MetalBulletin Events

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Commodity Trade Balance in Iran's Iron and Steel Markets



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Contents:

- What Quality and Quantity of Iron Ore is being produced in Iran?
- 2 To what extent are Beneficiation and Refining required?
- Where are Pellets Imports likely to come from to cover the Short Term Short Fall?
- Where are Lump, Fines and Concentrate currently being Exported to?
- 5 Conclusion

What Quality and Quantity of Iron Ore is being produced in Iran?

Iran Iron Ore Production by Sector

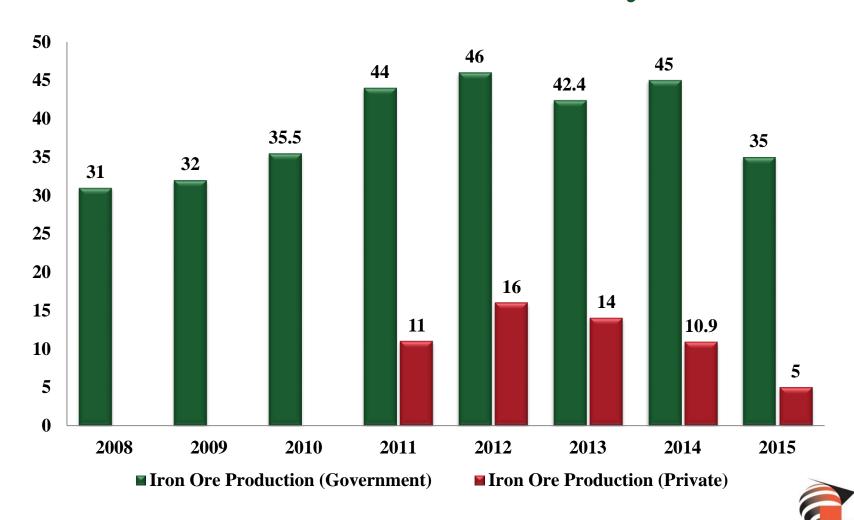


Figure 1: Iran Iron Ore Production by Sector

Steel Value Chain Upstream Capacity

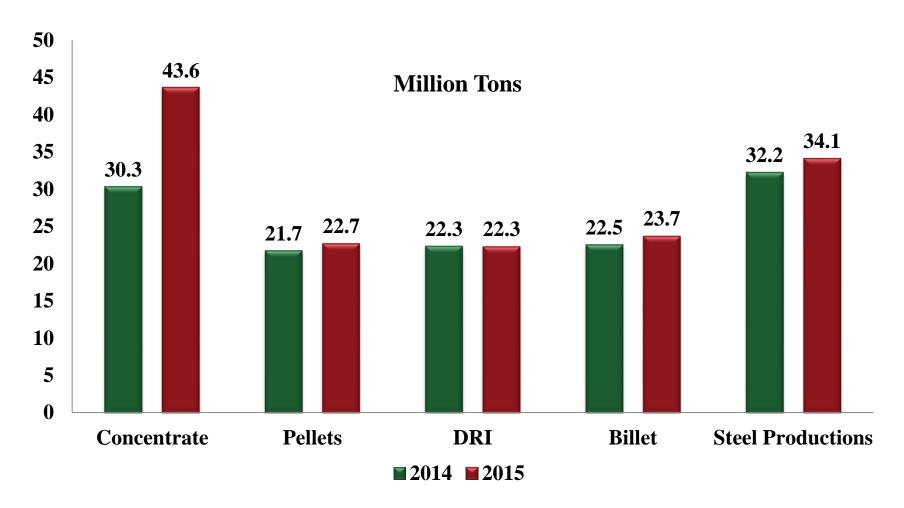


Figure 2: Steel Value Chain Upstream Capacity 2014 - 2015 Source: Iran Steel Comprehensive Plan, Foolad Technic Co.

Steel Value Chain Upstream Production

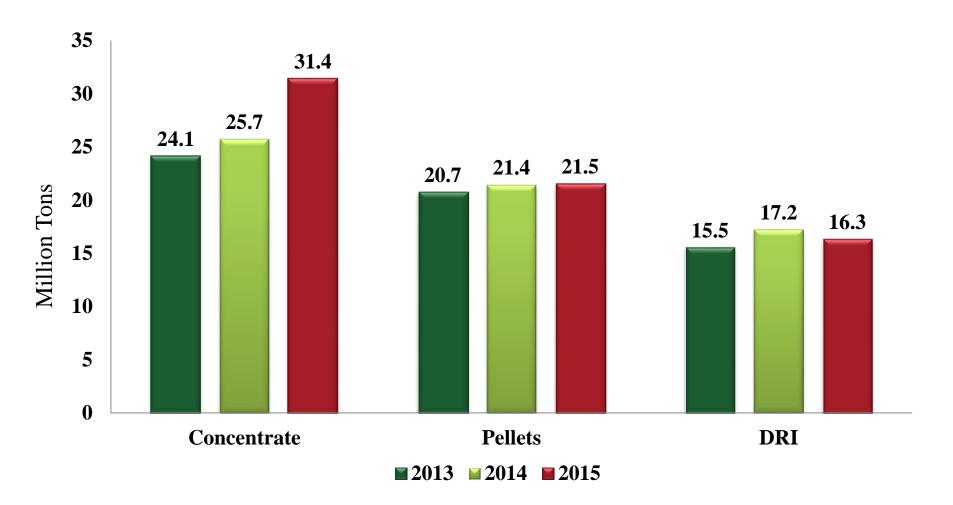


Figure 3: Steel Value Chain Upstream Production 2013 - 2015

Source: Iran Steel Comprehensive Plan, Foolad Technic Co.

6

Steel Value Chain Upstream 2016 vs. 2015

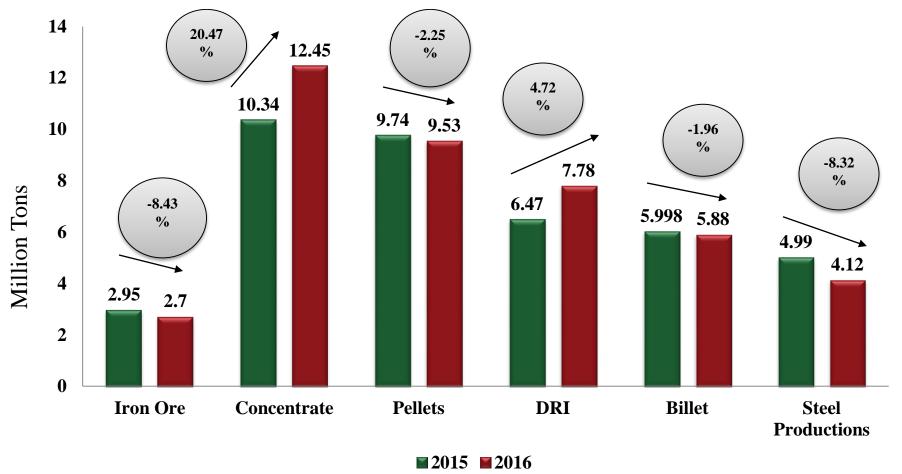


Figure 4: Steel Value Chain Upstream 2016 vs. 2015 (from March to August)



To what extent are Beneficiation and Refining required?

How Much Iron ore?

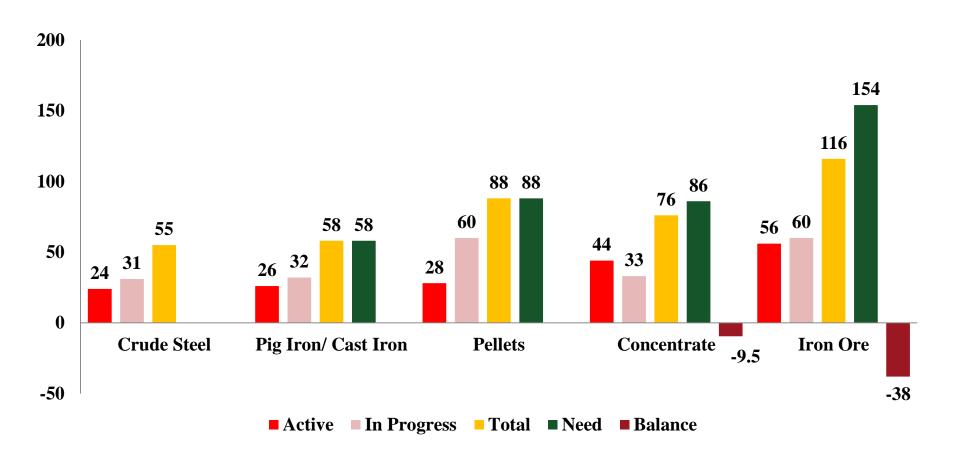


Figure 5: Steel Value Chain Requirements

9

Iran Iron Ore Reserve

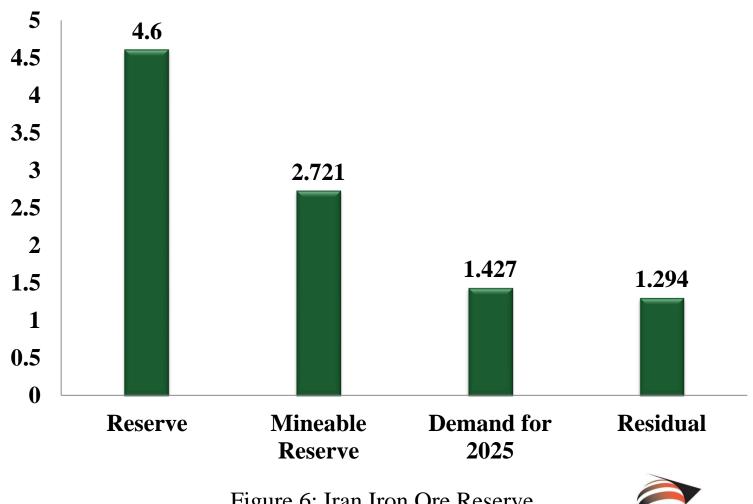


Figure 6: Iran Iron Ore Reserve

Iran Pellets Quality and Quantity

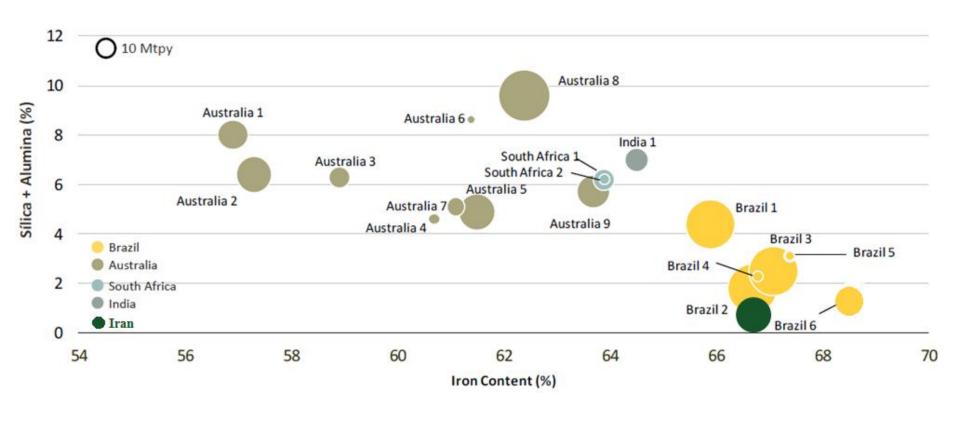


Figure 7: Iran Pellets Quality and Quantity

Iran New Pellets Facilities

No.	Activity	Production	Cumulative Physical
		Capacity	Progress
		(Mt)	(2016)
1	Gole-Gohar (Pelletizing Plant)	5	95 %
2	Foolade Sirjan Iranian (Pelletizing Plant)	2.5	92.7%
3	Foolad Khorasan (Pelletizing Plant)	2.5	86%
4	Sangan Iron Ore and Steel Co. (Pelletizing Plant)	5	79.63%
5	Madkoosh (Pelletizing Plant)	2.5	75.4%
6	Opal Parsian, Sangan Industrial and Mining Co.	5	54.75%
	(Pelletizing Plant)		
7	Foolad Shargh Kaveh Co. (Pelletizing Plant)	2.5	-
8	Foolad Botia Iranian (Concentration Plant)	2.5	83.5%
9	National Development Co. (Concentration Plant)	2.5	60.42%
10	Sabanour (Concentration Plant)	0.675	57.2%
11	Foolad Shargh Kaveh Co. (Concentration Plant)	2.5	27.26%
12	Sangan Iron Ore and Steel Co. (Concentration Plant)	5	21.80%



Where are Pellets Imports likely to come from to cover the Short Term Short Fall?

Pellets Consumer in the Region

Project Location

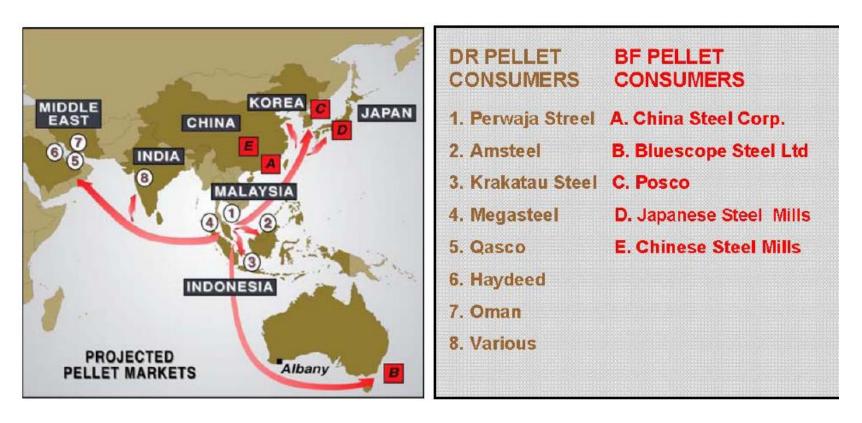


Figure 8: Pellets Consumer in the Region

Iran Pellets Import

- Essar Steel, having largest capacity of pellet production in India (6 Mt at Paradip and 8 Mt at Vizag), played major role in Indian Pellets export to Iran in 2014 and in 2015.
- Essar Steel ships high grade of Pellets (Fe 66%) to Iran.
- In 2014, out of the total Pellets exported from India, 70% (0.60 Mt via 12 shipments) was shipped to Iran in which Essar Steel was the largest exporter at 0.51 Mt via 10 shipments. The 1st cargo shipped on 07-Apr-14.
- In 2014, total 8 shipments and in 2015, total 10 shipments have been made to Iran. It means total 895,700 MT has been exported via 18 shipments up to 26-Jun-15 to Iran.

Iran Pellets Import

- From the beginning last Iranian Year (21st March, 2015), Iran removed export duty of iron ore concentrate and it's export started by Gol-e-Gohar Mining & Industrial Co. regularly.
- Then some negotiations have been happened in mid 2015 to export Gol-e-Gohar concentrate to KIOCL (Kudremukh Iron ore Company) to convert it to Pellets and import it again to Iran. It was likely a conversion concept, but the business didn't happen due to some payment limitations.

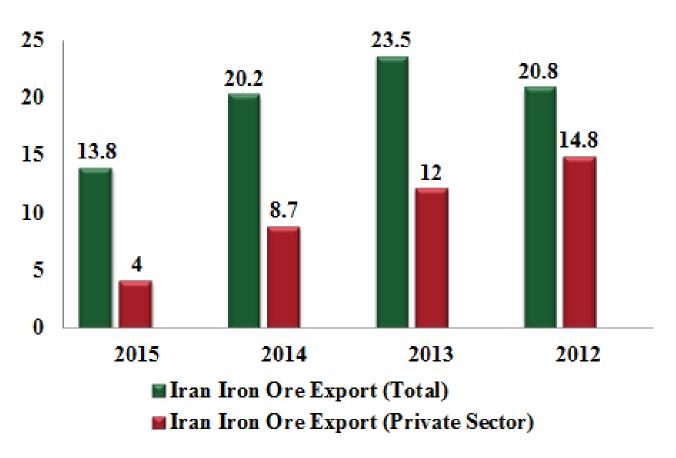
Iran Pellets Import

- KIOCL, which is strategically located at New Mangalore on the west coast of India, can serve Iran with least logistic cost.
- Finally 1 shipment of Pellets around 66,500 Mts has been supplied and shipped by KIOCL on 02-Jan-16. The grade of imported Pellets was 67%.
- The source of concentrate was from Minas- Rio Iron Ore Mine of Anglo American in Brazil.
- The above was the last imported Pellets shipment to the country.

Where are Lump, Fines and Concentrate currently being Exported to?

Iran Iron Ore Export

M Tone







Iran Iron Ore Export

(March to August 2016)	Volume (Million Ton)	Value (USD Million)
Iron Ore Export	7.329	287
Volume Growth Rate	67 %	-
Value Growth Rate	-	83%

Iron Ore Contribution in Iran Export in 2015: 7.4 %





Iran Iron Ore and Concentrate Export

Country	Iron Ore & Concentrate Export (%) 2015+2016
China	91%
Turkmenistan	1.40%
UAE	1.30%
Iraq	1.20%
Pakistan	1.00%
Turkey	0.80%
Qatar	0.60%
Czech Republic	0.50%
Slovenia	0.40%
India	0.30%
Germany	0.30%
Tajikistan	0.20%
Armenia	0.20%
Azerbaijan	0.10%
Ukraine	0.10%
South Africa	0.10%

Table 3: Iran Major Export in 2015 and 2016

(Source: Iran's Customs, 2016)

Status of Iran Iron Ore Export to China

Year	Iron Ore Exported to China (Million Tons)	Average Iron Ore Export Price USD/T
2013	23.5	106
2014	20.2	86
2015	13.8	44
JAN – AUG 2016 (8 Months)	10.6	50



Conclusions

Conclusions

- Due to reducing domestic steel consumption as well as starting 3 new projects of Pelletizing Plant by Gol-e-Gohar, Foulad-e-Sirjan Iranian and Sangan Iron Ore Companies, Iran becomes self-sufficient for importing Pellets anymore. The capacities of above projects are 5, 2.5 and 5 Million Tons, respectively.
- Both Gol-e-Gohar and Foulad-e-Sirjan Iranian fresh 7.5 Million Tons Pellets production come to the stream earlier than Sangan, during Q4 of 2016 and Q1 of 2017.

Conclusions

- Iran is planning to continue export of iron ore during the Q4 of 2016 and Q1 of 2017.
- Iran is studying to stop exporting of Iron Ore Fines & Lump from the beginning next Iranian Year (from 21/03/17 onwards), and just continue to export value-added products such as concentrate.
- Upon getting government approval to remove export duty of Pellets 15%, even there is chance that Iran start exporting 1-2 Million Tons Pellets by the beginning next Iranian Year. (from 21/03/17 onwards).



Thank You

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