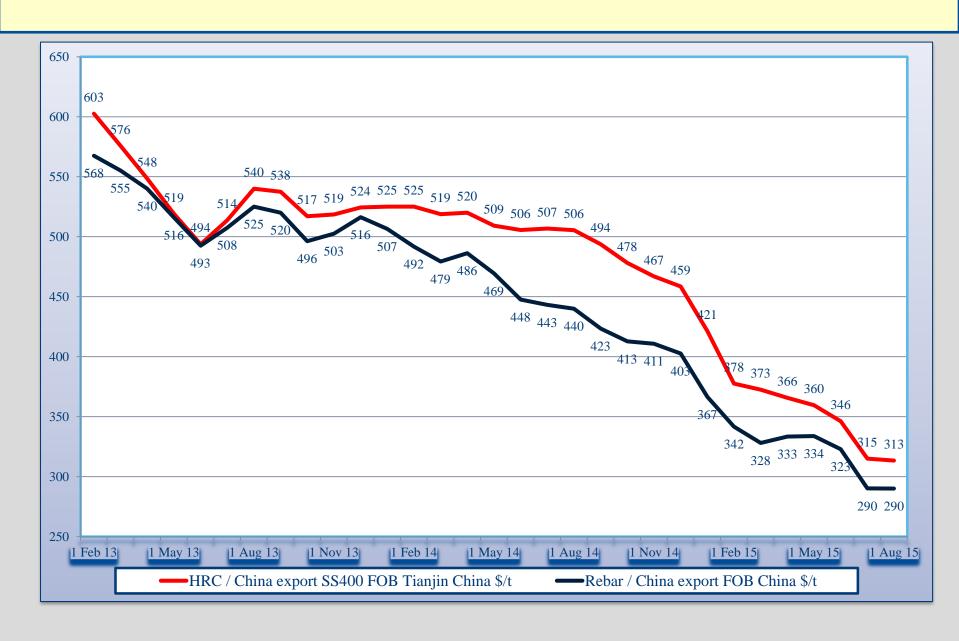
Steel Authority of India Limited Performance Highlights Q1-FY16



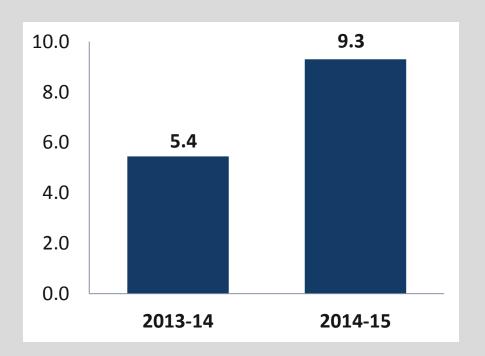
Macro-Economic Trends for Steel Sector

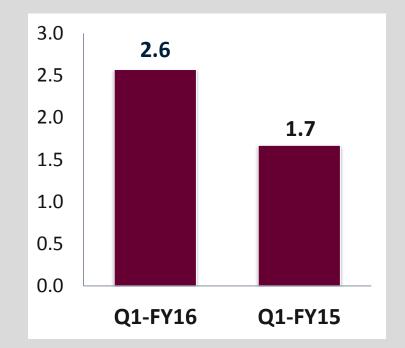
Global Steel Price Trends



Import of Finished Steel in India

Quantity in million tonne





Import of Finished Steel (Apr. – Mar.)

Q1 FY16 vs. Q1 FY15



SAIL Performance Highlights

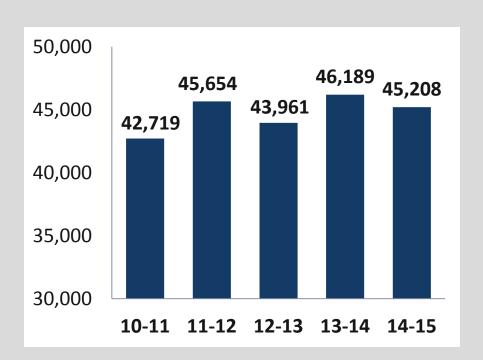
Financial Highlights Q1 FY 16 vs. Q1 FY 15

Amount in Rs. crore

Particulars	Q1 FY 16	Q1 FY 15	Increase/ Decrease	% change
Gross Sales	10552	12515	-1963	-15.7%
EBIDTA	93	1326	-1233	-93.0%
PBT*	-776	613	-1389	-226.6%
PAT*	-321	530	-851	-160.6%

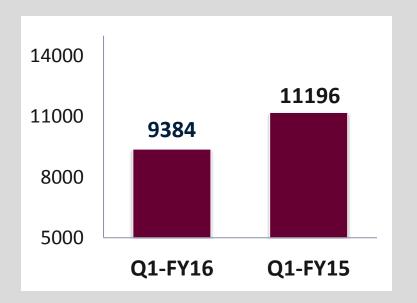


Net Sales (Rs. cr.)



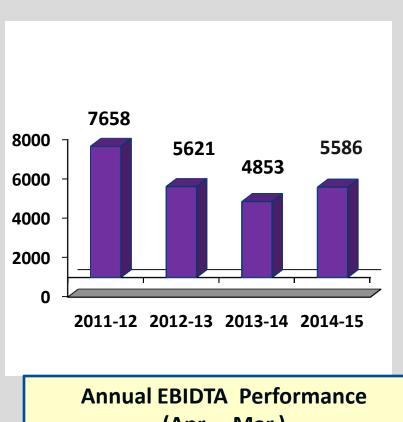
Annual Net Sales Performance (Apr. – Mar.)

Q1 FY16 vs. Q1 FY15

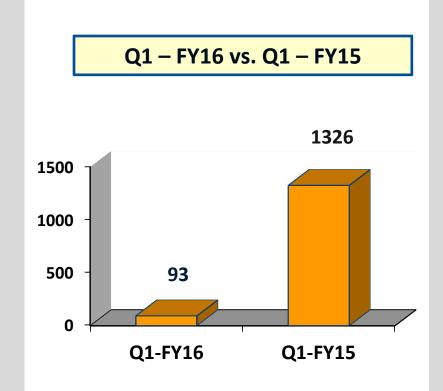




Earning Before Interest Depreciation and Tax (EBIDTA) (Rs cr.)



(Apr. – Mar.)

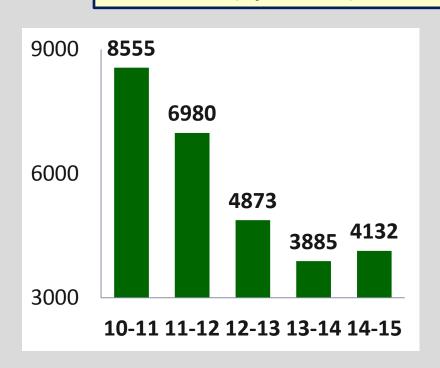


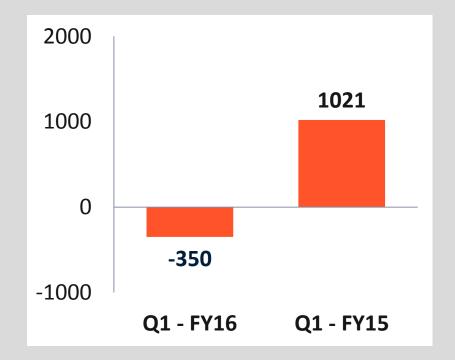


Cash Profit Unit(Rs cr.)

Annual Cash Profit Performance (Apr. – Mar.)

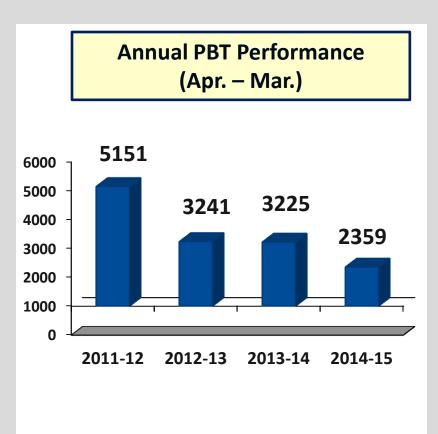
Q1- FY16 vs. Q1- FY15

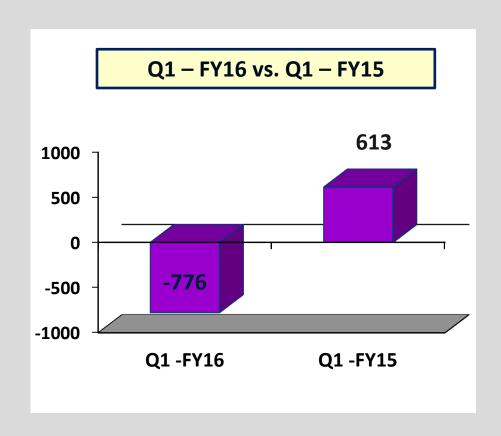






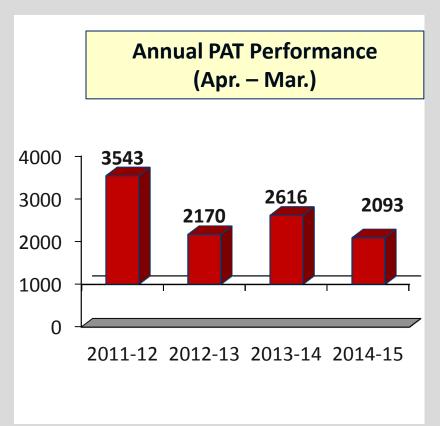
PBT (Rs. cr.)

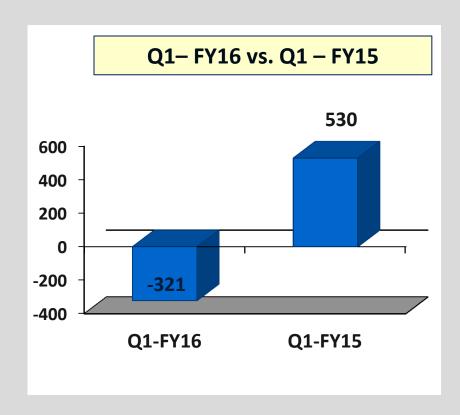






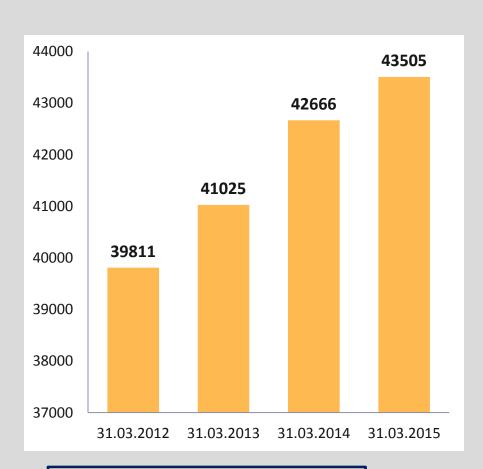
PAT (Rs. cr.)

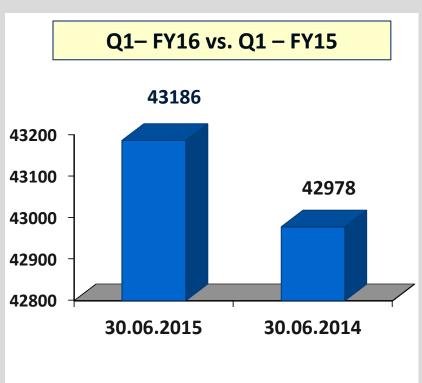






Net Worth (Rs. cr.)

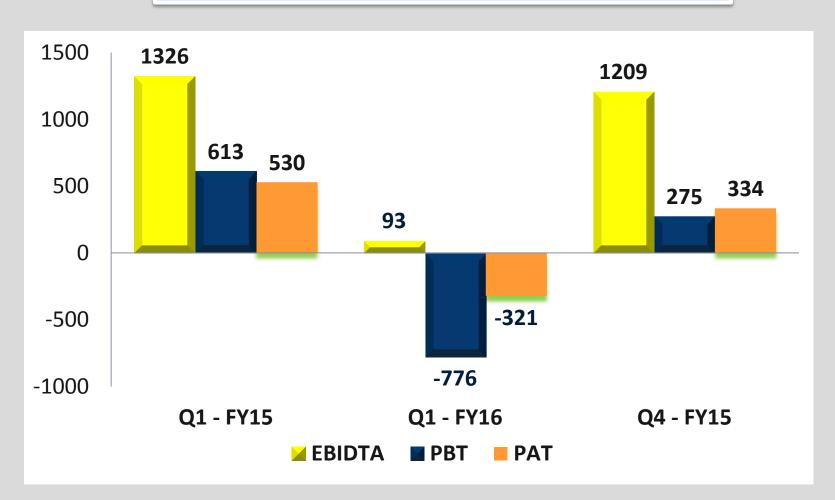




Net Worth Value - Annual

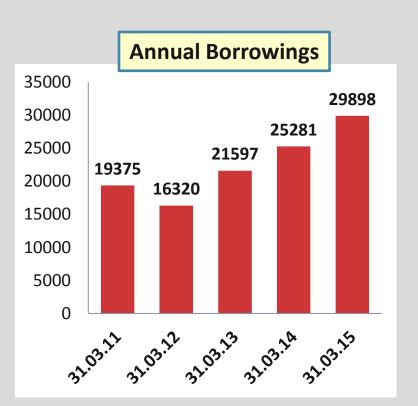


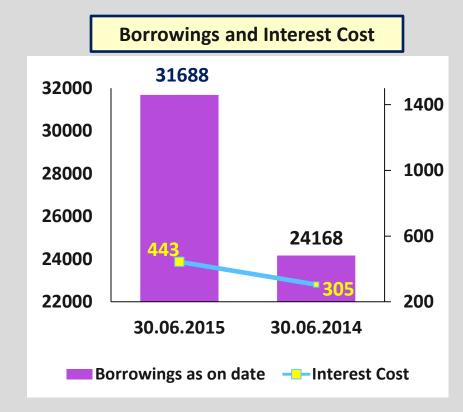
Quarter - wise Profits (Rs. crore)





Borrowings (Rs. Cr.)



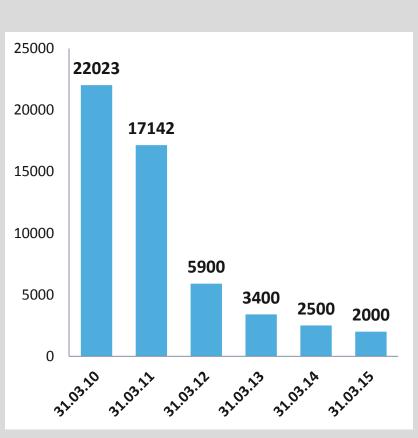


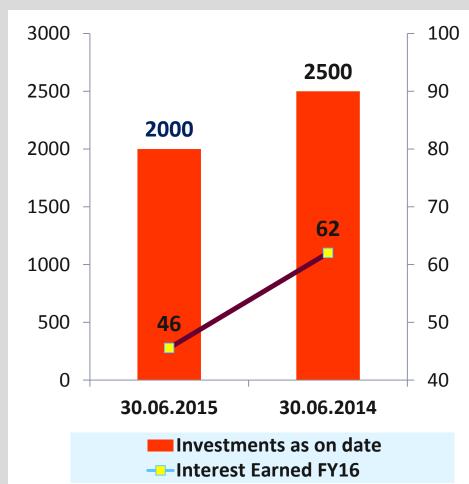
The ongoing CAPEX is being financed through Debt-Equity Ratio of 1:1

Year	31/03/2011	31/03/2012	31/03/2013	31/03/2014	31/03/2015	30/06/2015
D/E Ratio	0.52	0.41	0.53	0.59	0.69	0.73



Short Term Investments in Banks (Rs. Cr.)







Performance Highlights Q1 FY16

Saleable Steel Production of 3.09 million tonne

Crude Steel Production of 3.59 million tonne

Hot Metal Production of 4.03 million tonne

Semis component in production 22% of saleable steel

Saleable Steel Sales of 2.69 million tonne

Value Added Steel Production of 1.26 million tonne

Production through Concast route of 2.67 million tonne



Performance Highlights Q1 FY16

Major Techno-economic Parameters

Coke Rate at 489 kg / THM

Fuel Rate at 566 kg/THM

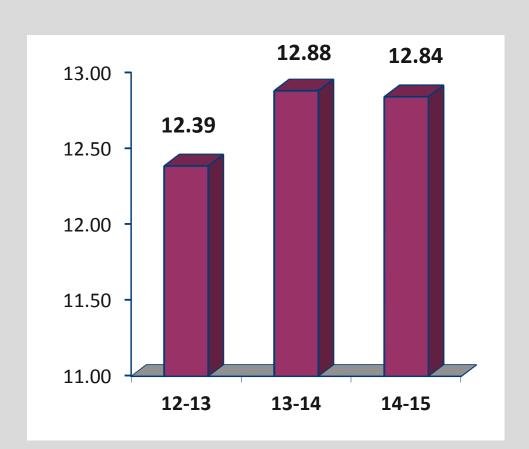
Specific Energy Consumption at 6.54 Gcal/TCS

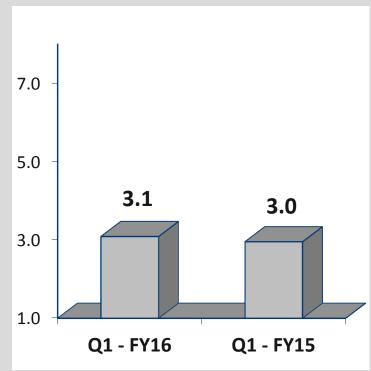
BF Productivity at 1.53 T/m3/day



Production Performance

Saleable Steel (in Million Tonne)





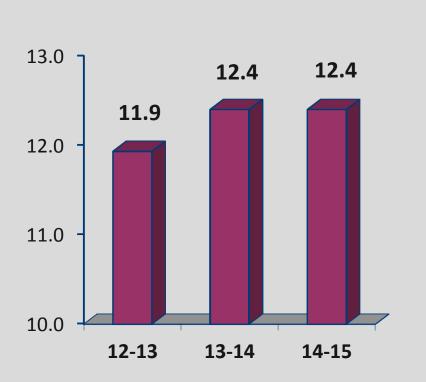
Annual Saleable Steel Production (including Special Steel Plants)

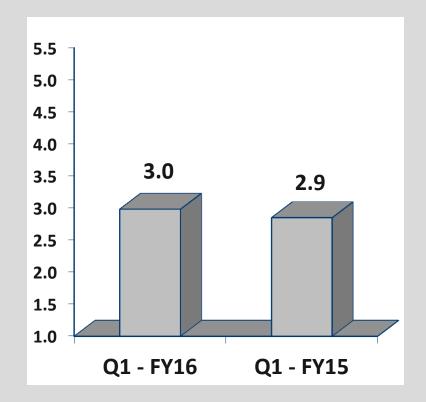
Saleable Steel Production (incl. Spl. Steel Plants)



Production Performance

Saleable Steel from 5 Integrated Steel Plants (in Million Tonne)

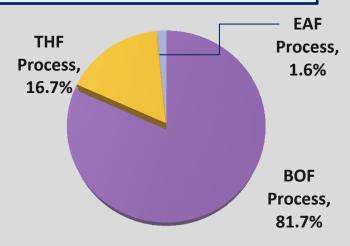




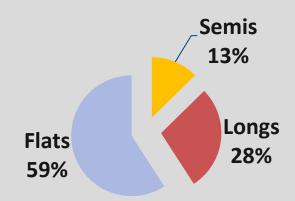


Production by Process & Sales Mix: Q1FY 16

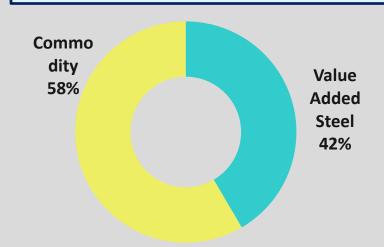




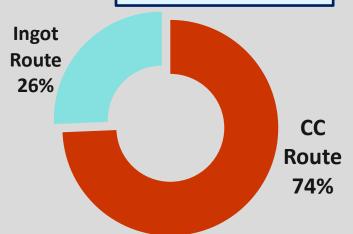
Sales of Saleable Steel (5 ISPs)



Production of Value Added Steel (5 ISPs)

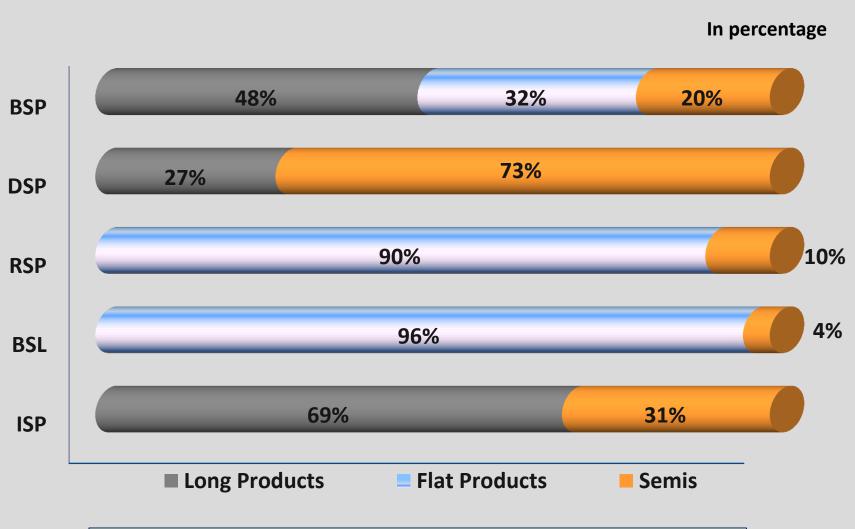


Production by Process





Product Mix: Production Five Integrated Steel Plants: Q1 FY16

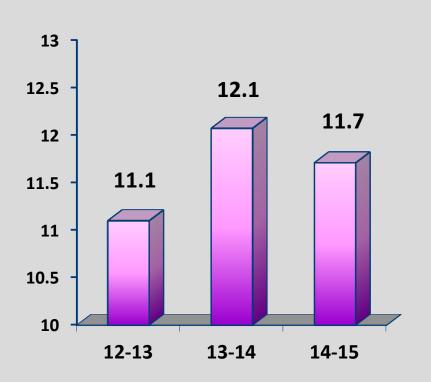


SAIL - 5 ISPs : Semis 22.3%; Flats 54.3%; Longs 23.4%

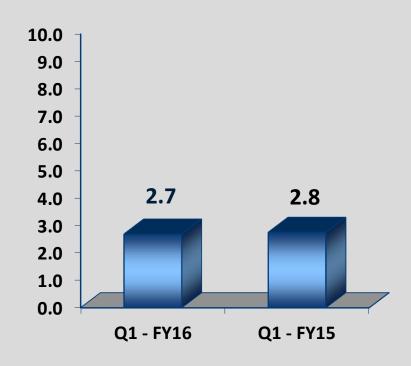


Sales Performance

Saleable Steel (in million tonne)



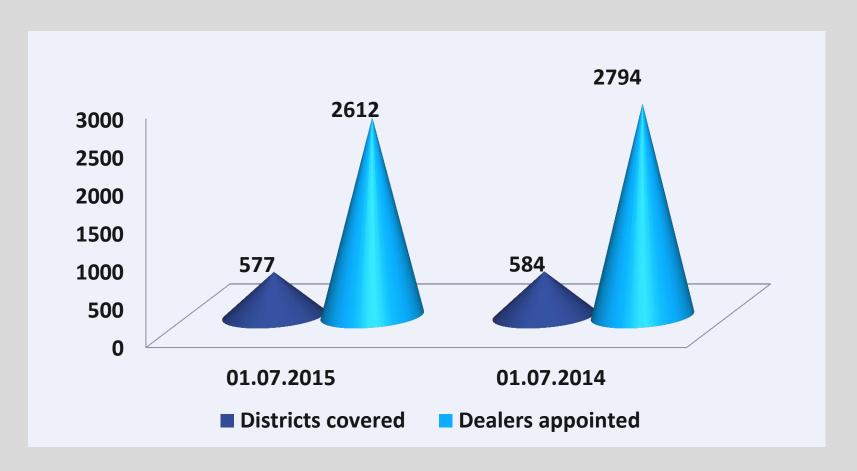
Annual Saleable Steel Sales (including Special Steel Plants)



Saleable Steel Sales (incl. Spl. Steel Plants)



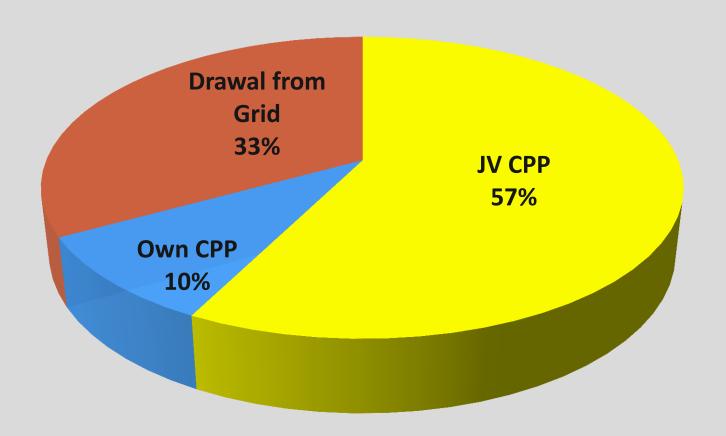
Sales through Dealers Network



*Note: Sales through Dealers during Q1 FY was 159,000 tonne



Captive Power Generation & drawal from the Grid For Q1FY16





Labour Productivity

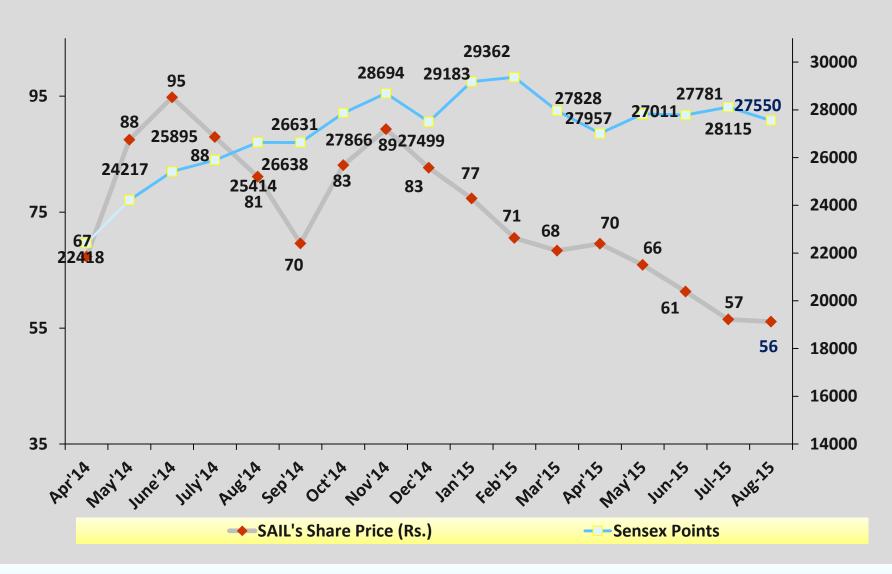
Tonne Crude Steel /man - year



Current manpower: 91,644 numbers as on 01.08.2015



Performance of SAIL Share price vis-à-vis Sensex



Closing Share Price and Sensex as on the last day of the month except 13 August, 2015



Dividend

	Interim (%)	Final (%)	Total (%)	Dividend (Rs. crore)	Dividend Tax (Rs. crore)
2014-15	17.5	2.5%	20	826	165
2013-14	20.2	-	20.2	834	142
2012 -13	16	4	20	826	134
2011 -12	12	8	20	826	134
2010 -11	12	12	24	992	162
2009 -10	16	17	33	1363	228
2008 -09	13	13	26	1074	181
2007- 08	19	18	37	1528	259

SAIL's Expansion & Modernisation Plan



in million tonne

Particulars	Actual production 2014-15	After On-going Expansion	
Crude Steel	13.91	21.4	
Saleable Steel	12.84	20.2	

Expansion Plan: Technological Shift



Technology	Before Expansion	After Expansion
BOF Steel Making	79%	100%
CC Route	71%	94%
Pelletisation Plant	No	Yes
Coke Dry Quenching	Partial	Yes
Top Pressure Recovery Turbine	No	Yes
Auxiliary Fuel Injection in BF	Partial Coverage	Full Coverage
Desulphurization of Hot Metal	Partly	100 %
Beam Blank Casting	No	Yes
Coupled Pickling & Tandem Mill	No	Yes
Beneficiation Plant	Partial	Full



Ongoing Projects

The Expected Outcome:

- > Production through twin-hearth furnace (THF) route to be replaced by BOF-LD converter route.
- ➤ Production through Ingot teeming route to be replaced with Continuous cast production route.
- ➤ Enhancement of Production volume by addition of 2 new 4060 m³ Blast Furnaces and one Blast Furnace of 4160 m³.
- > Increased Market Share.
- **➤ World class technology and products.**
- > Improved Product Mix / proportion of value added products to increase.
- **Enhanced Pollution Control measures, with Environmental Conservation.**



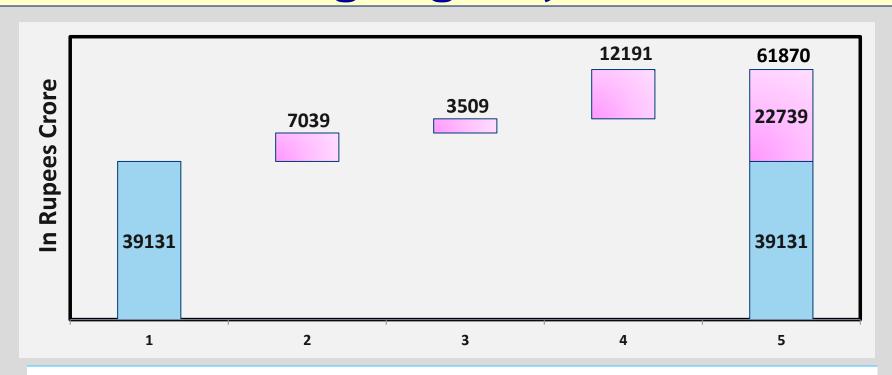
Ongoing Projects

The Products to be added:

- > Auto grade CR Products, Galvanized Coils /Sheets.
- > Plates / Pipes to meet up to API 100 Grade specification.
- ➤ Universal Beams/Heavy Beams to support increasing Infrastructural requirements.
- > Rails for Metro Railways and Dedicated Freight Corridors.
- ➤ Increased production of Rails and Wheels to meet the increasing requirements of Indian Railways.
- > Quantum jump in Rounds and Structural production.
- **➤ Wider Plates in the size of 4300 mm.**



Ongoing Projects

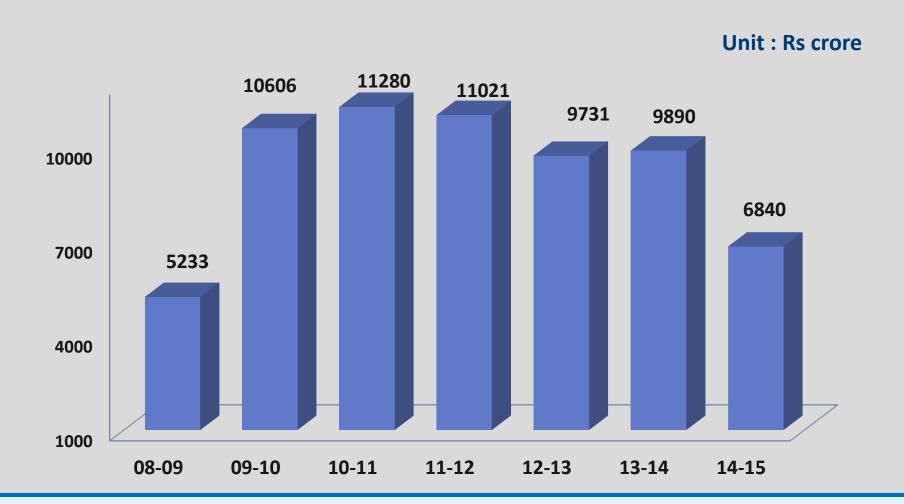


- 1 Expansion of existing capacity
- 2 Value-addition / Product-mix improvement
- **Technological up gradation / Modernization**
- 4 Sustenance including de-bottlenecking, AMR & Environment
- 5 Total Estimated Cost

Note: In addition, a Capex Plan of Rs. 10264 crore has been made for augmentation of Raw material facilities.



Total Capital Expenditure Including on Modernisation & Expansion



■ Capex during Q1 FY15 was Rs. 1302 crore. Capex Plan for 2015-16 is Rs. 7500 crore

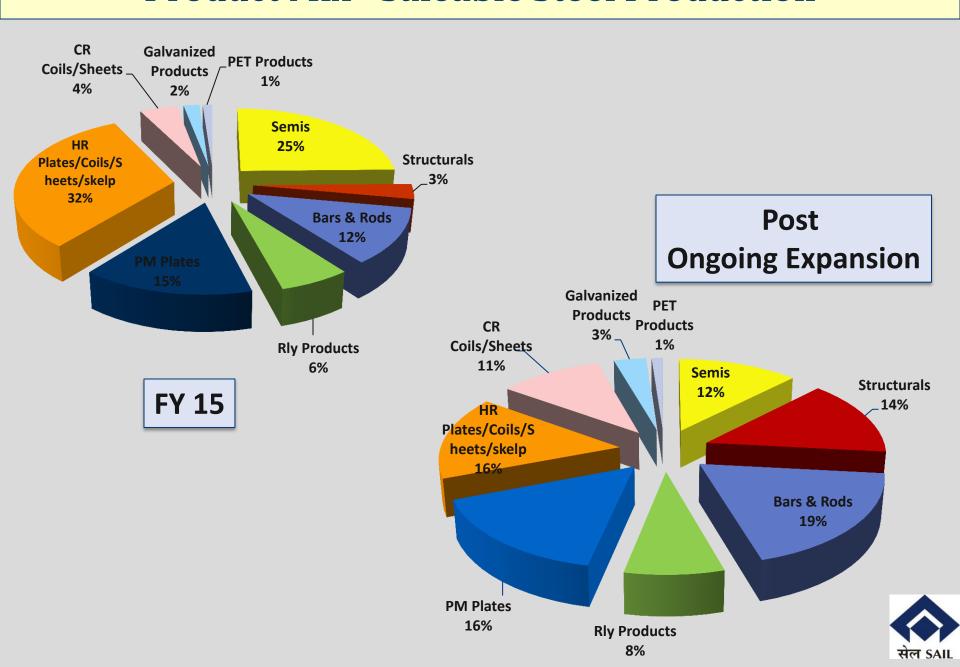


Capacity increase after Expansion

Plant	Hot Metal (MTPA)		Crude Steel (MTPA)		Saleable Steel (MTPA)	
	2014-15	After Expansion	2014-15	After Expansion	2014-15	After Expansion
BSP	5.1	7.5	4.8	7.0	4.3	6.6
DSP	2.3	2.5	2.1	2.2	2.0	2.1
RSP	3.1	4.5	2.9	4.2	2.5	4.0
BSL	4.2	5.8	3.8	4.6	3.4	4.2
ISP	0.6	2.9	0.1	2.5	0.1	2.4
VISL	0.1	0.3	0.0	0.2	0.0	0.2
ASP	-	-	0.1	0.5	0.1	0.4
SSP	-	-	0.1	0.2	0.4	0.3
TOTAL	15.4	23.5	13.9	21.4	12.8	20.2



Product Mix - Saleable Steel Production



Salem Steel Plant

Facilities added:

- •Steel melting Shop Electric Arc Furnace (55 T); AOD Converter (60
 - T); Ladle Furnace (60 T); Single Strand Slab Caster.
- Roll Grinder for Hot Rolling Mill
- Cold Rolling Mill Complex (except 20-high Sendzimir Mill)

•Production (MTPA) :

Item	2014 -15 (Actual)	After Expansion
Crude Steel	0.125	0.18
Saleable Steel	0.360	0.34



IISCO Steel Plant

Facilities Already Completed till 2014-15:

- •New Coke Oven Battery (0.88 Mtpa, 2 x 37 ovens, 7 m tall) -
- •Sinter Machines (3.88 Mtpa gross sinter production, 2X204 m²)
- Blast Furnace 4160 m3 volume (2.7Mtpa)
- •2 nos. of 150 T BOF Converters
- Wire Rod (0.5 Mtpa)
- Ore Handling Plant
- Coal, Coke Handling and Pipe Conveyor
- Base Mix Preparation Plant
- Coke Dry Cooling Plant
- •2X6 Strand Billet Casters (0.83 Mtpa each)
- •1X4 Strand Bloom-cum-Beam Blank Caster (0.83 Mtpa)
- •Bar Mill (0.75 Mtpa)



IISCO Steel Plant

Facilities Completed during Q1 FY 16

- •CCM#3 first heat was taken successfully in April,2015 in Bloom cum Beam Blank Caster
- •Universal Section Mill (0.6 Mtpa) hot trial of USM was started June, 2015
- ➤ New stream to produce 2.7 Mtpa of Hot Metal & 2.5 Mtpa of Crude Steel

ltem	2014 -15 (Actual)	After Expansion
Crude Steel	0.141	2.50
Saleable Steel	0.127	2.39

The expanded capacity of IISCO Steel Plant has been dedicated to the Nation by the Hon'ble Prime Minister on 10.05.2015.





Current Progress of Expansion at IISCO Steel Plant















Bokaro Steel Plant

Facilities Already Completed:

- Re-building of Coke Oven Battery #1 & #2.
- Up-gradation of Blast Furnace #2 and Stoves Up-gradation of #5
- Auxiliary Fuel Injection (CDI) in Blast Furnaces #2 & #3.
- Turbo-blower-8.
- New CRM Complex (1.2 Mtpa):
 - PLTCM completed and commissioning tests successfully performed in Jul'15. Rolling is in progress.
 - In HDGL, threading in progress.

Facilities Likely to be Completed During FY 16:

- Up-gradation of SMS II with Auxiliary facilities/Hot metal de-sulphurisation units.
- Up-gradation of HSM with augmentation of Roughing facility & replacement of Reheating Furnace

Production (MTPA):

ltem	2014 -15 (Actual)	After Expansion
Crude Steel	3.83	4.61
Saleable Steel	3.37	4.18



Current Progress of Expansion at Bokaro Steel Plant















Bhilai Steel Plant

New Facilities Already Completed:

- Second Sinter Machine in Sinter Plant-3
- New Coke Oven Battery No. 11 (7 m tall, Capacity 0.881 mtpa)

Facilities Likely to be Completed During FY 2015-16:

- Blast Furnace 4060 m3.
- New Steel Melting Shop (SMS-3) with New Billet Casters/Billet-cum-Bloom Caster, Beam Blank Caster
- Universal Rail Mill
- Bar and Rod Mill

Production (MTPA):

ltem	2014 -15 (Actual)	After Expansion
Crude Steel	4.81	7.0
Saleable Steel	4.33	6.56

Current Progress of Expansion at Bhilai Steel Plant















Current Progress of Expansion at Bhilai Steel Plant





Rourkela Steel Plant

New Facilities Already Completed:

- New Coke Oven Battery -6 (7 m tall, 1 x 67 ovens)
- New Sinter Plant -3 (1 x 360m²)
- New Blast Furnace -5, 4060 m³ useful volume, (PCI started in July 2014).
- New 3rd Single Strand Slab Caster
- New Oxygen Plant 2X700 tpd on BOO basis
- New 3rd BOF (150 T) Convertor
- New 4.3 meter Wide Plate Mill

Production (MTPA):

ltem	2014 -15 (Actual)	After Expansion
Crude Steel	2.79	4.20
Saleable Steel	2.55	3.99

The expanded capacity of Rourkela Steel Plant has been dedicated to the Nation by the Hon'ble Prime Minister on 01.04.2015.





Current Progress of Expansion at Rourkela Steel Plant













Durgapur Steel Plant

Facilities Completed:

- Rebuilding of Coke Oven Battery no-2
- New Ladle Furnace (125T)
- Coke Sorting & Coal Handling Plant
- New Dolomite Plant (300tpd)
- New Dolomite Plant (300tpd)
- Bloom-cum-Round Caster 1X4 (0.75 Mtpa)
- New Medium Structural Mill (1.0 Mtpa); Hot Trial in June, 2015

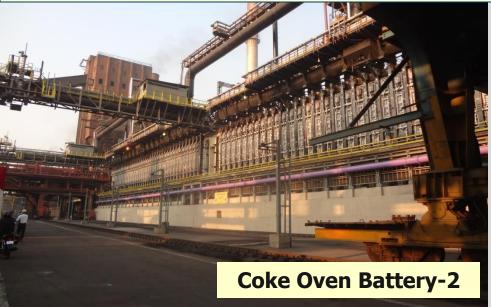
Production (MTPA):

ltem	2014 -15 (Actual)	After Expansion
Crude Steel	2.06	2.20
Saleable Steel	1.97	2.12



Current Progress of Expansion at Durgapur Steel Plant











Raw Materials

Year	Hot Metal (mtpa)	Iron Ore Consumption (mtpa)	Linkages of Iron Ore
2014-15	15.41	24.22	Existing Mines
Post	ost 22.46	The capacity of existing mines at Kiriburu, Meghahatuburu, Bolani & Gua are being ramped up to meet the requirement of Iron Ore for post ongoing phase of expansion Three new Pellet Plants - 4 mtpa capacity	
Expansion	23.46	39	at Gua, 2 mtpa capacity at RSP & 1 mtpa capacity at Dalli) have been planned for better utilisation of Iron Ore Fines In addition to the above, iron ore shall be mined from new mines at Rowghat, Chiria and Taldih

Raw Materials

Mine	Existing Capacity (mtpa)	Capacity after ongoing expansion (mtpa)	Remarks
Kiriburu	5.50	5.50	Expansion at Kiriburu has already been
Meghahatuburu	5.00	6.50	ramped up to meet the requirement of the
Bolani	5.50	10.00	ongoing expansion plan. At Bolani, processing plant has upgraded to 7.5
Gua	4.00	10.00	mtpa and is under stabilization.
Rajhara, Dalli	8.70	7.00*	*Depleted resources and quality constraints
New Pellet Plants	New	7.0	The entire requirement of the increased capacity shall be met through captive mines The timeline for mines expansion is expected to be in line with Steel Plants expansion New Pellet Plant shall use the existing reserve of fines incl. dumps & slimes at captive mines
Barsua, Kalta, Taldih	3.31	6.5	Environment clearance & FC received from MOEF
Rowghat	New	12.0	All statutory clearances have been received. MDO is being engaged.
Chiria	0.75	5.8	Stage-I Forest Clearance& EC has been obtained. Stage-II FC awaited from MoEF.

Raw Materials

Year	Hot Metal (mtpa)	Coking Coal Requirement (mtpa)	Linkages of Coking Coal
2014-15	15.41	15.1 (including purchased coke)	 Import Component – 86% Over 90% of imported coal is sourced from Australia. Indigenous: 14% Domestic coal is largely sourced from Coal India Ltd. SAIL has existing captive coking coal production of nearly 0.5 mtpa
Post Expansion	23.46	21.0	 Long term / Quarterly contracts to cover 95% of Import requirements, w.e.f. FY 11 MDO has been engaged for development of Tasra captive coal to produce 4 mtpa of ROM (2 mtpa washed coal) Sitanala coal block is being allotted for a mine capacity of 0.30 mtpa of ROM (0.20 mtpa of washed coal) New alliances / linkages / acquisitions are being explored



Major Joint Ventures – strategic initiatives

FOCUS AREA	ALLIANCE PARTNER	REMARKS
TECHNOLOGY	KOBELCO KOBE STEEL GROUP	 SAIL Kobe Iron India Pvt Ltd. – A Joint Venture Company has been formulated for setting up a 0.5 mtpa capacity Plant for producing iron nuggets based on ITmk3 technology.
RAW MATERIALS	TATA STEEL	 International Coal Ventures Pvt. Ltd., a SPV of 5 leading PSUs incorporated (SAIL, RINL, CIL, NTPC & NMDC) for acquisition / operation of coal assets in overseas territories. M/s SAIL & MOIL Ferro Alloys (Pvt.) Ltd. formed with MOIL for production of Ferro-alloys at Bhilai. M/s S&T Mining Company Pvt. Ltd. formed with Tata Steel for developing coking coal mines in India.



Major Joint Ventures – strategic initiatives

FOCUS AREA	ALLIANCE PARTNER	REMARKS
ENERGY	स्मिर्ट एनरीपीसी NTPC	JV with NTPC & DVC for operating & managing CPPs of Durgapur, Rourkela & Bhilai.
STEEL	एन एम डी सी N M D C	A Special Purpose Vehicle, namely, 'Chhattisgarh Mega Steel Limited' has been formed for setting-up an Ultra Mega Steel Plant (UMSP) in Bastar, Area of Chhattisgarh.
CEMENT	JAYPEE GROUP	 Bhilai Jaypee Cement LtdSlag based cement plant of 2.2 million tonne per annum capacity with grinding unit at Bhilai & clinkering unit at Satna.



Major Joint Ventures – strategic initiatives

FOCUS AREA	ALLIANCE PARTNER	OBJECTIVE
SHIPPING	SCI SCI	 Joint Venture Company 'SAIL SCI Shipping Pvt. Ltd.' to cater to SAIL requirements of shipping imports of coal.
WAGON MANUFACTURE	THE INFRASTRUCTURE PEOPLE	 SAIL RITES Bengal Wagon Industry Pvt. Ltd. – A Joint Venture Company has been formed with M/s. RITES for setting up Wagon Manufacturing Factory at Kulti, West Bengal.
E-PORTAL	metaljunction	 JV with Tata Steel to promote e-commerce activities in steel and related areas





Abbreviations used

•	ASP	Alloy Steels Plant
•	BF	Blast Furnace
•	BOF	Basic Oxygen Furnace
•	BPL	Below Poverty Line
•	BSL	Bokaro Steel Limited
•	BSP	Bhilai Steel Plant
•	CS	Crude Steel
•	CPLY	Corresponding Period Last Year
•	DSP	Durgapur Steel Plant
•	EBIDTA	Earnings Before Interest Depreciation, Taxes & Ammortization.
•	G.Cal/tcs	Giga Calories per tonne of Crude Steel
•	Gol	Government of India
•	IISI	International Iron & Steel Institute
•	ISP	IISCO Steel Plant

•	JPC	Joint Plant Committee
•	Kg/thm	Kilo Gram Per Tonne of Hot Metal
•	MEL	Maharashtra Elektrosmelt Limited
•	MT	Million Tonne
•	Mtpa	Million Tonne Per Annum
•	PAT	Profit After Tax
•	PBT	Profit Before Tax
•	RDCIS	Research & Development Centre for Iron & Steel
•	RINL	Rashtriya Ispat Nigam Limited
•	RSP	Rourkela Steel Plant
•	SSP	Salem Steel Plant
•	VISL	Visvesvaraya Iron & Steel Plant
•	TFS	Total finished Steel

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Further, statement describing the Company's projections, estimates, expectations are "forward looking statements" within the meaning of applicable securities laws and regulations. Actual results may differ materially from those expressed depending on the circumstances / situations.

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