



# Catalyzing India's Growth With a Steely Resolve



Memorandum of Understanding (2015-16)  
between  
Ministry of Steel  
and  
Steel Authority of India Limited

**MEMORANDUM OF  
UNDERSTANDING  
(MOU)**

**2015-16**

**MINISTRY OF STEEL  
AND  
STEEL AUTHORITY OF INDIA LIMITED**

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## **1. Mission/Vision & Objectives of the SAIL:**

### **1.1 MISSION/VISION:**

The vision of SAIL is as follows:

**“To be a respected world class corporation and the leader in Indian steel business in quality, productivity, profitability and customer satisfaction”.**

Apart from vision, SAIL has the following Credo:

- ❖ We build lasting relationships with customers based on trust and mutual benefit.
- ❖ We uphold highest ethical standards in conduct of our business.
- ❖ We create and nurture a culture that supports flexibility, learning and is proactive to change.
- ❖ We chart a challenging career for employees with opportunities for advancement and rewards.
- ❖ We value the opportunity and responsibility to make a meaningful difference in people's lives.

### **1.2 OBJECTIVES:**

To achieve the Vision, SAIL has drawn a directional growth plan, the same is under advance stage of implementation. The major goals/ objectives of the plan are:

- To continue to be mainly in the business of Steel and Steel related activities
- To protect Market Share and grow by focusing on increasing share in growth segments
- To achieve a production capacity of 21.4 MTPA of Crude Steel after modernisation
- To improve profits by Cost reduction and producing value added products

- To introduce technology interventions to maximize production through the BF-BOF-CC route and reduction in semis.
- To strive for excellence at international level in key techno-economic parameters like Blast Furnace productivity, Coke Rate and Specific Energy consumption.
- To aim at excellence in quality across the value chain
- To ensure availability of key raw material
- To build Customer Centric Processes, Systems, Structure and Procedures
- To address infrastructure and other issues, which affect long term growth of the company
- To maintain Financial Health with rational investment and controlled borrowing. Capital expenditure primarily funded by internal accruals, supplemented by market resources.
- To carry out interventions to achieve all round functional improvements – Marketing, Human Resources, Infrastructure & Utilities, Maintenance, Information Technology, Environment and Safety management etc.
- To ensure competitive edge of SAIL through wide distribution network of its finished products by broad basing distribution points.
- To ensure better Environment compliance and improved safety, aiming for zero fatal accidents.
- To aim at achieving international/ national benchmarks on production cost and consumption ratios especially in new units with due allowance for prevailing conditions, technology, facilities, inputs etc.
- To remain socially responsible company by committing certain amount of profit towards society in the areas of peripheral development, education, health, sports, family welfare etc.

## 2. Commitments/ Assistance from the MOS

Ministry of Steel will assist/ help SAIL through coordination with other Government agencies in the following areas.

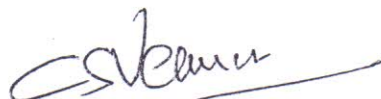
- Ministry of Steel will assist SAIL in the areas as given at **Annexure-VII**.
- Ministry of Steel will also help SAIL in ensuring adequate availability of wagons as given in **Annexure-VIII**.


### 3. Performance assessment Targets and their determination

Performance Evaluation Parameters and assessment targets for 2015-16 are indicated at **Annexure-I** while **Annexure-II** indicates MOU – Project Milestones of SAIL Plants during 2015-16. Trend of Performance on financial parameters is at **Annexure III**. Calculation of Gross Operating Margin is at **Annexure IV**. Trend of Performance on non- financial parameters is at **Annexure V**. Self Certification for financial parameters is at **Annexure VI**.

### 4. Action plan for implementation and monitoring of the MOU

To achieve the objectives of the MOU, both sides shall review the performance periodically.

  
[ C.S.Verma ]  
**Chairman**  
**Steel Authority of India Ltd.**

  
30/3/15  
[Rakesh Singh]  
**Secretary**  
**Ministry of Steel**

MOU Approved by SAIL  
Signed 

**List of Annexure**

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MOU 2015-16

	<b>Evaluation Criteria</b>	<b>Unit</b>	<b>Weight (%)</b>	<b>Excellent (5)</b>	<b>V.Good (4)</b>	<b>Good (3)</b>	<b>Fair (2)</b>	<b>Poor (1)</b>	<b>Documentary evidence and source/ origin of documents</b>
<b>Static/ Financial Parameters</b>									
<b>Growth / size</b>									
1.	<i>Sales turnover net of excise</i>	Rs. Crore	8	52261	50636	47944	45537	43301	Annual Report / Internal approvals
2.	<i>Gross operating margin</i>	Rs. Crore	12	5226	5064	4794	4554	4330	Annual Report / Internal approvals
3.	<b>Profitability</b> <i>EBIT/ Average Capital Employed</i>	%	10	8.5	8.1	7.5	7.0	6.6	Annual Report / Internal approvals
4.	<b>Costs &amp; Output Efficiency</b> <i>Sales turnover/ Net Block</i>	%	8	106.9	104.2	99.0	94.3	89.9	Annual Report/ Internal approvals
5.	<b>Efficiency of Asset Use</b> <i>Average No. Days of Inventory (365/Inventory turnover Ratio)</i>	No. of days	5	140	145	153	161	169	Annual Report/ Internal approvals
6.	<i>Average Collection Period Of Trade Receivables (Debtors Turnover Ratio)</i>	No. of days	6	36	37	38	39	40	Annual Report / Internal approvals
7.	<i>Reduction in Contingent Liability</i>	Rs. Crore	1	50	40	30	20	10	Annual Report
<b>Dynamic/ non financial Parameters</b>									
8.	<b>Research &amp; Development</b>								
	<i>Improvement in performance of SP #3 through optimization of process parameters, RSP, Mar'16</i>	Improvement in yield of sinter	3	2.0%	1.75%	1.5%	1.25%	1.0%	RDCIS report approved by plant
9.	<b>Initiatives for Growth</b>								
(i)	<i>Retail Sales</i>	Million Tonnes	5	0.60	0.55	0.50	0.475	0.45	Internal approvals
(ii)	<i>Coal Dust Injection (CDI Furnaces only)</i>	Kg/THM	2	60	58	56	54	52	Internal approvals



Steel Authority of India Limited

	<b>Evaluation Criteria</b>	<b>Unit</b>	<b>Weight (%)</b>	<b>Excellent (5)</b>	<b>V.Good (4)</b>	<b>Good (3)</b>	<b>Fair (2)</b>	<b>Poor (1)</b>	<b>Documentary evidence and source/ origin of documents</b>
<b>10.</b>	<b>Project Management &amp; Implementation</b>								
(i)	Milestone Performance Index for Projects as per Annexure II		4	500	400	300	200	100	Internal approvals
(ii)	Capital Expenditure	Rs. Cr.	6	7500	6500	6000	5500	5000	Annual Report
<b>11.</b>	<b>Productivity &amp; Internal Processes</b>								
(i)	Labour Productivity	TCS/ Man/year	3	300	295	290	285	280	Annual Report
(ii)	R&D Expenditure as % of turnover net of excise	%	1	0.3	0.25	0.20	0.15	0.10	Annual Report
(iii)	BF Productivity	T/M <sup>3</sup> /Day	1	1.6	1.55	1.50	1.45	1.40	Annual Report / Internal approvals
(iv)	Coke Rate	Kg/THM	3	510	512	515	518	520	Internal approvals
<b>12.</b>	<b>Technology, Quality, Innovative practices</b>								
(i)	Development of new products	No. of Products	5	24	22	20	18	16	Minutes of Steering Committee on Product Development
(ii)	E- procurement as % of total procurement	%	3	35	33	31	29	27	Internal approvals
<b>13.</b>	<b>Human Resource Management</b>								
(i)	<b>Training of Employees</b>								Internal approval
a	Training of EDs/GMs (20%)	% fulfillment	1	100%	80%	60%	50%	40%	
b	Training of Middle & Lower Management (20%)	% fulfillment	1	100%	80%	60%	50%	40%	
c	Skill Development – Workers (15%)	% fulfillment	1	100%	80%	60%	50%	40%	
d	No. of Executives to be covered under ‘ Project Management Implementation & Certification’ Program	No. of Executives	2	50	45	40	35	30	

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	<b>Evaluation Criteria</b>	<b>Unit</b>	<b>Weight (%)</b>	<b>Excellent (5)</b>	<b>V.Good (4)</b>	<b>Good (3)</b>	<b>Fair (2)</b>	<b>Poor (1)</b>	<b>Documentary evidence and source/ origin of documents</b>
<b>14.</b>	<b>Sector Specific Parameter/ Enterprise Specific Parameter</b>								
(i)	Concast Production	Million Tonnes	3	11.00	10.8	10.70	10.60	10.50	Internal approvals
(ii)	Meeting 100% requirement of iron ore from captive mines	%	2	100	95	90	85	80	Internal approvals
(iii)	Specific energy consumption	Gcal/TCS	1	6.50	6.52	6.55	6.57	6.59	Internal approvals
(iv)	Specific Water Consumption for 4 ISPs excluding IISCO Steel Plant	M <sup>3</sup> /TCS	1	3.62	3.65	3.68	3.71	3.74	Internal approvals
(v)	CO <sub>2</sub> Emission for 4 ISPs excluding IISCO Steel Plant	T/TCS	1	2.60	2.63	2.66	2.69	2.72	Internal approvals
(vi)	Reportable Loss Time Injury Frequency Rate (RLTIFR) (no. of reportable accidents per million manhours)	%	1	0.25	0.28	0.31	0.34	0.37	Internal approvals

Financial impact of MMDR Amendment Ordinance 2015 considered at the rate of 35.33% only. If the impact is more than 35.33%, the Financials will undergo a revision at the time of MOU Evaluation.

CSR is not a parameter of MOU 15-16. However, Company will incur expenditure as per the provision of Companies Act 2013 (i.e. minimum 2% of the average PBT for the last 3 preceding years.)

## MOU 2015-16 : PROJECTS MILESTONES OF SAIL PLANTS

Plant	S No.	Milestone	WEIGHT AGE	LEVEL-1	LEVEL-2	LEVEL-3	LEVEL-4	LEVEL-5
			(X)	5	4	3	2	1
<b>BSL</b>	1	Expansion of Bokaro Steel Plant	20	May'15	Aug'15	Oct'15	Nov'15	Dec'15
<b>RSP</b>	2	Installation of Additional. Heat Treatment Facilities in SPP	15	Jun'15	Oct'15	Dec'15	Jan'16	Feb'16
	3	Rebuilding of COB-3	10	Aug'15	Oct'15	Dec'15	Feb'16	Mar'16
<b>DSP</b>	4	Rebuilding of COB-5	10	Jun'15	Oct'15	Jan'16	Feb'16	Mar'16
<b>BIOM</b>	5	Enhancement of production at Bolani Iron Ore Mines	10	Jun'15	Sep'15	Jan'16	Feb'16	Mar'16
<b>CFP</b>	6	Installation of 45 MVA SAF with associated facilities	10	Aug'15	Dec'15	Jan'16	Feb'16	Mar'16
<b>BSP</b>	7	Expansion of Bhilai Steel Plant - Completion of BF No.8	10	Sep'15	Dec'15	Jan'16	Feb'16	Mar'16
	8	Cold Repair of COB-9	10	Jun'15	Oct'15	Jan'16	Feb'16	Mar'16
	9	Development of permanent Barracks at 21 locations at Rowghat Deposit *	5	Apr'15	Sep'15	Nov'15	Jan'16	Mar'16
		Total	100					

Last date of month has been taken wherever month has been mentioned.

**Methodology:**

**Factor: EXCELLENT :5 , VERY GOOD: 4 , GOOD: 3 , FAIR: 2 , POOR: 1**

**Score for individual milestone: Weight X factor for level achieved**

**Total score is summation of all the scores achieved against each milestone.**

## Trend of Performance on Financial Parameters

Particulars	Basis	2010-11		2010-11		2011-12		2011-12		2012-13		2012-13		2013-14		2013-14		2014-15		2014-15		2015-16		
		Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	Incl.MEL	SAIL	
<b>Profit &amp; Loss Statement Items</b>																								
Gross Sales	Rs. Cr.	43000	47041	44650	50348	46650	50348	44650	50348	50555	49350	56459	51866	56245	37740	50646	56760							
Excise Duty	Rs. Cr.	3182	4322	4055	4694	4055	4694	4055	4694	4607	5389	6212	5677	5994	4002	5391	6125							
Sales Turnover, excluding int & other Income (Operating Turnover) Net of Excise Duty, Custom Duty, VAT, etc.	Rs. Cr.	39818	42719	40595	45654	40595	45654	40595	45654	45948	43961	50247	46189	50250	33739	45255	50636							
Interest & Other Income	Rs. Cr.	1896	2075	1485	2311	1485	2311	1485	2311	1125	1602	786	1391	1034	1107	1278	751							
Gross Operating Margin Rate %	%		17.46%		12.86%		12.86%		12.86%		11.84%	10.00%	10.29%	10.97%	12.28%	11.24%	10.00%							
Gross Operating Margin	Rs. Cr.		7459		5869		5869		5869		5204	5051	4751	5512	4143	5088	5064							
EBITDA	Rs. Cr.	8000	9030	5500	7658	5500	7658	5500	7658	6000	5621	5883	4853	6307	4377	5189	5022							
Depreciation	Rs. Cr.	2684	1486	2684	1567	2684	1567	2684	1567	1810	1403	2062	1717	2482	1266	1703	2209							
EBIT (Earnings before Interest & Taxes)	Rs. Cr.	5316	7544	2816	6091	2816	6091	2816	6091	4191	4218	3821	3136	3825	3111	3486	2813							
Interest Expenses	Rs. Cr.	614	475	615	678	615	678	615	678	889	748	992	968	1450	1027	1351	1557							
Prior Period Expenses	Rs. Cr.		104		-11		-11		-11		42	150	150		8	0.45								
Extra Ordinary Items	Rs. Cr.																							
Exceptional Items Gain(-)/Loss (+)	Rs. Cr.		-125		262		262		262		229	-1056	-1056											
Any Other Expenses	Rs. Cr.																							
Profit before Tax	Rs. Cr.	4701	7194	2201	5151	2201	5151	2201	5151	3302	3241	2829	3225	2375	2083.7	2135	1256							
Provision for Tax	Rs. Cr.	1598	2290	714	1608	714	1608	714	1608	1071	1070	962	608	404	325	374	220							
Profit after Tax	Rs. Cr.	3103	4905	1487	3543	1487	3543	1487	3543	2230	2170	1868	2616	1971	1758	1761	1036							
Dividend Paid	Rs. Cr.	830	991	829	826	829	826	829	826	446	826	826	834	826	723	826	623							
Profit Transferred to Statutory reserves	Rs. Cr.		572		361		361		361		308		496		109	448								
Any Other item (Dividend Tax)	Rs. Cr.	141	161	138	134	138	134	138	134	72	135	140	142	140	147	165	127							
Profit Transferred to Balance Sheet	Rs. Cr.	2132	3180	521	2360	521	2360	521	2360	1851	901	901	1145	1004	780	322	286							
<b>Balance Sheet Items</b>																								
Gross Block	Rs. Cr.	42429	38236	46610	41759	46610	41759	46610	41759	49058	42702	42702	54168	74051	59179	65319	80064							
Less Cumulative Dep	Rs. Cr.	24735	23178	25922	24601	25922	24601	25922	24601	26532	25925	25925	27398	29847	28793	29257	31466							
Net block	Rs. Cr.	17694	15059	20688	17158	20688	17158	20688	17158	22526	16777	16776	26771	44205	30386	36062	48598							
share capital of CPSE	Rs. Cr.	4130	4130	4130	4131	4130	4131	4130	4131	4131	4131	4131	4131	4131	4131	4131	4131							

**Steel Authority of India Limited**

Reserves & surplus of CPSE	Rs. Cr.	31149	32939	33170	35681	36611	36894	37249	38536	39424	39202	38859	39145
Net worth of CPSE	Rs. Cr.	35279	37069	37300	39811	40741	41025	41379	42666	43554	43333	42989	43275
Investment	Rs. Cr.		684		685	678	718	691	720	720	917	944	944
Inventory	Rs. Cr.		11303		13742	15689	16008	17516	15201	16165	16577	17355	18754
Sundry debtors/sales	Rs. Cr.		4130		4749	4250	4424	3841	5482	5150	4745	5569	5958
Cash and bank Balance	Rs. Cr.		17480		6416	7200	3850	3337	2856	3360	2743	243	243
Loan and advance other current assets	Rs. Cr.		3631		2845	8800	2804	3903	3352	3144	3336	3336	3336
Total Current assets	Rs. Cr.		36544		27752	35939	27086	28597	26891	27819	27401	26503	28292
Total Current liabilities & provision	Rs. Cr.		24182		18423	18901	22504	24892	28340	24494	32283	34479	33129
Net current assets	Rs. Cr.	29543	12362	22112	9329	17038	4582	3706	-1450	3325	-4882	-7975	-4837
Total Long Term Debt (Loan Funds)	Rs. Cr.		9371		11809	28023	13582	27500	14647	18497	15738	15746	19113
Total Assets	Rs. Cr.		76083		76337	56966	84218	75427	91962	116753	97043	97274	103435
No of employees of CPSE(Closing Manpower)	No.	114590	110794	111186	106004	107021	101878	101409	97897	96942	95161	94641	92530
Capital WIP			22075		28049		35891		33651	24713	33539	28964	20801
Non-Current Investments			684		685		718		720	720	917	944	944
Closing Capital employed *	Rs. Cr.	47237	23681	42800	22886	39563	17997	20482	22943	36618	24616	28827	40643
Opening capital employed			29834		23681		22886		17997	22943	22943	22943	28827
Average Capital Employed	Rs. Cr.	43784	26758	40135	23284	36016	20442	24188	20470	29780	23779	25885	34735
Ratio													
PAT / Net Worth	%	9%	13%	4%	9%	5%	5.3%	4.5%	6.1%	4.5%	5.4%	4.1%	2.4%
EBITDA/Net block	%	45.21	59.96	26.59	44.63	26.64	33.50	35.07	18.13	14.27	19.21	14.39	10.33
EBIT/Average Capital employed	%	12.14	28.19	7.02	26.16	11.64	20.63	15.80	15.32	12.84	17.44	13.47	8.10
Sales Turnover/Net Block	%	225.0%	283.7%	196.2%	266.1%	204.0%	262.0%	299.5%	172.5%	113.7%	148.0%	125.5%	104.2%
PAT per Employee (Closing Manpower)	Rs. Lakhs	2.71	4.43	1.34	3.34	2.08	2.13	1.84	2.67	2.03	2.46	1.86	1.12
Inventory No. of Days (365/Inventory Turnover Ratio)	No. of Days		105		115		140		137	132	147	148	145
Average Collection Period of Receivables or Debtors Turnover Ratio(365*Avg Trade Rec/ Gross Sales)	No. of Days		30		32	32	34	26	35	32	37	40	37

\* Capital Employed definition has been changed by DPE from FY 2014-15 i.e. to be calculated from Liability side. Therefore for actuals for FY 2010-11 to 2013-14 and for 2014-15 Target & actuals both, capital employed has been calculated as per the DPE definition. For MOU Target Figures (FY 2010-11 to 2013-14), closing capital employed has been maintained same as reported earlier.

For FY 2015-16 DPE Definition of Capital Employed is Net Worth+Long Term Borrowings-Capital WIP-Non-Current LT Investments.

Calculation Details for Gross Operating Margin for MOU 2015-16

Sl. No.	Particulars	Unit	2015-16 MOU 'Very Good Level'
a i	Sales Turnover	Rs. Crs.	56760
a ii	Less: Excise Duty	Rs. Crs.	6125
a iii	Sales Turnover Net of Excise (ai-aii)	Rs. Crs.	50636
b	Gross Operating Margin	Rs. Crs.	
	Operating Expenses:	Rs. Crs.	
	Cost of Materials Consumed	Rs. Crs.	19676
	Acc (-)/Dep (+) in inventory	Rs. Crs.	0
	Employee Benefits expenses	Rs. Crs.	10193
	Depreciation	Rs. Crs.	2209
	Other Expenses:		
	-Stores & Spares	Rs. Crs.	3211
	-Power & Fuel Expenses	Rs. Crs.	6003
	-Repair & maintenance expenses	Rs. Crs.	1085
	-Handling Expenses RM & Scrap Recovery	Rs. Crs.	617
	-Royalty & Cess	Rs. Crs.	2039
	-Conversion Charges	Rs. Crs.	414
	-Water Charges & Cess on Water Pollution	Rs. Crs.	124
b i	Total operating expenses/Cost of Goods sold	Rs. Crs.	45571
b ii	Gross Operating Margin (aiii-bi)	Rs. Crs.	5064
b iii	Gross Operating Margin Rate (bi/aiii)	%	10.00%

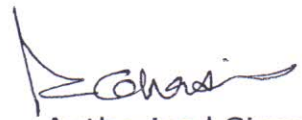
**Annexure V****Trend of Non-Financial Parameters**

<b>MOU 2015-16 non-financial parameters</b>	<b>2012- 13 Actual</b>	<b>2013- 14 Actual</b>	<b>2014-15 MOU 'Very Good' target</b>	<b>2015-16 MOU 'Excellent' target</b>	<b>2015-16 MOU 'Very Good' target</b>
Retail Sales (Million Tonne)	0.54	0.62	0.55	0.60	0.55
Coal Dust Injection (Kg/THM)	54	55	-	60	58
Milestone Performance Index for Projects	100.7	96.7	100	500	400
Capital expenditure (Rs. Crore)	9731	9890	8000	7500	7000
Labour Productivity (TCS/man/year)	258	278	270	300	295
R&D Expenditure as % of turnover net of excise (%)	0.336	0.239	-	0.3	0.25
BF Productivity (T/M <sup>3</sup> /Day)	1.58	1.58	-	1.60	1.55
Coke Rate (Kg/THM)	512	513	-	510	512
Development of new products (No.)	24	24	21	24	22
E- procurement as % of total procurement (%)	30.1	31.75	31	35	33
Concast Production (Million Tonne)	9.52	9.8	-	11.0	10.8
Meeting 100% requirement of iron ore from captive mines	100	100	-	100	95
Specific energy consumption	6.68	6.59	6.55	6.50	6.52
Specific Water Consumption for 4 ISPs excluding IISCO Steel Plant	3.73	3.67	-	3.62	3.65
CO <sub>2</sub> Emission for 4 ISPs excluding IISCO Steel Plant	2.75	2.69	-	2.60	2.63
Reportable Loss Time Injury Frequency Rate (RLTIFR)	0.26	0.24	-	0.25	0.28

**Annexure-VI**

**Self declaration/certification by CPSE**

It is hereby certified that the targets and actual achievements in respect of financial parameters have been worked out as per MoU Guidelines by adopting the norms and definitions laid down in MoU Guidelines for the year 2015-16. In case, any deviation is found at the time of appraisal of performance, DPE is free to evaluate as per audited accounts as per MoU Guidelines. CPSE has no right of claim in this regard.

  
Authorized Signatory



**Annexure – VII**

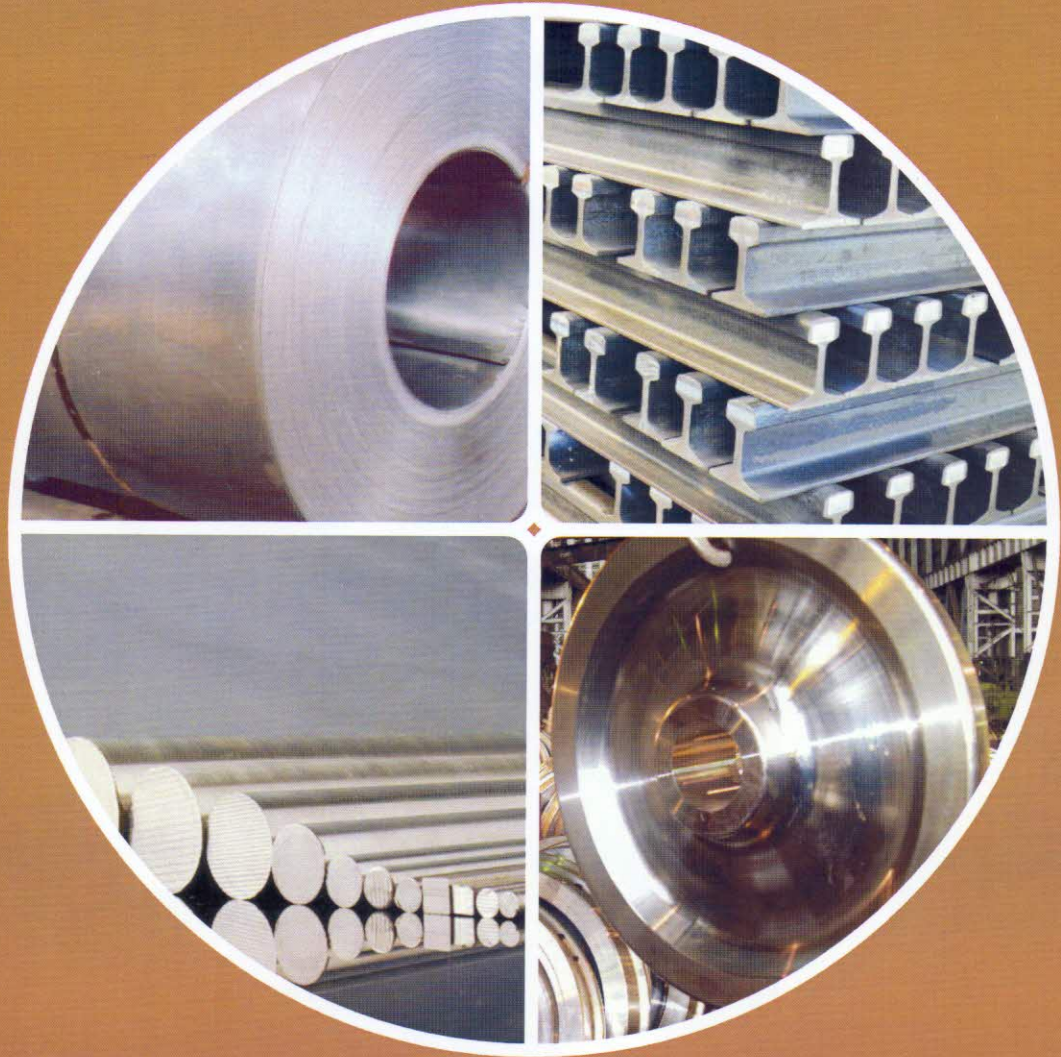
**HELP/ ASSISTANCE SOUGHT BY SAIL  
( TO BE PURSUED BY MINISTRY OF STEEL)**

**Ministry of Steel will facilitate in the following areas:**

1. Process for out of the court mutual settlement for renewal of the sub-judice leases of Chiria (Ajitaburu & Sukri-Latur) & Gua (Jhillingburu-I) leases may be expedited.
2. Grant of iron ore mining lease in favour of VISP/SAIL.
3. Grant of Prospecting License for Thakurani Block-A for 277.683 Ha in Keonjhar district of Odisha.
4. SAIL has identified coking coal and thermal coal blocks, located near the SAIL steel plants from the list of Schedule-I of Ordinance dated 21<sup>st</sup> October, 2014, and requested Ministry of Coal for allocation to SAIL under Government dispensation route.
5. Filling up of vacancies of Independent Directors by 31st December 2015.

## Wagon requirement for MOU : 2015-16

Wagon requirement for inward Traffic					
Commodity	Source/ Loading points	Type of Wagons	Rake size (No.of wagons)	2015-16 (rakes/day)	
Coking Coal	Indigenous	BOXN	59.00	2.0	
	Imported				
	: Vizag Port/Gangavaram	BOXN	59.00	3.8	
	: Haldia	BOXN	59.00	3.7	
	: Paradip Port/Dhamra	BOXN	59.00	4.0	
	Total Imported			11.5	
Boiler Coal		BOXN	59.00	4.0	
Total( Coking coal+Boiler coal)		BOXN	59.00	<b>17.5</b>	
<b>Raw Materials</b>					
Iron Ore	Dalli-Rajhara Mine	Hopper	53.00	6.5	
	RMD mines/Purchased Pellets				
	(Kiriburu,Meghahatuburu,Bolani, Barsua,Kalta,Gua & Manoharpur mines)	Open wagons	59.00	12.4	
		Hopper	55.00	4.2	
	Total			<b>23.2</b>	
Fluxes	Nandini/Hirri Mines	BOBSN	53.0	1.1	
	Central India Mines	BOXN	59.0	0.9	
	Birimtrapur area	BOXN	59.0	0.7	
	Belha/Baraduar area	BOXN	59.0	0.5	
	Tulsidamar mine /Bhawanthpur	BOXN	59.0	0.1	
	Jaisalmer mine	BOXN	59.0	1.2	
	North Bengal area	BOXN	59.0	0.9	
	Import thru ports	BOXN	59.0	0.9	
		Total Flux rakes/day			<b>6.3</b>
	<b>Total Inward rakes per day</b>				<b>47.0</b>
<b>Total Wagons for despatches (Average wagons per day)</b>		BOST/BOXN		415	
		BRN		210	
		Total		<b>625</b>	



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड  
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