





# **MOIL Limited**

A Government of India Undertaking

#### **CORPORATE PRESENTATION**



## **Agenda**



- 1 INDUSTRY OVERVIEW
- 2 WORLD MANGANESE SCENARIO
- 3 Indian Manganese Scenario
- 4 ABOUT MOIL
- 5 OPERATIONAL AND FINANCIAL PERFORMANCE
- 6 COMPANY STRENGTHS AND STRATEGIES
- 7 ACTIVITIES

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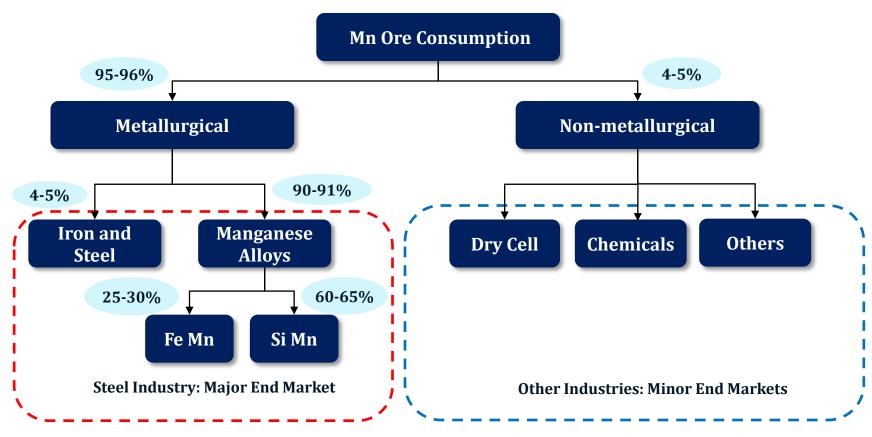
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#### **Manganese Ore - Uses**





- Around 90% of the Mn ore is used in production of Mn Ferroalloys. However, over last decade, the consumption in Si Mn alloys has been increasing vis-à-vis Fe Mn alloys
- Around 4-5% of consumption is for production of hot metal, during production of steel through blast furnace route. Another 4-5% is used in other industries such as dry cell (batteries), chemicals etc.

Source: Market Survey on Manganese Ore(IBM), October 2013

#### **Industry Overview**



- About 95% of the world's production of Manganese Ore is used directly or indirectly in steel making. Hence the demand of manganese ore is directly related to the production of steel.
- The average grade of manganese ore produced in India is low (Mn 32-33%). This necessitates imports of high grade manganese ore to blend with domestic quality of manganese ore for producing ferro/silico manganese required for steel industry. Besides above, India is also the highest exporter of silico manganese in the world.
- India's production of steel for 2015-16 is ~89.78 million tons for which the manganese ore requirement is approx. 3.04 million tons. However, the actual production of manganese ore during the said period was only ~1.90 million tons.
- In the last 3 years, there was surge in the world's production of manganese ore especially in South Africa. During 2015, the global production of manganese ore was 48.69 million tonnes.
- World production of steel reduced by 2.98% in 2015 (from 1647 Million Tonnes to 1598 Million Tonnes). Even after considering the consumption in steel industry with its increased production there was surplus availability of manganese ore by 2.12 million tonnes.

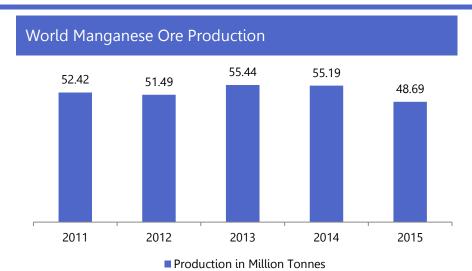
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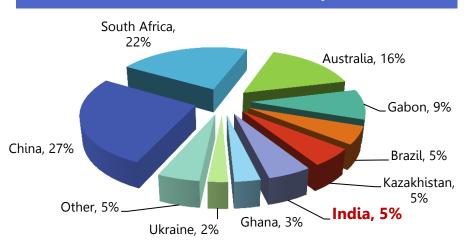
## **Manganese Ore | Global Environment**





Figures for Calendar Year, (Source: IMnI)

# World Manganese Ore Production – 2015\* China and India account ~32% of production



World's Country-wise Production of Manganese Ore			
Sr. no.	Country	Total Production*	
1	China	13.00	
2	South Africa	10.81	
3	Australia	7.60	
4	Gabon	4.41	
5	Brazil	2.60	
6	Kazakhistan	2.60	
7	India	2.55	
8	Ghana	1.51	
9	Ukraine	1.16	
10	Other	2.45	

(Source: IMnI) \*Qty in million tonnes – Calendar year 2015

Major Producers of Manganese Ore in respective countries			
Sr. no.	Country	Companies	
1	South Africa	BHP BILLTON, ASSAMG, UMK	
2	Australia	BHP BILLTON, CONSMIN	
3	Gabon	COMILOG	
4	Brazil	VALE	
5	Kazakhistan	ENRC	
6	India	MOIL	
7	Ghana	CONSMIN	
(Source: IMnI)			

(\*Figures for Calendar Year), Source: IMnI

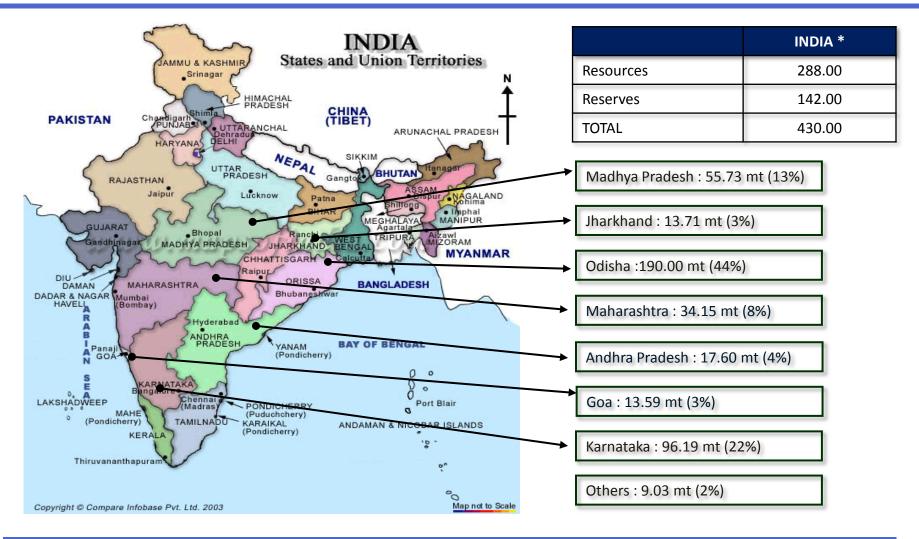
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#### Manganese Ore Reserves in India (in Million Tonnes)



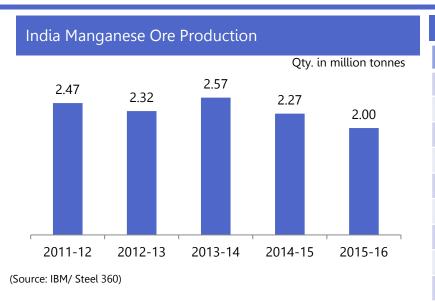


MOIL had Manganese Ore Resources of 49.72 mt and Reserves of 31.75 mt, totaling it to 81.47 mt as on April 1, 2016.

\* India as on 01.04.2010

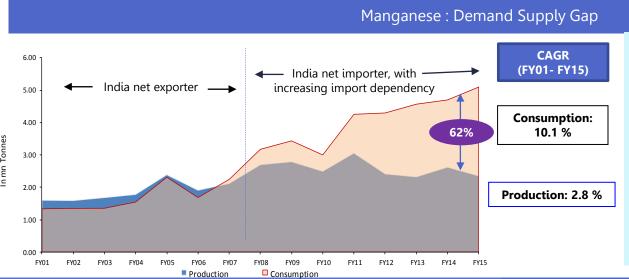
## **Manganese Ore | India Scenario**





State wise Production of Manganese Ore, 2015-16 (P)			
Sr. no.	States Quantity		
1	Andhra Pradesh	1,86,077	
2	Gujarat	38,223	
3	Jharkhand	508	
4	Karnataka	1,45,374	
5	Madhya Pradesh	763,302	
6	Maharashtra	614,481	
7	Orissa	388,637	
8	Rajasthan	3,457	
9	Telangana	6,892	

(P): Provisional; Source: IMnI

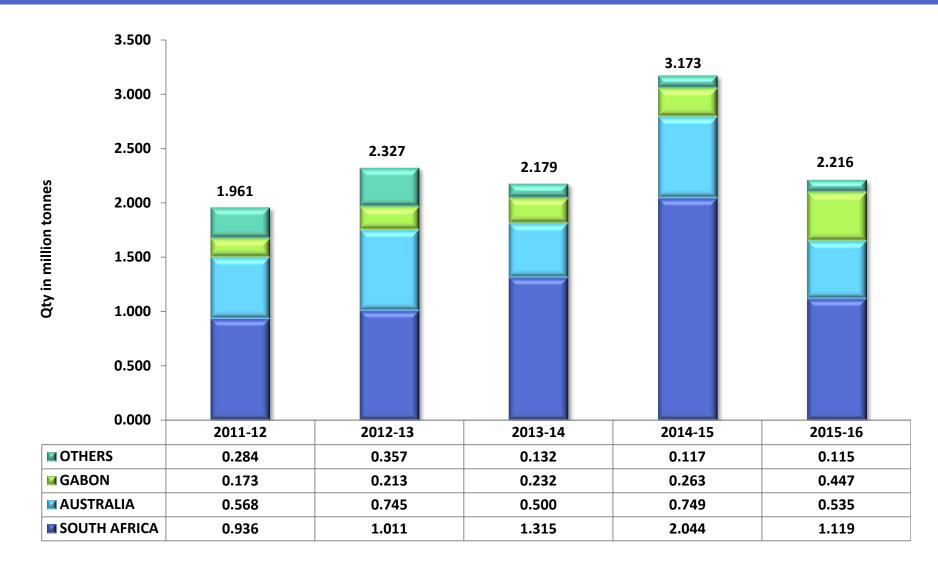


- The key demand drivers have been increasing steel production
- India has only 20% of high & medium grade reserves & the rest account for low grade ore reserves.
- With increasing demand for SiMn, the imports of medium grade ore (35-44% Mn) has increased.

Source: IBM

### Import of Manganese Ore in India | Country wise





Source: DGFT (Directorate General of Foreign Trade)

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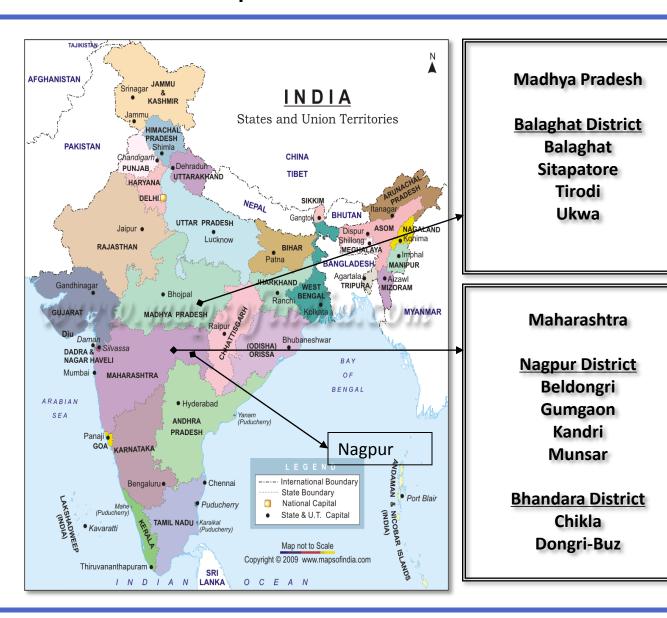
# **MOIL Limited – A Brief History**



Year	Milestone
1889	•Central Prospecting Syndicate was formed to prospect for manganese deposits. •The First Prospecting License was taken in 1899 at Munsar and work commenced in the same year
1908	<ul> <li>The Syndicate was converted in to a Public Company as Central Provinces Manganese Ore Company Limited (CPMO) incorporated in UK.</li> <li>Later, CPMO acquired mines in Nagpur, Bhandara and Balaghat districts.</li> </ul>
1962	<ul> <li>On 22<sup>nd</sup> June 1962, MOIL was incorporated by Government of India.</li> <li>Through an agreement between the Government of India and the CPMO, the assets were taken over by MOIL and as a result, CPMO held 49% shares and the rest was held by Government of India and the State Governments of Maharashtra and Madhya Pradesh.</li> </ul>
1977	•The Remaining 49% of shares were acquired by the Government of India from CPMO and MOIL became a 100% Government Company.
2010	•The Company got listed in Dec-2010 with divestment of 10% shares by Central Government and 5% each by State Governments of Maharashtra and Madhya Pradesh.
2014	•The Company got Schedule 'A' status in January -2014.

## **MOIL Limited | Location of Mines**





Road distance from Nagpur in Kms.			
Balaghat	217		
Sitapatore	156		
Tirodi	146		
Ukwa	254		
Beldongri	40		
Gumgaon	35		
Kandri	42		
Munsar	45		
Chikla	116		
Dongri	122		

#### **Board of Directors**



Shri M P Chaudhari, Chairman-cum-Managing Director A Qualified Chartered Accountant appointed on Board in August 2012. He started his career with M/s Bajaj Steel Industries Limited as a Accounts Officer and has worked in other private sector companies before joining MOIL in December, 1997 as Manager (Finance). He has more than 27 years experience in the field of finance, accounts and taxation.

Shri T. K. Pattnaik,
Director (Commercial)

Holds B.A. (Honours), M.A. (Pol. Sci.), M.A. (Pub. Admn.) .He has worked on various key position in SAIL up to the position of General Manager. He also worked with Govt. of India as Dy. Development Commissioner for Iron & Steel on Reverse Foreign Services upon recommendations of UPSC between 1988- 1990.

Ms. Urvilla Khati, Govt. Of India – Nominee Director Holds M.A., M. Phil. (International Politics), M.Phil. (Social Science) Master's Diploma in Public Administration, MBA (Australia). She is on the Board of MOIL since November, 2011. Has extensive experience in various administrative posts. Previously, worked as Joint Secretary in Ministry of Water Resources, RD & GR, Govt. of India and JS equivalent in Ministry of Railway.

Dr. A K Lomas, Independent Director Holds .B.Sc. Engineering (Mech), Dip. T&D, MBA (Fin), PhD (Mgmt.), LL.B., Professional Engineering (India), MICA. He has vast knowledge of Exploration & Mining, and Deep Drilling & Production, HEMM, Construction & Mining equipment management and Human Resource. He worked on various prominent positions such as SO (Mech.)- PWD IB Haryana Government, Executive Engineer-Coal India Ltd., Executive Director- NHPC Ltd. and retired as CMD- Mineral Exploration Corporation Ltd.

**Note:** Shri M P Chaudhari has also been assigned with additional charge of the post of Director (Finance), for a period of three months w.e.f September 2016, or till regular incumbent joins the post, or unit further order, whichever is the earliest. Further, Shri T.K. Pattnaik has also been assigned with additional charge of the post of Director (Production and Planning), for a period of three months w.e.f November 01 2016, or till regular incumbent joins the post, or unit further order, whichever is the earliest

#### **Board of Directors**



Shri G S Grover, Independent Director\* Holds B.E. (Electrical), 1970 First Class with Honors PGDIP Education IIT, Delhi. 1971 First Class First. He has worked as Sr. DDG (Vigilance) & CVO and Member (Services) Telecom Commission & Ex. Off. Secretary to Government of India, Department of Telecom, Ministry of Communication & IT, New Delhi, Director (Commercial & Marketing) BSNL Board, New Delhi. He has vast knowledge in the field of telecommunications, vigilance, personal management, and administration.

Smt. Sunanda Prasad, Independent Director\* Holds B.A. (Honors), M.A. (Human Geography). She is a retired IAS Officer of 1974 Batch of Uttar Pradesh Cadre. She holds various positions such as Chairperson of Board of Revenue, Lucknow, Principal Secretary of various departments of Government of Uttar Pradesh, Managing Director, Financial Corporation, Kanpur, Commissioner and Administrator Ramganga Area Development Project, Kanpur, Chairperson U.P. Small Industries Corporation, Kanpur and various other positions.

Shri J P Dange, Independent Director\* Holds M.Sc. (PG Diploma), MBA, LLB. He is a Retired IAS Officer and has worked at various positions like Secretary, Principal Secretary, and Additional Chief Secretary to Government of Maharashtra. He also held the position of Managing Director of Maharashtra State Seed Corporation. He has vast knowledge of Mining, Administration, Management, Legal, Finance and Labour etc.

Ms. Sangita Gairola, Independent Director

Holds B.A. (Hons), M.A. She is a retired I.A.S. officer of 1977 Batch (Raj. Cadre). She had served as an I.A.S. officer in the State Govt. of Rajasthan in various capacities like Secretary, Dept. of Women and Child Development Principal Secretary, Dept. Tourism, Art & Culture, Chief Electoral Officer and also served in Govt. of India as Joint Secretary, Ministry of Home Affairs, Addl. / Spl. Secy., Ministry of Social Justice & Emp., Secretary, Ministry of Culture, Secretary, Ministry of Defense (D/o ESW). She possesses work experience of administration and management.

Note: Term of the Director are ending on November 17, 2016

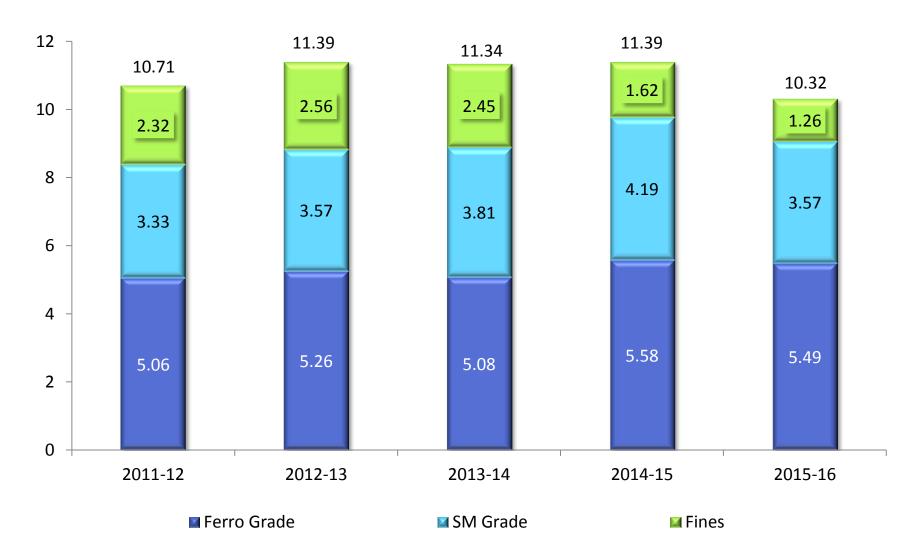
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### **Production of Manganese Ore (in Lakh Tonnes)**

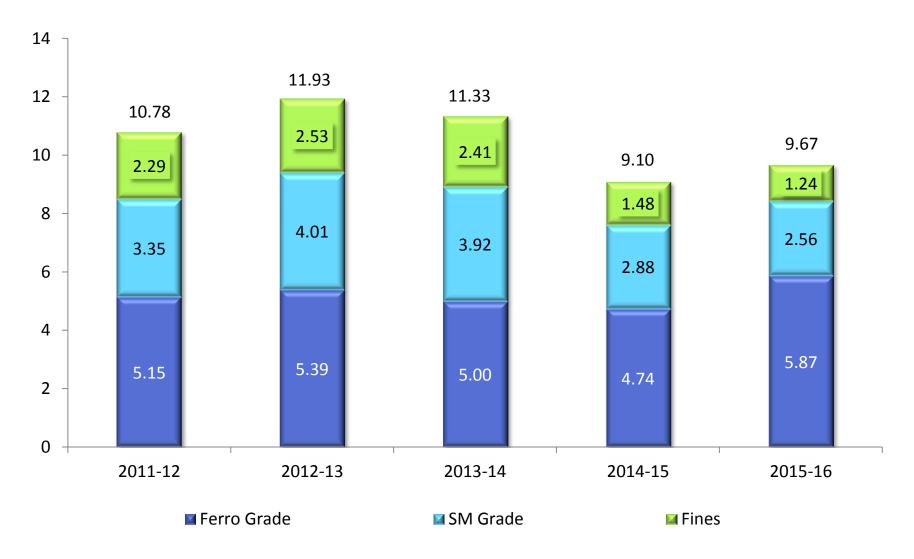




Aforesaid information is for Financial year

## Sale of Manganese Ore (in Lakh Tonnes)

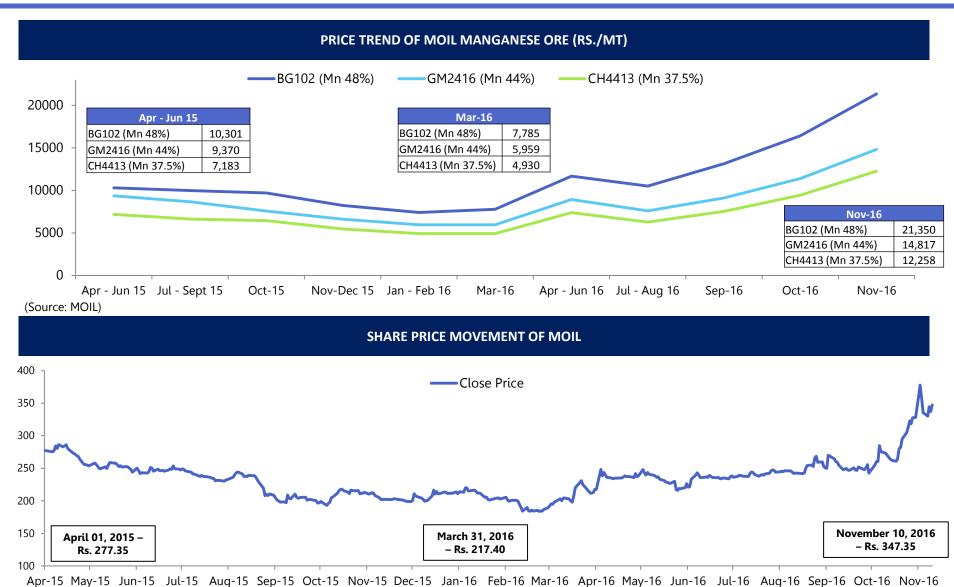




Aforesaid information is for Financial year

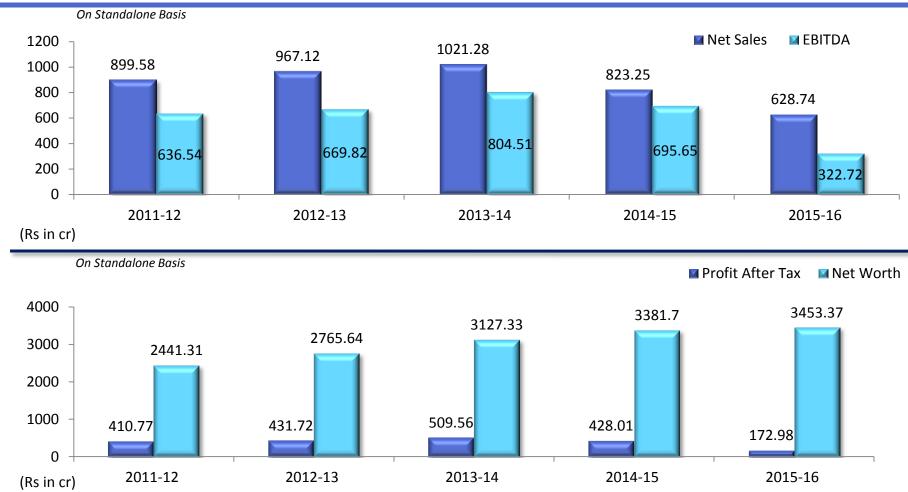
#### **MOIL Manganese Ore Price relation with Share Price Movement**





#### **Financial Snapshot - Annual Trends**



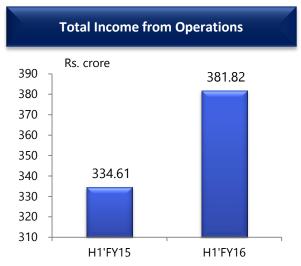


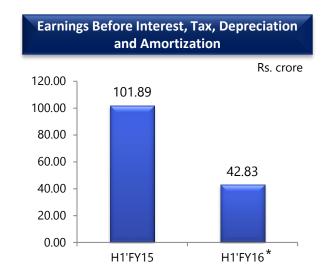
Despite reduction in Manganese ore prices by about 50% between Jan 2015 and March 2016, MOIL has been able to restrict the reduction in average sales realisation to only 28%, which has been possible due to higher production and sales of high grade ores. The improved product mix has enabled the company to register profits.

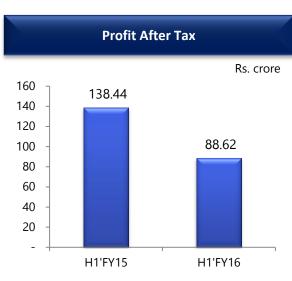
#### Financial Snapshot - Half Year | FY17



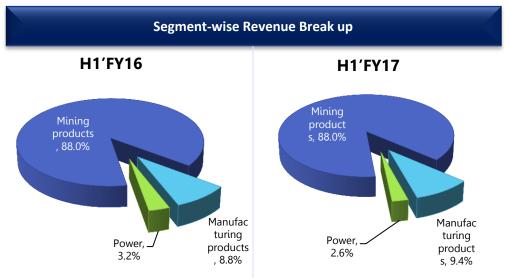
Standalone un-audited financials







\*Exceptional item has been considered for calculation of EBITDA



- The Company has adopted IND-AS from April 01, 2016.
- Reduction in profits mainly due higher sale of low grade ores, accumulated in previous year, during the period
- Company has also completed the Buyback process in accordance with Securities & Exchange Board of India (Buy Back of Securities) Regulations, 1998, on October 07, 2016 which was approved by Board of Directors in the meeting dated June 07, 2016. Consequently, the paid up share capital stands reduced to Rs. 133.19 crore and general reserve at Rs. 2,542.92 crores

#### **Dividend Paid**



Years	Total equity capital as on 31 <sup>st</sup> March	Total dividend paid (₹ in Crores)	Total dividend as % age of total equity	Total dividend as %age of PAT (Payout)	
2011-12	168.00	84.00	50%	20.45%	
2012-13	168.00	92.40	55%	21.40%	
2013-14	168.00	126.00	75%	24.73%	
2014-15	168.00	142.80	85%	33.36%	
2015-16	168.00	84.00	50%	48.56%	
Total (5 Years)		529.20			

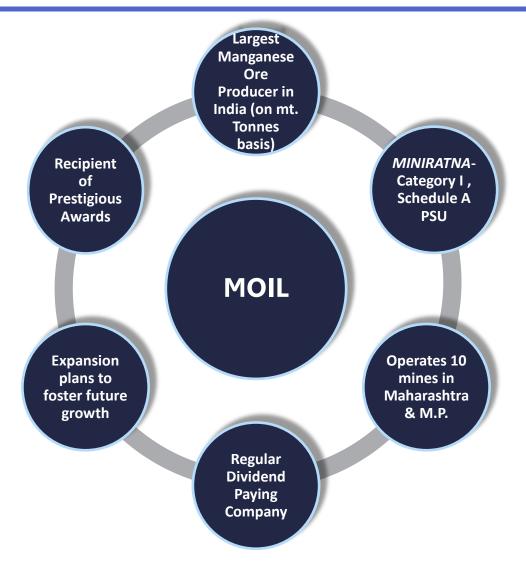
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#### **Key Strengths**





Source: Indian Bureau of Mines (http://ibm.nic.in/writereaddata/files/07142014124825Market%20Survey\_Manganese%20Ore.pdf)/http://ibm.gov.in/writereaddata/files/07092014125652IMYB\_2012\_Manganese%20Ore.pdf

#### **Competitive Strengths & Key Business Strategies**



#### **Competitive Strengths**

Largest producer of manganese ore in India with access to significant reserves

Well positioned to capture the growth potential of the Indian steel industry

Track record of growth and efficient operations

Strategic location of our mines provides us with competitive advantages

Strong track record of financial performance

Strong capabilities for exploration, mine planning and research development

Experienced senior management and large pools of skilled manpower

#### **Key Business Strategies**

Maintain our leadership position in India and continue to increase production levels at our existing mines to capitalize on expected growth of the Indian steel sector.

Engage in exploration through our extensive lease holdings to prove additional reserves

Achieve higher forward integration to capture additional margin

Continue to increase margins, efficiency, profitability and control costs

Continue our focus on developing environmentally friendly and socially sustainable operations

#### **Additional Activities**



#### Non-Conventional Source of Energy

- MOIL has installed wind farms for captive power requirement and to promote non-conventional energy resources. The present capacity is 20 MW.
- MOIL is planning to setup 10.5 MW Solar Power Plant at mines in Madhya Pradesh and Maharashtra

#### Exploration and Prospecting works in Madhya Pradesh

- MOIL has signed Memorandum of Understanding (MoU) jointly with Government of Madhya Pradesh, Mineral Resources Department and Madhya Pradesh State Mining Corporation Limited ('MPSMCL'), to conduct exploration and prospecting works by MOIL in Madhya Pradesh.
- MoU also envisages formation of a Joint Venture Company between MOIL (51%) and MPSMCL (49%), in case of availability of ore is proved, in any area.
- MoU is aimed at increasing the mineral resources in Madhya Pradesh

#### **Strategic Management Plan: 2030**



- ➤ Taking into consideration anticipated growth in steel production and, as a result, increase in requirement of manganese ore, the company has prepared Strategic Management Plan (SMP) covering a period upto 2030.
- ➤ The SMP envisages availability of MOIL's ore at a level of 3.00 million MT by 2030.
- In this direction, several shaft sinking and deepening projects have been completed and has some ongoing and planned projects.

# **Capital Projects | Ongoing projects**



S. No.	New Projects	Capex (in Cr.)	Expected year of completion
1.	Deepening of Holmes shaft from 12 <sup>th</sup> Level to 16.5 Level	28.30	2016-17
2.	Sinking of 2 <sup>nd</sup> vertical shaft at Chikla mine. The shaft diameter is 4.5 meters, having a depth of 160 meters.	48.70	2018-19
3.	Deepeninig of vertical shaft at Kandri mine by 57 mtrs.	14.82	2018-19
4.	Sinking of 2 <sup>nd</sup> vertical shaft at Munsar mine. The shaft diameter is 4.5 meters, having a depth of 160 meters.	51.32	2019-20
5.	Sinking of 2 <sup>nd</sup> vertical shaft at Ukwa mine. The shaft diameter is 5.5 meters, having a depth of 324 meters.	77.15	2020-21

#### Recently approved mining projects



#### Sinking of high speed vertical shaft at Balaghat Mine

- The high speed shaft involves Capex of Rs. 265.96 Cr.
- The total production from the mine is likely to touch 0.6 mn MT from 0.3 mn MT.

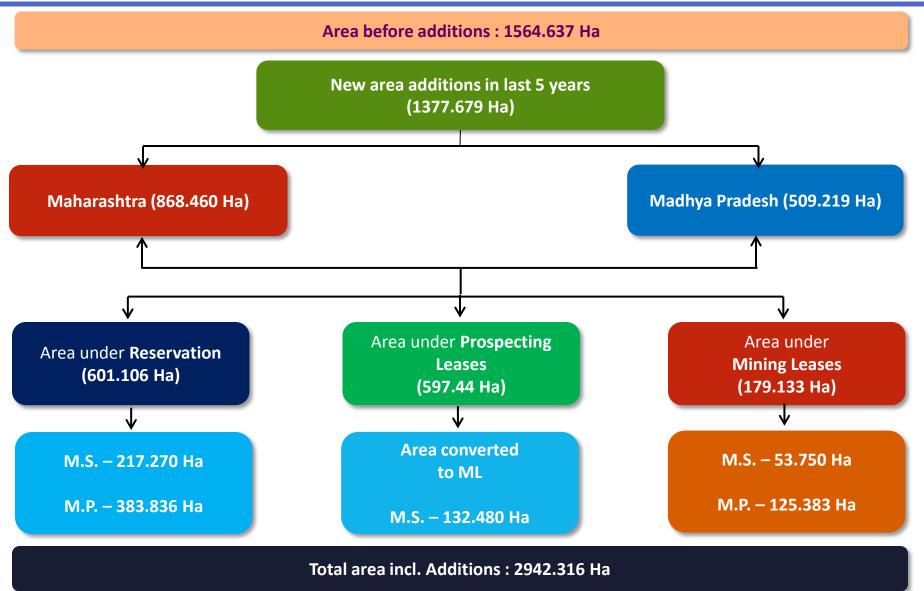
#### Sinking of high speed vertical shaft at Gumgaon Mine

- The high speed shaft involves Capex of Rs. 194.92 Cr.
- The total production from the mine is likely to touch 0.14 mn MT from 0.07 mn MT.

The Mining Projects recently completed/taken up/recently approved/envisaged by the Company will help in sustaining as well as increasing production to a level of 2.00 million MT by 2020.

#### **MOIL | New Area Development**





Source: Stock Exchange Filings and MOIL's Annual Report(s).

M.S: Maharashtra, M.P.: Madhya Pradesh

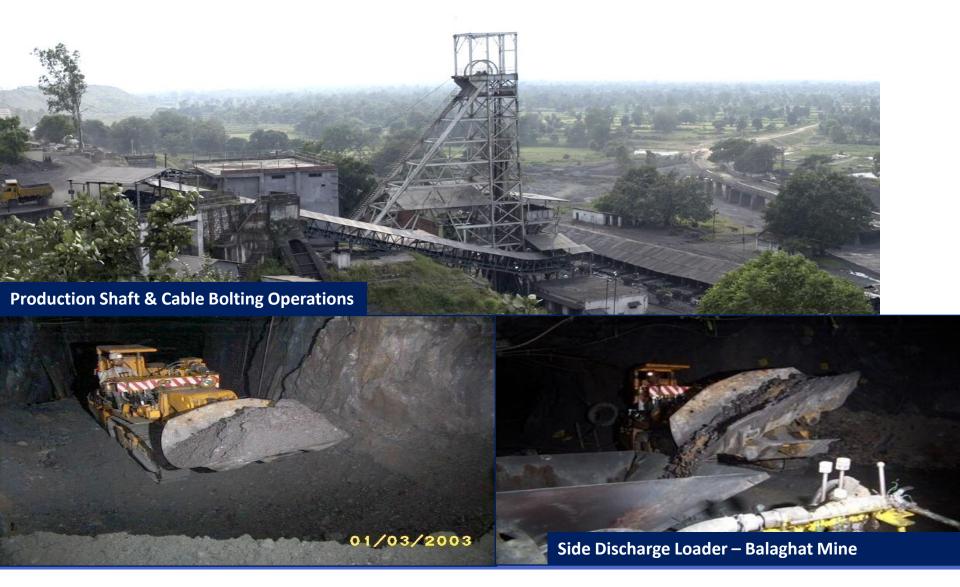
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# **Underground Mining Operations**





# **Opencast Mining Operations**





# Introduction of Mechanization in UG/OC Mines





#### Value Addition – EMD (Dongri Buzurg) and FM Plant (Balaghat)



❖ The Plant was installed through in-house R&D and the EMD produced is of good quality. MOIL'S EMD is well established in the market. The plant Capacity is 1000 TPA. The Plant has bagged PRESIDENT OF INDIA NATIONAL ENERGY CONSERVATION AWARD IN 2006 & 2007.



❖ The Ferro Manganese Plant is located at Balaghat in Madhya Pradesh. This is the only pit head plant in the country. The Capacity of the Plant is 10000 tpa and produces Ferro Manganese of very high quality comparable to international standards.



#### Value Addition through beneficiation and Wind Farm



- The Company has successfully commissioned in September 2007, a 500,000 TPA state of the art Integrated Manganese Ore Beneficiation Plant with most modern fully computerized bottom air pulsated jigs.
- The Plant is the first of its kind in India for manganese ore beneficiation. The entire ROM produced from Balaghat Mine is handled through the Plant.



❖ MOIL is one of the first Public Sector Company in the country to install wind farms for captive power requirement and to promote non-conventional energy resources. The present capacity is 20 MW (2006-07).







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