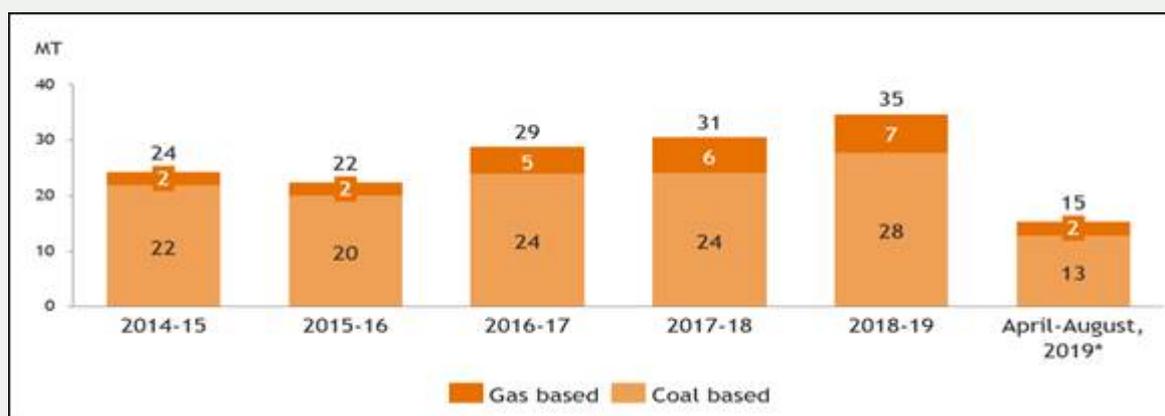
- The per capita consumption of finished steel in India as per calendar years is given below.

Total Finished Steel	2015	2016	2017	2018
ASU (in million tonnes)	80.075	83.643	88.68	96.73
Population (MOSPI) (in Crores)	126	127	129	132
ASU per capita (kg)	64	66	69	73
% Growth	4.9%	3.1%	4.5%	6.2%

### 1.5 India's robust steel input industries

India's strong growth in crude steel and finished steel production has been supported and enabled by vibrant sponge iron (especially for electrical routes of steel making) and pig iron industries which serve as crucial inputs for the steel industry.

India has been the world's leading producer of sponge iron since 2003, with a host of coal-based units located in the mineral rich states of the country. Over the years, the coal-based route has emerged as a key contributor and accounted for 80% of total sponge iron production in the country in 2018-19. Capacity in sponge iron making has also increased over the years and stood at 46.56 MT in 2018-19.



India's sponge iron production (2014-19) (Source: JPC)

India is also an important producer of pig iron. Post liberalization, with setting up several units in the private sector, not only have imports drastically reduced, but India has also turned into a net exporter of pig iron. The private sector has accounted for 91% of total production of pig iron in the country in 2018-19.

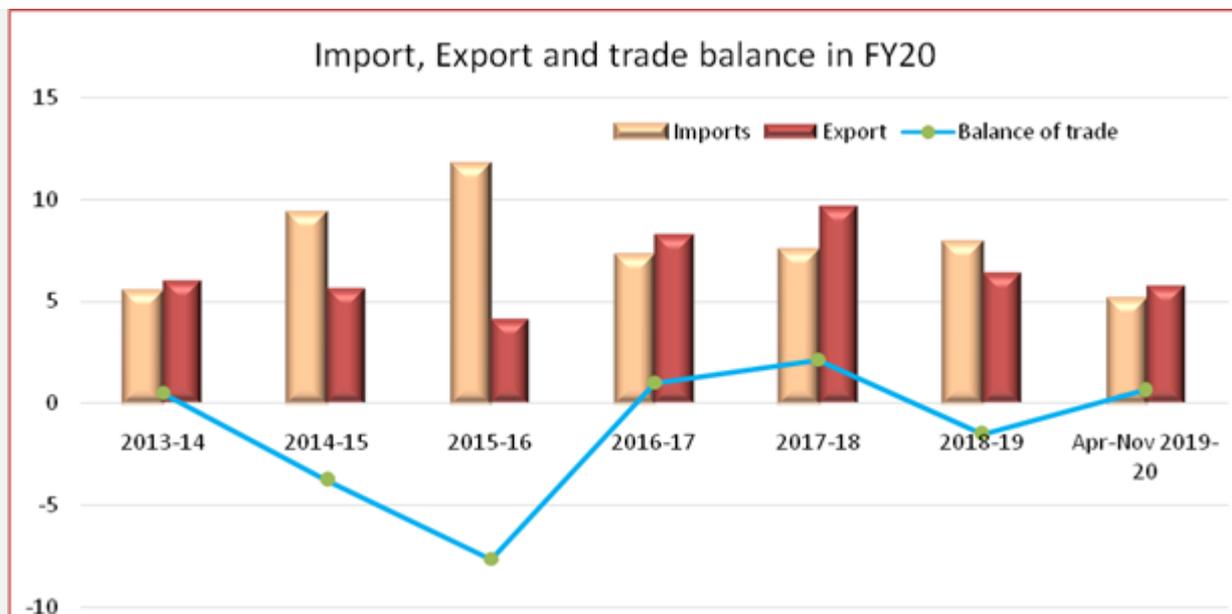
**Pig Iron Domestic Availability Scenario (in million tonnes)**

<i>Item</i>	2014-15	2015-16	2016-17	2017-18	2018-19	Apr-Aug, 2019*
<i>Production</i>	10.23	10.24	10.34	5.73	6.41	2.56
<i>Export</i>	0.54	0.29	0.39	0.52	0.32	0.15
<i>Import</i>	0.02	0.02	0.03	0.02	0.07	0.01
<i>Consumption</i>	9.06	9.02	9.04	5.19	5.09	2.46
<i>Source: JPC; *Provisional</i>						

### **1.6 India's finished steel production and net export/import scenario**

India's rising demand and strong growth in crude steel capacity has led to India's finished steel production (alloy/stainless + non-alloy) witnessing a 6% CAGR over the past 5 years. Apart from catering to a robust domestic demand, the Indian steel industry is a global exporter as well and has reduced its import requirements from 9.32 MT to 7.83 MT over the past 5 years. India was a net exporter in 2016-17 and 2017-18, however returned to being a net importer in 2018-19. India has been a net exporter of finished steel in FY20.

Trade of Finished Steel							
(in million tonne)							
<b>Trade</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>Apr-2019</b>
Imports	5.45	9.32	11.712	7.227	7.483	7.834	5.0
Export	5.985	5.596	4.079	8.243	9.62	6.361	5.7
Balance of trade	0.535	-3.724	-7.633	1.016	2.137	-1.473	0.6
Import Intensity	7.4%	12.1%	14.4%	8.6%	8.2%	7.9%	8.6
Export Intensity	8.1%	7.3%	5.0%	9.8%	10.6%	6.4%	9.7
Source: JPC							



Going forward, the Government's vision to achieve a \$5 trillion economy by 2024 entails investments in several steel intensive sectors like Housing for all, 100% electrification, piped water for all etc. The growth potential for the sector is thus immense and the domestic steel consumption will increase significantly in line with this vision. It is therefore important to ensure that this demand is served through a robust domestic steel industry. The National Steel Policy 2017 laid out a set of key imperatives to create a globally competitive steel sector.

## **2. National Steel Policy 2017**

The National Steel Policy (NSP) was approved by the Ministry of Steel and notified on 8<sup>th</sup> May, 2017 to ensure that the Indian steel sector is prepared to service the growing requirements of modern India and to promote a healthy sustainable growth for the sector. The NSP was defined with the vision “to create a technologically advanced and globally competitive steel industry that promotes economic growth”. The policy outlined key objectives for the steel sector and laid down multiple initiatives for the industry.

Key features of the NSP 2017 include establishing self-sufficiency in steel production by providing policy support & guidance to private manufacturers, MSME steel producers and CPSEs. It encourages capacity additions, development of globally competitive steel manufacturing capabilities as well as cost-efficient production by facilitating domestic availability of iron ore, coking coal & natural gas, as well as overseas asset acquisitions of raw materials. To support the sector, it also promotes initiatives to enhance the domestic steel demand.

The policy projects crude steel capacity of 300 million tonnes (MT), production of 255 MT and a robust finished steel per capita consumption of 160 Kg by 2030-31, as against the current consumption of 74 Kg. The policy also envisages 100% indigenous fulfilment of demand for high grade automotive steel, electrical steel, special steels and alloys for strategic applications along with an increase in domestic availability of washed coking coal so as to reduce import dependence on coking coal from about 85% to around 65% by 2030-31.

To action the initiatives mentioned as part of the National Steel Policy, a strategic roadmap is being created by the Ministry of Steel.

### **Development of a strategic roadmap**

The National Steel Policy 2017 outlines a variety of challenges faced by the industry and potential solutions which the Ministry of Steel should action. It defined 106 initiatives for the steel

sector across 15 different areas:

S No	Focus area	# Actions
1	Steel Demand	5
2	Steel Capacity	6
3	Raw Materials	35
4	Land, Water and Power	10
5	Infrastructure & Logistics	6
6	Product Quality	4
7	Technological Efficiency	5
8	MSME Sector	3
9	Value Addition in Alloy, Special and Stainless Steels	5
10	Environment Management	7
11	Safety	3
12	Trade	4
13	Financial Risks	2
14	Role of CPSEs & Way Forward	5
15	Focus on High-End Research: SRTMI	6

The Indian steel industry will be a key participant in several of these initiatives. The Indian steel sector is a diverse and vibrant ecosystem comprising of a multitude of stakeholders across the value chain. Each stakeholder brings valuable inputs to the sector based on their rich experience. In order to leverage these experiences and ensure efficient operationalization of the envisioned initiatives, the Ministry alongside the CPSEs regularly facilitates interaction with the various stakeholders.

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