



## MMi Dashboard

## Iron Ore Price Indices

Iron Ore Port Stock (FOT Qingdao) IOPI62 62% Fe Fines RMB/t	
	<b>679</b>
0	0.00%
April 17th, 2020	

Iron Ore Port Stock (FOT Qingdao) IOPI65 65% Fe Fines RMB/t	
	<b>823</b>
19	2.36%
April 17th, 2020	

Iron Port Stock (FOT Qingdao) IOPI58 58% Fe Fines RMB/t	
	<b>584</b>
-1	-0.17%
April 17th, 2020	

Iron Ore Seaborne (CFR Qingdao) IOSI62 62% Fe Fines USD/dmt	
	<b>84.80</b>
-0.10	-0.12%
April 17th, 2020	

Iron Ore Seaborne (CFR Qingdao) IOSI65 65% Fe Fines USD/dmt	
	<b>102.40</b>
1.10	1.09%
April 17th, 2020	

Iron Ore Port Stock (FOT Qingdao) IOPLI 62.5% Fe Lump RMB/t	
	<b>834</b>
10	1.21%
Week Ending April 17th, 2020	

## Exchange Traded Contracts

DCE Iron Ore 62% Fines I2009 (Sep) RMB/t (3pm close)	
	<b>612.00</b>
6.00	0.99%
April 17th, 2020 (3pm close)	

SGX Iron Ore (CFR Qingdao) 62% Fe Fines May'20 USD/dmt	
	<b>83.02</b>
0.48	0.58%
April 17th, 2020 (5.30 pm Print)	

SHFE Rebar RB2010 (Oct) RMB/t	
	<b>3381</b>
-4.00	-0.12%
April 17th, 2020 (3pm close)	

## Freight Rates

C3, Tubarao - Qingdao USD/t	
	<b>11.89</b>
0.17	1.45%
April 16th, 2020	

C5, W. Australia - Qingdao USD/t	
	<b>4.69</b>
0.22	4.88%
April 16th, 2020	

## Steel Price

Steel Rebar (China Domestic) RMB/t	
	<b>3480</b>
60	1.75%
Week Ending April 10th, 2020	

## Inventory Levels

Iron Ore Inventory at Chinese Ports (35) million tonnes	
	<b>108.14</b>
-0.29	-0.27%
Week Ending April 17th, 2020	

Steel Inventory in China million tonnes	
	<b>27.88</b>
-1.71	-5.76%
Week Ending April 10th, 2020	

## Steel Price

Steel HRC (China Domestic) RMB/t	
	<b>3300</b>
100	3.13%
Week Ending April 10th, 2020	

## IRON ORE PORT STOCK INDEX (IOPI)

April 17th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPI62	62% Fe Fines	679	0	0.0%	666	672	619	928	88.55	0.00	0.0%	86.82	88.59	81.37	126.12
IOPI58	58% Fe Fines	584	-1	-0.2%	574	578	531	823	76.46	-0.14	-0.2%	75.11	76.45	70.02	112.44
IOPI65	65% Fe Fines	823	19	2.4%	797	800	696	992	108.14	2.58	2.4%	104.64	106.18	91.81	135.34

## IRON ORE SEABORNE INDEX (IOSI)

## MARKET COMMENTARY

April 17th, 2020		CFR Qingdao, USD/dry tonne							SMM data showed that iron ore stocks across 35 Chinese ports totalled 108.14 million mt as of April 17, down 300,000 mt from a week ago and 20.55 million mt lower than a year ago. Daily average deliveries from the 35 ports increased 24,000 mt from a week ago to 2.75 million mt this week. More arrivals slightly pushed up stocks at two ports in Tangshan. Low availability of certain low-grade ore and Brazilian ore at Jingtang port drove some steel mills to increase purchases from Caofeidian port. Daily average deliveries from major ports in Shandong declined as steel mills restocked in small quantities as needed, but fewer arrivals allowed port stocks to fall. Deliveries from ports are likely to increase slightly in the short term on the back of strong demand.						
Index	Fe Content	Price	Change	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>							
IOSI62	62% Fe Fines	84.80	-0.10	-0.12%	83.65	88.98	80.40	127.50							
IOSI65	65% Fe Fines	102.40	1.10	1.09%	100.00	104.46	91.20	137.95							

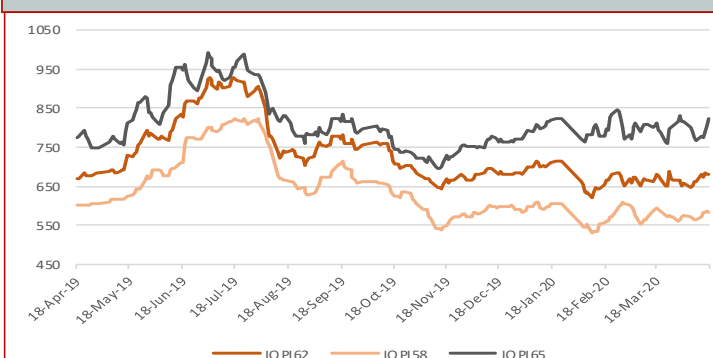
## IRON ORE PORT LUMP INDEX (IOPLI)

Week Ending April 17th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>3</sup>						
Index	Fe Content	Price	W-o-W	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>	Price	W-o-W	Change %	MTD	YTD	Low <sup>2</sup>	High <sup>2</sup>
IOPLI62	62.5% Fe Lump	834	10	1.2%	832	852	763	1051	105.38	1.42	1.37%	104.92	107.82	93.24	133.81

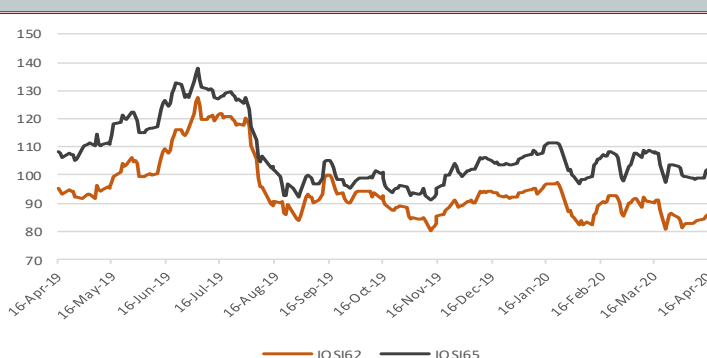
## IRON ORE DOMESTIC CONCENTRATE SPOT PRICE ASSESSMENTS AND COMPOSITE INDEX

Week Ending April 10th, 2020				RMB/tonne (excluding tax) <sup>3</sup>				USD/tonne (excluding tax) <sup>3</sup>			
Province	Region	Product	Basis	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Hebei	Hanxing	66% Fe Concentrate	Dry	781	-1.5%	763	1032	110.65	-1.17%	109.21	150.03
Hebei	Qian'an	65% Fe Concentrate	Dry	780	-4.9%	735	960	110.51	-4.54%	109.45	139.35
Liaoning	Anshan	65% Fe Concentrate	Wet	650	-1.5%	565	720	92.09	-1.17%	84.14	104.66
Shandong	Zibo	65% Fe Concentrate	Dry	865	-1.7%	785	1040	122.55	-1.36%	113.34	151.33
Week Ending April 10th, 2020				This week	Change %	Low <sup>2</sup>	High <sup>2</sup>	<sup>1</sup> Exchange rate applied: RMB/USD = 7.0718 <sup>2</sup> Last 12 months <sup>3</sup> Weekly exchange rate applied: RMB/USD 7.0508			
China Mines Concentrate Composite Index RMB/WT				713.98	-1.98%	621.60	859.50				

## IRON ORE PORT INDEX, FOT QINGDAO (RMB/WT)



## IRON ORE SEABORNE INDEX, CFR QINGDAO (USD/DMT)



## IRON ORE PORT STOCK INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

April 17th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne						
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	December	January	February	March	MTD	QTD	YTD
IOPI62	62% Fe Fines	683	706	655	667	666	666	672	89.84	94.23	86.23	87.61	86.82	86.82	88.59
IOPI58	58% Fe Fines	592	600	563	577	574	574	578	78.18	80.46	74.33	76.20	75.11	75.11	76.45
IOPI65	65% Fe Fines	764	808	797	798	797	797	800	100.90	108.54	105.84	105.60	104.64	104.64	106.18

## IRON ORE SEABORNE INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

## FREIGHT RATES

April 17th, 2020		CFR Qingdao, USD/dry tonne							April 16th, 2020		FREIGHT RATES - DRY BULK US\$/wet tonne				
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	Route	Designation	Change	Change %	Low <sup>2</sup>	High <sup>2</sup>	
IOSI62	62% Fe Fines	92.64	93.85	87.46	88.60	83.65	83.65	88.98	W. Australia - Qingdao	C5	4.69	0.22	4.88%	4.00	11.42
IOSI65	65% Fe Fines	104.14	107.56	102.94	105.31	100.00	100.00	104.46	Tubarao - Qingdao	C3	11.89	0.17	1.45%	9.20	29.10

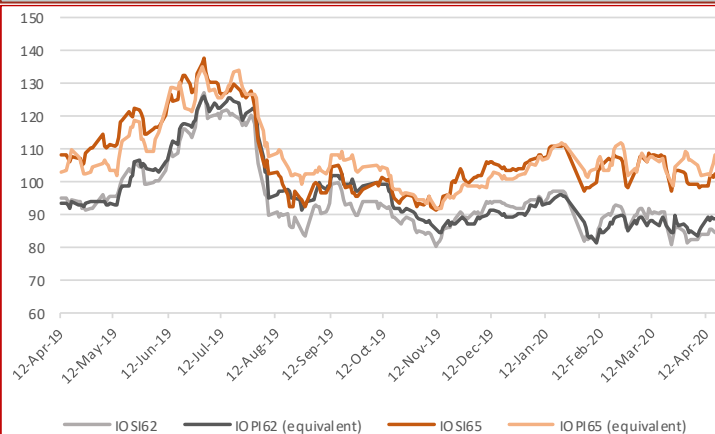
## IRON ORE PORT LUMP INDEX MONTHLY, QUARTERLY AND YEAR-TO-DATE AVERAGES

Week Ending April 17th, 2020		FOT Qingdao (inc. 13% VAT), RMB/wet tonne							CFR Qingdao Equivalent (exc. 13% VAT), USD/dry tonne <sup>1</sup>						
Index	Fe Content	December	January	February	March	MTD	QTD	YTD	December	January	February	March	MTD	QTD	YTD
IOPLI62	62.5% Fe Lump	825	868	834	868	832	832	852	97.89	108.99	106.19	110.46	104.92	104.92	107.82

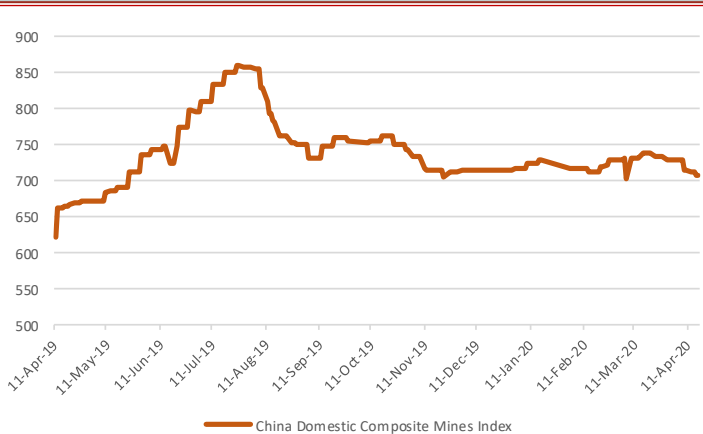
## IRON ORE INDEX PREMIUMS/DISCOUNTS

April 17th, 2020		PORT STOCK INDEX (RMB/WT)				April 17th, 2020		SEABORNE INDEX (USD/DMT)			
Index	Fe Content	Spread to IOPI62		% Spread to IOPI62		Index	Fe Content	Spread to IOSI62		% Spread to IOSI62	
IOPI58	58% Fe Fines	-95		-13.99%		IOSI65	65% Fe Fines	17.60		20.75%	
IOPI65	65% Fe Fines	144		21.21%							

## IRON ORE INDEX COMPARISONS (USD/DMT)



## CHINA DOMESTIC COMPOSITE MINES INDEX (RMB/Wet Tonne, including VAT)



## IRON ORE BRAND SPOT PRICE ASSESSMENTS

April 17th, 2020				April 17th, 2020			
PORT STOCK INDEX (RMB/WT)				SEABORNE INDEX (USD/DMT)			
	Price	Change	Diff to IOPI62		Price	Change	Diff to IOSI62
Roy Hill	635	-3	-44	Roy Hill	80.31	-0.10	-4.49
SIMEC Fines	617	-4	-62	SIMEC Fines	77.69	-0.10	-7.11
PB Fines	664	-2	-15	PB Fines	84.46	-0.10	-0.34
Newman Fines	677	1	-2	Newman Fines	86.19	-0.07	1.39
MAC Fines	649	-3	-30	MAC Fines	79.54	-0.60	-5.26
Jimblebar Blended Fines	610	-6	-69	Jimblebar Blended Fines	72.26	-1.73	-12.54
Carajas Fines	824	21	145	Carajas Fines	102.39	1.38	17.59
Brazilian SSF	686	13	7	Brazilian SSF	88.24	0.53	3.44
Brazilian Blend Fines	701	9	22	Brazilian Blend Fines	88.61	0.27	3.81
RTX Fines	643	-7	-36	RTX Fines	77.91	-0.73	-6.89
West Pilbara Fines	638	-4	-41	West Pilbara Fines	78.41	-0.10	-6.39

April 17th, 2020			
PORT STOCK INDEX (RMB/WT)			
	Price	Change	Diff to IOPI58
SSF	534	-5	-50
FMG Blended Fines	572	-1	-12
Robe River	540	-3	-44
Western Fines	531	-8	-53
Atlas Fines	599	2	15
Yandi	598	-7	14

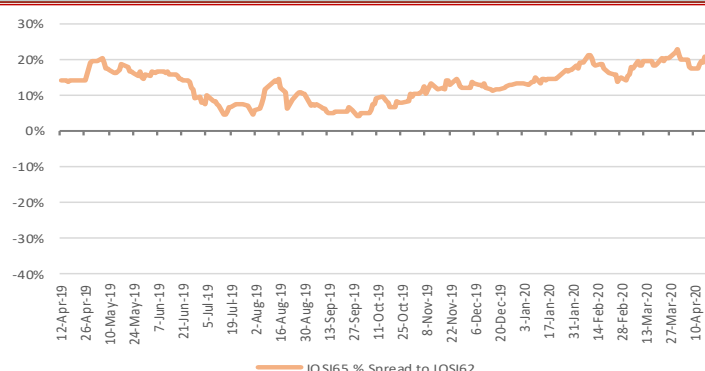
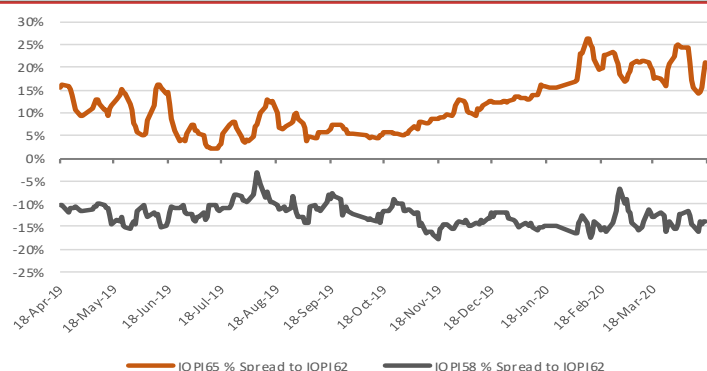
## IRON ORE INDEX NORMALISATION DIFFERENTIALS

Port Stock Index Product Differentials (RMB/wet tonne)				Seaborne Index Product Differentials (USD/dry tonne)			
	Applicable range	Value	Change		Applicable range	Value	Change
1% Fe	High Grade Fe 60 - 63%	11.00	2.00	1% Fe	High Grade Fe 60 - 63%	3.25	0.00
	High Grade Fe 63 - 64%	6.00	2.00		High Grade Fe 63 - 64%	3.75	0.25
	High Grade Fe 64 - 65%	6.00	2.00		High Grade Fe 64 - 65%	3.75	0.25
	High Grade Fe 65 - 65.5%	6.00	2.00		High Grade Fe 65 - 65.5%	3.75	0.25
	Low Grade Fe	2.00	1.00	1% Alumina	High Fe Grade Al <2.25%	3.25	0.50
1% Alumina	High Fe Grade Al <2.25%	40.00	10.00		High Fe Grade Al 2.25-4%	0.75	0.00
	High Fe Grade Al 2.25-4%	1.00	0.00		High Fe Grade Si <4%	1.75	0.25
	Low Fe Grade Al <2.25%	48.00	-3.00		High Fe Grade Si 4 - 6.5%	0.25	0.00
	Low Fe Grade Al 2.25-4%	41.00	0.00	0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	0.75	0.25
1% Silica	High Fe Grade Si <4%	35.00	2.00		High Fe Grade 0.115%<P<0.15%	0.50	0.00
	High Fe Grade Si 4-6.5%	23.00	0.00				
	Low Fe Grade	18.00	3.00				
0.01% Phosphorus	High Fe Grade 0.09%<P<0.115%	4.00	1.00				
	High Fe Grade 0.115%<P<0.15%	3.00	1.00				
	Low Fe Grade 0.09%<P<0.1%	1.00	-1.00				

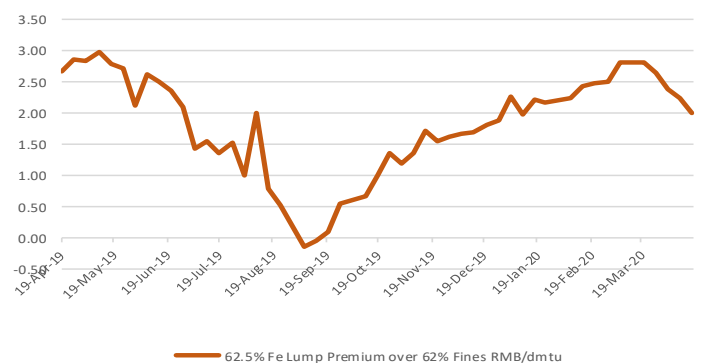
## Port Stock Price Differentials to Qingdao Port for PB Fines (RMB/wet tonne)

Port	Value	Change	Port	Value	Change	Port	Value	Change	Port	Value	Change
Bayuquan	-35.00	0.00	Fangcheng	-5.00	0.00	Lanshan	0.00	0.00	Qingdao	0.00	0.00
Beilun	-10.00	0.00	Jiangyin	-20.00	0.00	Lianyungang	0.00	0.00	Rizhao	0.00	0.00
Caofeidian	-10.00	0.00	Jingtang	-10.00	0.00	Majishan	0.00	0.00	Shekou	0.00	0.00
Dalian	-35.00	0.00	Langqiao	0.00	0.00	Nantong	-20.00	0.00	Tianjin	-15.00	0.00

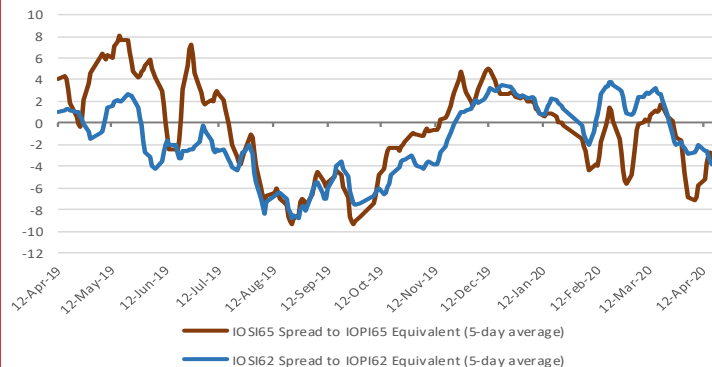
## IRON ORE INDEX PREMIUMS/DISCOUNTS



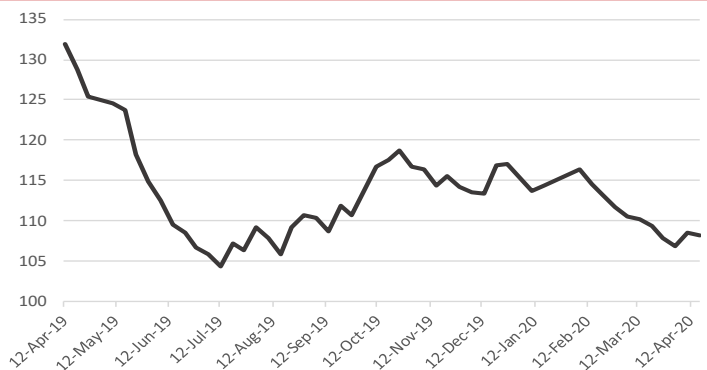
## WEEKLY IRON ORE PORT STOCK LUMP PREMIUM (RMB/DMTU)



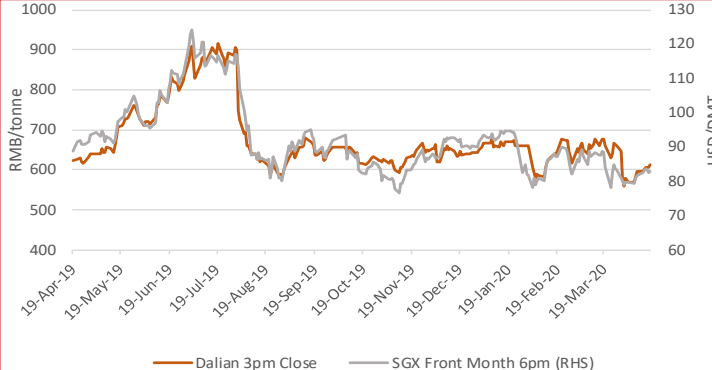
## IRON ORE SEABORNE TO PORT STOCK PRICE SPREADS (USD/DMT)



## TOTAL IRON ORE INVENTORIES AT CHINA PORTS (MILLION TONNES)



## FUTURE TRADING—FRONT MONTH CLOSING PRICE



## IRON ORE PORT INVENTORIES (MILLION TONNES)

Week Ending April 17th, 2020

Province	This week	Change %	Low <sup>2</sup>	High <sup>2</sup>
Jingtang	14.39	2.35%	10.80	17.00
Qingdao	12.65	-3.21%	12.38	17.13
Caofeidian	14.21	-0.21%	13.47	17.71
Tianjin	8.08	2.54%	6.37	8.08
Rizhao	11.61	0.09%	11.41	16.48
Total (35 Ports)	108.14	-0.27%	104.40	131.93

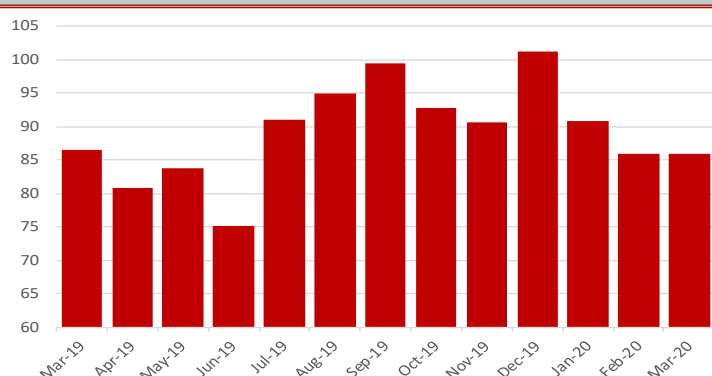
## IRON ORE FUTURES CONTRACTS

Closing Date	DCE (RMB/WMT)			SGX (USD/DMT)		
	April 17th, 3.00 pm close			April 17th, 5.30 pm		
Contract	I2009	Change	Change %	May'20	Change	Change %
Closing Price	612.00	6.0	0.99%	83.02	0.48	0.58%
Vol traded ('000 lots)	103.28	3.01	3.00%	18.37	6.07	49.33%
Open positions ('000 lots)	62.06	-0.53	-0.84%	156.00	3.48	2.28%
Day Low	606.5	9.5	1.59%	82.52	0.52	0.63%
Day High	621.5	11.0	1.80%	84.08	1.10	1.33%

## DRY BULK FREIGHT RATES (USD/MT)



## TOTAL CHINA IRON ORE IMPORT VOLUMES (MILLION TONNES)



## STEEL SPOT MARKET PRICES—CHINA

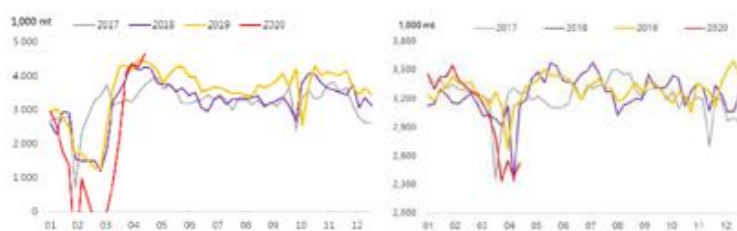
Steel Spot Market RMB/tonne

Product	10/4/2020	Change	Change %
ReBar HRB400 $\phi$ 18mm	3,480.0	60	1.75%
Wirerod Q300 $\phi$ 6.5mm	3,630.0	70	1.97%
HRC Q235/SS400 5.5mm*1500*C	3,300.0	100	3.13%
CRC SPCC/ST12 1.0mm*1250*2500	3,690.0	10	0.27%
Medium & Heavy Plate Q235B 20mm	3,590.0	10	0.28%
GI ST02Z 1.0mm*1000*C	4,010.0	0	0.00%
Colour Coated Plate	6,450.0	-100	-1.53%

## CHINESE STEEL CONSUMPTION

Weekly consumption of rebar

Weekly consumption of hot-rolled coil



## CHINESE STEEL MILL PROFITABILITY

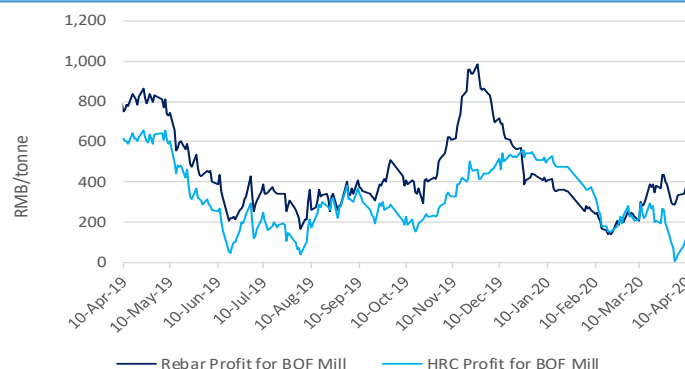
SMM Tracking of Steel Mill P&amp;L - Rebar and Hot-rolled Coil (RMB/tonne)

Category	Price	Change (WoW)	Note
MMI (Fe 62%), USD/mt excluding tax	83.90	1.70	Mmi CFR Equivalent index for 1st Feb
Coke	1,710	-50	2nd grade met coke, Tangshan, incl. tax
Steel Scrap	1,870	-190	steel scrap (6mm) in Zhangjiagang, exl. tax
Billet Cost	2,843	-20	Q234, incl. tax
Rebar cost - Blast furnace	3,062	-22	calculated based on theoretical weight, incl. tax
Rebar profit - Blast furnace	408	72	based on Shanghai prices, incl. tax
Hot-rolled coil cost - Blast furnace	3,139	-20	based on actual weight, incl. tax
Hot-rolled coil profit - Blast furnace	161	120	based on Shanghai prices, incl. tax

Note: 1 Costs in the table are calculated based on today's market prices and factoring our management, sales, financial and depreciations fees.

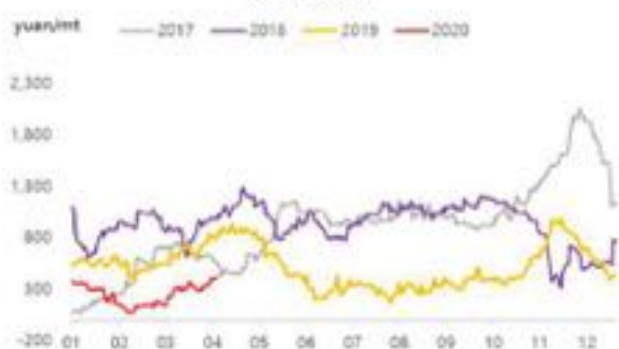
2. The cost refers to average cost in the industry based on SMM's survey of small, medium and large mills in China

## CHINESE STEEL MILL PROFITABILITY



## CHINESE STEEL MILL PROFITABILITY

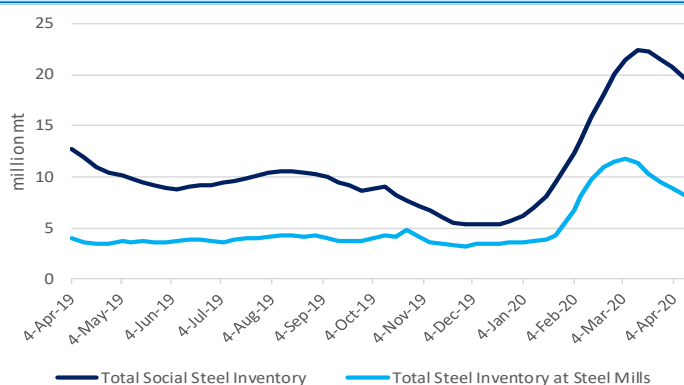
Rebar profits



Hot-rolled coil profits



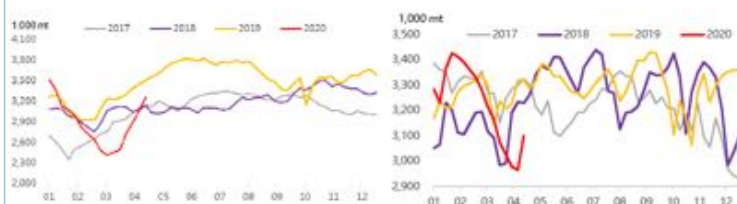
## CHINESE STEEL INVENTORIES



## CHINESE STEEL PRODUCTION

Weekly output of rebar

Weekly output of hot-rolled coil





IRON ORE INDEX SPECIFICATIONS, COMPILATION RATIONALE AND DATA EXCLUSIONS

Iron Ore Index Specifications (Port and Seaborne)					Iron Ore Index Compilation Rationale and Data Exclusions
Fe %	65% Fe Fines	62% Fe Fines	58% Fe Fines	62.5% Fe Lump	
Alumina %	65.00	62.00	58.00	62.50	
Silica%	1.40	2.25	2.25	1.50	
Phosphorus %	1.50	4.00	5.50	3.50	
Sulphur %	0.06	0.09	0.05	0.08	
Moisture %	0.01	0.02	0.02	0.02	
	8.00	8.00	9.00	4.00	
Sizing	Granular size below 10mm for at least 90% of cargo; maximum of 40% below 150 micron			Size below 6.3mm max 15% Size above 31.15mm max 25%	
Pricing Point	Qingdao Port (FOT and CFR respectively)			FOT Qingdao Port	
Timing (Seaborne)	Loading within 4 weeks, Delivery within 8 weeks			Delivery within 2 weeks	
Payment Terms	L/C at sight			L/C at sight or CAD	

MMi iron ore indices are compiled from data provided by companies that are part of the iron ore supply chain and involved in spot market transactions. The indices are calculated using detailed transaction-level data submitted to MMi by these companies. This data is normalised to the appropriate specifications and screened to remove outliers before volume-weighted average prices are calculated from the remaining core set of data.

For more details on MMi's iron ore methodology please download the guide published on our website at: [www.mmiprices.com](http://www.mmiprices.com)

Data Exclusions*			
	62%	58%	65%
Port Index	1	0	0
Seaborne Index	0		0
Lump Index 62.5	0		

\* Number of price submissions for iron ore indices that were excluded from index calculations today as they were anomalous and could not be verified

IRON ORE DOMESTIC CONCENTRATE INDEX CALCULATION METHODOLOGY

The compilation method for price index generally refers to the compilation method of CPI price index and other price indices, breakdown the price data and calculate the average value according to a certain method, taking the vertical axis as the regional composite index (average of different grade index) and the horizontal axis as the grade composite index (average of different regional index), a total composite index for domestic ore can be output ultimately. The process system is also adopted in the calculation i.e. each sub-index can be obtained as well.

AVERAGE IRON ORE SPECIFICATIONS APPLIED FOR BRAND PRICE ASSESSMENTS

PORT STOCK BRANDS						SEABORNE BRANDS					
April 17th, 2020	Specifications applied for 62% brand assessments						Specifications applied for 62% brand assessments				
	Fe	Alumina	Silica	Phos	Moisture		Fe	Alumina	Silica	Phos	Moisture
Roy Hill	60.70%	2.24%	4.89%	0.060%	9.33%	Roy Hill	60.70%	2.30%	4.90%	0.055%	8.00%
SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%	SIMEC Fines	60.00%	2.30%	6.30%	0.060%	6.00%
PB Fines	61.48%	2.35%	3.87%	0.101%	9.32%	PB Fines 62%	62.00%	2.60%	4.30%	0.090%	10.00%
Newman Fines	62.30%	2.35%	4.26%	0.083%	7.88%	Newman Fines	62.40%	2.20%	4.30%	0.080%	6.40%
MAC Fines	60.75%	2.34%	4.70%	0.076%	7.96%	MAC Fines	61.00%	2.70%	4.70%	0.110%	9.30%
Jimblebar Blended Fines	60.20%	3.16%	4.87%	0.114%	7.77%	Jimblebar Blended Fines	59.50%	3.70%	5.80%	0.135%	8.30%
Carajas Fines	65.31%	1.35%	1.55%	0.075%	8.21%	Carajas Fines	65.10%	1.50%	1.70%	0.080%	8.50%
Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%	Brazilian SSF	62.00%	1.00%	6.50%	0.040%	6.00%
Brazilian Blend Fines	62.82%	1.50%	4.63%	0.085%	8.40%	Brazilian Blend Fines	62.50%	1.50%	5.00%	0.070%	7.00%
RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%	RTX Fines	61.00%	3.10%	4.50%	0.135%	7.50%
West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%	West Pilbara Fines	60.10%	2.30%	4.70%	0.075%	8.50%
April 17th, 2020	Specifications applied for 58% brand assessments										
	Fe	Alumina	Silica	Phos	Moisture						
SSF	56.70%	3.09%	6.18%	0.061%	9.13%						
FMG Blended Fines	58.12%	2.65%	5.59%	0.058%	8.07%						
Robe River	56.31%	3.17%	5.64%	0.041%	9.10%						
Western Fines	57.88%	2.87%	7.50%	0.062%	7.45%						
Atlas Fines	58.00%	1.85%	5.50%	0.090%	9.00%						
Yandi	57.10%	1.57%	6.43%	0.034%	9.02%						

BLOOMBERG TICKERS

PORT STOCK INDICES			SEABORNE INDICES	
	FOT Qingdao (RMB/wet tonne)	CFR Qingdao Equivalent (USD/dry tonne)		CFR Qingdao (USD/DMT)
IOP162	IRCNO001	IRCNO004	IOS162	IRCNO034
IOP158	IRCNO002	IRCNO005	IOS165	IRCNO035
IOP165	IRCNO003	IRCNO006		
IOP162	IRCNO036	IRCNO037		

CONTACT US

MMi Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7629 E: [jarek@mmiprices.com](mailto:jarek@mmiprices.com)  
SMM Singapore Office Details: Level 28, Manulife Tower, 8 Cross Street Singapore. Tel: + 65 6850 7630 E: [service.en@smm.cn](mailto:service.en@smm.cn)  
SMM Shanghai Office Details: 9th FL, Building 9, Lujiazui Software Park, No.20, Lane 91, Pudong, Shanghai Tel: +86 021 5155 0306 E: [service.en@smm.cn](mailto:service.en@smm.cn)

Visit [www.mmiprices.com](http://www.mmiprices.com) for full index price histories and archive of daily reports

This information has been prepared by Metals Market Index ("MMI"). Use of the information presented here is at your sole risk, and any content, material and/or data presented or otherwise obtained through your use of the information in this document is at your own discretion and risk and you will be solely responsible for any damage to you personally or your company or organisation or business associates whatsoever which in anyway results from the use, reliance or application of such content material and/or information. Certain data has been obtained from various sources and any copyright existing in such data shall remain the property of the source. Except for the foregoing, MMi retains all copyright within this document. The copying or redistribution of any part of this document without the express written authority of MMi is forbidden.