







Sector Note

#### Underweight (previously Overweight)

#### **Highlighted Companies**

### Jindal Steel and Power ADD, TP Rs476, 279.65

We expect the company to fare well based on its value-added offerings but expect its profitability to fall, leading to 6% EBITDA CAGR over FY21F-23F.

#### JSW Steel REDUCE, TP Rs330, 382.45

Coal block allocation is positive for the company, but higher plant load factor (PLF), which is key for its power business, is still elusive. We value JSPL on a sum-of-parts valuation to arrive at a TP of Rs476

#### **Tata Steel**

**REDUCE, TP Rs575, 651.95** 

The company looks overvalued on all parameters, in our view. European asset sales is factored into its price. Downgrade to Reduce.

#### **Summary Valuation Metrics**

P/E (x)	Mar21-F	Mar22-F	Mar23-F
Jindal Steel and Power	21.2	23.02	21.99
JSW Steel	28.2	23.8	23.2
Tata Steel	15.2	26.2	32.0
P/BV (x)	Mar21-F	Mar22-F	Mar23-F
Jindal Steel and Power	1.1	1.1	1.0
JSW Steel	2.0	1.9	1.7
Tata Steel	0.7	0.7	0.7
Dividend Yield	Mar21-F	Mar22-F	Mar23-F
Jindal Steel and Power	0%	0%	0%
JSW Steel	1.1%	1.1%	1.1%
Tata Steel	0.7%	0.7%	0.7%

# Commodities - Overall

### Last leg of steel rally; Underweight

- Pandemic led destocking of steel a V-shaped recovery in global PMI (mid 2020), made supply chains run for cover, resulting in higher steel prices.
- Though this inventory cycle happens every year, the pandemic accentuated it. The decade-high steel spreads will raise production and end this rally.
- We downgrade Tata Steel, JSW Steel and SAIL to Reduce from Add. JSPL remains the Add idea in our coverage universe.

#### Steel showing classic inventory cycle; Reduce

Steel is showing a classic inventory cycle, accentuated by pandemic-driven pessimism. Normally the perception by steel users of poor demand leads to destocking. Globally 45% of steel produced remains in the supply chain (Source: Steel Industry), hence, a wrong perception among users could create a severe shortage. This happened in Jun/ Jul 2020 when the global Purchasing Managers' Index (PMI) rose sharply leading to a rush for the metal. The shortage is feeding on itself and will likely lead to overstocked supply chains, fall in steel spreads and prices in the near term. This sequence has occurred many times in the past and 2021F will be no different, in our view.

#### Indian steel makers coking coal advantage may not last long

Barring China (because of its import ban on coking coal from Australia), steel spread over raw material (spreads = price - raw material cost) is at a decade high in all other markets. We believe steel is in overcapacity and high gross margins will lead to much higher production. Despite current favorable global liquidity conditions, we do not think it can lead to a sustained manufacturing cycle. Indian steel makers are enjoying low coking coal costs now. High prices and shortages in China could push China to reverse its policies, potentially raising production costs for Indian steel companies in near term, in our view.

#### India will face iron ore shortages if exports continue unabated

India will face iron ore shortages (Figure 22) as pellet exports remain lucrative, in our view. The high cost of production in Odisha is another push factor for Indian iron ore. This iron ore shortage is a good opportunity for SAIL to unload its unused iron ore inventory. However, it is possible that we may see some policy action by Government of India on pellet exports in the coming months – we could see an export ban or high duty on exports.

#### Stocks valuations at high, downgrade sector rating to Underweight

Tata Steel and JSW Steel are trading near all-time high EV/EBITDA valuations. This becomes even more stark if we account for steel prices likely falling in coming months. Thus, we downgrade our rating on the sector to Underweight (from Overweight) and to Reduce on Tata Steel and JSW Steel (from Add). We retain our Add rating on Jindal Steel and Power Limited (JSPL). We believe investors will do well to sell SAIL, JSW Steel and Tata Steel. Upside risk to our call: If steel prices remain strong earnings will be higher than estimated, hence stocks will see higher levels.

#### Analyst(s)



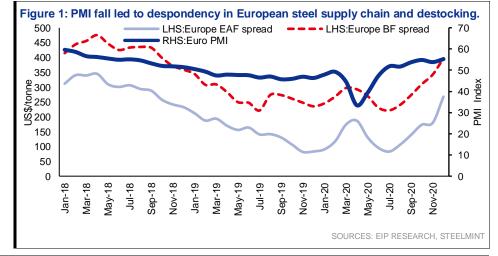
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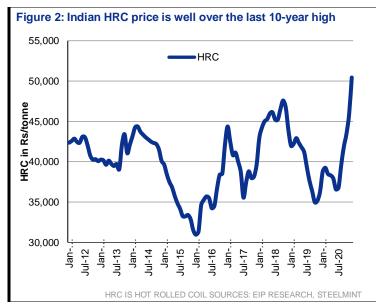
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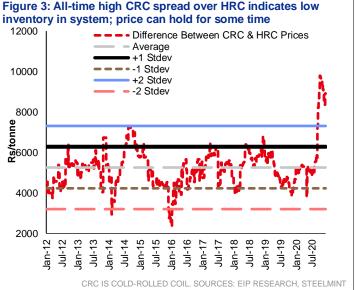


Figure 4: Listed price in India is moving in sync with landed price from China and Japan 65,000 China Landed Price Japan Landed Price 60,000 ndia Listed Price 55,000 50,000 45,000**ِ 5**ِ 40,000 35,000 30,000 25,000 Apr-18 Jul-18 Oct-18 Jan-19 Apr-19 Jul-19 Oct-19 Apr-20 SOURCES: STEELMINT FIP RESEARCH



Figure 6: Positive surprise for all on steel demand resilience, hence inventory depleted quickly in last 6 months While inventory declined fast, steel inventory is still high compared to 2019. Restocking likely to occur in Jan-March but not with the same intensity as last year 2019 27 9 1 22 Ĕ 17 12 China Total Steel Inventory Nov-14 May-15 Nov-12 Nov-13 May-14 Nov-15 Nov-18 May-13 May-16 Nov-16 May-17 Nov-17 May-18 May-19 Nov-19 May-20 <u></u> SOURCES: STEELMINT, EIP RESEARCH



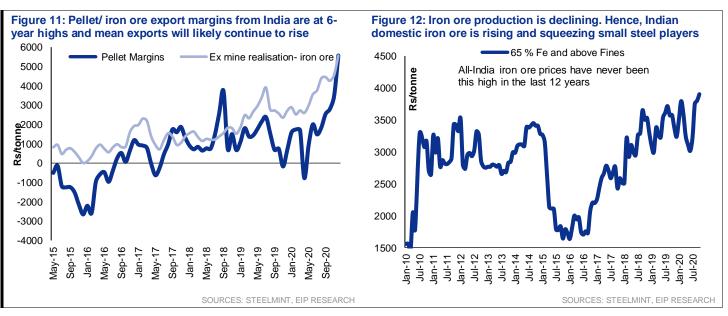




SOURCES: EIP RESEARCH, BLOOMBERG, WORLDBANK

Figure 8: Cost of capital (reducing bond yield) has no correlation with steel prices. However, the world can sustain only some % of steel costs as % of GDP. The 30-year average is 1.03% and all-time peak is 1.8% (2008). It peaked recently to around 1.3-1.4% of the global GDP 2.10% Steel comsumption cost as % of GDP Average 9.00% +1 Stev +2 Stdev 1.90% -1 Stdev -2 Stdev 8.00% RHS:10 Year USD rate 1.70% 7.00% 1.50% 6.00% 1.30% 5.00% 1.10% 4.00% 3.00% 0.90% 0.70% 2.00% 0.50% 1.00% 0.30% 0.00% CY03 CY04 CY08 CY09 CY10 CY02 CY05 CY06 CY07 CY11

Figure 9: Indian iron ore production to decline in FY21F. FY22F Figure 10: At current prices in China, even new mines (won volumes to depend on export possibilities through auctions) can export iron ore. Export from Odisha is not viable below US\$130 Chhatisgarh Andhra pradesh Goa Jharkhand ■ Karnataka Madhya Pradesh Profitability of new miner in Odisha Unit Amount 250 Maharashtra Odisha Rajasthan China Iron Ore 62% Fe US\$/t 160 Telangana Wastage & Moisture % 10 China Iron Ore 62% Fe DMT Price US\$/t 144 200 Sea Freight US\$/t 8 **FOB Cost** US\$/t 136 Export Duty @ 30% US\$/t 40.8 150 US\$/t 95.2 Value at Port 5 Exchange Rate US\$/Rs 75 Value at Port Rs/t 7.140 Internal Freight & Port Charges Rs/t 1,500 Ex-mine Realisation Rs/t 5,640 Rs/t 996 Mining + Royalty 50 Premium Rs/t 2.200 Cash Margin Rs/t 2,444 O FY16 FY13 FY19 FY21F FY08 FY17 F F  $\overline{1}$ SOURCES: STEELMINT, INDIAN BUREAU OF MINES, EIP RESEARCH SOURCES: STEELMINT, EIP RESEARCH







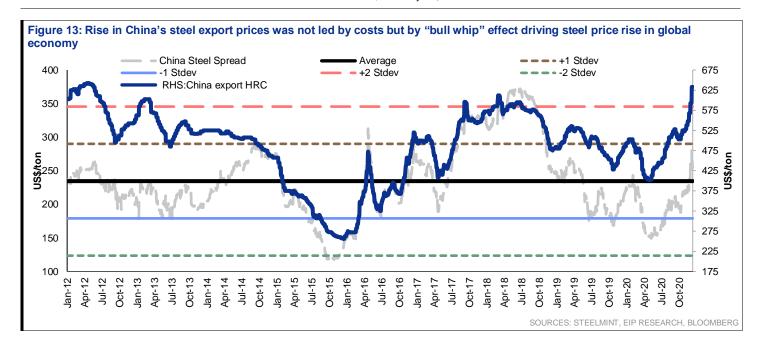
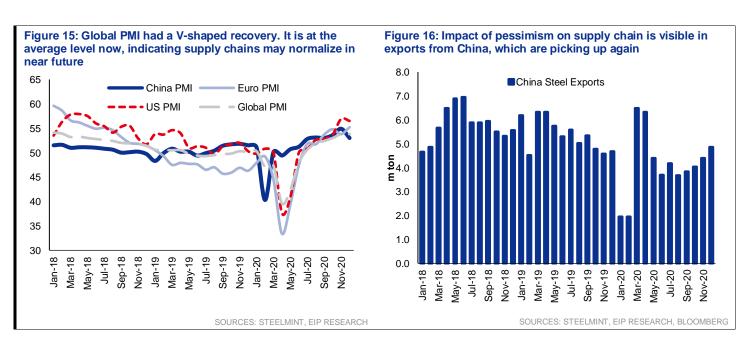
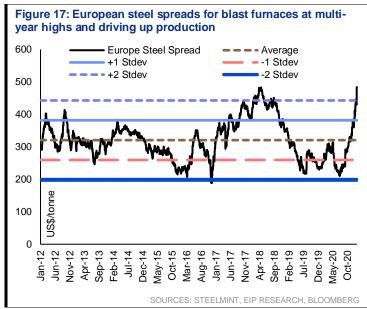


Figure 14: Higher HRC and CRC spreads lead to rise in HRC prices and extremely low spreads lead to fall in HRC prices. In the last three months CRC was just US\$70 above HRC export prices, meaning a re-roller will just remain operationally viable. This graph, coupled with Figure 13, indicates HRC could fall 400 1.200 China CRC- HRC price diff Average -+1 Stdev - -1 Stdev 350 +2 Stdev - - 2 Stdev 1,000 300 RHS:China Export HRC 250 800 200 600 150 100 400 50 200 0 -50 0 Jan-13 Sep-13 Sep-14 Sep-15 Sep-16 Sep-20 May-12 Sep-12 May-13 Jan-14 May-14 Jan-15 May-20 Jan-21 May-17 May-18









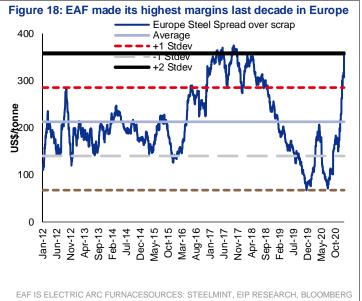
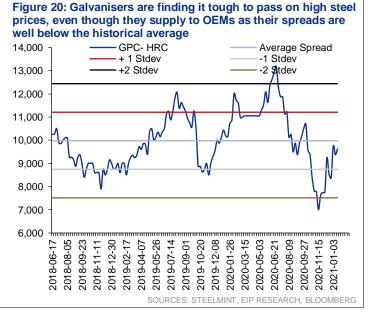


Figure 19: Hard for Indian users to pass on steel price rise in colour-coated price differential with galvanized sheet Average Spread Coated steel- GP + 1 Stdev -1 Stdev 13,000.0 +2 Stdev -2 Stdev 12,000.0 11,000.0 10.000.0 9,000.0 0.000,8 7,000.0 6,000.0 5.000.0 2019-05-19 2019-12-15 2020-04-19 2018-07-29 2018-09-09 2018-12-02 2019-01-13 2019-11-03 2020-01-26 2020-03-08 2020-07-12 2020-08-23 2018-10-21 2019-02-24 2019-04-07 2019-06-30 2019-09-22 2020-10-04 2020-11-15 2019-08-11 2020-05-31 2020-12-27 8-06-1 SOURCES: STEELMINT, EIP RESEARCH, BLOOMBERG











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# Figure 23: If iron ore/ pellet exports are not curbed there may be serious shortages. We expect duty on pellets exports to be imposed by government of India in the coming months/ quarters

	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E	FY23E		
Crude Steel Production	81.7	89.0	89.8	97.9	103.1	110.9	109.1	98.2	115.0	122.0		
Scrap used	20.0	36.8	11.4	18.5	11.0	7.7	24.7	22.4	21.6	22.5		
Overall Iron ore production	152.2	129.3	158.1	194.6	201.0	206.8	207.8	200.0	220.0	230.0		
Iron ore import	0.4	12.1	7.1	4.6	8.7	12.8	1.2	2.0	5.0	5.0		
iron ore export	16.3	7.3	5.4	30.7	24.2	31.9	25.2	20.0	15.0	15.0		
Pellet export	1.7	0.8	0.7	9.7	9.3	9.4	12.6	14.0	10.0	8.0		
- Iron ore in pellet	2.1	0.9	0.8	11.6	11.2	11.2	15.1	16.8	12.0	9.6		
Total Iron ore exported	16.3	7.3	5.4	30.7	24.2	16.2	25.2	36.8	27.0	24.6		
Iron ore used for domestic consumption	136.3	134.1	159.8	168.5	185.5	203.4	183.8	165.2	198.0	210.4		
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SOURCES: STEELMINT, EIP RESEARCH





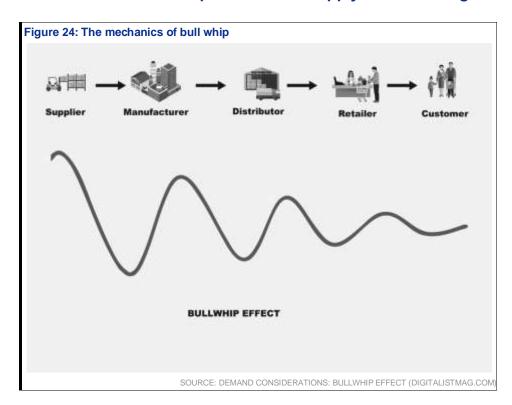
### Good for too long; brace for the fall

The global COVID-19 pandemic and consequent bearishness squeezed global supply chains and resulted in a strong steel price rally across the world. Such indicators as 1) steel consumption as a percentage of global GDP, and 2) cold-(CRC) and hot-rolled coil (HRC) spreads point to the end of this rally. While we cannot predict when the rally will end, we believe the risk reward of equities is unfavourable. We recommend selling all steel names, except for JSPL.

#### "Bull whip" effect to drive global steel rally

A "bull whip" effect is common in supply chains and occurs when supply chains read demand wrong, leading to disproportionate reactions by other supply chain players. This leads to inventory shortages and prices falling or rising. At any point 45% of steel remains in the supply chain, and any mild change in perception by steel users can drive big shortages. This happened during the COVID-19 pandemic and was felt globally. With things changing rapidly, our primary indicators like inventor at ports (Source: Bloomberg) show that the supply chain shortage is over and we believe it is now time for prices to correct.

#### Global caution in Mar-Apr led to steel supply chain shortage >

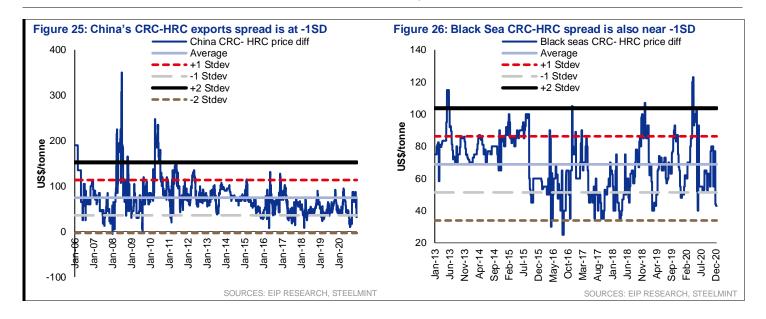


#### Worldwide CRC spreads widened vs HRC; spreads contracting now

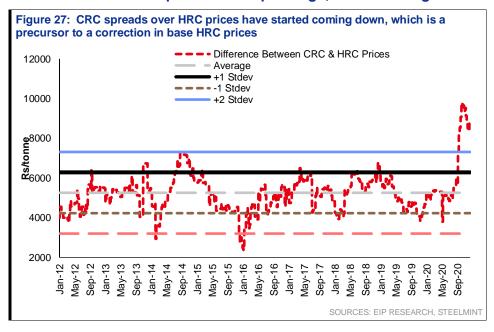
This spread is important because it determines the extent of the end of demand. Note that end consumers buy CRC, not HRC. There is huge global capacity for re-rollers who survive on CRC and HRC spreads. The cost of re-rolling HRC to CRC is normally US\$35-40/ton, hence, a lower spread would make them unviable and lead to a correction in HRC prices.







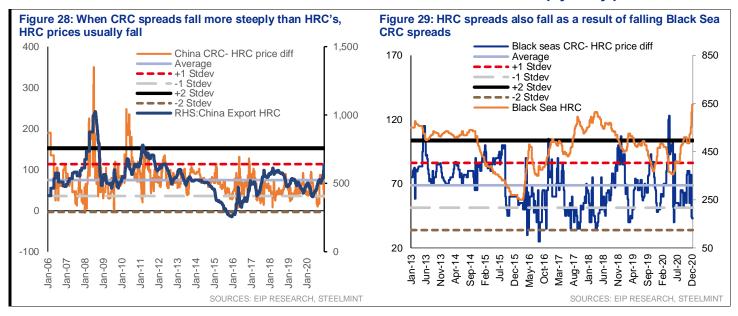
#### Indian CRC and HRC spreads were quite high, but are falling now







#### Historical Black Sea & China behaviour imply likely price correction



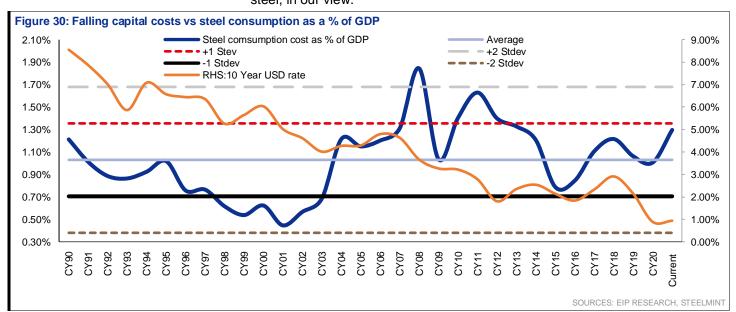
# High global steel prices unlikely to sustain for long as global consumption has been at 1.3% of GDP since 2008

So, why are HRC prices likely to fall? Why can't CRC prices rise? The answer lies in the global ability to pay for steel. The world paid 1.8% of the global GDP for steel in 2008 (in terms of 2010 US\$) and since then the world has never paid more than 1.3-1.4% of the global GDP. As of now, we are exceeding 1.3%. Hence, for all practical purposes we are near the peak.

#### World can pay not more than 1.3-1.4% of GDP for steel ▶

We have adjusted historical steel prices at 2010 US\$ for this analysis and at which GDP is based.

World steel consumption value in terms of 2010 US\$ is currently at 1.35%, the highest level in the last eight years. A slowing global economy has not spent this much money on steel in the past eight years, making us believe this price is too high. Also, falling capital costs appear to have no correlation with what is spent on steel, in our view.







#### World economy is slowing, as is China ▶

In 2008 the world was very different from what it is now. We were in a bullish zone, with the market expecting 10% Indian GDP growth for 10 years. India has never touched 10%GDP growth, even in a quarter. It will be interesting to compare the International Monetary Fund's (IMF) global growth predictions at the beginning of 2008 and now. In 2008 IMF forecast global growth of 4% for 2008 and 2009 (http://econbrowser.com/archives/2008/04/revisions\_the\_g). Now it forecasts -5% growth in 2020 and 6% growth 2021 (https://www.imf.org/en/Publications/WEO/Issues/2020/06/24/WEOUpdateJune2 020).

Besides, we have not seen any evidence of a global rally in manufacturing activities in the last 10 years. There are good research papers on the subject, like Long-term investment, the cost of capital and the dividend and buyback puzzle, by Adrian Blundell-Wignall and Caroline Roulet, published in the OECD Journal: Financial Market Trends. It can be found here <a href="https://www.oecd.org/finance/long-term-investment\_capitalcost-dividend-buyback.pdf">https://www.oecd.org/finance/long-term-investment\_capitalcost-dividend-buyback.pdf</a>.

#### Steel prices need to fall at least 20% over next 6-9 months ▶

At the outset we admit our predictions are based on historical data and reversion to mean. Reversion to mean has always happened in this series (Steel consumption as a % of global GDP). A 20% correction in steel prices from current levels will result in world's steel consumption in value terms reaching its 30-year historical mean of 1.03%.

In addition, US\$ inflation could lead to a lower steel price correction than we predicted and is a risk to our call.

# Indian steel prices may likely fall, but not below Rs40,000/tonne

Indian steel prices have been supported by the minimum import price (MIP) and it is unlikely to be done away with soon given the global rise in protectionism. So, while global prices can fall, the Indian steel industry remains protected. The key problem for the Indian steel industry can stem from the likely fall in exports which can create competition in the domestic market for steel market share, and, hence, there will likely be price competition.

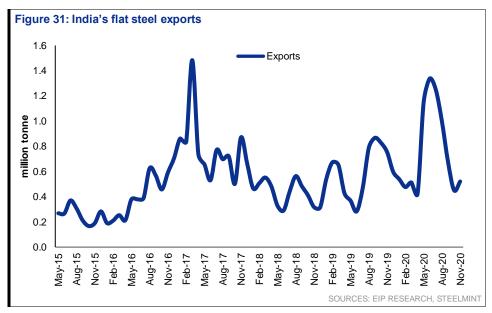
### Oversupplied Indian flat steel depends on exports to balance the market >

The Indian flat steel market is oversupplied and depends on exports to balance the market. For the first three months of FY21 many Indian steel companies survived by pushing volumes through the exports business. Domestic demand was dry in this period.

India mainly exported flat steel in the first few months of this financial year (FY21) JSW Steel, JSPL and, to some extent, Tata Steel are the Indian market's main exporters, in our view.



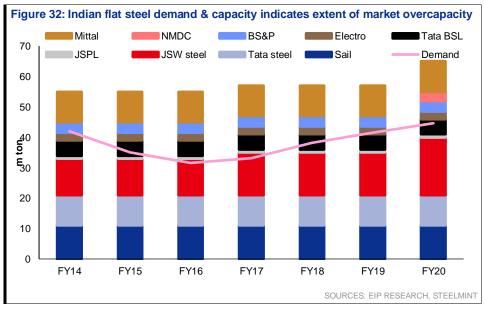




#### Producers' rational behaviour is a mainstay of their profitablity

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We believe the overall demand and capacity of Indian flat steel indicates the extent of overcapacity in market. If producers do not maintain the market balance, flat prices to export parity could fall.







### Long steel producers alright for now, but may feel the squeeze



# Irrespective of global prices, Indian raw material suppliers will likely have the upper hand ▶

Indian iron ore dynamics have changed after the new auctions. Many of the big mines have been won by miners at steep premiums to the Indian Bureau of Minesnotified prices, raising the cost curve significantly for iron, sponge iron and pellet producers.

#### India's long steel consumption pattern more robust than flat steel



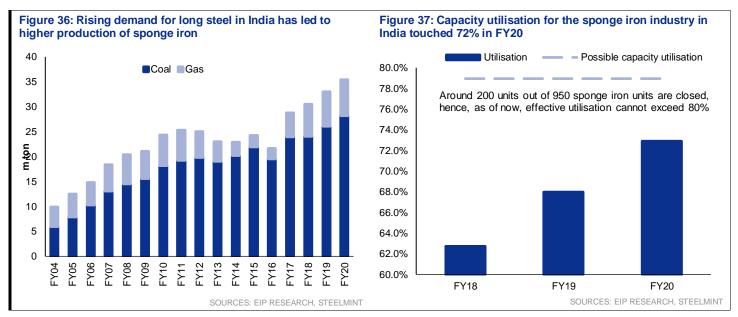
### High Indian sponge iron utilisation rates mean costs can be passed on

Rising demand for long steel in India has led to higher production of sponge iron as long steel is mostly manufactured by small plants using EAF/IF (EAF = electric arc furnace, IF= Induction furnace).

Capacity utilisation has touched 72% for the sponge iron industry in FY20, whereas maximum possible utilisation cannot be more than 80% as 200 units out of 950 have been closed down in India.



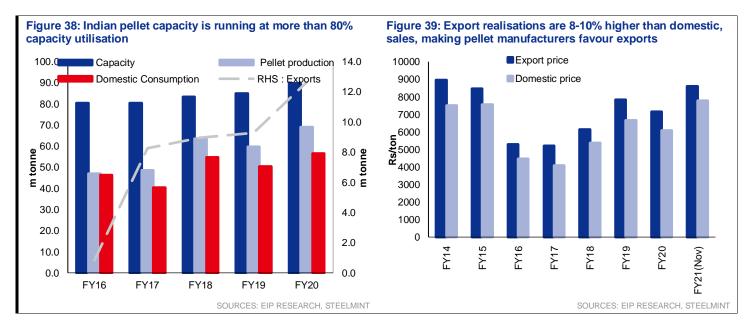




## India has limited pellet capacity and exports are rising – putting pellet makers in a sweet spot

Indian pellets capacity is running at more than 80% capacity utilisation in FY21. Most of the old plant will find it difficult to run at sustained higher utilisation.

Export realisations are 8-10% higher than domestic sales as of now, making pellet manufacturers favour exports. This poses problems for domestic users, in our view.



## Odisha iron ore production cost is rising – if recently-won merchant mines don't start production there likely will be ore shortages

In recent auctions, nearly 60mt of merchant iron ore production capacity changed hands at a weighted average premium of 117%. All of them are producing mines in Odisha. It is important to note that 70% of this merchant capacity is with JSW, Serajuddin, Formento and Shyam Group, which are companies with significant balance sheet strength and can withstand the lure of cutting prices to generate cash flows.



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### Figure 40: Close to 60mt of Indian merchant mining production capacity changed hands

Existing Lessee	Highest Bidder	Premium (%)
KJS Ahluwalia	JSW Steel	95.20
Serajuddin	Serajuddin	118.05
Essel Mining	Shyam	135.00
Rungta	JSW Steel	110.00
Aryan Mining & Trading	Patnaik Minerals	92.70
Bonai Industrial Company	Formento	141.25
Ghanshyam Mishra & Sons	Ghanshyam Mishra & Sons	115.00
Feegrade Co.Pvt Ltd	Vishal LPG	142.35
Rungta	Yazdani Steel	100.00
Bonai Industrial Company	Tarama	93.06
Rungta	Debabrata Behera SOURCES: EIP RESEAI	154.00 RCH, STEELMINT
	KJS Ahluwalia Serajuddin Essel Mining Rungta Aryan Mining & Trading Bonai Industrial Company Ghanshyam Mishra & Sons Feegrade Co.Pvt Ltd Rungta Bonai Industrial Company	KJS Ahluwalia JSW Steel Serajuddin Serajuddin Essel Mining Shyam Rungta JSW Steel Aryan Mining & Trading Bonai Industrial Company Ghanshyam Mishra & Sons Feegrade Co.Pvt Ltd Vishal LPG Rungta Yazdani Steel Bonai Industrial Company Tarama Rungta Debabrata Behera

### Figure 41: Seasoned players like JSW, Serajuddin, Shyam Group and Formento own 70% of the merchant category

OWII 107	o Or tile ii	icronant catego	y	
Captive		Me	rchant	
Premium (%)	Premium (%)	Miner	Premium (%)	EC Limit (mt)
98.55	98.55	JSW Steel	95.2	5.62
107.55	107.55	Serajuddin	118.05	15.15
132	132	Shyam	135	6.28
90.9	90.9	JSW Steel	110	16.5
150	150	Patnaik Minerals	92.7	0.04
		Formento	141.25	5.3
		Ghanshyam Mishra & Sons	115	0.75
		Vishal LPG	142.35	7.45
		Yazdani Steel	100	0.04
		Tarama	93.06	2.5
		Debabrata Behera	154	0.14
		SOURCES: FI	P RESEARCH	STEELMINT
	Premium (%) 98.55 107.55 132 90.9	Premium (%)         Premium (%)           98.55         98.55           107.55         107.55           132         132           90.9         90.9	Captive         Me           Premium (%)         Premium (%)         Miner           98.55         98.55         JSW Steel           107.55         107.55         Serajuddin           132         132         Shyam           90.9         90.9         JSW Steel           150         150         Patnaik Minerals           Formento         Ghanshyam Mishra & Sons           Vishal LPG         Yazdani Steel           Tarama         Debabrata Behera	Premium (%)         Premium (%)         Miner         Premium (%)           98.55         98.55         JSW Steel         95.2           107.55         107.55         Serajuddin         118.05           132         132         Shyarm         135           90.9         90.9         JSW Steel         110           150         Patnaik Mnerals         92.7           Formento         141.25           Ghanshyam Mishra & Sons         115           Vishal LPG         142.35           Yazdani Steel         100           Tarama         93.06

Figure 4	2: Peer	compar	ison
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	Bloombera	Closina	Target		Market cap	EV/EBITE	OA (x)	P/BV	(x)	RoE	(%)	P/E(	x)
Company	Ticker			% Upside Rating	(US\$ m)	CY21F	CY22F	CY21F	CY22F	CY21F	CY22F	CY21F	CY22F
India		(_0,	(=-,	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(,								
JSW Steel Ltd	JSTL IN	382	330	-14% REDUCE	12,770	8.7	7.8	2.0	1.9	8.7	9.7	28.2	23.8
Tata Steel Ltd	TATA IN	652	575	-12% REDUCE	10,407	5.2	6.3	0.7	0.7	13.3	7.1	15.2	26.2
Jindal Steel & Pow er Ltd	JSP IN	280	476	70% ADD	4,016	4.2	4.4	1.1	1.1	9.5	8.0	21.2	23.0
Steel Authority of India Ltd	SAIL IN	58	54	-7% REDUCE	3,336	10.4	8.9	0.5	0.5	0.0	0.4	(22.8)	452.2
Evraz PLC	EVR LN	515	NR	NR NR	10,293	5.2	5.5	4.3	4.2	68.33	68.33	8.0	8.5
Severstal PJSC	CHMF RM	1,325	NR	NR NR	14,849	5.7	5.7	3.7	3.6	35.27	35.27	8.5	8.1
Novolipetsk Steel PJSC	NLMK RM	222	NR	NR NR	17,770	6.7	6.5	3.4	3.9	17.87	17.87	8.8	9.3
Magnitogorsk Iron & Steel Works PJSC	MA GN RM	56	NR	NR NR	8,299	4.1	3.7	1.6	1.7	8.73	8.73	7.4	6.2
United States Steel Corp	X US	19	NR	NR NR	4,168	7.7	5.8	1.2	1.0	-25.15	-25.15	(37.7)	34.1
Steel Dynamics Inc	STLD US	39	NR	NR NR	8,141	7.5	7.0	1.6	1.4	11.73	11.73	13.2	12.2
Nucor Corp	NUE US	55	NR	NR NR	16,540	8.0	7.0	1.4	1.3	7.67	7.67	16.4	14.6
Gerdau SA	GGBR4 BZ	25	NR	NR NR	7,539	6.4	6.6	1.2	NA	5.19	5.19	11.9	11.6
Cia Siderurgica Nacional SA	CSNA3 BZ	34	NR	NR NR	8,624	6.3	6.8	3.2	NA	29.62	29.62	9.7	9.6
JFE Holdings Inc	5411 JT	1,003	NR	NR NR	5,942	8.6	7.0	0.4	0.3	-8.65	-8.65	22.1	7.6
Nippon Steel Corp	5401 JT	1,306	NR	NR NR	11,963	9.2	7.3	0.5	0.4	-10.81	-10.81	26.9	8.7
Baoshan Iron & Steel Co Ltd	600019 CH	7	NR	NR NR	23,484	4.6	NA	0.8	NA	5.95	5.95	9.2	8.5
Fangda Special Steel Technology Co Ltd	600507 CH	7	NR	NR NR	2,350	3.4	NA	1.4	NA	26.57	26.57	7.3	NA
Maanshan Iron & Steel Co Ltd	600808 CH	3	NR	NR NR	2,890	5.2	NA	0.7	NA	7.22	7.22	7.8	NA
POSCO	005490 KS	2,64,500	NR	NR NR	20,918	4.3	3.5	0.5	0.5	2.84	2.84	9.1	8.3
China Steel Corp	2002 TT	24	NR	NR NR	13,460	9.4	NA	1.2	NA	-1.71	-1.71	19.4	NA
Hyundai Steel Co	004020 KP	45,000	NR	NR NR	5,447	7.1	4.2	0.3	0.4	-1.63	-1.63	18.0	21.8
thyssenkrupp AG	TKA GY	10	NR	NR NR	7,245	1.3	1.0	0.6	0.6	-233.15	-233.15	(76.1)	26.8
ArcelorMittal	MT NA	19	NR	NR NR	25,032	4.6	4.7	0.6	0.6	-5.81	-5.81	7.9	8.5
voestalpine AG	VOE EU	32	NR	NR NR	6,959	7.0	6.1	1.0	1.0	-10.55	-10.55	28.1	14.2
Salzgitter AG	SZG EU	22	NR	NR NR	1,623	3.5	2.9	0.4	0.4	-11.07	-11.07	8.6	5.9

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS, BLOOMBERG

NOTE: ALL FORECASTS FOR NOT RATED COMPANIES ARE BLOOMBERG CONSENSUS ESTIMATES DATA AS AT 24 JAN 2021

NR COMPANIES: NOT COVERED BY EIP RESEARCH:





#### India

#### REDUCE (previously ADD)

Buy 9 Hold 14 Sell 7 Consensus ratings\*: Current price: Rs382 Rs330 Target price: Previous target: Rs590 Up/downside: -13.6% EIP Research / Consensus: -14.7% JSTL.NS Reuters: JSTL IN Bloombera: US\$12.673m Market cap: Rs9,24,466m US\$36.8m Average daily turnover: Rs2684.4m Current shares o/s: 2,417.3m Free float: 42.6% \*Source: Bloomberg



			Ü
Price performance	1M	ЗМ	12M
Absolute (%)	4.4	19.1	40.7
Relative (%)	1.5	0.2	21.1

Major shareholders	% held
Promoter & Promoter Group	42.4
JFE Steel International Europe BV	15.0
APMS Investment Fund Ltd	1.3

### **JSW Steel**

### Time to Reduce as steel cycle changes

- Unsustainable Indian steel prices are visible in end-user segment (colourcoated steel) supplier spread. Base steel price needs to fall, in our view.
- We expect JSW Steel to fare well based on its value-added offerings but expect its profitability to fall, leading to 6% EBITDA CAGR over FY21F-23F.
- We value JSTL at +2SD the last 10 years' average, leaving little room for disappointment, in our view. RoCE and RoE remain well below double digits.

#### High valuations, risk of commodity price fall, downgrade to Reduce

JSW Steel is trading at a 10-year high valuation, but EBITDA growth at 6% CAGR over FY21F-23F is anemic, in our view. These earnings could have a downside risk if the steel price fall is faster than we have modelled. Already squeezed spreads of end consumerfacing steel products (like colour-coated steel) indicate steel prices are peaking out. The next few weeks till the Chinese New Year are crucial for steel prices. If inventory restocking does not start in China, we are likely to witness this inventory cycle's collapse. Valuations are at a 10-year high and risk reward is unfavorable. Hence, we downgrade JSW Steel to Reduce (from Add) and lower our EV/EBITDA-based target price to Rs330 from Rs560. We have valued JSW steel at 8X EV/ EBITDA (+1 SD of historical valuation) to arrive at TP of Rs330.

#### JSW has done well on iron ore security, but ore cost will likely rise

In the iron ore mine auctions of 2018-20, JSW Steel won ~30mt p.a. of iron ore production capacity in Odisha. While this provides the company much-needed iron ore security, high premiums paid in auctions will keep iron ore costs elevated, in our view. We expect iron ore costs to rise by ~20% over FY21F-FY23F. The start of coking coal production in the Jharkhand captive mine cannot offset rising iron ore costs as production is about 1mt (in next 2-3 years) against a requirement of ~18mt.

Bhushan Steel and Power acquisition can raise already high net debt JSW Steel bought Bhushan Steel and Power from the National Company Law Tribunal (NCLT) for Rs197bn in Sep 2019. If JSTL goes alone for the asset, it will raise debt on the books, in our view. In a falling commodity price scenario, this will be negative for the company. Recent capacity expansion raised its net debt to Rs487bn (end FY21F). As argued earlier in the report, the steel price rise has been led by supply chain shortages. This kind of price rise reverses quickly. We have built into our valuations a sequential steel price correction, which could exceed our expectations. Hence net debt/ EBITDA, which is now 3.4x (FY21F), can easily worsen. Risk to our rating is from continued strength in steel prices.

#### Analyst(s)



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**Shaily Ruparelia** T (91) 22 4161 1556

E shaily.ruparelia@incredcapital.com

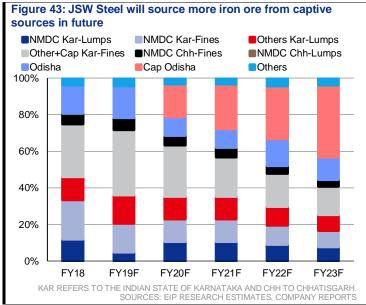
Financial Summary	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Revenue (Rsm)	8,24,990	7,11,160	7,18,008	9,34,470	10,85,495
Operating EBITDA (Rsm)	1,89,520	1,18,730	1,44,706	1,60,048	1,63,359
Net Profit (Rsm)	76,669	40,579	32,808	38,873	39,784
Core EPS (Rs)	31.7	20.1	13.6	16.1	16.5
Core EPS Growth	18.7%	(36.5%)	(32.5%)	18.5%	2.3%
FD Core P/E (x)	12.06	22.80	28.18	23.78	23.24
DPS (Rs)	4.1	4.1	4.1	4.1	4.1
Dividend Yield	1.07%	1.07%	1.07%	1.07%	1.07%
EV/EBITDA (x)	6.24	10.50	8.70	7.82	7.56
P/FCFE (x)	9.40	19.81	20.43	14.39	12.36
Net Gearing	119.7%	131.5%	127.5%	117.4%	105.9%
P/BV (x)	2.2	2.1	2.0	1.9	1.7
ROE	24.4%	13.6%	8.7%	9.7%	9.2%
% Change In Core EPS Estimates			(0.64%)	(0.71%)	
EIP Research/Consensus EPS (x)			1.95	2.18	2.36

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS, PRICED AS AT 25 JAN 2021









though iron ore costs will likely continue to rise

6,000

5,000

4,000

2,000

1,000

0

1,000

0

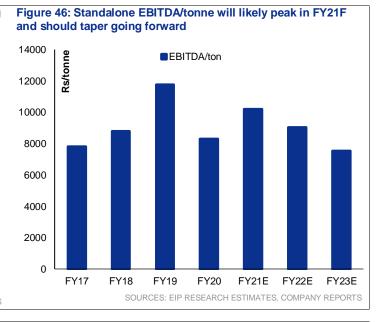
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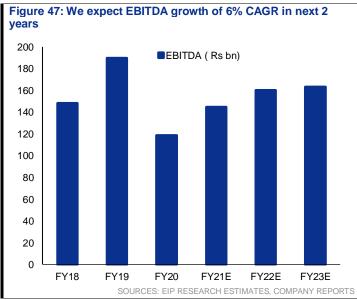
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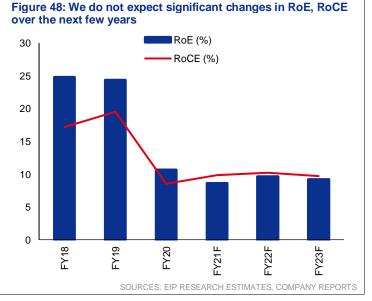
SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS

Figure 44: Captive iron ore will help JSW Steel control costs,

Figure 45: FY21F has been a windfall for JSW in terms of coking coal costs, but we do not expect it to last 200 ■Price of Imported Coal (US\$/t) 180 160 140 120 100 80 60 40 20 0 FY17 FY18 FY20 FY21E FY22E FY23E FY19 SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS











# Volume growth unlikely to compensate for drop in realisation; downgrade to Reduce

We believe JSW Steel has many things going for it now: 1) captive iron ore reserves and the unlikelihood of a repeat of FY11 and FY12 when iron ore was scarce because of a mining ban; 2) significant advantage of size and low capital intensity; and 3) a well-diversified customer base which helped it to export big quantities in Apr-May 2020. However, like any other steel player, JSW Steel cannot escape the steel cycle and a fall in realisations will lead to suboptimal RoCE/RoE. In our view, the current valuation is high and there is significant scope for a fall in Bloomberg consensus earnings. Thus, we downgrade the stock to Reduce, from Add and lower our EV/EBITDA-based target price to Rs330 from Rs560.

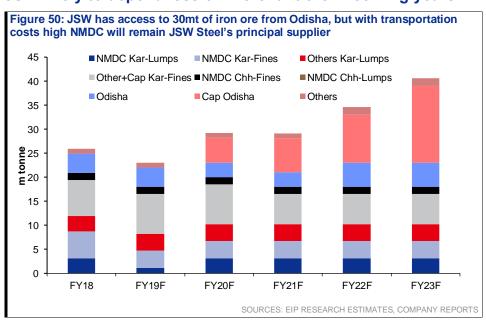
#### JSW Steel has done well on raw material security front

Due to the issues it had with the raw material scarcity in FY11/12, we believe JSW Steel's acquisition (via auction) of a ~30mt iron ore mine in Odisha will help ensure the company raw material availability in future. We expect the company to participate in future coal mine block auctions as well.

#### JSW acquired sizeable iron ore mining capacity in Odisha >

Name	Premium (%)	EC Limit (mt)	Name	Premium (%)	EC Limit (m
JSW Steel	98.55	6.00	JSW Steel	95.20	5.6
ArcelorMittal	107.55	5.50	Serajuddin	118.05	15.1
JSW Steel	132.00	1.20	Shyam	135.00	6.2
Narbheram Power & Steel	90.90	3.50	JSW Steel	110.00	16.5
Kashvi International	150.00	1.00	Patnaik Minerals	92.70	0.0
			Formento	141.25	5.3
			Ghanshyam Mishra & Sons	115.00	0.
			Vishal LPG	142.35	7.
			Yazdani Steel	100.00	0.0
			Tarama	93.06	2.
			Debabrata Behera	154.00	0.:

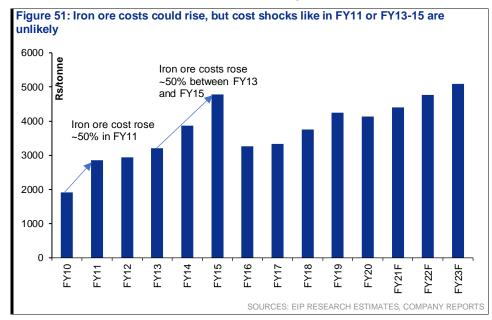
#### JSW likely to depend less on merchant ore in coming years >







#### Iron ore costs could rise, but don't expect cost shocks >



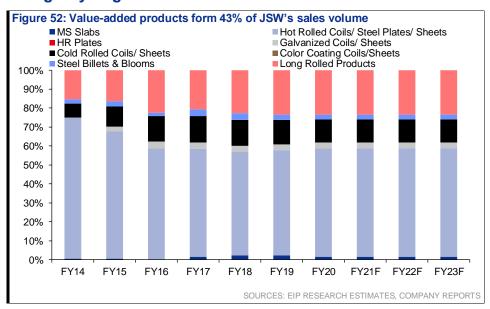
# Acquiring coal mines in commerical mining auctions will be another positive >

Some steel-grade coal blocks are available in the commercial coal block auction. Bidding and getting coal blocks in this auction will be a shot in the arm for JSW Steel, in our view, as it only has a small coking coal mine of 1mt capacity – the Moitra coking coal mine in Jharkhand.

#### Value-added products – positive for JSW Steel

The company's singular focus on value-added products has been positive for its realisations and EBITDA/tonne. Its value-added products' portfolio increased to 43% from 25% of the sales volume, in FY14, but we believe it still has a long way to go.

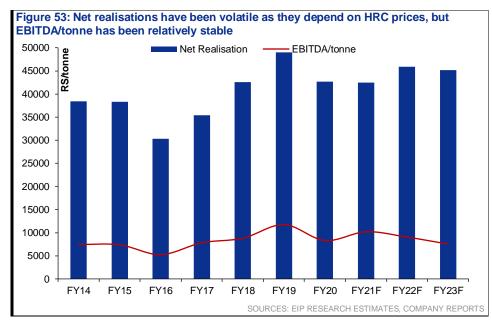
# Value-added products in the portfolio are increasing but it has a long way to go ▶



JSW Steel's efforts to add value to its product offerings has helped stabilise EBITDA/tonne to some extent, but realisations are still driven by base HRC prices.

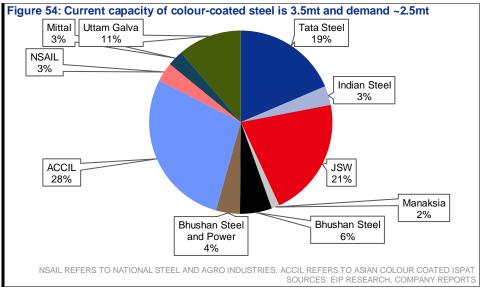






#### JSW venturing into colour-coated steel will be positive >

JSW Steel plans to triple its colour-coated steel capacity from the current 0.75mt to 2.1mt in the next two years (this includes the acquisition of Asian colour-coated steel company Asian Colour Coated Ispat Ltd [ACCIL]). India's colour-coated steel capacity is 3.5mt and demand 2.5mt. However, growing demand for consumer durable products will increase its requirement, in our view.



Normally colour-coated steel spreads are less volatile than HRC, but current supply chain shortages of HRC are leading to much lower spreads of pre-painted galvanised iron (PGPI) steel (colour-coated steel). We believe as HRC prices fall in the coming months, spreads will be restored. The current colour-coated steel spread vs HRC is at a three-year low as manufacturers are unable to pass on higher HRC costs. We expect HRC prices to fall and spreads to be restored.













#### **Earnings and valuations**

We expect EBITDA growth of 6% CAGR over FY21-23F. Steel prices are near their peaks and we expect them to fall in the coming quarters as soon as China opens after the Chinese New Year. With valuations and earnings at peak levels, we expect a price fall hence we downgrade the stock to Reduce.

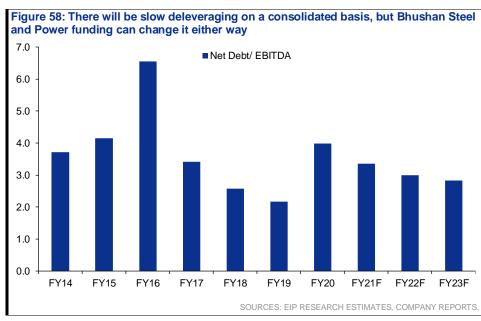
,386	38,297	30,269	35,393	41,592 42,545					
					48,990	42,626	42 413	45 8QO	15 172
,050	23 044	4 E E O O	40 000					+5,030	40,170
	23,044	15,598	19,862	23,722	25,183	22,216	19,606	24,262	24,869
,843	21,659	16,492	18,922	23,985	25,069	22,198	19,606	24,262	24,869
678	787	786	791	807	911	992	1,012	1,032	1,053
,423	8,480	7,739	7,867	8,957	11,261	11,132	11,601	11,557	11,710
,943	30,925	25,017	27,579	33,749	37,240	34,323	32,219	36,851	37,633
,442	7,372	5,252	7,814	8,796	11,749	8,303	10,194	9,039	7,540
,	678 423 943	678 787 423 8,480 943 30,925	678     787     786       423     8,480     7,739       943     30,925     25,017       442     7,372     5,252	678     787     786     791       423     8,480     7,739     7,867       943     30,925     25,017     27,579       442     7,372     5,252     7,814	678         787         786         791         807           423         8,480         7,739         7,867         8,957           943         30,925         25,017         27,579         33,749           442         7,372         5,252         7,814         8,796	678         787         786         791         807         911           423         8,480         7,739         7,867         8,957         11,261           943         30,925         25,017         27,579         33,749         37,240           442         7,372         5,252         7,814         8,796         11,749	678         787         786         791         807         911         992           423         8,480         7,739         7,867         8,957         11,261         11,132           943         30,925         25,017         27,579         33,749         37,240         34,323           442         7,372         5,252         7,814         8,796         11,749         8,303	678         787         786         791         807         911         992         1,012           423         8,480         7,739         7,867         8,957         11,261         11,132         11,601           943         30,925         25,017         27,579         33,749         37,240         34,323         32,219           442         7,372         5,252         7,814         8,796         11,749         8,303         10,194	423 8,480 7,739 7,867 8,957 11,261 11,132 11,601 11,557 943 30,925 25,017 27,579 33,749 37,240 34,323 32,219 36,851

Figure 57: With 5mt capex in pipeline, JSW Steel has sufficient volume growth potential										
Volume	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21F	FY22F	FY23F
Crude Steel Production	12.17	12.63	12.56	15.80	16.27	16.69	16.06	16.00	19.00	22.50
Total Sales	11.80	12.03	12.13	14.77	15.62	15.76	15.08	15.02	17.84	21.12
SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS										

#### Our projections do not factor in JSW-Bhushan integration >

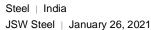
While JSW Steel is NCLT's preferred bidder (Source: National Company Law Tribunal [NCLT]), JSW Steel's funding and holding structure is still not clear. The media has reported different versions and in one version JSW Steel holds only a 49% stake in Bhushan Steel and Power (Source: Business Standard). Consequently, we have not assumed any leveraging on the balance sheet or gains in revenue based on the Bhushan Steel and Power integration.

#### Consolidated Debt/ EBITDA will not fall much >



#### **EV/EBITDA** seems high on likely weak earnings growth >

JSTL is trading at 10x the one-year forward EV/EBITDA. The average of the last 10 years is 7x. We value JSW Steel at +1SD 8x FY22F to arrive at a TP of Rs330. We have valued the stock at +1SD of long-term mean as balance sheet is deleveraging and value added product is increasing in portfolio.









#### **Potential Risk**

- Higher-than-expected steel price will lead to higher EBITDA which will result in higher profitability, hence, higher share price.
- Debt has remained a concern for investors however if JSW curtails its capex plan then it will be a positive for the share price.





#### BY THE NUMBERS

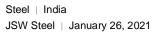




Profit & Loss					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Total Net Revenues	8,47,570	7,33,260	7,18,008	9,34,470	10,85,495
Gross Profit	8,47,570	7,33,260	7,18,008	9,34,470	10,85,495
Operating EBITDA	1,89,520	1,18,730	1,44,706	1,60,048	1,63,359
Depreciation And Amortisation	(40,410)	(42,460)	(50,786)	(59,752)	(64,811)
Operating EBIT	1,49,110	76,270	93,920	1,00,296	98,548
Financial Income/(Expense)	(39,170)	(42,650)	(47,434)	(47,434)	(47,434)
Pretax Income/(Loss) from Assoc.	(300)	(900)	(900)	(900)	(900)
Non-Operating Income/(Expense)	2,040	5,460	5,144	4,357	5,591
Profit Before Tax (pre-EI)	1,11,680	38,180	50,729	56,319	55,804
Exceptional Items		(8,050)			
Pre-tax Profit	1,11,680	30,130	50,729	56,319	55,804
Taxation	(36,440)	9,060	(19,310)	(18,835)	(17,409)
Exceptional Income - post-tax					
Profit After Tax	75,240	39,190	31,419	37,484	38,395
Minority Interests	1,150	1,110	1,110	1,110	1,110
Preferred Dividends	279	279	279	279	279
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	76,669	40,579	32,808	38,873	39,784
Recurring Net Profit	76,669	48,629	32,808	38,873	39,784
Fully Diluted Recurring Net Profit	76,669	48,629	32,808	38,873	39,784

Cash Flow					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
EBITDA	1,89,520	1,18,730	1,44,706	1,60,048	1,63,359
Cash Flow from Invt. & Assoc.					
Change In Working Capital	(15,810)	16,390	9,189	1,038	(1,045)
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense	(23,140)	11,180	(723)	7,468	5,772
Other Operating Cashflow	34,210	32,340	52,578	51,791	53,025
Net Interest (Paid)/Received	(35,820)	(39,240)	(47,434)	(47,434)	(47,434)
Tax Paid	(2,630)	(11,550)	(19,310)	(18,835)	(17,409)
Cashflow From Operations	1,46,330	1,27,850	1,39,006	1,54,076	1,56,267
Capex	(1,01,620)	(1,27,670)	(93,750)	(89,813)	(81,500)
Disposals Of FAs/subsidiaries					
Acq. Of Subsidiaries/investments					
Other Investing Cashflow	(12,860)	(68,190)			
Cash Flow From Investing	(1,14,480)	(1,95,860)	(93,750)	(89,813)	(81,500)
Debt Raised/(repaid)	66,540	1,14,700			
Proceeds From Issue Of Shares	(1,530)	(5,660)			
Shares Repurchased					
Dividends Paid	(9,330)	(11,950)	(10,145)	(10,145)	(10,145)
Preferred Dividends					
Other Financing Cashflow	(38,150)	(45,200)	(47,434)	(47,434)	(47,434)
Cash Flow From Financing	17,530	51,890	(57,579)	(57,579)	(57,579)
Total Cash Generated	49,380	(16,120)	(12,323)	6,685	17,188
Free Cashflow To Equity	98,390	46,690	45,256	64,264	74,767
Free Cashflow To Firm	67,670	(28,770)	92,690	1,11,698	1,22,201

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS







#### BY THE NUMBERS...cont'd

Balance Sheet					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Total Cash And Equivalents	62,690	1,20,050	1,07,727	1,14,412	1,31,600
Total Debtors	71,600	45,050	45,755	54,974	61,865
Inventories	1,45,480	1,38,640	1,40,782	1,68,805	1,89,749
Total Other Current Assets	55,780	61,950	45,491	49,642	52,835
Total Current Assets	3,35,550	3,65,690	3,39,755	3,87,834	4,36,049
Fixed Assets	7,36,930	8,87,700	9,30,664	9,60,725	9,77,414
Total Investments	18,120	12,570	12,570	12,570	12,570
Intangible Assets	8,400	4,150	4,150	4,150	4,150
Total Other Non-Current Assets	50,140	48,090	46,712	47,244	47,271
Total Non-current Assets	8,13,590	9,52,510	9,94,096	10,24,689	10,41,405
Short-term Debt	63,330	83,250	83,250	83,250	83,250
Current Portion of Long-Term Debt					
Total Creditors	1,61,590	1,79,180	1,82,153	2,21,040	2,50,104
Other Current Liabilities	81,090	1,10,700	1,03,305	1,06,848	1,07,767
Total Current Liabilities	3,06,010	3,73,130	3,68,707	4,11,139	4,41,121
Total Long-term Debt	4,10,630	5,10,480	5,10,480	5,10,480	5,10,480
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities	47,530	54,100	53,182	61,665	67,827
Total Non-current Liabilities	4,58,160	5,64,580	5,63,662	5,72,145	5,78,307
Total Provisions	41,520	20,250	20,177	20,804	21,551
Total Liabilities	8,05,690	9,57,960	9,52,547	10,04,088	10,40,979
Shareholders Equity	3,47,950	3,65,990	3,88,165	4,16,404	4,45,554
Minority Interests	(4,500)	(5,750)	(6,860)	(7,970)	(9,080)
Total Equity	3,43,450	3,60,240	3,81,305	4,08,434	4,36,474

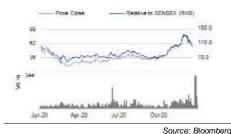
Key Ratios					
	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Revenue Growth	17.7%	(13.8%)	1.0%	30.1%	16.2%
Operating EBITDA Growth	28.1%	(37.4%)	21.9%	10.6%	2.1%
Operating EBITDA Margin	23.0%	16.7%	20.2%	17.1%	15.0%
Net Cash Per Share (Rs)	(169.95)	(195.96)	(201.06)	(198.29)	(191.18)
BVPS (Rs)	143.78	151.41	160.58	172.26	184.32
Gross Interest Cover	3.81	1.79	1.98	2.11	2.08
Effective Tax Rate	32.6%		38.1%	33.4%	31.2%
Net Dividend Payout Ratio	12.9%	20.3%	30.1%	25.4%	24.8%
Accounts Receivables Days	25.55	29.03	23.08	19.67	19.64
Inventory Days	nm	nm	nm	nm	nm
Accounts Payables Days	nm	nm	nm	nm	nm
ROIC (%)	18.1%	8.5%	10.1%	10.5%	10.1%
ROCE (%)	19.2%	8.3%	9.6%	10.0%	9.5%
Return On Average Assets	11.1%	7.3%	5.9%	6.2%	5.9%

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS

#### India

#### REDUCE (previously ADD)

Consensus ratings\*: Buy 11 Hold 5 Sell 3 Current price: Rs58 Rs54 Target price: Rs150 Previous target: -6.9% Up/downside: EIP Research / Consensus: -23.2% SAIL.NS Reuters: SAIL IN Bloombera: US\$3,298m Market cap: Rs2,40,578m US\$32.0m Average daily turnover: Rs2333.1m 4,130.5m Current shares o/s: Free float: 25.0% \*Source: Bloomberg



			•
Price performance	1M	ЗМ	12M
Absolute (%)	(3.3)	59.4	14.1
Relative (%)	(6.1)	34.1	(1.8)

Major shareholders	% held
Government of India Life Ins. Corp. of India	75.0 9.0
Reliance Capital Trustee Co Ltd	2.5

## Steel Authority of India

### Steel cycle worsening; Reduce

- SAIL did Rs630bn (last 10 years) capex but capacity remains uncommissioned (4-5mt); efficiency didn't increase, leading to FY21F net debt/ EBITDA 7.33x.
- Despite having captive iron ore capacities, SAIL's operational cost/t is the highest among its steel peers. Its mining cost is rising, negating advantages.
- We expect steel prices to fall and believe P/B. EV/ EBITDA valuations are too high for 0% RoE and 3.6% RoCE in FY23F. Downgrade to Reduce.

#### SAIL has no cost cushion; steel price to fall. Downgrade to Reduce

Despite having captive iron ore capacities and some coking coal, SAIL's overall steel making cost is the highest among large steel players in India. Captive iron ore has ceased to be an advantage as SAIL's production costs have often been higher than Indian Bureau of Mines-notified prices. Therefore, SAIL's performance is linked to steel prices. As highlighted earlier in our report, we believe steel prices have reached their peaks and are likely to fall. With EBITDA CAGR for FY21-23F at 8.6%, SAIL will barely make any profits. At the same time, valuations are demanding. Downgrade to Reduce (previously Add).

#### Delayed projects and stagnant product mix are not helping SAIL

One would have assumed that after a capex of Rs630bn (last decade), SAIL would have stopped selling semis steel. Over the years semis sales have stagnated at ~2mt. Despite the higher capex, there has not been material improvement in the performance of SAIL's product mix and in its operational and cost efficiencies. Its expansion programmes have not shown any positive impact on the company.

#### We value SAIL at 8x EV/EBITDA to arrive at Rs54 TP

We expect EBITDA CAGR of 8.6% for FY21-23F. Steel prices are near their peak and we expect them to fall from coming quarters. High debt on the books will lead to miniscule EPS for the company. High debt and net debt/EBITDA will likely make the stock price volatile, in our view. We have not built rapid price correction into our estimate. However, note that when the inventory cycle (like the current one) turns for the worse the price collapse is faster, putting our lower-than-Bloomberg estimates at risk. We downgrade the stock to Reduce with a target price of Rs54 from Rs150 based on EV/EBITDA of 8x (as it currently trades at that valuation, earnings are highly volatile, hence we don't value it at historical average). Stability in steel prices can be the upside risk to our target price.

#### Analyst(s)



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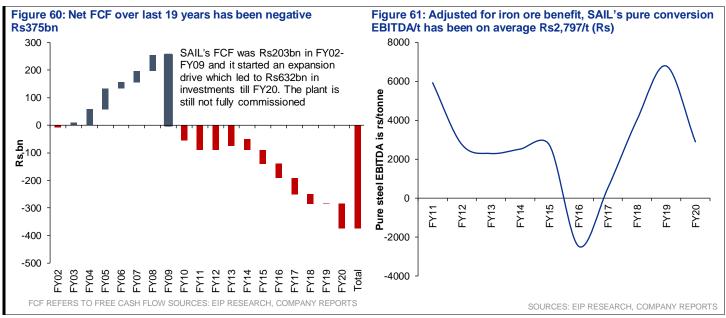
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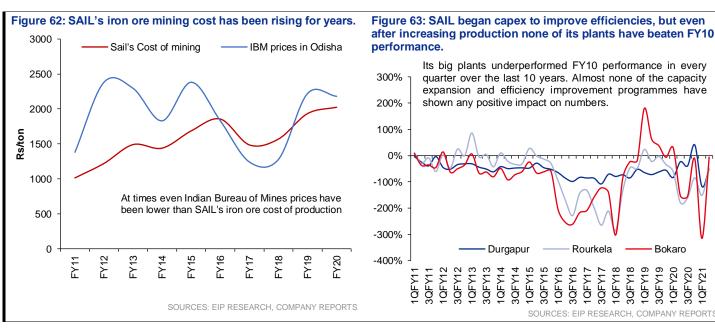
Financial Summary	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Revenue (Rsm)	6,62,958	5,96,364	6,10,503	6,84,228	7,28,406
Operating EBITDA (Rsm)	97,341	42,625	65,897	73,410	77,764
Net Profit (Rsm)	10,898	(32,526)	(3,852)	195	1,478
Core EPS (Rs)	7.5	(13.0)	(1.6)	0.1	0.6
Core EPS Growth	(455.1%)	(274.2%)	(87.7%)	(105.1%)	659.5%
FD Core P/E (x)	12.93	(4.33)	(36.55)	723.67	95.29
DPS (Rs)	4.1	4.1	4.1	4.1	4.1
Dividend Yield	0.00%	0.00%	0.00%	0.00%	0.00%
EV/EBITDA (x)	6.70	17.36	10.41	8.90	8.24
P/FCFE (x)	4.26	3.50	1.52	2.00	2.80
Net Gearing	117.8%	135.2%	122.7%	114.4%	110.8%
P/BV (x)	0.5	0.5	0.5	0.5	0.5
ROE	4.9%	(8.1%)	(1.0%)	0.0%	0.4%
% Change In Core EPS Estimates					
EIP Research/Consensus EPS (x)			(6.31)	107.96	13.53

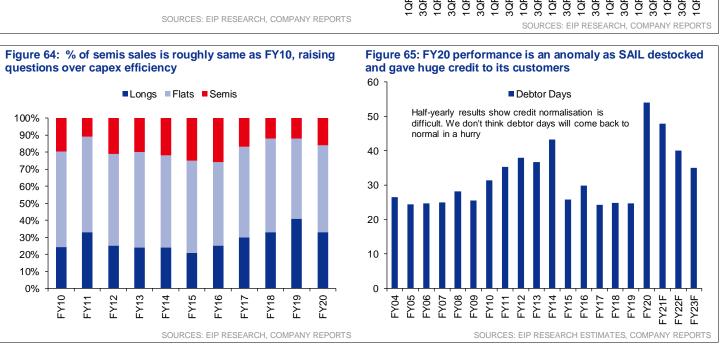
SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS, PRICED AS AT 25 JAN 2021





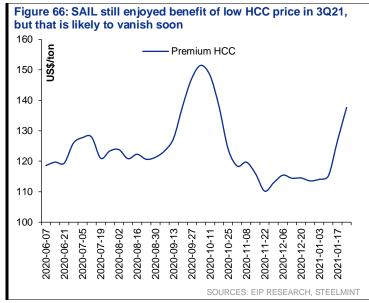












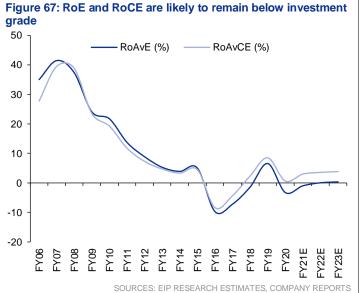
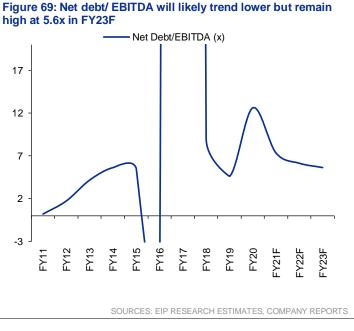
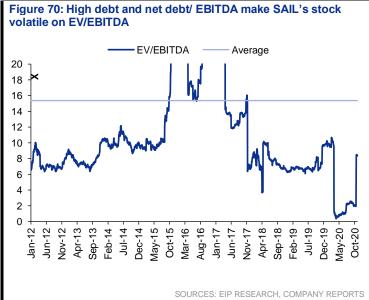


Figure 68: Given the kind of RoE expectation and destruction of equity in capex (it has not resulted in anything material) SAIL doesn't deserve even 0.5x P/B (on current year), in our view 1.40 Average +1 Stdev -1 Stdev +2 Stdev 1.20 1.00 0.80 0.60 0.40 0.20 0.00 Dec-14 Oct-15 Mar-16 Aug-16 Jan-17 Jun-17 SOURCES: EIP RESEARCH, COMPANY REPORTS





Multiple (x)	
	8.0
FY23F EV	677
FY22F Net Debt	452
FY22F Equity Value  Farget Price	224 54



### Steel prices nearing peak; Reduce

High debt on its books, hardly any improvement in operational performance despite Rs630bn capex makes SAIL an ideal punting stock on commodity cycles. It is a good buy when one believes commodity prices are near the bottom and a classic short when steel prices are peaking. We reckon steel prices have peaked and, hence, downgrade it to Reduce from Add.

#### Large capex failed to achieve positive results

SAIL invested Rs630bn over the last 10 years in its capital expenditure programme, but we have not seen any material improvement in the performance of 1) its product mix, 2) plants, and 3) operational costs at mines. These are the reasons why the stock price collapsed during the recent downcycle.

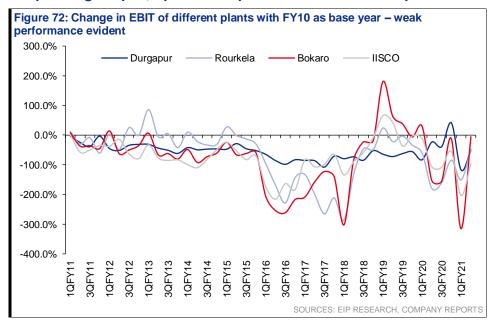
#### Almost all its plants performed worse than in FY10 ▶

SAIL started its capex programme with much fanfare in FY10. However, it failed to achieve anything in the last 10 years. The performance of its plants has been worse than in FY10 (we are analysing in terms of EBIT as it accounts for capex implemented).

#### SAIL's FCF over last 19 years was -Rs375bn

SAIL's Rs630bn capex over the 10 years has made it a net debt company from a net cash in FY10. Overall free cash flow generation in the last 19 years has been -Rs375bn.

#### Despite large capex, operational performance has not improved







#### Capex did not improve efficiencies

Figure 73: SAIL's company presentation mentions benefits accrued, but that has no
shown up in earnings yet

Million Tonne	Actual Production 2019-20	Capacity After On-going Expansion			
Crude Steel	16.155	21.4			
Saleable Steel	15.083	20.2			

### 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

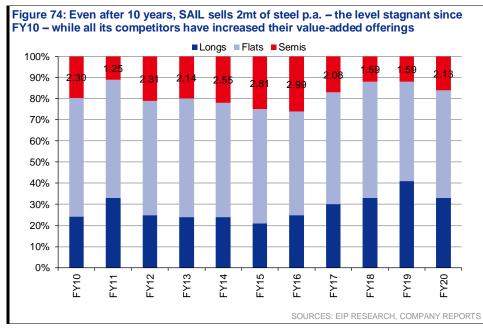
SOURCES: SAIL COMPANY PRESENTATION, EIP RESEARCH, COMPANY REPORTS



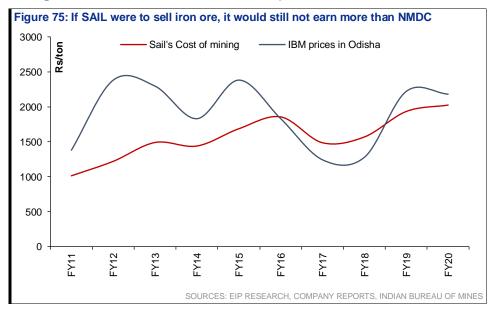


#### Semis were not eliminated in last 10 years, they are still sold >

We understand the quarterly variations and need to be flexible as per market demand. However, year after year the same percentage of semis is either retained or increased.



# SAIL has invested a lot in mines, but its cost of production is rising and sometimes exceeds IBM prices >



## We still can't say when SAIL's total capacity will be commissioned ▶

While there has been a big delay, we still do not have clarity on the overall plant's commissioning. The date has been extended for long now. Hopefully, in the near future all its capacity will be commissioned.

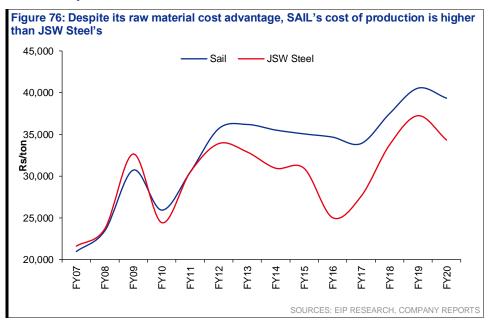




# SAIL's performance depends on steel price, which is likely to fall

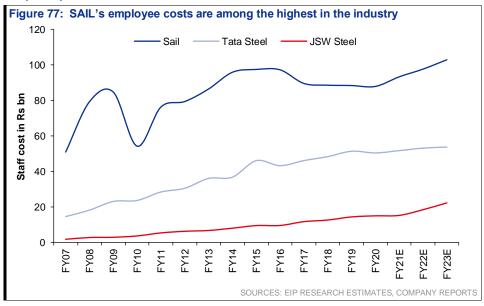
Despite captive iron ore reserves and at least some coking coal, SAIL has no cushion on the cost front. The mining cost of iron ore is often close to the market price, while captive coking coal is too small in quantity to make a substantial difference. So, SAIL's performance is totally dependent on steel prices. We are not positive on the prospects of steel prices.

# SAIL's iron ore mines are the best, but steel's cost is higher than competition >



#### SAIL's high fixed cost is not going to go away easily >

SAIL's fixed costs are among the highest in the industry and this problem is not going to go away easily.







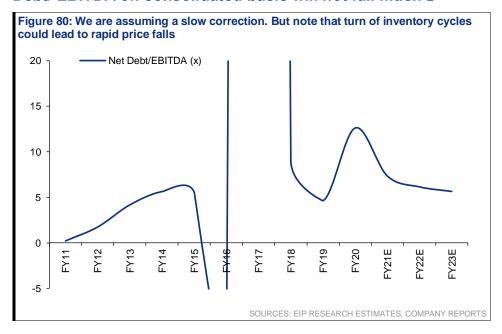
#### **Earnings and Valuations**

We expect EBITDA CAGR of 8.6% over FY21F-23F. Steel prices are near their peak and we expect them to fall soon after China opens up after the Chinese New Year. High debt on the books will lead to miniscule EPS for the company.

Figure 78: Our realisation	ns an	d cost	paran	neters							
Per Tonne Calculation (Rs/t)	FY15	FY16	FY17	FY18	FY19	FY20	FY21F	FY22F	FY23F	FY24F	FY25F
Sales Realisation	38,623	31,822	33,509	40,309	46,963	41,906	42,463	43,833	44,330	44,451	44,451
Net Realisation	39,049	32,274	33,933	40,764	47,439	42,337	43,176	44,503	44,979	45,081	45,094
Raw Material Consumed	15,817	14,178	16,126	18,894	22,874	20,528	20,352	21,570	21,721	21,574	21,381
Cost of Goods Consumed	14,615	14,625	16,219	19,699	20,950	19,803	19,635	20,910	21,093	20,977	20,784
Employee Cost	8,314	8,029	6,830	6,268	6,255	6,171	6,483	6,249	6,257	6,221	6,493
Other Expenditure	12,130	12,017	10,855	11,527	13,338	13,367	12,474	12,641	12,895	13,166	13,561
Total Costs	35,058	34,671	33,904	37,493	40,543	39,341	38,592	39,800	40,246	40,364	40,838
EBITDA	3,991	-2,396	29	3,270	6,896	2,995	4,583	4,703	4,733	4,717	4,256
				SC	URCES:	EIP RES	EARCH	ESTIMAT	ES, CON	MPANY R	EPORTS

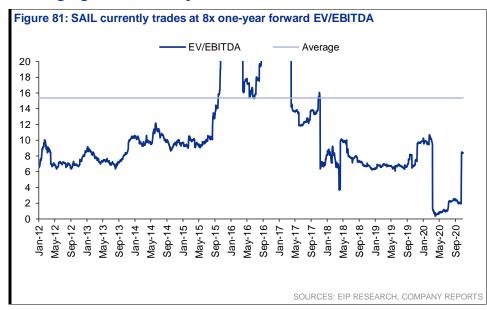
Figure 79: Volume growth will depend on capacity stabilisation at the new plants								
Volume [units?]	FY16	FY17	FY18	FY19	FY20	FY21F	FY22F	FY23F
Hot Metal Production	15.72	15.73	15.98	17.51	17.44	16.80	18.42	19.50
Crude Steel Production	14.28	14.50	15.02	16.27	16.16	15.57	17.07	18.07
Saleable Steel Production	11.88	13.12	13.51	14.33	15.08	14.44	15.76	16.64
SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS								

#### Debt/ EBITDA on consolidated basis will not fall much >





# EV/EBITDA valuations appear high, even though future earnings growth is likely to be anaemic >



#### P/B trading near 10-year average



#### We value SAIL at 8x EV/EBITDA to arrive at TP of Rs54 ▶

Because of extremely volatile earnings SAIL's stock average trading EV/EBITDA in 15x however at present it trades at 8x. We expect SAIL to show some stability earnings (although it will be lower than consensus), hence we value at current trading EV/EBITDA.

Figure 83: Our fair value of SAIL is Rs	54
SAIL Valuation (Rs billion)	
FY23F EBITDA	85
Multiple	8.0
FY23F EV	677
FY22F Net Debt	452
FY22F Equity Value	224
Target Price	54
	SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS

#### Potential Risk >

Higher-than-expected steel price will lead to expansion in RoE and RoCE.
 This will lead to expansion in EV/EBITDA multiples hence higher stock prices.





#### BY THE NUMBERS





Profit & Loss					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Total Net Revenues	6,69,673	6,02,492	6,20,753	6,94,683	7,39,071
Gross Profit	6,69,673	6,02,492	6,20,753	6,94,683	7,39,071
Operating EBITDA	97,341	42,625	65,897	73,410	77,764
Depreciation And Amortisation	(33,847)	(37,551)	(40,926)	(43,732)	(45,836)
Operating EBIT	63,494	5,075	24,970	29,678	31,928
Financial Income/(Expense)	(31,549)	(34,868)	(38,013)	(38,013)	(38,013)
Pretax Income/(Loss) from Assoc.					
Non-Operating Income/(Expense)	5,328	9,852	9,191	8,595	8,059
Profit Before Tax (pre-EI)	37,273	(19,941)	(3,852)	260	1,975
Exceptional Items	(14,784)	(1,094)			
Pre-tax Profit	22,489	(21,034)	(3,852)	260	1,975
Taxation	(11,591)	(11,491)		(65)	(497)
Exceptional Income - post-tax					
Profit After Tax	10,898	(32,526)	(3,852)	195	1,478
Minority Interests					
Preferred Dividends					
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	10,898	(32,526)	(3,852)	195	1,478
Recurring Net Profit	18,063	(31,432)	(3,852)	195	1,478
Fully Diluted Recurring Net Profit	18,063	(31,432)	(3,852)	195	1,478

Cash Flow					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
EBITDA	97,341	42,625	65,897	73,410	77,764
Cash Flow from Invt. & Assoc.					
Change In Working Capital	(26,258)	(1,06,806)	53,583	26,671	2,544
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense	142	(1,956)	3,710	1,959	2,402
Other Operating Cashflow	33,698	92,631	47,203	46,477	45,078
Net Interest (Paid)/Received	(31,549)	(33,870)	(38,013)	(38,013)	(38,013)
Tax Paid	(357)	871		65	497
Cashflow From Operations	73,016	(6,506)	1,32,380	1,10,570	90,272
Capex	(38,783)	(44,491)	(40,000)	(40,000)	(40,000)
Disposals Of FAs/subsidiaries					
Acq. Of Subsidiaries/investments					
Other Investing Cashflow	1,227	2,130			
Cash Flow From Investing	(37,557)	(42,361)	(40,000)	(40,000)	(40,000)
Debt Raised/(repaid)	(2,387)	89,074			
Proceeds From Issue Of Shares					
Shares Repurchased					
Dividends Paid		(2,481)			
Preferred Dividends					
Other Financing Cashflow	(33,521)	(36,538)	(38,013)	(38,013)	(38,013)
Cash Flow From Financing	(35,908)	50,055	(38,013)	(38,013)	(38,013)
Total Cash Generated	(449)	1,188	54,368	32,557	12,259
Free Cashflow To Equity	33,072	40,207	92,380	70,570	50,272
Free Cashflow To Firm	67,008	(14,997)	1,30,393	1,08,583	88,285

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS





#### BY THE NUMBERS...cont'd

Balance Sheet					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Total Cash And Equivalents	2,194	3,633	58,000	90,557	1,02,817
Total Debtors	44,951	88,124	80,000	75,000	70,000
Inventories	1,94,418	2,37,472	1,95,580	1,90,324	2,02,485
Total Other Current Assets	80,930	79,956	77,839	77,939	78,763
Total Current Assets	3,22,493	4,09,185	4,11,419	4,33,821	4,54,065
Fixed Assets	7,73,727	7,77,706	7,76,780	7,73,048	7,67,212
Total Investments	15,848	15,850	15,850	15,850	15,850
Intangible Assets					
Total Other Non-Current Assets	52,310	48,238	47,089	47,186	47,282
Total Non-current Assets	8,41,885	8,41,794	8,39,718	8,36,084	8,30,344
Short-term Debt	1,06,312	1,66,408	1,66,408	1,66,408	1,66,408
Current Portion of Long-Term Debt					
Total Creditors	72,648	63,270	65,858	73,701	78,410
Other Current Liabilities	1,99,721	1,90,644	1,89,507	1,98,180	2,03,999
Total Current Liabilities	3,78,681	4,20,322	4,21,772	4,38,289	4,48,817
Total Long-term Debt	3,45,388	3,74,863	3,74,863	3,74,863	3,74,863
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities	15,838	16,931	17,244	17,496	17,801
Total Non-current Liabilities	3,61,226	3,91,794	3,92,107	3,92,358	3,92,664
Total Provisions	42,954	41,088	43,336	45,141	47,334
Total Liabilities	7,82,862	8,53,204	8,57,215	8,75,788	8,88,815
Shareholders Equity	3,81,516	3,97,774	3,93,922	3,94,116	3,95,594
Minority Interests					
Total Equity	3,81,516	3,97,774	3,93,922	3,94,116	3,95,594

Key Ratios					
	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Revenue Growth	16.5%	(10.0%)	2.4%	12.1%	6.5%
Operating EBITDA Growth	110.8%	(56.2%)	54.6%	11.4%	5.9%
Operating EBITDA Margin	14.7%	7.1%	10.8%	10.7%	10.7%
Net Cash Per Share (Rs)	(185.75)	(222.42)	(199.92)	(186.46)	(181.38)
BVPS (Rs)	157.65	164.56	162.96	163.04	163.65
Gross Interest Cover	2.01	0.15	0.66	0.78	0.84
Effective Tax Rate	51.5%			25.2%	25.2%
Net Dividend Payout Ratio					
Accounts Receivables Days	22.80	40.31	49.43	40.72	35.81
Inventory Days	nm	nm	nm	nm	nm
Accounts Payables Days	nm	nm	nm	nm	nm
ROIC (%)	7.3%	0.5%	2.7%	3.3%	3.6%
ROCE (%)	7.9%	0.6%	2.7%	3.2%	3.4%
Return On Average Assets	5.0%	0.3%	2.7%	3.0%	3.1%

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS





#### REDUCE (no change)

Sell 0 Consensus ratings\*: Buy 23 Hold 6 Current price: Rs652 Rs575 Target price: Previous target: Rs1,020 Up/downside: -11.8% EIP Research / Consensus: -36.8% TISC.NS Reuters: TATA IN Bloombera: US\$10.301m Market cap: Rs7,51,444m US\$126.5m Average daily turnover: Rs9224.8m 1,145.0m Current shares o/s: 66.9% Free float: \*Source: Bloomberg



Price performance	1M	ЗМ	12M
Absolute (%)	4.8	54.0	34.9
Relative (%)	1.8	29.6	16.1

Major shareholders Promoter & Promoter Group	% held 33.1
LIC India	9.0
HDFC Trustee Company	4.6

### **Tata Steel**

### Steel cycle worsens, Europe asset sales key

- Steel prices have been propped by inventory scarcity in the supply chain. We think current steel margins will lead to a deluge of steel and, consequently, fall.
- BF and EAF price spreads over raw materials is near all-time high in Europe and will likely lead to the start-up of spare EAF capacities and fall in prices.
- Tata Steel looks overvalued on all parameters. European asset sales is factored into its price. Downgrade to Reduce.

#### Current high prices likely to prop up steel supply; but prices may fall

The early stages of the pandemic saw much bearishness in the market, leading to massive destocking in the supply chain. However, with central banks pumping in liquidity the economy recovered faster. It has skewed all calculations about adequate levels of inventory in the supply chain. With 45% of steel in the supply chain (producer+ distributor+ user) at any point, any miscalculation on perception of demand by the users of steel could spiral into a big deficit/ surplus. We suggest not paying for these earnings as we think this steel price will fall in the coming months. Valuations look frothy with earnings fall in sight. Consequently, we downgrade our rating to Reduce (from Add) and lower our TP to Rs575 from Rs1020.

#### European asset sale holds key, positive equity value a plus

European asset sales hold the key at the current level. We expect the European carbon emission law to become tougher (rulings to come in June 2021), which can add at least US\$20/tonne to the production cost (25-30% of the peak EBITDA/tonne). Europe EBITDA can fall below US\$100m in FY22F. While our valuation assigns negative equity value of Rs105/share, a generous buyer paying a positive equity value could prop up the stock price.

#### Chinese ban on HCC imports unlikely to continue

Indian steel makers benefitted when HCC (hard coking coal) price dived when China imposed a ban on Australian coal imports. Chinese domestic coal prices are high, and the state has stopped publishing the daily coal index. Coal shortages are leading to power cuts (Please see link here). These politics-driven policies can reverse in a single day. As of now, Chinese domestic coking coal prices are 60% higher than Australian prices and lifting the ban will likely lead to fast convergence of prices and result in a rise in production cost for Indian mills.

#### Market offering best steel price and cost best multiple; Reduce

In our view, the best earnings get the best multiples. Inventory cycles will create a mirage of commodity super cycles. Currently Tata Steel trades at 10x FY22F EV/EBITDA. On average [over last 10 years], Tata Steel trades at 7x EV/EBITDA (on current year). We add Tata Steel's equity value NPV to the benefits of iron ore for the next 10 years. We assign 7x EV/EBITDA to the base business, in line with historical average. We downgrade Tata Steel to Reduce, with lower TP at Rs575.

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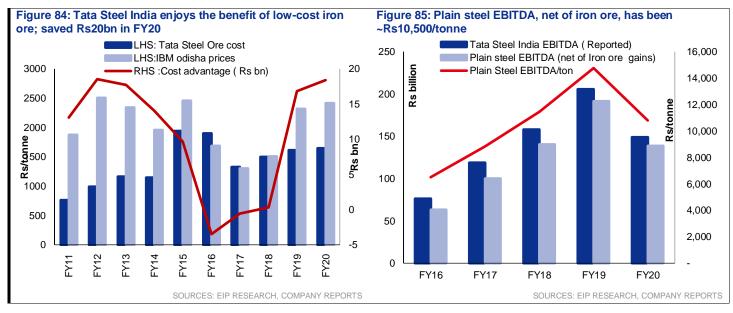
Financial Summary	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Revenue (Rsm)	15,46,918	13,69,768	14,77,832	15,46,511	15,65,896
Operating EBITDA (Rsm)	2,93,833	1,74,631	2,92,489	2,36,710	2,25,452
Net Profit (Rsm)	1,02,835	27,196	1,03,900	60,104	49,280
Core EPS (Rs)	42.8	26.8	43.0	24.9	20.4
Core EPS Growth	98.5%	(37.4%)	60.5%	(42.2%)	(18.0%)
FD Core P/E (x)	15.33	57.98	15.17	26.22	31.98
DPS (Rs)	4.1	4.1	4.1	4.1	4.1
Dividend Yield	0.73%	0.73%	0.73%	0.73%	0.73%
EV/EBITDA (x)	5.13	9.20	5.15	6.34	6.78
P/FCFE (x)	42.90	11.90	8.24	15.93	24.64
Net Gearing	133.2%	137.7%	111.1%	104.4%	103.2%
P/BV (x)	0.8	0.8	0.7	0.7	0.7
ROE	16.0%	9.1%	13.3%	7.1%	5.5%
% Change In Core EPS Estimates			(0.28%)	(0.62%)	(0.80%)
EIP Research/Consensus EPS (x)			0.85	3.20	4.14

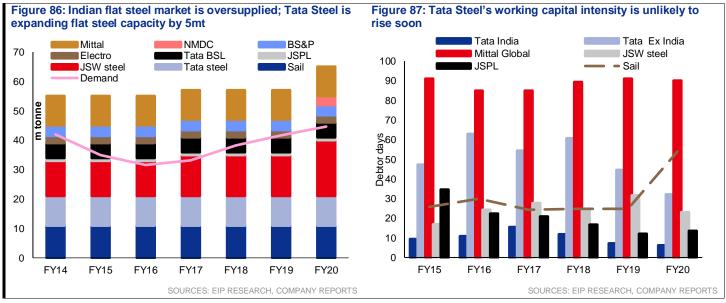
SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS, PRICED AS AT 25 JAN 2021

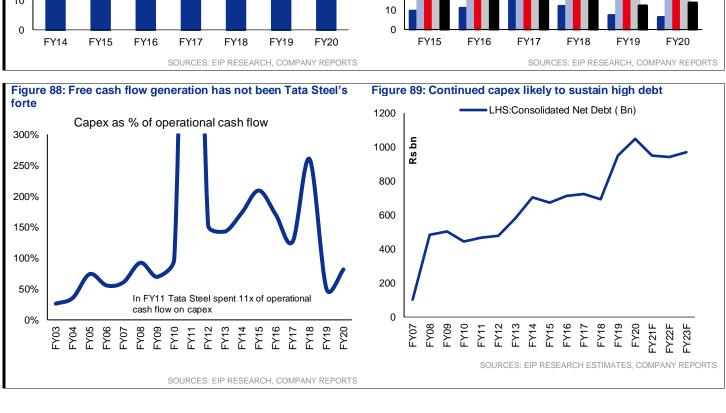






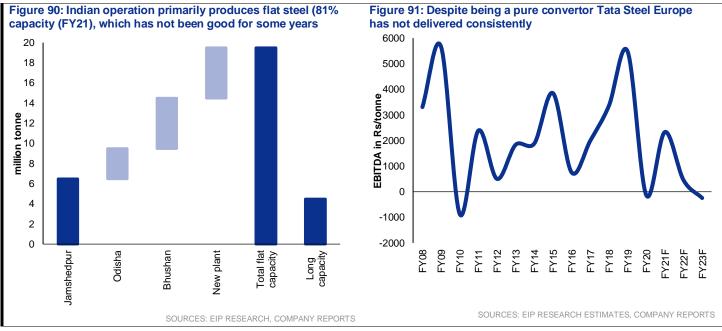


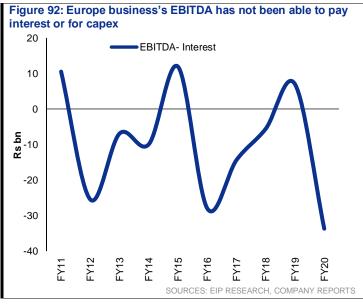


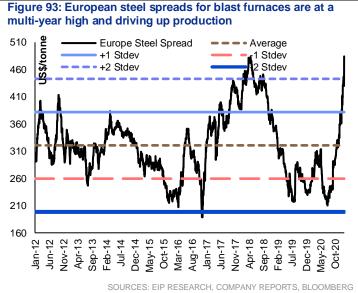




















# Highly leveraged to steel cycle; sell

With debt of nearly Rs1,000bn (end FY20), Tata Steel is the most leveraged to the steel cycle among its peers in our coverage universe. An earnings fall will have a significant impact on the equity value, in our view. There has been speculation (Source: Business Standard) it will sell its European assets. However, our valuation indicates these asset sales are not factored into the stock's price. Risk reward is unfavourable and we downgrade the stock to Reduce from Add.

# End of captive mine lease visible in high EBITDA

Over the last 10 years, the bulk of the Tata Steel's EBITDA resulted from the mining business. According to the Mines and Minerals (Development and Regulation) (MMDR) Act, 2015, after 2030 all iron ore captive mining leases will expire and Tata Steel will have to make new bids for these mines. Hence, according a multiple to mining earnings is not rational. We add the NPV of savings because of captive iron ore for the next few years and add it to the base steel business valuation (assuming coking coal mine in perpetuity) to arrive at a value for Tata Steel.

## MMDR Act 2015 represents seminal change for Indian mining >

Prior to this amendment there were a slew of cases in different courts of India, disrupting mining activity. This law extended leases of all captive mines till 31 Mar 2020. It said, and we quote, "Notwithstanding anything contained in sub-sections (2), (3) and sub-section (4), the period of lease granted before the date of commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2015, where mineral is used for captive purpose, shall be extended and be deemed to have been extended upto a period ending on the 31st March, 2030 with effect from the date of expiry of the period of renewal last made or till the completion of renewal period, if any, or a period of fifty years from the date of grant of such lease, whichever is later, subject to the condition that all the terms and conditions of the lease have been complied with".

## The law led to auctions of many iron ore mines at steep premiums

Figure 96: About 60mt of merchant mining production capacity changed hands at weighted average premium of 117%

Figure 97: Seasoned merchant category players like JSW, Serajuddin, Shyam Group and Formento have 70% share. Weighted average premium on captive mines has been 106% of notified IBM prices

Mine	Existing Lessee	Highest Bidder	Premium (%)
Nuagoan	KJS Ahluw alia	JSW Steel	95.2
Balda	Serajuddin	Serajuddin	118.05
Jiling Langalota	Essel Mining	Shyam	135
Jajang	Rungta	JSW Steel	110
Mahulsukha	Aryan Mining & Trading	Patnaik Minerals	92.7
Nadidih	Bonai Industrial Company	Formento	141.25
Gorumahisani	Ghanshyam Mishra & Sons	Ghanshyam Mishra & Sons	115
Nadidih Feegrade Mines	Feegrade Co.Pvt Ltd	Vishal LPG	142.35
Kolmong	Rungta	Yazdani Steel	100
Teherai	Bonai Industrial Company	Tarama	93.06
Siljora- Kalimati	Rungta	Debabrata Behera	154

Captive			Merchant				
Miner	Premium (%)	EC Limit (mt)	Miner	Premium (%)	EC Limit (mt)		
JSW Steel	98.55	6	JSW Steel	95.2	5.62		
ArcelorMittal	107.55	5.5	Serajuddin	118.05	15.15		
JSW Steel	132	1.2	Shyam	135	6.28		
Narbheram Pow er & Steel	90.9	3.5	JSW Steel	110	16.5		
Kashvi International	150	1	Patnaik Minerals	92.7	0.04		
			Formento	141.25	5.3		
			Ghanshyam Mishra & Sons	115	0.75		
			Vishal LPG	142.35	7.45		
			Yazdani Steel	100	0.04		
			Tarama	93.06	2.5		
			Debabrata Behera	154	0.14		

SOURCES: EIP RESEARCH, INDIAN BUREAU OF MINES

IBM REFERS TO INDIAN BUREAU OF MINES SOURCES: EIP RESEARCH, IBM

#### Tata Steel's Joda (Odisha) iron ore mines are among the world's best

Tata Steel's mines in Joda, Odisha, are among the best in the world (in terms of % Fe content in iron ore). Readers will be amused to know that Tata Steel's old blast furnaces could only handle lumps of 67% plus grade. The company's tailing pond in Jamshedpur has more than 40mt of iron ore (of more than 60% Fe content). Given the premiums lower grade mines are commanding we infer that after 10 years these mines can command higher premiums.

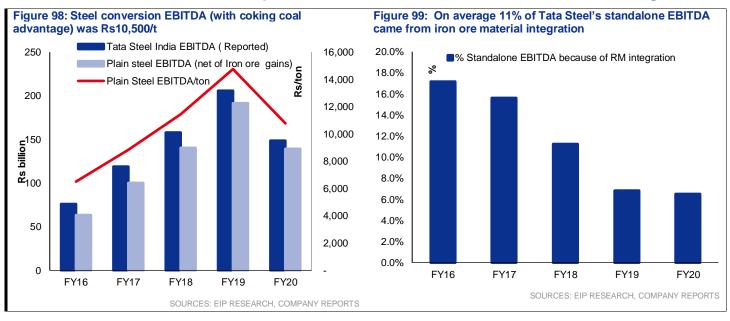


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#### By 2030F Tata Steel will become a normal steel maker

While we cannot speculate on the premium Tata Steel will pay to retain its Iron ore mine in 2030F, we believe Tata Steel could pay market price to procure iron ore. However, it will still have access to captive coking coal (at least as per current laws). Hence, we believe Tata Steel will become a normal steel converter like its global peers.

# Over last 5 years on an average, Tata Steel has made 11% of the reported standalone EBITDA because of iron ore integration >



We have assumed that if Tata Steel did not have captive iron ore it would have bought the same at Indian Bureau of Mines-notified prices.

# As of now, no law indicates Tata Steel's coal mines will be taken away in 2030F

As the Coal Bearing Areas Act is separate from the MMDR Act, we cannot extrapolate the changes in the MMDR Act 2015 in relation to the coal blocks. However, policy is moving in the same direction. Having said that, we will not attempt to make a guess there. We have assumed the Tata Steel coking coal mine will continue in perpetuity.

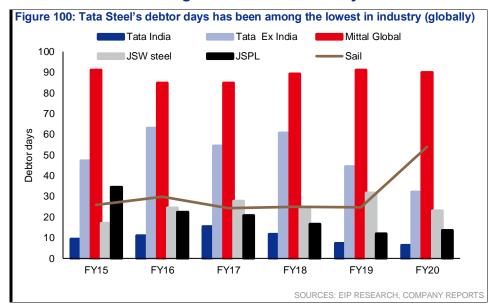
# Working capital may not rise even with Arcelor Mittal entering Indian market

The Tata Steel India division enjoyed beneficial credit terms in the last couple decades. Its debtor days were in the low single digit, while all its competition saw high debtor days. More than anything else this is the result of the belief in the Tata brand and, in our view, that is unlikely to change. Tata Steel sells steel through its dealer networks and never competes with its dealers. This practice is difficult for others to replicate.



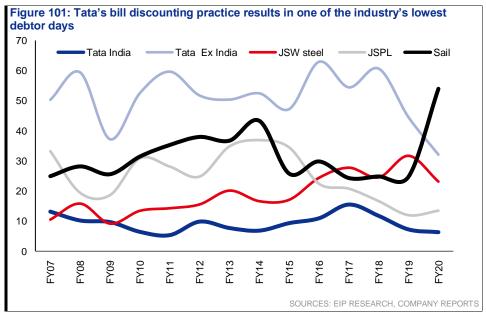


### Tata Steel's debt among lowest in the industry >



## Tata Steel, with other steel companies, slowly changed industry

Tata Steel pioneered the channel financing business in India. All its sales happens through the distributor channel. Tata Steel allows other equipment manufacturer (OEMs) users to buy from this distribution channel. It facilitates channel financing, which doesn't result in any contingent liability on Tata Steel's books. Other companies have followed this model, but their debtor days have not been as low as Tata Steel's.



# New entrant like Arcelor Mittal can replicate this model if it has a wide distributor network like Tata

We believe Arcelor Mittal will distort the market initially as it has no distributorship in place, however, later credit period can stabilise on industry patterns.





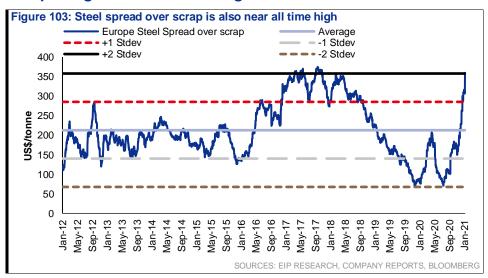
# If not sold, European assets will bite again

There is widespread expectation in the market that Tata Steel Europe will be sold and that servicing the liability of interest + capex will over. If that does not happen, we believe Tata Steel will have a tough time again.

## Blast furnace steel margins in Europe are near the peak >



## Scrap margins near all-time high >



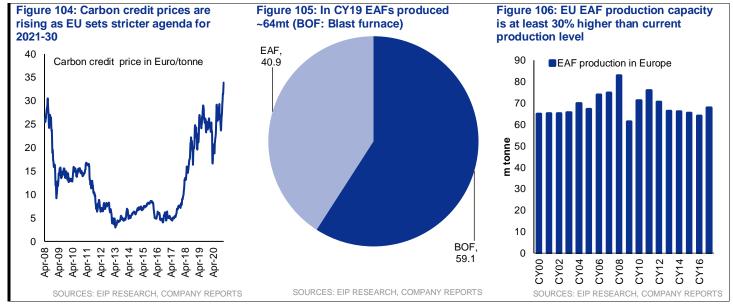
#### Matter of time before carbon-intensive EAFs start operating ▶

Electric arc furnaces (EAFs) account for almost 40% of steel production (CY20) in the European Union (EU). EAFs are 65% less carbon intensive than blast furnaces. In an era of new carbon regulations in the EU, these furnaces will have at least US\$30/tonne cost advantage vis-à-vis blast furnaces (BFs). While new allocations are not available yet, the European Commission has maintained that allocations will be assigned on a rolling basis.



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# Current pandemic-related closure in Europe will force blast furnaces to shut down as they cannot ramp up fast like EAFs

The rapid rise in European prices is led by empty supply chains after the pandemic. Liquidity led to the perception of demand which likely would have led to long wait times for steel and, hence, the price rise, in our view. Blast furnaces need at least 20 days to start, while EAFs can start fast. So, if the steel spread remains where it is, we can see increased production from EAFs in the coming future. EAFs have a much lower carbon footprint, which is an added advantage.

## European operations need to be sold >

While the base for us would be zero EV for the European operations, anything more will be a positive for Tata Steel, in our view. We believe the next two quarters will be good for Tata Steel, hence, it may be the right time to sell its Europe asset. We feel sometimes it is good to leave 10-15% on the table for the other person in commodities, and Tata Steel is at the same juncture.





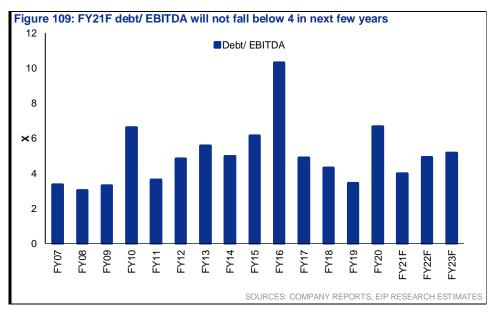
# **Earnings and Valuations**

We expect EPS CAGR of -8% and EBITDA CAGR of -3% for FY21-23F. Steel prices are near their peak and we expect them to fall in the next few quarters after China opens after its New Year. With valuations and earnings (EPS estimates) at peak levels, we believe a price fall is likely in the offing and we downgrade Tata Steel to Reduce. As of now, our valuations build in a nominal equity value for a European asset's sell-off. The share price could rise somewhat if steel prices remain stable and TSE (Tata Steel Europe) is sold at positive equity value (probability of the same is extremely low).

Figure 107: Our realisation and cost assumptions											
Tata Steel India (Rs/t)	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21F	FY22F	FY23F
Net Realisation	51,069	48,957	47,754	40,101	43,737	49,067	55,643	49,055	52,150	53,685	51,678
Raw Material Consumed	13,811	11,773	14,134	11,204	12,192	14,424	17,059	15,398	13,940	15,898	14,597
Cost of Goods Consumed	13,270	11,591	13,315	11,278	10,980	14,873	16,622	14,940	13,488	15,453	14,152
Employee Cost	4,816	4,311	5,259	4,527	4,197	3,974	4,043	4,088	4,133	4,179	4,225
Other Expenditure	18,108	18,012	17,741	16,321	17,738	17,234	18,773	17,964	18,131	18,493	18,938
Total Costs	36,194	33,913	36,316	32,125	32,914	36,081	39,439	36,992	35,752	38,126	37,316
EBITDA	14,875	15,043	11,439	7,976	10,823	12,987	16,204	12,063	16,398	15,559	14,362
				S	OURCES	: EIP RES	SEARCH	ESTIMAT	TES, CON	IPANY R	EPORTS

Figure 108: Tata Steel is running near capacity in standalone entity. Only BSL can											
increase sales volumes											
Sales vol in mt	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21F	FY22F	FY23F
Tata Steel India Volume	7.48	8.52	8.75	9.54	10.97	12.15	12.69	12.32	12.50	12.70	12.70
BSL Volume							3.57	4.14	4.10	4.90	5.20
Europe Volume	13.07	13.86	13.67	10.97	9.93	9.99	9.64	9.29	9.10	9.65	9.70
				5	SOURCE	S: EIP R	ESEARC	H ESTIN	IATES, CO	MPANY F	REPORTS

#### Debt/ EBITDA on consolidated basis will not fall much >

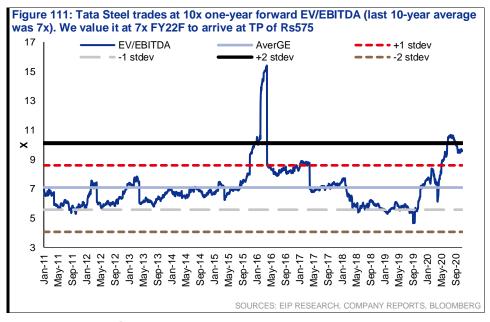


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# Courtesy investors' (Tata did rights issue hence book value went up) money Tata Steel still below +1SD on P/B ▶



# EV/EBITDA valuations appear high, more so with earnings likely to fall in coming years ▶



#### We value Tata Steel at Rs575/share ▶

	uding captive of									
(Rsm)	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
Savings Because of Iron ore	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
After tax savings	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
NPV of Iron ore Savings	84,753									
FY22 EBITDA	2,36,710									
Plain EBITDA	2,16,710									
EV	15,16,973									
Equity Value	6,59,242									
Per share (Rs)	575									

- We have valued Tata Steel at 7x FY22F EV/EBITDA in line with its historical trading multiples.
- For NPV calculations we have used 10% discount rate (as average debt of tata steel over last 15 year has remained around 10%) and residual life of mine at 10 years.





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# Current share price assumes European asset sale at positive equity value of Rs20/share vs our negative value of Rs105 ▶

Figure 113: Market believes Tata St Tata Steel Europe's EBITDA, FY22F (Rs m	teel can garner at least €2bn EV for European assets 4,389
Multiple (x)	7
EV (Rs m)	30,721
Debt in European Assets (Rs m)	1,51,380
Our negative value (Rs m)	-1,20,659
Negative value per share	-105.20
Market assignment of positive value	20.05
	SOURCES: EIP RESEARCH, COMPANY REPORTS, BLOOMBERG

#### Potential Risk >

- Higher-than-expected steel price, which can lead to higher EBITDA hence higher stock prices.
- If Tata Steel is able to sell European asset at positive equity value then it will be an upside to our rating.





# BY THE NUMBERS





Profit & Loss		·			
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Total Net Revenues	15,76,690	13,98,167	14,77,832	15,46,511	15,65,896
Gross Profit	15,76,690	13,98,167	14,77,832	15,46,511	15,65,896
Operating EBITDA	2,93,833	1,74,631	2,92,489	2,36,710	2,25,452
Depreciation And Amortisation	(73,418)	(84,407)	(90,924)	(93,673)	(96,879)
Operating EBIT	2,20,415	90,223	2,01,564	1,43,038	1,28,573
Financial Income/(Expense)	(76,601)	(75,335)	(80,716)	(80,716)	(80,716)
Pretax Income/(Loss) from Assoc.	2,247	1,880			
Non-Operating Income/(Expense)	14,206	18,435	18,000	18,000	18,000
Profit Before Tax (pre-EI)	1,60,267	35,203	1,38,848	80,321	65,856
Exceptional Items	(1,210)	(37,521)			
Pre-tax Profit	1,59,057	(2,317)	1,38,848	80,321	65,856
Taxation	(67,184)	25,684	(34,948)	(20,217)	(16,576)
Exceptional Income - post-tax					
Profit After Tax	91,873	23,367	1,03,900	60,104	49,280
Minority Interests	10,962	3,829			
Preferred Dividends					
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	1,02,835	27,196	1,03,900	60,104	49,280
Recurring Net Profit	1,03,533	64,716	1,03,900	60,104	49,280
Fully Diluted Recurring Net Profit	1,03,533	64,716	1,03,900	60,104	49,280

Cash Flow					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
EBITDA	2,93,833	1,74,631	2,92,489	2,36,710	2,25,452
Cash Flow from Invt. & Assoc.					
Change In Working Capital	25,905	41,962	906	(14,903)	(14,037)
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense	(32,887)	31,705	(119)	(5,632)	(3,877)
Other Operating Cashflow	(7,016)	8,138	28,820	58,282	65,564
Net Interest (Paid)/Received	(77,419)	(75,807)	(80,716)	(80,716)	(80,716)
Tax Paid	50,942	21,059	34,948	20,217	16,576
Cashflow From Operations	2,53,360	2,01,687	2,76,328	2,13,959	2,08,962
Capex	(86,243)	(1,00,123)	(85,000)	(1,15,000)	(1,45,000)
Disposals Of FAs/subsidiaries					
Acq. Of Subsidiaries/investments					
Other Investing Cashflow	(2,12,775)	(45,181)			
Cash Flow From Investing	(2,99,018)	(1,45,304)	(85,000)	(1,15,000)	(1,45,000)
Debt Raised/(repaid)	82,412	76,073			
Proceeds From Issue Of Shares	(60)	1,875			12
Shares Repurchased					
Dividends Paid	(14,239)	(18,152)	(11,461)	(11,461)	(11,461)
Preferred Dividends					
Other Financing Cashflow	(74,840)	(76,742)	(80,716)	(80,716)	(80,716)
Cash Flow From Financing	(6,727)	(16,946)	(92,177)	(92,177)	(92,166)
Total Cash Generated	(52,386)	39,438	99,150	6,781	(28,204)
Free Cashflow To Equity	36,753	1,32,457	1,91,328	98,959	63,962
Free Cashflow To Firm	31,760	1,32,191	2,72,044	1,79,675	1,44,678

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS





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# BY THE NUMBERS...cont'd

Balance Sheet					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Total Cash And Equivalents	58,662	1,14,866	2,14,016	2,20,797	1,92,594
Total Debtors	1,18,110	78,849	96,084	1,11,165	1,26,178
Inventories	3,16,561	3,10,687	3,04,455	3,04,925	3,04,998
Total Other Current Assets	96,577	82,925	82,925	82,925	82,925
Total Current Assets	5,89,910	5,87,327	6,97,480	7,19,813	7,06,694
Fixed Assets	13,90,865	14,99,930	14,94,005	15,15,332	15,63,453
Total Investments	32,133	28,533	28,533	28,533	28,533
Intangible Assets	39,966	40,545	40,545	40,545	40,545
Total Other Non-Current Assets	2,82,950	3,47,859	3,48,371	3,54,495	3,58,577
Total Non-current Assets	17,45,914	19,16,867	19,11,455	19,38,905	19,91,108
Short-term Debt	1,08,021	1,91,845	1,91,845	1,91,845	1,91,845
Current Portion of Long-Term Debt					
Total Creditors	2,17,170	2,13,809	2,26,136	2,26,687	2,26,772
Other Current Liabilities	1,88,437	1,80,568	1,80,150	1,80,248	1,81,211
Total Current Liabilities	5,13,627	5,86,222	5,98,131	5,98,779	5,99,828
Total Long-term Debt	9,00,141	9,71,437	9,71,437	9,71,437	9,71,437
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities	17,564	13,960	13,899	13,899	13,899
Total Non-current Liabilities	9,17,706	9,85,398	9,85,336	9,85,336	9,85,336
Total Provisions	1,91,596	1,70,946	1,71,400	1,71,891	1,72,096
Total Liabilities	16,22,929	17,42,566	17,54,867	17,56,007	17,57,261
Shareholders Equity	6,89,251	7,35,763	8,28,202	8,76,845	9,14,676
Minority Interests	23,645	25,866	25,866	25,866	25,866
Total Equity	7,12,895	7,61,629	8,54,068	9,02,711	9,40,542

Key Ratios					
	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Revenue Growth	26.9%	(11.5%)	7.9%	4.6%	1.3%
Operating EBITDA Growth	37.1%	(40.6%)	67.5%	(19.1%)	(4.8%)
Operating EBITDA Margin	19.0%	12.7%	19.8%	15.3%	14.4%
Net Cash Per Share (Rs)	(392.36)	(433.72)	(392.70)	(389.90)	(401.57)
BVPS (Rs)	284.81	304.38	342.62	362.74	378.39
Gross Interest Cover	2.88	1.20	2.50	1.77	1.59
Effective Tax Rate	42.2%		25.2%	25.2%	25.2%
Net Dividend Payout Ratio	11.0%	17.7%	11.0%	19.1%	23.3%
Accounts Receivables Days	28.04	25.71	21.60	24.46	27.66
Inventory Days	nm	nm	nm	nm	nm
Accounts Payables Days	nm	nm	nm	nm	nm
ROIC (%)	12.0%	4.6%	10.3%	7.1%	6.2%
ROCE (%)	12.6%	4.7%	9.8%	6.7%	5.9%
Return On Average Assets	7.7%	5.6%	7.2%	5.3%	4.9%

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS

## India

# ADD (no change)

Consensus ratings*:	Buy 19	Hold 0	Sell 2
Current price:			Rs280
Target price:	7		Rs476
Previous target:			Rs540
Up/downside:			70.0%
EIP Research / Conse	ensus:		30.9%
Reuters:		J	NSP.NS
Bloomberg:			JSP IN
Market cap:		USS	\$3,910m
		Rs2,8	35,248m
Average daily turnove	er:	US	\$\$38.9m
		Rs2	2838.3m
Current shares o/s:		1	,020.0m
Free float:			39.6%
*Source: Bloomberg			



		Gource. D	loomberg
Price performance	1M	ЗМ	12M
Absolute (%)	7.9	35.6	48.0
Relative (%)	4.8	14.1	27.4

Major shareholders	% held
Promoter and Promoter Group	60.4
ICICI Prudential Life Insurance	3.1
Kotak Tax Saver Scheme	2.6

# **Jindal Steel and Power**

# Deserves higher multiples; retain Add

- JSPL's resilient and flexible product portfolio (finished goods and raw materials like pellets and sponge iron) should help it withstand future price volatility.
- Coal block allocation is positive for the company, but higher plant load factor (PLF), which is key for its power business, is still elusive.
- We value JSPL on a sum-of-parts valuation to arrive at a TP of Rs476 from the earlier price target of Rs540.

### Resilient earnings in a challenging environment; retain Add rating

As the steel supply chain normalizes, we believe there will be a sharp correction in steel prices in near term. However, as argued in our sector report, raw material prices (iron ore, pellets and sponge iron) can remain high. JSPL is uniquely positioned for this kind of scenario, in our view, as it can cut long steel production (if prices collapse too much) and switch its production line to produce pellet and sponge iron. Resilient earnings in a volatile environment, undemanding valuations, deleveraging balance sheet and improving return ratios make it our preferred pick in the steel space. Retain Add but lower our TP to Rs476.

#### Flexible product mix will help maintain steel business profitability

JSPL has ~8.5mt of steel-making capacity. It can make 6.7mt of value-added steel and sell 1.8mt as simple mild steel. At the same time, JSPL has currently 9mt of pellets and 3.6mt of sponge iron-making capacity as at FY20. In periods when long steel spreads are likely to be under stress, JSPL can shift to selling pellets and sponge iron. Our analysis indicates that in periods of stress, pellet and sponge iron spreads are unlikely to collapse. While we expect some export duty on pellets to be imposed in the coming months, an export duty of more than 30% will likely pose a risk to our steel earnings estimates.

**Gare Palma IV/1 coal block allocation is a positive for power business** JSPL got the Gare Palma IV/1 coal block in 2020. It is an underground mine with a production capacity of 6mt p.a. and overall reserves of ~140mt (as at FY21). At Rs230 a tonne, the bid was 53.3% higher than the reserve price. Gare Palma IV/1 coal will be used in the Raigarh plant and in captive power plants near the mines, as per company. While the coal block is a positive for the company, we do not expect any quick revival. We expect minor easing of costs in the near term. The main driver of Jindal Power's RoE is the PLF, which should be around 50% in the coming quarters.

#### We value JSPL using sum of parts to arrive at the TP of Rs476

We value JSPL using an SOP valuation methodology. We value JPL (Jindal Power Limited) at 0.5x book value and the standalone steel business at 5.5x EV/ EBITDA (which is near - 1.5SD of the mean of the last 12 years). While we believe JSPL deserves a higher multiple, we are cognizant of the fact that higher multiples do not happen fast and, hence, our end FY21F fair value is Rs422, which we roll forward by one year to arrive at an end-FY22F TP of Rs476. Inability to ramp up production or fresh capex announcement can be a downside risk to our Add rating.

#### Analyst(s)



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**Shaily Ruparelia T (91)** 22 4161 1556

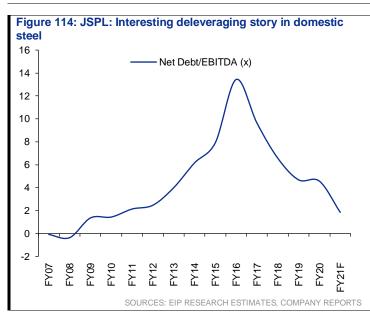
E shaily.ruparelia@incredcapital.com

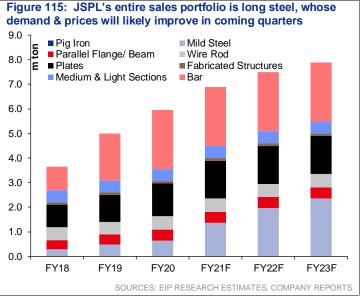
Financial Summary	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Revenue (Rsm)	3,93,721	3,69,175	3,99,381	4,17,155	4,35,929
Operating EBITDA (Rsm)	83,537	78,539	1,20,745	1,04,477	1,06,196
Net Profit (Rsm)	(16,453)	(1,092)	31,900	29,399	30,778
Core EPS (Rs)	(0.7)	0.0	13.2	12.2	12.7
Core EPS Growth	(79.7%)	(100.1%)	15,94,894.0%	(7.8%)	4.7%
FD Core P/E (x)	(41.11)	(619.44)	21.19	22.99	21.96
DPS (Rs)	0.0	0.0	0.0	0.0	0.0
Dividend Yield	0.00%	0.00%	0.00%	0.00%	0.00%
EV/EBITDA (x)	7.92	8.20	4.21	4.39	3.81
P/FCFE (x)	15.01	17.53	11.46	14.47	7.61
Net Gearing	124.0%	114.4%	64.7%	46.2%	29.5%
P/BV (x)	1.3	1.3	1.1	1.1	1.0
ROE	(0.5%)	0.0%	9.5%	8.0%	7.7%
% Change In Core EPS Estimates			(0.41%)	(0.61%)	(0.69%)
EIP Research/Consensus EPS (x)			3.44	3.01	2.60

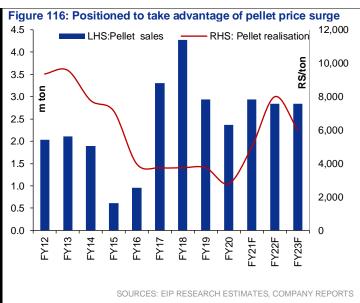
SOURCES: EIP RESEARCH ESTIMATES. COMPANY REPORTS. PRICED AS AT 25 JAN 2021

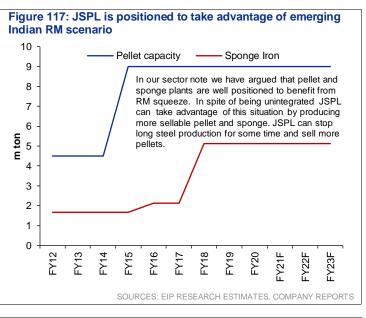


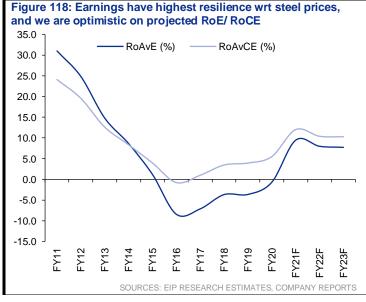


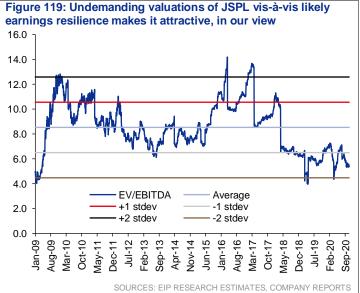
















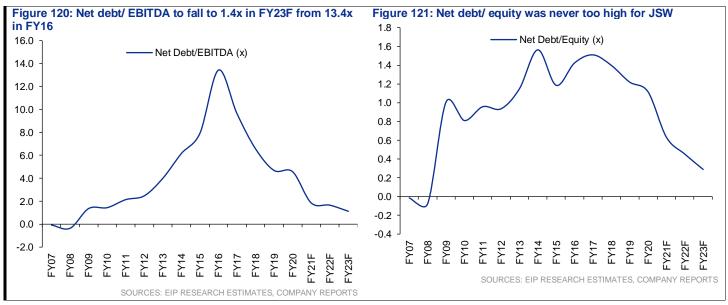
# Earnings resilient in challenging times

As the supply chain normalises, we expect steel prices to collapse. However, as we argued in our sector report, raw material prices of iron ore, pellets and sponge iron may likely remain high. JSPL is uniquely positioned for this kind of scenario as it can cut long steel production (if prices collapse too much) and switch its production line to produce pellets and sponge iron. Resilient earnings operating profit in an upcoming challenging environment, undemanding valuations, deleveraging balance sheet and improving return ratios make JSPL our preferred pick in the steel space. Hence, we lower our TP to Rs476 from Rs540 and retain our Add rating.

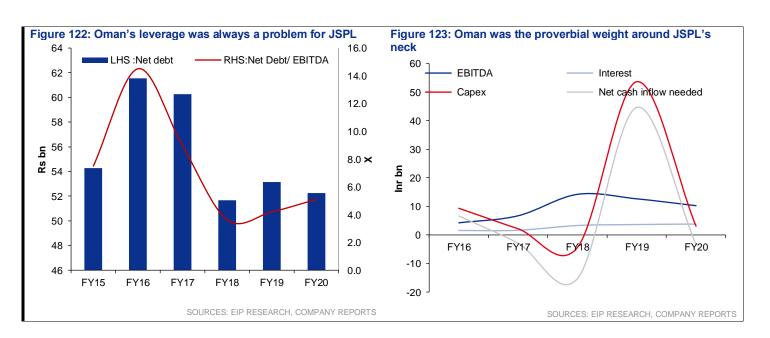
# **Balance sheet deleveraging**

We believe JSPL's deleveraging of its balance sheet is among the best witnessed in corporate India. Its net debt/EBITDA fell to 2.4x in FY21F from a precarious 13.4x in FY16. We believe leverage will improve further to 1.4x by FY23F.

# JSPL's leverage fell significantly in FY20; to improve further >



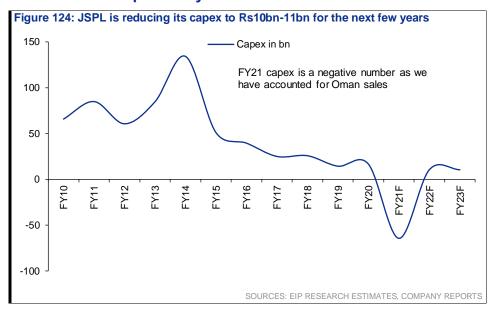
JSPL Oman plant sale was a welcome step to lower levearge >







## Future muted capex likely to aid further debt reduction >



# Flexibility to run its operations will likely help JSPL come out unscathed in a price fall

Currently JSPL has ~8.5mt of steel-making capacity. It can make 6.7mt of value-added steel and sell 1.8mt as simple mild steel. At the same time, JSPL has 9mt of pellet and 3.6mt of sponge iron-making capacity. In the periods long steel spreads are likely to remain under stress, JSPL can shift to selling pellet and sponge iron, in our view. Our analysis indicates that while long steel spreads could come under stress, pellet and sponge prices are not likely to collapse.

## JSPL has multiple product selling opportunities >

JSPL manufactures products across the value chain, many of which can be sold without further value addition. These products are 1) pellets, 2) sponge iron, 3) mild steel, and 4) value-added steel. It does not have a captive iron ore and coking coal, but has plants in Odisha and Chhattisgarh, where iron ore is easily available.

## Long steel margins likely to be under pressure; JSPL hedged ▶

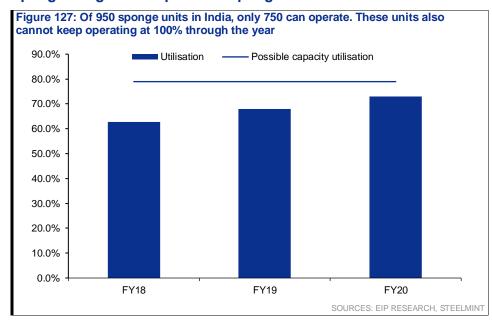
We say JSPL is hedged because it can shun the production of long steel and start selling pellets / sponge iron if it makes more money. As of now, sponge iron margins are better than steel-making margins.



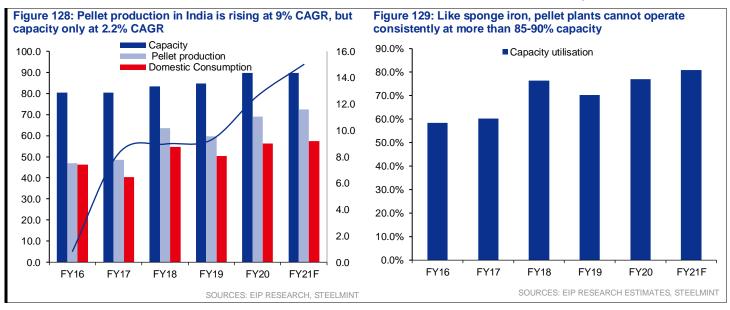




#### Sponge margins to improve as sponge makers near utilisation limits



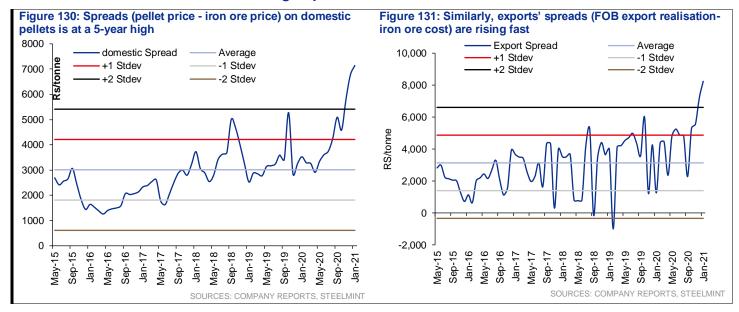
## Pellets are also in a sweet spot vis-à-vis capacity







# Pellet margins are jumping and unless exports are curbed margins will go up further



# As of now JSPL may make more selling/ exporting pellets than long steel

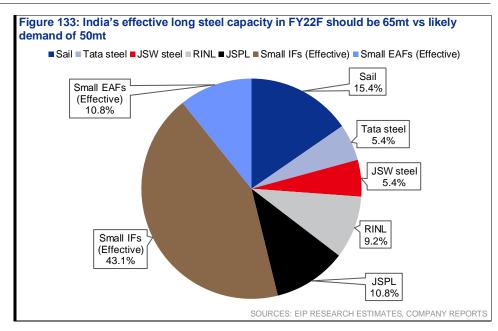
Figure 132: As of now JSPL is better off selling Cost of production of pellets (Rs/tonne)	pellets than mild	steel			
Power consumption	65	KwHr/tonne			
-Power cost	3	Rs/KwHr			
-Power cost per tonne of pellets	195	Rs/ tonne pellets			
-Fuel Consumption Norm	18	Kg/ tonne pellets			
-price of Fuel oil	27	Rs/ Kg			
- Fuel oil cost per tonne	486	Rs/ tonne pellets			
Coal Consumption Norm	10	Kg/ tonne pellets			
-Price of coal	3	Rs/ Kg			
- Fuel oil cost per tonne	30	Rs/ tonne pellets			
Bentonite					
-Consumption Norm	10	Kg/ tonne pellets			
-Price of Bentonite	2	Rs/ Kg			
-Bentonite cost per tonne	20	Rs/ tonne pellets			
Labour and Maintenance	200	Rs/ tonne pellets			
Miscellaneous	150	Rs/ tonne pellets			
Overall process costing	1,081	Rs/ tonne pellets			
- Fines Consumption norm	1.03	Tonne/ tonne of pellets			
-Price of iron ore	5,000	Rs/tonne			
-Freight to plants	20	Rs/tonne			
-Wastage	2	%			
-Cost per tonne landed	5,276	Rs/tonne			
Overall costing	6,357	Rs/ tonne pellets			
Selling price of pellets	11,800	Rs/ tonne pellets			
EBITDA for pellet plant	5,443	Rs/ tonne pellets			
Pellet required per tonne of steel	1.80 T	onne/tonne of finished steel			
Margins made by JSPL if they sell pellet in lieu of steel	9,797 Tonne/tonne of finished stee				
	SOURCES: EIP RES	SEARCH, COMPANY REPORTS			

# Long steel may face margin pressures for 9-12 months, but is better placed for the long term ▶

India's effective long steel capacity in FY22F should be 65mt against the likely demand of 50mt. With no new capacity coming up we can expect India's long steel industry to run at 85% utilisation in FY23F. Hence, a margin squeeze, if any, will be felt only in the next 9-12 months. Post that, we believe the situation should be good for long steel manufacturers in India.







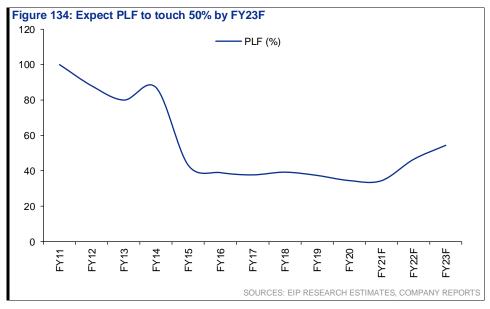
# Coal block is positive for JSPL, but don't expect a quick revival in power business

JSPL won the Gare Palma IV/1 coal block in a recent auction. The coal block is a shot in the arm for JSPL as it will lower fuel costs for the company. However, we don't expect a dramatic improvement in power demand and, hence, PLF may not rise.

# JSPL finally got the coal block >

JSPL finally got the Gare Palma IV/1 coal block in 2020 – an underground mine with a 6mt p.a. production capacity and ~140mt in overall reserves. At Rs230 a tonne the bid was 53.3% higher than the reserve price. Gare Palma IV/1 coal will be used in the Raigarh plant and in captive power plants near the mines (more on the mine in this link).

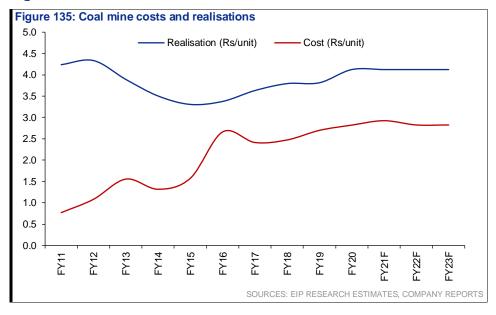
# We are not very bullish on power demand, hence don't expect significant ramp-up in PLF ▶







# Coal block ramp-up may take time, hence don't expect signifiant cost reduction in near term ▶







# **Earnings and valuations**

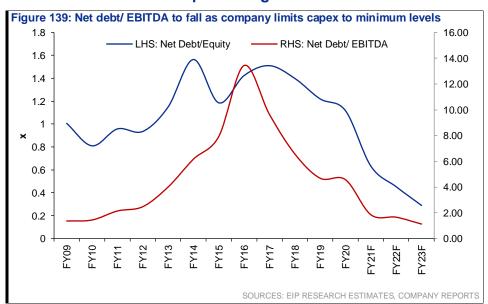
We expect EBITDA CAGR of 6% over FY21F-23F. Steel prices are near their peak and we expect them to fall as soon as China opens up after the Chinese New Year. With valuations and earnings at peak levels, there is a likely price fall in the next few quarters, in our view.

Figure 136: Our realisations and cost assumptions										
JSPL Standalone (Rs/t)	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21F	FY22F	FY23F
Sales Realisation	51,280	49,758	41,360	42,084	46,410	53,865	43,157	51,175	47,659	46,498
Net Realisation	49,044	47,621	38,776	41,568	45,386	54,133	43,281	51,018	47,502	46,341
Raw Material Consumed	16,341	16,559	16,224	15,485	18,927	25,444	19,093	19,159	19,702	19,197
Cost of Goods Consumed	17,711	16,013	17,130	16,483	18,184	25,230	18,766	19,159	19,702	19,197
Employee Cost	1,934	2,313	1,691	1,596	1,397	1,210	1,120	1,154	1,165	1,177
Other Expenditure	18,714	18,579	15,779	16,584	16,806	16,229	14,019	14,969	14,996	15,059
Total Costs	35,813	34,383	31,321	32,858	34,819	42,381	33,747	35,125	35,705	35,276
EBITDA	13,232	13,237	7,455	8,710	10,567	11,752	9,534	15,893	11,797	11,065
				SOUF	RCES: EIF	P RESEA	RCH ESTI	MATES, CO	OMPANY F	REPORTS

Figure 137: We are now buil adjust its product profile to	_		ellet sale	es but, a	s explair	ed, JSP	L can
Sales (mt)	FY17	FY18	FY19	FY20	FY21F	FY22F	FY23F
Mild Steel	0.16	0.29	0.48	0.65	1.36	1.96	2.36
Parallel Flange/ Beam	0.27	0.38	0.41	0.45	0.45	0.45	0.45
Wire Rod	0.49	0.51	0.51	0.54	0.54	0.54	0.54
Plates	0.79	0.92	1.10	1.32	1.54	1.54	1.54
Fabricated Structures	0.08	0.10	0.10	0.11	0.11	0.11	0.11
Medium & Light Sections	0.39	0.48	0.48	0.48	0.48	0.48	0.48
Bar	0.84	0.96	1.92	2.40	2.40	2.40	2.40
Other Finished Steel Products	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Pellet sales	3.30	4.27	2.94	2.37	2.94	2.84	2.84
		SOU	RCES: EIP F	RESEARCH	ESTIMATES,	COMPANY	REPORTS

Figure 138: Dramatic improvement in power business performance unlikely in the near term								ne near
Key Assumptions	FY16	FY17	FY18	FY19	FY20	FY21F	FY22F	FY23F
Capacity (MW)	2,800	2,800	3,400	3,400	3,400	3,400	3,400	3,400
Units Generated (m units)	8,887	8,612	10,905	10,396	9,583	9,555	12,923	15,120
PLF (%)	39	38	39	37	35	34	46	54
Power Sold (MW)	1,092	1,057	1,335	1,273	1,173	1,170	1,580	1,850
Revenue (Rs m)	30,008	31,274	41,379	39,657	39,515	39,401	53,286	62,345
EBITDA (Rs m)	6,351	10,486	14,399	11,600	12,476	11,454	16,783	19,636
Realisation (Rs/unit)	3.4	3.6	3.8	3.8	4.1	4.1	4.1	4.1
Cost (Rs/unit)	2.7	2.4	2.5	2.7	2.8	2.9	2.8	2.8
EBITDA (Rs/unit)	0.7	1.2	1.3	1.1	1.3	1.2	1.3	1.3
			SOURCES	S: EIP RESI	EARCH ES	TIMATES, (	COMPANY	REPORTS

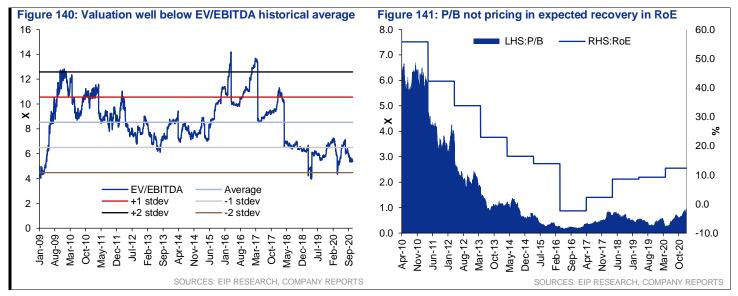
# Net debt / EBITDA to keep trending down ▶







#### Valuations are well below historical mean >



## We retain our Add rating but lower our TP to Rs476 >

Rs m	89,655
Х	5.5
Rs m	4,93,103
Rs m	95,482
Х	0.5
Rs m	47,741
Rs m	64,289
Rs m	1,12,030
Rs m	6,05,133
Rs m	1,73,200
Rs m	4,31,933
Rs m	-1,961
Rs/share	476
Rs/share	476
SOURCES: EIP RESEARCH ESTIMATES, COMP	AND DEBORES
	Rs m  Rs m  X  Rs m  Rs m

#### Potential Risk >

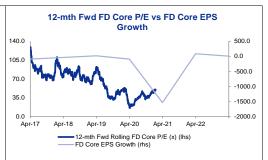
- Inability to ramp up production or fresh capex announcement can be a downside risk to our rating.
- New capex start will stop deleveraging of balance sheet hence a downside to our rating.





# BY THE NUMBERS





Profit & Loss					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Total Net Revenues	3,93,721	3,69,175	3,99,381	4,17,155	4,35,929
Gross Profit	3,93,721	3,69,175	3,99,381	4,17,155	4,35,929
Operating EBITDA	83,537	78,539	1,20,745	1,04,477	1,06,196
Depreciation And Amortisation	(54,804)	(38,672)	(38,156)	(37,045)	(37,482)
Operating EBIT	28,733	39,866	82,588	67,433	68,714
Financial Income/(Expense)	(43,682)	(41,493)	(34,016)	(26,395)	(25,309)
Pretax Income/(Loss) from Assoc.					
Non-Operating Income/(Expense)	1,716	262	743	1,516	1,962
Profit Before Tax (pre-EI)	(13,233)	(1,365)	49,315	42,554	45,368
Exceptional Items	(14,784)	(1,094)			
Pre-tax Profit	(28,017)	(2,459)	49,315	42,554	45,368
Taxation	3,902	(1,539)	(17,415)	(13,155)	(14,589)
Exceptional Income - post-tax					
Profit After Tax	(24,115)	(3,997)	31,900	29,399	30,778
Minority Interests	7,662	2,905			
Preferred Dividends					
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	(16,453)	(1,092)	31,900	29,399	30,778
Recurring Net Profit	(1,669)	2	31,900	29,399	30,778
Fully Diluted Recurring Net Profit	(1,669)	2	31,900	29,399	30,778

Cash Flow					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
EBITDA	83,537	78,539	1,20,745	1,04,477	1,06,196
Cash Flow from Invt. & Assoc.					
Change In Working Capital	4,654	15,127	1,292	(5,382)	(4,219)
(Incr)/Decr in Total Provisions					
Other Non-Cash (Income)/Expense	15,890	2,396	(479)	(232)	7
Other Operating Cashflow	29,126	40,731	(70)	1,601	(1,908)
Net Interest (Paid)/Received	(42,642)	(41,493)	(34,016)	(26,395)	(25,309)
Tax Paid	(296)	(35)	17,415	13,155	14,589
Cashflow From Operations	90,269	95,264	1,04,885	87,224	89,357
Capex	(11,897)	(16,307)	64,408	(10,500)	(10,500)
Disposals Of FAs/subsidiaries					
Acq. Of Subsidiaries/investments					
Other Investing Cashflow	3,576	308			
Cash Flow From Investing	(8,321)	(15,999)	64,408	(10,500)	(10,500)
Debt Raised/(repaid)	(36,897)	(40,676)	(1,10,296)	(30,000)	10,000
Proceeds From Issue Of Shares		5,129			
Shares Repurchased					
Dividends Paid					
Preferred Dividends					
Other Financing Cashflow	(45,717)	(40,072)	(34,016)	(26,395)	(25,309)
Cash Flow From Financing	(82,614)	(75,620)	(1,44,312)	(56,395)	(15,309)
Total Cash Generated	(666)	3,646	24,981	20,329	63,549
Free Cashflow To Equity	45,051	38,589	58,997	46,724	88,857
Free Cashflow To Firm	1,24,590	1,20,759	2,03,309	1,03,119	1,04,166

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS



## Steel | India Jindal Steel and Power | January 26, 2021

# BY THE NUMBERS...cont'd

Balance Sheet					
(Rs mn)	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Total Cash And Equivalents	4,266	9,438	34,418	54,748	1,18,297
Total Debtors	30,285	35,493	38,955	46,167	51,137
Inventories	65,095	63,687	77,894	78,472	79,916
Total Other Current Assets	43,454	51,291	1,23,264	1,31,590	1,37,024
Total Current Assets	1,43,101	1,59,909	2,74,531	3,10,978	3,86,373
Fixed Assets	7,24,504	7,18,973	6,16,409	5,89,864	5,62,882
Total Investments	1,452	1,430	1,430	1,430	1,430
Intangible Assets	6,164	6,098	6,098	6,098	6,098
Total Other Non-Current Assets	14,788	11,009	11,632	11,952	12,007
Total Non-current Assets	7,46,908	7,37,511	6,35,570	6,09,344	5,82,418
Short-term Debt	48,259	27,789	27,789	27,789	27,789
Current Portion of Long-Term Debt					
Total Creditors	52,043	55,671	72,563	74,321	76,738
Other Current Liabilities	65,640	87,482	1,61,523	1,70,500	1,75,712
Total Current Liabilities	1,65,942	1,70,942	2,61,875	2,72,610	2,80,238
Total Long-term Debt	3,47,331	3,40,455	2,30,159	2,00,159	2,10,159
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities	4,360	13,224	13,224	13,224	13,224
Total Non-current Liabilities	3,51,692	3,53,679	2,43,383	2,13,383	2,23,383
Total Provisions	56,790	59,192	59,336	59,423	59,486
Total Liabilities	5,74,423	5,83,813	5,64,594	5,45,416	5,63,107
Shareholders Equity	3,20,847	3,21,371	3,53,271	3,82,670	4,13,449
Minority Interests	(5,261)	(7,764)	(7,764)	(7,764)	(7,764)
Total Equity	3,15,586	3,13,607	3,45,507	3,74,906	4,05,684

Key Ratios					
	Mar-19A	Mar-20A	Mar-21F	Mar-22F	Mar-23F
Revenue Growth	43.8%	(6.2%)	8.2%	4.5%	4.5%
Operating EBITDA Growth	29.1%	(6.0%)	53.7%	(13.5%)	1.6%
Operating EBITDA Margin	21.2%	21.3%	30.2%	25.0%	24.4%
Net Cash Per Share (Rs)	(161.70)	(148.43)	(92.47)	(71.65)	(49.50)
BVPS (Rs)	132.58	132.95	146.15	158.31	171.04
Gross Interest Cover	0.66	0.96	2.43	2.55	2.72
Effective Tax Rate			35.3%	30.9%	32.2%
Net Dividend Payout Ratio					
Accounts Receivables Days	22.50	32.52	34.02	37.24	40.74
Inventory Days	nm	nm	nm	nm	nm
Accounts Payables Days	nm	nm	nm	nm	nm
ROIC (%)	3.7%	5.4%	12.9%	10.9%	11.5%
ROCE (%)	3.7%	5.3%	11.8%	10.2%	10.1%
Return On Average Assets	3.9%	4.3%	7.3%	6.1%	5.9%

SOURCES: EIP RESEARCH ESTIMATES, COMPANY REPORTS





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Commodities | India

Metals and Mining | January 26, 2021

# Corporate Governance Report of Thai Listed Companies (CGR). CG Rating by the Thai Institute of Directors Association (Thai IOD) in 2019, Anti-Corruption 2019

ADVANC - Excellent, Certified, AEONTS - Good, n/a, AH - Very Good, n/a, AMATA - Excellent, Declared, ANAN - Excellent, Declared, AOT -Excellent, n/a, AP - Excellent, Certified, ASP - Very Good, Certified, BAM - not available, n/a, BANPU - Excellent, Certified, BAY - Excellent, Certified, BBL - Very Good, Certified, BCH - Good, Certified, BCP - Excellent, Certified, BCPG - Excellent, Certified, BDMS - Very Good, n/a, BEAUTY - Good, n/a, BEC - Very Good, n/a, BGRIM - Very Good, Declared, BH - Good, n/a, BJC - Very Good, n/a, BJCHI - Very Good, Certified, BLA - Very Good, Certified, BPP - Very Good, Declared, BR - Good, n/a, BTS - Excellent, Certified, CBG - Very Good, n/a, CCET - Good, n/a, CENTEL - Very Good, Certified, CHAYO - Good, n/a, CHG - Very Good, Declared, CK - Excellent, n/a, COL - Excellent, Declared, CPALL -Excellent, Certified, CPF - Excellent, Certified, CPN - Excellent, Certified, CPNREIT - not available, n/a, CRC - not available, n/a, DELTA - Excellent, Declared, DEMCO - Excellent, Certified, DDD - Very Good, n/a, DIF - not available, n/a, DREIT - not available, n/a, DTAC - Excellent, Certified, EA - Excellent, n/a, ECL - Very Good, Certified, EGCO - Excellent, Certified, EPG - Very Good, n/a, ERW - Very Good, n/a, GFPT - Excellent, Certified, GGC - Excellent, Certified, GLOBAL - Very Good, n/a, GLOW - Very Good, Certified, GPSC - Excellent, Certified, GULF - Very Good, n/a, GUNKUL - Excellent, Certified, HANA - Excellent, Certified, HMPRO - Excellent, Certified, HUMAN - Good, n/a, ICHI - Excellent, Declared, III - Excellent, n/a, INTUCH - Excellent, Certified, IRPC - Excellent, Certified, ITD - Very Good, n/a, IVL - Excellent, Certified, JASIF - not available, n/a, BJC - Very Good, n/a, JMT - Very Good, n/a, KBANK - Excellent, Certified, KCE - Excellent, Certified, KKP - Excellent, Certified, KSL - Excellent, Certified, KTB - Excellent, Certified, KTC - Excellent, Certified, LH - Excellent, n/a, LPN - Excellent, Certified, M - Very Good, Certified, MACO - Very Good, n/a, MAJOR - Very Good, n/a, MAKRO - Excellent, Certified, MALEE - Excellent, Certified, MC - Excellent, Certified, MCOT - Excellent, Certified, MEGA - Very Good, n/a, MINT - Excellent, Certified, MK - Very Good, n/a, MTC - Excellent, n/a, NETBAY - Very Good, n/a, OSP - Very Good, n/a, PLANB - Excellent, Certified, PLAT - Very Good, Certified, PR9 - Excellent, n/a, PSH - Excellent, Certified, PSTC - Very Good, Certified, PTT -Excellent, Certified, PTTEP - Excellent, Certified, PTTGC - Excellent, Certified, QH - Excellent, Certified, RATCH - Excellent, Certified, ROBINS -Excellent, Certified, RS - Excellent, n/a, RSP - not available, n/a, S - Excellent, n/a, SAPPE - Very Good, Declared, SAT - Excellent, Certified, SAWAD - Very Good, n/a, SC - Excellent, Certified, SCB - Excellent, Certified, SCC - Excellent, Certified, SCN - Excellent, Certified, SF - Good, n/a, SHR - not available, n/a, SIRI - Very Good, Certified, SPA - Good, n/a, SPALI - Excellent, n/a, SPRC - Excellent, Certified, STA - Very Good, Certified, STEC - Excellent, n/a, SVI - Excellent, Certified, SYNEX - Excellent, Certified, TASCO - Excellent, Certified, TCAP - Excellent, Certified, THANI – Excellent, Certified, TIPCO – Very Good, Certified, TISCO - Excellent, Certified, TKN – Very Good, n/a, TMB - Excellent, Certified, TNR – Very Good, Certified, TOP - Excellent, Certified, TPCH - Good, n/a, TPIPP - Good, n/a, TRUE - Excellent, Certified, TU - Excellent, Certified, TVO -Excellent, Declared, UNIQ - not available, n/a, VGI - Excellent, Certified, WHA - Excellent, Certified, WHART - not available, n/a, WICE - Excellent, Certified, WORK - Good, n/a.

- 1 CG Score 2019 from Thai Institute of Directors Association (IOD)
- 2 AGM Level 2018 from Thai Investors Association
- 3 Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of November 30, 2018) are categorised into:

companies that have declared their intention to join CAC, and companies certified by CAC.

4 The Stock Exchange of Thailand: the record of listed companies with corporate sustainable development "Thai sustainability Investment 2018" included:

SET and mai listed companies passed the assessment conducted by the Stock Exchange of Thailand: THSI (SET) and THSI (mai)

SET listed companies passed the assessment conducted by the Dow Jones Sustainability Indices (DJSI)

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Stock Ratings Definition:

Add The stock's total return is expected to exceed 10% over the next 12 months.

Hold The stock's total return is expected to be between 0% and positive 10% over the next 12 months.

Reduce The stock's total return is expected to fall below 0% or more over the next 12 months.

The total expected return of a stock is defined as the sum of the: (i) percentage difference between the target price and the current price and (ii) the forward net dividend yields of the stock. Stock price targets have an investment horizon of 12 months.

Sector Ratings Definition:

Overweight An Overweight rating means stocks in the sector have, on a market cap-weighted basis, a positive absolute recommendation.

Neutral A Neutral rating means stocks in the sector have, on a market cap-weighted basis, a neutral absolute recommendation.

Underweight An Underweight rating means stocks in the sector have, on a market cap-weighted basis, a negative absolute recommendation.

Country Ratings Definition:

Overweight An Overweight rating means investors should be positioned with an above-market weight in this country relative to benchmark.

Neutral A Neutral rating means investors should be positioned with a neutral weight in this country relative to benchmark.

Underweight An Underweight rating means investors should be positioned with a below-market weight in this country relative to benchmark.