



Indian companies valuation

	Price (INR)		V/ DA (x)	P/B (x)			
	(IIVIX)	FY23	FY24E	FY23	FY24E		
Steel							
Tata	127	6.9	9.9	1.6	1.6		
JSW	791	13.5	8.4	2.9	2.6		
JSP	692	7.7	6.7	1.8	1.6		
SAIL	89	8.3	6.7	0.7	0.6		
Non-ferro	us						
Vedanta	230	4.7	6.4	2.2	2.7		
Hindalco	483	6.4	6.0	1.6	1.4		
Nalco	100	6.6	6.4	1.4	1.3		
Mining							
Coal	312	3.7	4.8	3.4	2.8		
HZL	322	7.8	9.2	10.5	8.0		
NMDC	165	6.9	6.1	2.1	1.9		

Global companies valuation

	M.Cap-	EV/EBI	TDA (x)	P/B (x)		
Company	USD b	CY22/ FY23	CY23/ FY24	CY22/ FY23		
Steel						
AM	19	3.3	3.4	0.3		
SSAB	6	2.3	3.4	0.9		
Nucor	37	5.3	7.3	1.7		
POSCO	31	6.5	5.7	0.7		
JFE	9	6.9	6.0	0.6		
Aluminum						
Norsk Hydro	11	5.4	4.9	1.1		
Alcoa	5	12.9	4.6	1.1		
Zinc						
Teck	20	5.1	4.4	1.0		
Korea Zinc	7	9.7	8.3	1.0		
Iron ore						
Vale	58	4.0	4.0	1.3		
FMG	42	4.4	5.1	2.2		
Diversified						
ВНР	145	5.7	5.7	3.3		
Rio	104	4.7	4.5	1.8		

Global macro scenario and upcoming festive season keep metal prices in check

Ferrous price loses steam after almost 13-14 weeks due to lower offtake

- Though Tier-I companies have increased their list prices in the first week of Oct'23, vendor-level HRC price fell INR600/t WoW to INR58,400/t. and rebar price witnessed a slight reduction of INR100/t WoW to INR58,000/t.
- The premium commanded by flats over long narrowed further and stood at one of the lowest levels since Jun'23.
- Though the demand from vendors and traders remained relatively muted due to adequate inventory built up and global macroeconomic uncertainties; the recent price correction has been minimal thus providing support to the domestic ferrous price.
- Our channel checks confirm that vendor-level prices have remained slightly muted and are expected to remain range-bound in the near term.
- ➤ Prices in the international markets too have remained sluggish, with domestic Chinese HRC price reducing 1% WoW to USD520-535/t.
- Low volumes in export markets, subdued domestic demand, muted consumer sentiments, high inventory built up and low BF capacity utilization have kept prices under check in the Chinese market as customers are currently adopting a 'wait and watch' policy.

Domestic market continues to remain immune

- India has been a net importer of steel since Jul'23 and mills have been exporting lower volumes since domestic prices are currently trading at a premium to international prices.
- The latest conflict in the Middle East has further hampered the improving export opportunities, which were witnessed at the beginning of the month.
- Though domestic prices are currently trading at a premium to international prices, higher demand from automobiles, infrastructure, construction, and consumer durables prior to multiple national holidays is expected to keep the overall demand and prices buoyed.
- Tier I mills are also preferring to offload their production in the domestic market, which is currently trading at a premium to overseas export markets.

Higher coal costs continue to cast dark shadows

- Australian premium HCC has increased ~USD35/t WoW to ~USD384/t (CNF Paradip, India). The increase in prices is due to scarcity of cargo, limited coal availability post-suspension of mines in Australia, and lower availability of Russian coal due to supply chain constraints.
- ➤ We believe, at current price levels, ferrous companies would find it unfeasible to protect their margins. The companies would rather rely on their existing inventories to meet their production demand.





Commodities and forex tracker

	UoM	Spot	WoW (%)	MoM (%)
India HRC (ex-Mum)	INR/t	58,400	-1	1
India TMT Prime (ex-Mum)	INR/t	58,000	0	2
India TMT Secondary (ex-Mum)	INR/t	51,000	-1	-1
Korea HRC - FoB	USD/t	600	0	0
China HRC Dom.	USD/t	520	-1	-4
China HRC - FoB	USD/t	530	-4	-5
India Prem HCC CNF	USD/t	384	10	17
India 64 Mid Vols CNF	USD/t	294	7	11
India Low Vols PCI CNF	USD/t	224	3	20
Iron Ore Fines (Odisha Index) Fe 62%	INR/t	5,000	-2	9
Iron Ore Fines (China - CNF) Fe 62%	USD/t	118	-1	-4
Europe Scrap HMS 1&2(80:20)	USD/t	395	-1	-5
C-DRI (ex-Raipur)	INR/t	30,200	-4	-7
RB1 (6000 NAR) SA FOB	USD/t	147	9	11
RB2 (5500 NAR), SA FoB	USD/t	127	3	9
Indonesia (4200 GAR) Futures	USD/t	65	4	9
Copper	USD/t	7,891	-2	-6
Aluminum	USD/t	2,176	-1	1
Zinc	USD/t	2,424	-2	-4
Lead	USD/t	2,067	-5	-9
Nickel	USD/t	18,284	-2	-7
Alumina	USD/t	338	0	-1
Ali UBC Scrap	USD/t	1,543	0	1
Ali UBC Scrap Spread	USD/t	633	-3	0
INR:USD	х	83.3	0	0
USD:EUR	"	1.05	0	-1
USD:GBP	"	1.22	-1	-2
CNY:USD	"	7.31	0	0
JPY:USD	п	149	1	1





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 $Source: Steel Mint, JPC, Bloomberg, Company, investing.com\ and\ MOFSL\ estimates$





FERROUS: India – prices

Exhibit 1: HRC - Mumbai (INR/t)

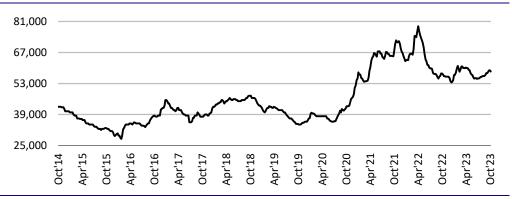


Exhibit 2: TMT Primary – Mumbai (INR/t)

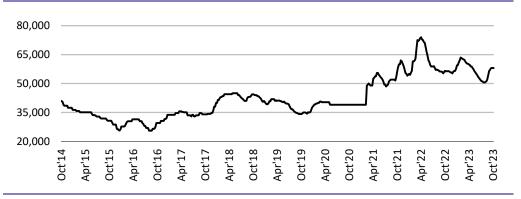
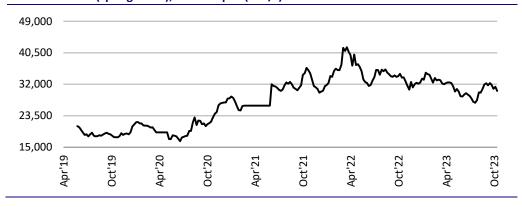


Exhibit 3: C-DRI (sponge iron), ExW-Raipur (INR/t)









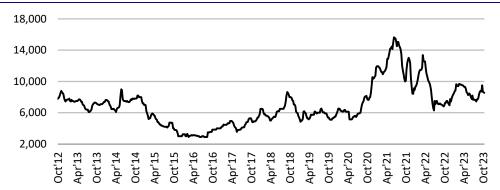


Exhibit 5: Iron Ore Fines Odisha - Fe 62% (INR/t)

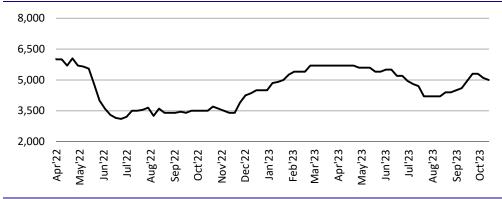
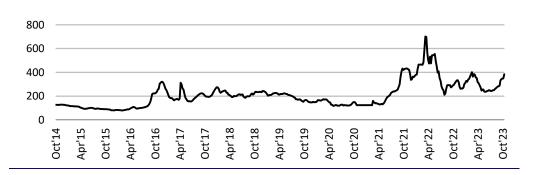


Exhibit 6: NMDC Fines - Fe 64% (INR/t)



Exhibit 7: Premium HCC CNF Paradip (USD/t)







Domestic spreads

Exhibit 8: Prime HRC v/s primary TMT (INR/t)

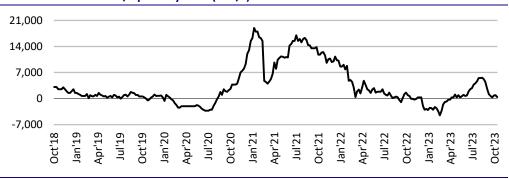


Exhibit 9: Primary TMT v/s secondary TMT (INR/t)

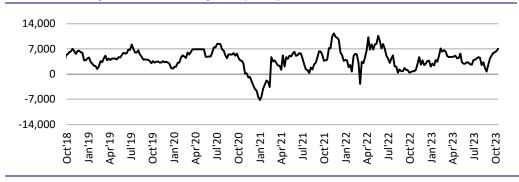


Exhibit 10: Secondary TMT v/s domestic scrap (INR/t)

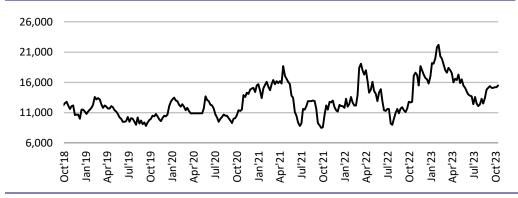


Exhibit 11: HRC v/s CRC (INR/t)

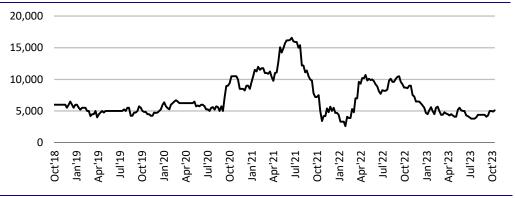






Exhibit 12: HRC – galvanized (INR/t)

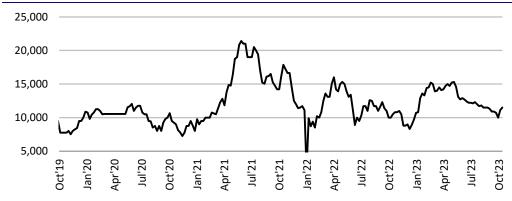


Exhibit 13: HRC - color coated (INR/t)



Exhibit 14: DRI v/s NMDC lumps (INR/t)

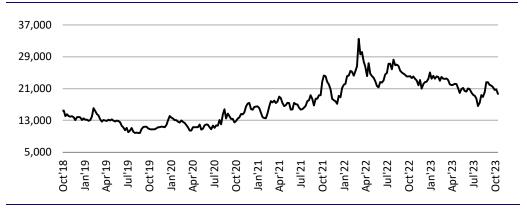






Exhibit 15: Secondary TMT v/s DRI (INR/t)

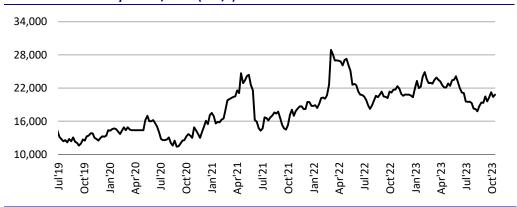
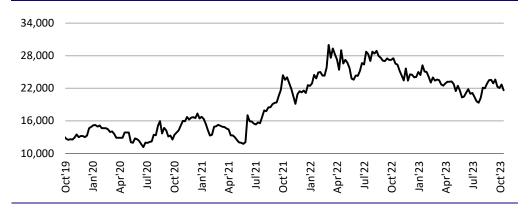


Exhibit 16: DRI v/s pellet (INR/t)







China prices/spreads

Exhibit 17: China HRC FoB (USD/t)

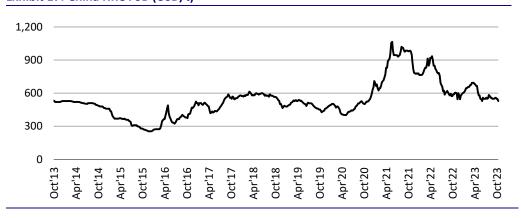


Exhibit 18: China HRC domestic (USD/t)



Exhibit 19: China domestic TMT (USD/t)



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Exhibit 20: China domestic wire rod (USD/t)

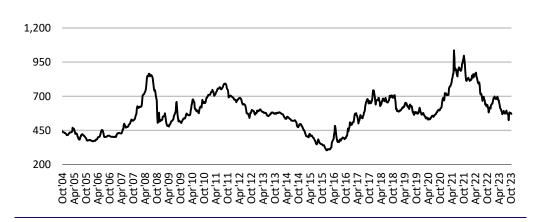
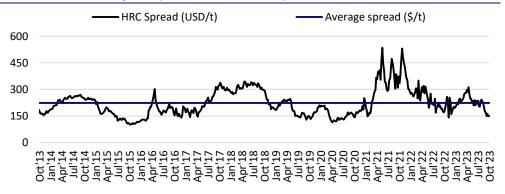


Exhibit 21: China HRC spread (1.6x IO and 0.85x HCC)







Global prices

Exhibit 22: Northern Europe HRC domestic (USD/t)

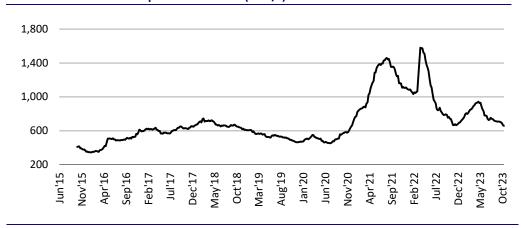


Exhibit 23: North America HRC domestic (USD/short ton)

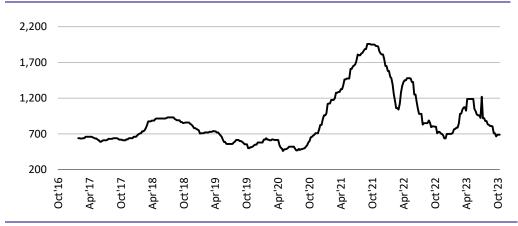
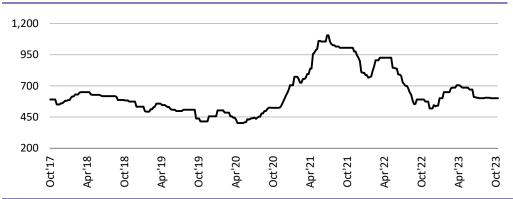


Exhibit 24: Korea HRC FOB (USD/t)







Inventories

Exhibit 25: India steel inventory (mt)

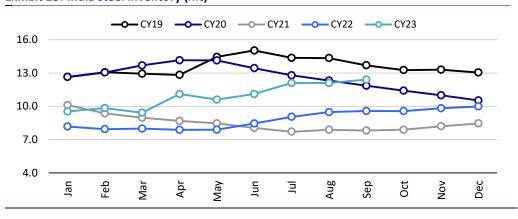


Exhibit 26: China wire rod and TMT inventory (mt)

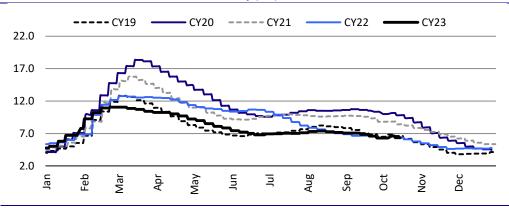
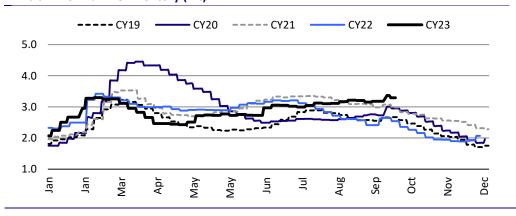


Exhibit 27: China HRC inventory (mt)







NON-FERROUS: Aluminum

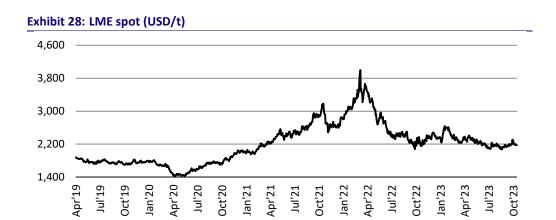


Exhibit 29: Alumina FoB Australia (USD/t)

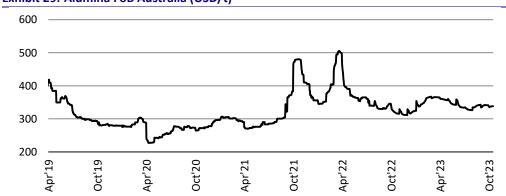


Exhibit 30: Caustic soda (USD/t)

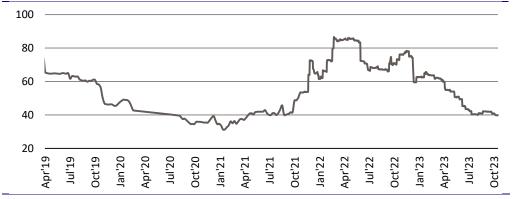






Exhibit 31: Total inventory (LME + SHFE, mt)

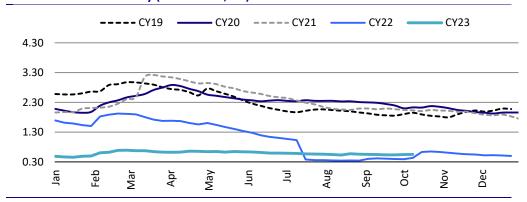
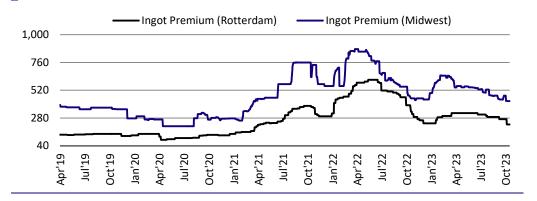


Exhibit 32: Ingot premiums (mt)







Copper

Exhibit 33: LME spot (USD/t)

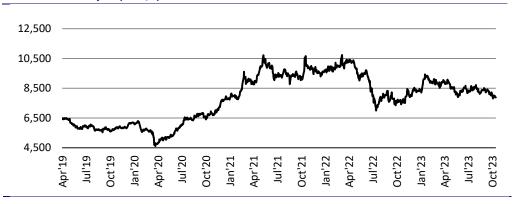
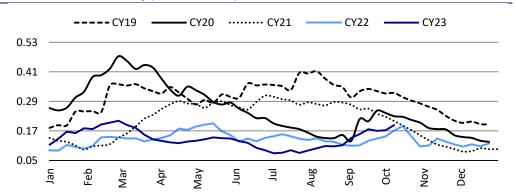


Exhibit 34: Total inventory (LME+SHFE, mt)







Zinc

Exhibit 35: LME spot (USD/t)

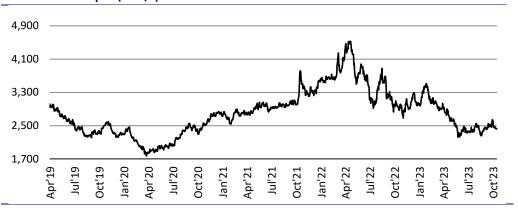
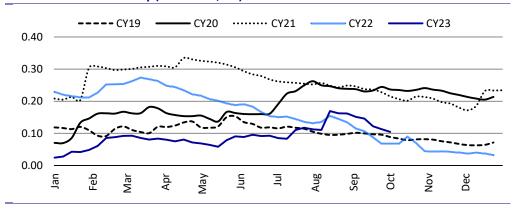


Exhibit 36: Total inventory (LME+SHFE, mt)







Lead

Exhibit 37: LME spot (USD/t)

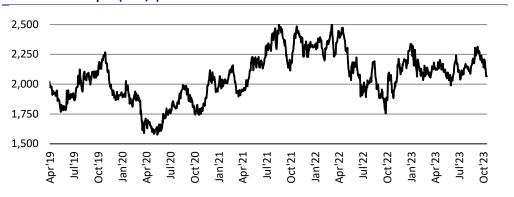
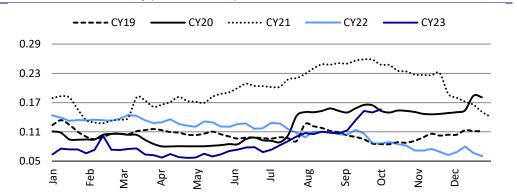


Exhibit 38: Total inventory (LME+SHFE, mt)







Nickel

Exhibit 39: Nickel spot (USD/t)

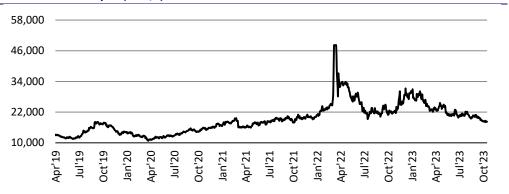
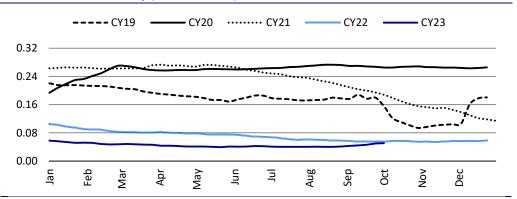


Exhibit 40: Total inventory (LME+SHFE, mt)







India steel production, consumption, EXIM, and inventory

Exhibit 41: Crude steel production (mt)

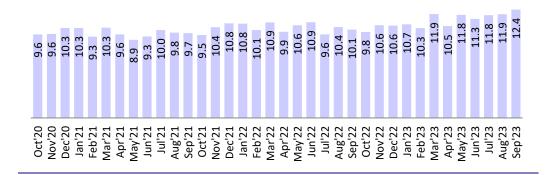


Exhibit 42: Finished steel production (mt)

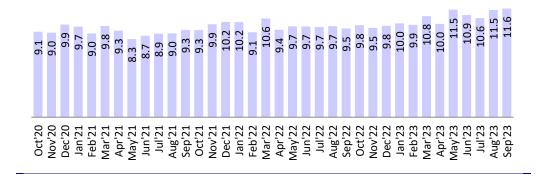


Exhibit 43: Imports including semis (kt)

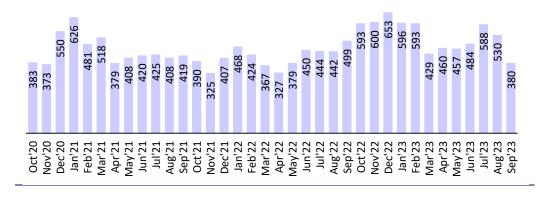




Exhibit 44: Exports including semis (kt)

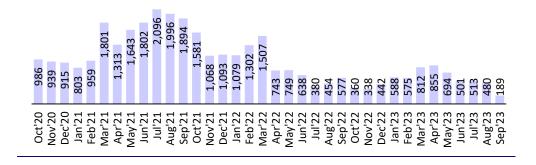


Exhibit 45: Net imports/(exports) of finished steel (kt)

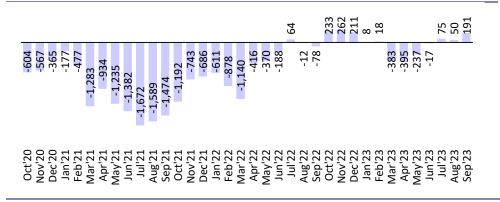
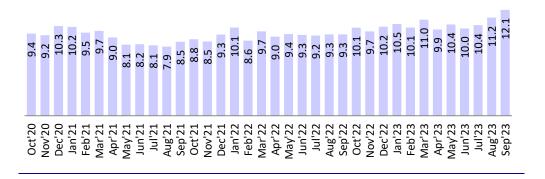


Exhibit 46: Steel consumption (mt)







Global production trends

Exhibit 47: World crude steel production and China's share

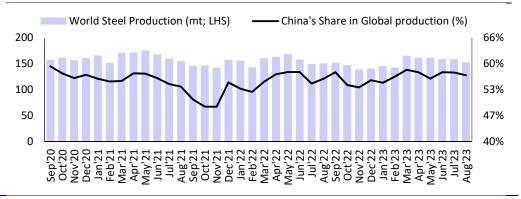


Exhibit 48: Crude steel production in China (mt)

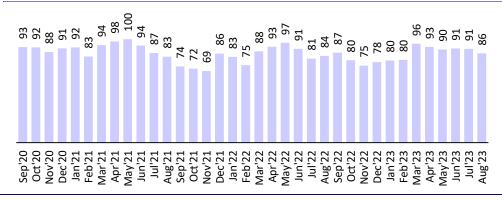


Exhibit 49: Crude steel production in Japan (mt)

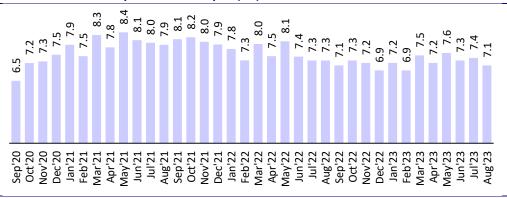
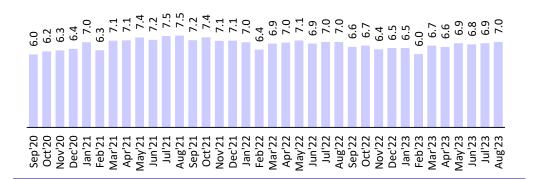


Exhibit 50: Crude steel production in the US (mt)







China steel and macro

Exhibit 51: China's gross steel exports (mt)

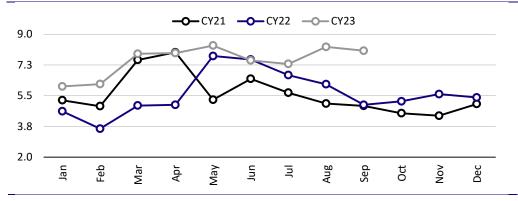


Exhibit 52: China's gross steel imports (mt)

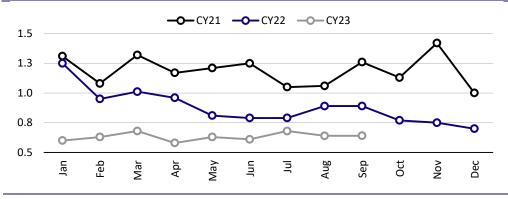


Exhibit 53: China's net steel exports/(imports) (mt)

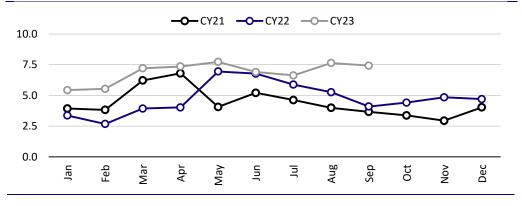


Exhibit 54: China's GDP growth YoY (constant prices)

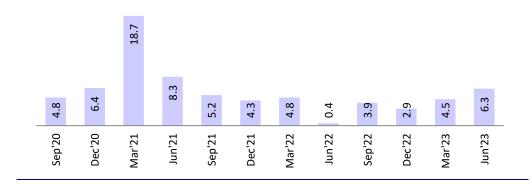


Exhibit 55: Automobile registration (m units)



Exhibit 56: Floor space sold (m square meters)

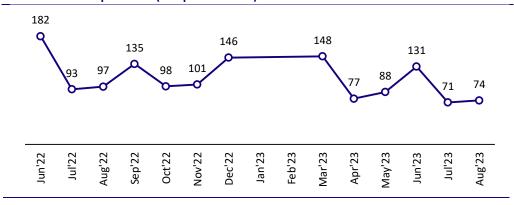


Exhibit 57: Floor space starts (m square meters)

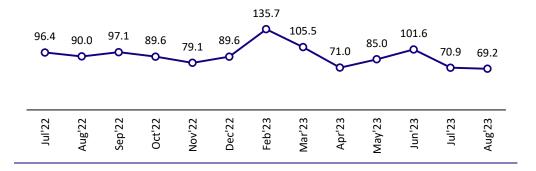






Exhibit 58: Manufacturing PMI

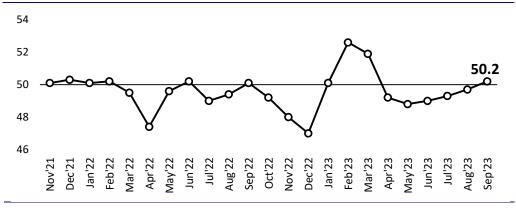
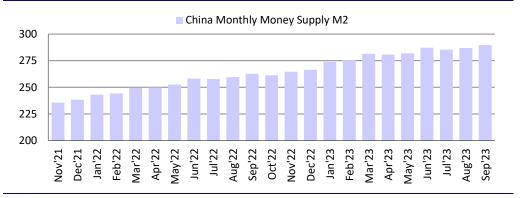


Exhibit 59: M2 money supply (CNY t)







Commodity monthly heat map

Commodity	UoM	Nov'22	Dec'22	Jan'23	Feb'23	Mar'23	Apr'23	May'23	Jun'23	Jul'23	Aug'23	Sep'23	Oct'23	MoM
Oil and non-ferrous - prices														
Brent Crude	USD/bbl	91	81	83	83	79	84	76	75	80	86	94	91	-3
Copper	USD/t	8,030	8,362	8,972	8,955	8,836	8,816	8,253	8,386	8,445	8,353	8,271	7,938	-4
Aluminum	USD/t	2,335	2,390	2,483	2,417	2,290	2,337	2,270	2,181	2,152	2,134	2,178	2,207	1
Zinc	USD/t	2,924	3,115	3,277	3,144	2,956	2,777	2,486	2,368	2,397	2,400	2,488	2,472	-1
Lead	USD/t	2,099	2,219	2,214	2,099	2,115	2,147	2,090	2,118	2,107	2,153	2,253	2,137	-5
Nickel	USD/t	25,563	28,986	28,271	26,728	23,289	23,771	22,135	21,233	21,091	20,446	19,645	18,372	-6
Alumina	USD/t	316	322	343	362	365	359	348	341	329	339	340	337	-1
Aluminum Ingot Premium (Asia - MJP)	USD/t	114	90	86	82	88	99	124	122	119	117	103	95	-7
Aluminum Ingot Premium (EU - Rotterdam)	USD/t	272	236	257	294	311	323	323	318	305	290	275	241	-12
Aluminum Ingot Premium (US midwest)	USD/t	447	454	569	642	609	553	550	537	516	476	451	431	-4
Aluminum scrap	USD/t	1,710	1,739	1,759	1,738	1,665	1,715	1,608	1,536	1,515	1,532	1,521	1,549	2
Aluminum scrap spread	USD/t	626	651	725	679	625	622	662	645	638	602	656	658	0
Silver	USD/t	743	825	841	758	775	886	860	830	861	831	828	777	-6
USD:INR (Bloomberg)	INR	82	83	82	83	82	82	82	82	82	83	83	83	0
Ferrous- International Prices														
China HRC domestic	RMB/t	3,821	4,069	4,187	4,262	4,415	4,185	3,838	3,846	3,916	3,960	3,934	3,844	-2
China HRC domestic	USD/t	533	583	616	623	640	608	549	537	545	546	539	527	-2
China TMT domestic	RMB/t	3,859	4,005	4,196	4,315	4,356	4,023	3,748	3,774	3,796	3,765	3,910	3,942	1
China TMT domestic	USD/t	538	574	618	631	632	584	536	527	528	519	536	540	1
China HRC FoB	USD/t	574	593	636	660	688	661	562	551	563	569	555	537	-3
Korea HRC FoB	USD/t	534	559	629	662	698	689	681	624	601	605	600	600	0
North Europe HRC domestic	EUR/t	655	666	714	770	824	853	806	702	669	656	659	628	-5
North America HRC domestic (USD/short ton)	USD/st	689	682	727	830	1,036	1,155	1,128	969	964	828	721	690	-4
India HRC Export FoB (USD/t)	USD/t	534	563	639	707	712	700	598	567	570	575	580	580	0
Australia Fe 62% iron ore CNF	USD/t	92	111	122	126	127	118	105	111	112	109	121	118	-2
Chinese steel futures														
TMT - Shanghai futures	RMB/t	3,598	3,939	4,131	4,116	4,212	3,885	3,607	3,691	3,764	3,720	3,731	3,645	-2
HRC - Shanghai futures	RMB/t	3,696	4,010	4,168	4,180	4,316	3,962	3,681	3,794	3,892	3,904	3,883	3,772	-3
Iron ore - Dalian Commodity Exchange	RMB/t	696	807	851	873	899	768	712	794	806	765	854	841	-2
Coking coal - Dalian Commodity Exchange	RMB/t	1,925	1,871	1,863	1,888	1,913	1,561	1,336	1,317	1,419	1,441	1,781	1,800	1
China HRC FOB spread over RM		876		1 120	1 002	1 1 (1		1 224	1 224	1 217		017	012	11
(HRC - 1.7x iron ore85x HCC)	RMB/t	8/6	1,049	1,138	1,092	1,161	1,329	1,334	1,324	1,317	1,378	917	813	-11
India steel and metallics prices														
India HRC ex-Mumbai 5-10mm	INR/t	56,000	53,900	57,589	59,600	60,260	59,900	57,575	55,422	55,560	56,367	57,827	58,700	2
Dom HRC prem to India export FoB price	INR/t	12,295	7,442	5,255	1,161	1,640	2,468	8,354	8,785	8,734	8,759	9,647	10,430	8





Commodity	UoM	Nov'22	Dec'22	Jan'23	Feb'23	Mar'23	Apr'23	May'23	Jun'23	Jul'23	Aug'23	Sep'23	Oct'23	MoM
CRC ex-Mumbai - 0.9mm	INR/t	62,860	59,525	62,722	64,733	64,875	64,186	62,500	59,888	59,443	60,800	62,244	63,625	2
Galvanized plain - 120 GSM	INR/t	65,467	63,600	70,500	74,214	74,529	74,643	70,500	67,943	67,538	67,925	68,617	70,000	2
Color coated /PPGI ex-Mumbai 90GSM	INR/t	75,825	71,467	77,256	82,443	82,260	82,725	81,550	79,540	78,900	78,800	79,200	79,550	0
Wire rod - Primary Producers	INR/t	55,200	54,000	56,807	59,167	58,178	56,383	54,525	51,843	50,343	50,250	53,400	56,000	5
TMT primary - Mumbai	INR/t	56,000	56,417	60,210	62,957	60,967	59,780	57,225	53,713	51,211	51,060	56,538	58,050	3
TMT secondary - Mumbai	INR/t	52,786	53,308	57,154	56,896	56,065	54,929	53,458	50,857	46,977	48,926	51,977	51,500	-1
Domestic scrap-HMS(80:20) - Mumbai	INR/t	35,300	36,350	37,475	36,493	38,084	38,177	37,442	36,987	34,268	35,503	36,807	36,244	-2
Sponge iron (DRI)	INR/t	28,696	29,873	31,567	31,067	30,408	29,540	27,885	27,155	25,518	28,318	30,023	29,159	-3
Domestic pellet prices- Barbil - 63% Fe	INR/t	7,320	7,861	9,085	9,621	9,525	9,064	8,417	7,925	7,613	8,067	8,989	8,590	-4
Pellet Export Prices - FoB 64%Fe	USD/t	102	107	116	123	118	109	97	108	107	103	111	109	-2
Domestic ferrous spreads														
Primary HRC v/s primary TMT	INR/t	-	-2,517	-2,621	-3,357	-707	120	350	1,710	4,349	5,307	1,290	650	-50
Primary TMT v/s secondary TMT	INR/t	3,214	3,109	3,056	6,061	4,901	4,851	3,767	2,856	4,234	2,134	4,561	6,550	44
Secondary TMT v/s domestic Scrap	INR/t	17,486	16,958	19,679	20,404	17,982	16,752	16,016	13,870	12,710	13,423	15,170	15,256	1
Hot rolled v/s cold rolled	INR/t	6,860	5,625	5,133	5,133	4,615	4,286	4,925	4,465	3,883	4,433	4,417	4,925	11
Hot rolled - galvanized Plan	INR/t	9,467	9,700	12,911	14,614	14,269	14,743	12,925	12,521	11,978	11,558	10,789	11,300	5
Hot rolled - color coated	INR/t	19,825	17,567	19,667	22,843	22,000	22,825	23,975	24,118	23,340	22,433	21,373	20,850	-2
Coking coal														
India premium HCC CNF	USD/t	299	277	328	380	365	290	246	244	245	267	316	363	15
India 64 mid vols coking coal CNF	USD/t	260	256	306	349	328	258	222	216	213	234	264	284	8
NMDC iron ore - Chhattisgarh														
64% Bailadila fines	INR/t	2,760	2,910	3,510	NA	4,010	4,010	3,785	3,560	3,950	3,910	4,110	4,460	9
Iron ore lump	INR/t	3,950	4,100	4,550	NA	4,450	4,200	4,050	3,900	4,530	4,650	4,850	5,200	7
Domestic ferro alloys														
Silico manganese	INR/t	75,341	75,420	79,583	76,496	74,145	75,048	73,510	70,979	67,184	67,313	69,760	66,619	-5
Ferro manganese	INR/t	76,182	74,545	79,820	79,428	77,019	77,500	75,456	73,392	69,539	67,982	69,898	67,713	-3
Ferro chrome	INR/t	35,300	36,350	37,475	36,493	38,084	38,177	37,442	36,987	34,268	35,503	36,807	36,244	-2
Ferrous - inventory														
China HRC	mt	2	2	2	3	3	2	3	3	3	3	3	3	2
China wire rod	mt	1	1	1	2	3	3	2	2	2	2	1	1	-4
China TMT	mt	4	4	5	8	8	7	6	5	5	6	5	5	-7
Non-ferrous - inventory														
Aluminum														
LME	kt	539	479	410	521	542	544	568	563	524	506	495	495	0
SHFE	kt	55	49	71	110	120	96	74	54	54	50	52	62	19
Total	kt	594	528	481	631	662	640	642	617	578	556	547	557	2
Zinc														
LME	kt	43	37	22	25	38	48	55	83	82	122	126	93	-26

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Commodity	UoM	Nov'22	Dec'22	Jan'23	Feb'23	Mar'23	Apr'23	May'23	Jun'23	Jul'23	Aug'23	Sep'23	Oct'23	MoM
·		1407 22	Dec 22					•				•		
SHFE	kt	1	1	8	44	48	28	12	9	16	18	13	10	-25
Total	kt	44	38	29	70	86	76	67	92	98	141	139	103	-26
Lead														
LME	kt	27	24	22	23	25	29	34	39	48	56	64	85	33
SHFE	kt	46	45	47	56	46	32	27	36	34	51	67	72	8
Total	kt	73	69	69	79	71	61	61	75	82	107	131	157	20
Copper														
LME	kt	90	85	82	66	71	59	83	88	61	89	143	174	21
SHFE	kt	34	27	49	124	105	66	53	29	22	13	9	13	45
Total	kt	123	112	131	190	176	125	136	117	83	101	152	187	23
Nickel														
LME	kt	51	54	53	47	44	42	39	38	38	37	40	43	8
SHFE	kt	4	3	3	3	3	2	1	3	3	3	5	8	54
Total	kt	55	57	55	50	47	43	40	41	40	40	45	51	13





Metals valuation matrix

Exhibit 60: Indian companies valuation

	Rating	CMP	M-cap	EPS	(INR)	P/I	E (x)	EV/EB	ITDA (x)	P/	B(x)
		(INR)	(INR b)	FY23	FY24E	FY23	FY24E	FY23	FY24E	FY23	FY24E
Steel											
Tata	Neutral	127	1,551	7.1	5.2	17.9	24.3	6.9	9.9	1.6	1.6
JSW	Neutral	791	1,911	14.7	45.8	53.8	17.2	13.5	8.4	2.9	2.6
JSP	Buy	692	699	36.4	54.7	19.0	12.6	7.7	6.7	1.8	1.6
SAIL	Neutral	89	368	4.8	7.7	18.4	11.6	8.3	6.7	0.7	0.6
Non-ferrous											
Vedanta	Neutral	230	855	29.0	16.7	7.9	13.8	4.7	6.4	2.2	2.7
Hindalco	Buy	483	1,073	45.3	45.4	10.7	10.6	6.4	6.0	1.6	1.4
Nalco	Neutral	100	184	8.3	7.6	12.1	13.3	6.6	6.4	1.4	1.3
Mining											
Coal	Buy	312	1,923	45.6	34.8	6.8	9.0	3.7	4.8	3.4	2.8
HZL	Neutral	322	1,360	24.9	19.6	12.9	16.4	7.8	9.2	10.5	8.0
NMDC	Buy	165	484	16.5	18.6	10.0	8.9	6.9	6.1	2.1	1.9

Source: MOFSL, Company, Bloomberg(*) denotes MOFSL estimates

Exhibit 61: Global steel comparative valuation

	M-Cap	P/E	(x)	EV/EBI	TDA (x)	P/E	3 (x)	RoE (%)		
Company	USD m	CY22/FY23	CY23/FY24	CY22/FY23	CY23/FY24	CY22/FY23	CY23/FY24	CY22/FY23	CY23/FY24	
India										
Tata*	18,356	17.9	24.3	6.9	9.9	1.6	1.6	8.3	6.5	
JSW*	22,828	53.8	17.2	13.5	8.4	2.9	2.6	5.3	15.8	
JSP*	8,349	19.0	12.6	7.7	6.7	1.8	1.6	9.9	13.4	
SAIL*	4,410	18.4	11.6	8.3	6.7	0.7	0.6	3.7	5.6	
Japan										
JFE	8,970	8.1	6.5	6.9	6.0	0.6	0.5	7.4	8.6	
Nippon Steel	20,535	4.7	7.5	5.1	6.0	0.7	0.7	17.3	9.4	
Kobe Steel	4,835	11.5	6.4	8.1	5.3	0.8	0.7	7.5	11.7	
Korea										
POSCO	31,176	13.4	11.2	6.5	5.7	0.7	0.7	5.6	6.4	
Hyundai Steel	3,309	5.0	4.5	4.9	3.9	0.2	0.2	4.7	5.0	
US										
Nucor	36,577	8.1	12.6	5.3	7.3	1.7	1.6	21.8	12.9	
US Steel	7,414	8.1	16.7	4.4	6.2	0.7	0.7	9.5	4.9	
Steel Dynamics	17,543	7.1	12.1	4.9	7.7	1.9	1.8	28.3	15.0	
Europe										
AM	19,481	4.6	5.2	3.3	3.4	0.3	0.3	8.1	6.8	
SSAB	5,654	5.2	8.1	2.3	3.4	0.9	0.9	17.8	10.8	
TKA	4,359	29.7	9.0	0.4	0.5	0.3	0.3	0.9	3.7	
VOE	4,637	4.4	7.7	2.7	3.6	0.6	0.5	13.7	7.2	
China										
Baosteel	17,942	11.8	9.6	4.9	4.1	0.7	0.6	5.4	6.5	

Source: MOFSL, Company, Bloomberg(*) denotes MOFSL estimates

Exhibit 62: Iron ore mining global comparative valuation

	M Can	P/E	(x)	EV/EBI	TDA (x)	P/E	3 (x)	RoE	(%)			
	M-Cap - USD m	CY22/	CY23/	CY22/	CY23/	CY22/	CY23/	CY22/	CY23/			
Company	ווו שנט	FY23	FY24	FY23	FY24	FY23	FY24	FY23	FY24			
NMDC*	5,628	10.0	8.9	6.9	6.1	2.1	1.9	23.8	22.6			
Vale	58,368	6.5	6.2	4.0	4.0	1.3	1.2	21.7	20.4			
FMG	41,675	7.6	9.2	4.4	5.1	2.2	2.2	30.8	25.4			

Source: MOFSL, Company, Bloomberg(*) denotes MOFSL estimates





Exhibit 63: Diversified miners global comparative valuation

	M-Cap	P/E (x)		EV/EBI	TDA (x)	P/E	3 (x)	RoE (%)		
Company	USD m	CY22/ FY23	CY23/ FY24	CY22/ FY23	CY23/ FY24	CY22/ FY23	CY23/ FY24	CY22/ FY23	CY23/ FY24	
Vedanta*	10,099	7.9	13.8	4.7	6.4	2.2	2.7	20.6	17.4	
ВНР	1,44,581	10.5	11.0	5.7	5.7	3.3	3.0	31.1	28.3	
Rio	1,04,129	8.8	8.8	4.7	4.5	1.8	1.7	21.3	19.7	
Glencore	68,328	9.2	10.2	4.9	4.9	1.5	1.5	15.2	13.6	
Anglo	33,393	9.7	8.5	4.6	4.2	1.2	1.1	12.2	13.4	
South 32	10,031	10.7	12.4	4.0	4.9	1.0	1.0	9.7	8.2	

Source: MOFSL, Company, Bloomberg(*) denotes MOFSL estimates

Exhibit 64: Zinc global comparative valuation

	M-Cap	P/E (x)		EV/EBI	TDA (x)	P/E	3 (x)	RoE (%)		
	_	CY22/	CY23/	CY22/	CY23/	CY22/	CY23/	CY22/	CY23/	
Company	USD m	FY23	FY24	FY23	FY24	FY23	FY24	FY23	FY24	
HZL*	16,168	12.9	16.4	7.8	9.2	10.5	8.0	44.5	55.4	
Korea Zinc	7,430	17.8	14.8	9.7	8.3	1.0	1.0	5.9	6.9	
Teck	20,248	9.8	9.3	5.1	4.4	1.0	0.9	11.1	10.3	

Source: MOFSL, Company, Bloomberg(*) denotes MOFSL estimates

Exhibit 65: Coal global comparative valuation

Exhibit 05: Coul Biobai Comparative Valuation								
M-Cap	P/E (x)		EV/EBITDA (x)		P/B (x)		RoE (%)	
_	CY22/	CY23/	CY22/	CY23/	CY22/	CY23/	CY22/	CY23/
USD m	FY23	FY24	FY23	FY24	FY23	FY24	FY23	FY24
22,793	6.8	9.0	3.7	4.8	3.4	2.8	49.1	31.5
81,112	7.6	7.9	5.3	5.4	1.1	1.1	14.7	14.0
2,184	6.6	7.2	4.5	4.6	0.6	0.6	10.8	6.7
2,003	4.8	5.6	3.3	3.5	1.2	1.2	25.4	22.2
5,642	3.8	5.7	1.7	2.0	0.8	0.8	21.4	13.1
	M-Cap	M-Cap P/E CY22/ USD m FY23 22,793 6.8 81,112 7.6 2,184 6.6 2,003 4.8	M-Cap P/E (x) CY22/ CY23/ USD m FY23 FY24 22,793 6.8 9.0 81,112 7.6 7.9 2,184 6.6 7.2 2,003 4.8 5.6	M-Cap P/E (x) EV/EBI CY22/ CY23/ CY22/ USD m FY23 FY24 FY23 22,793 6.8 9.0 3.7 81,112 7.6 7.9 5.3 2,184 6.6 7.2 4.5 2,003 4.8 5.6 3.3	M-Cap P/E (x) EV/EBITDA (x) CY22/ CY23/ CY22/ CY23/ USD m FY23 FY24 FY23 FY24 22,793 6.8 9.0 3.7 4.8 81,112 7.6 7.9 5.3 5.4 2,184 6.6 7.2 4.5 4.6 2,003 4.8 5.6 3.3 3.5	M-Cap P/E (x) EV/EBITDA (x) P/E CY22/ CY23/ CY22/ CY23/ CY22/ USD m FY23 FY24 FY23 FY24 FY23 22,793 6.8 9.0 3.7 4.8 3.4 81,112 7.6 7.9 5.3 5.4 1.1 2,184 6.6 7.2 4.5 4.6 0.6 2,003 4.8 5.6 3.3 3.5 1.2	M-Cap P/E (x) EV/EBITDA (x) P/B (x) CY22/ CY23/ CY22/ CY23/ CY22/ CY23/ USD m FY23 FY24 FY23 FY24 FY23 FY24 22,793 6.8 9.0 3.7 4.8 3.4 2.8 81,112 7.6 7.9 5.3 5.4 1.1 1.1 2,184 6.6 7.2 4.5 4.6 0.6 0.6 2,003 4.8 5.6 3.3 3.5 1.2 1.2	M-Cap P/E (x) EV/EBITDA (x) P/B (x) RoE CY22/ CY23/ CY22/ CY23/ CY22/ CY23/ CY22/ CY22/ CY23/ CY22/ CY22/ CY23/ CY22/ CY23/ CY22/ CY22/ CY23/ CY23/ CY23/ CY23/

Source: MOFSL, Company, Bloomberg(*) denotes MOFSL estimates

Exhibit 66: Aluminum global comparative valuation

	M-Cap	p P/E (x)		EV/EBITDA (x)		P/B (x)		RoE (%)	
Company	USD m	CY22/ FY23	CY23/ FY24	CY22/ FY23	CY23/ FY24	CY22/ FY23	CY23/ FY24	CY22/ FY23	CY23/ FY24
Hindalco*	12,971	10.7	10.6	6.4	6.0	1.6	1.4	16.3	13.7
Nalco*	2,184	12.1	13.3	6.6	6.4	1.4	1.3	11.9	10.3
Alcoa	4,743	NA	10.9	12.9	4.6	1.1	1.0	-6.1	3.4
Norsk Hydro	11,473	11.4	9.7	5.4	4.9	1.1	1.1	10.3	11.5
CHALCO	13,151	10.3	9.4	6.1	5.0	1.1	1.0	11.1	11.7
RUSAL	5,342	3.9	2.7	6.5	4.6	0.4	0.3	10.6	14.1
Alumina	1,774	NA	17.5	116.8	9.9	1.2	1.1	-2.7	7.3

Source: MOFSL, Company, Bloomberg(*) denotes MOFSL estimates

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NOTES





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