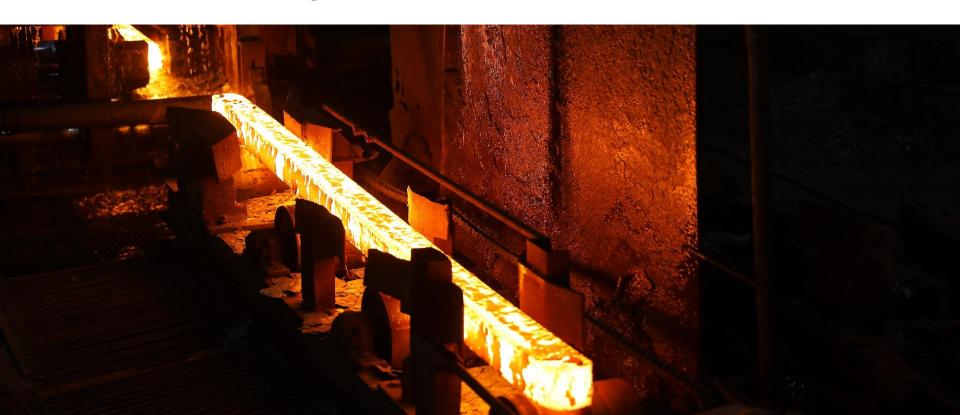


SREE METALIKS LIMITED

Integrated Steel Plant Rugudi, Keonjhar, Odisha





ENVIRONMENTAL CLEARANCE COMPLIANCE

Integrated Steel plant
M/s Sree Metaliks Limited

Village – Loidapada, P.O- Guali, Dist-Keonjhar Odisha

EC Order No. J-11011/169/2007-IA.II (I), dated 01.02.2008

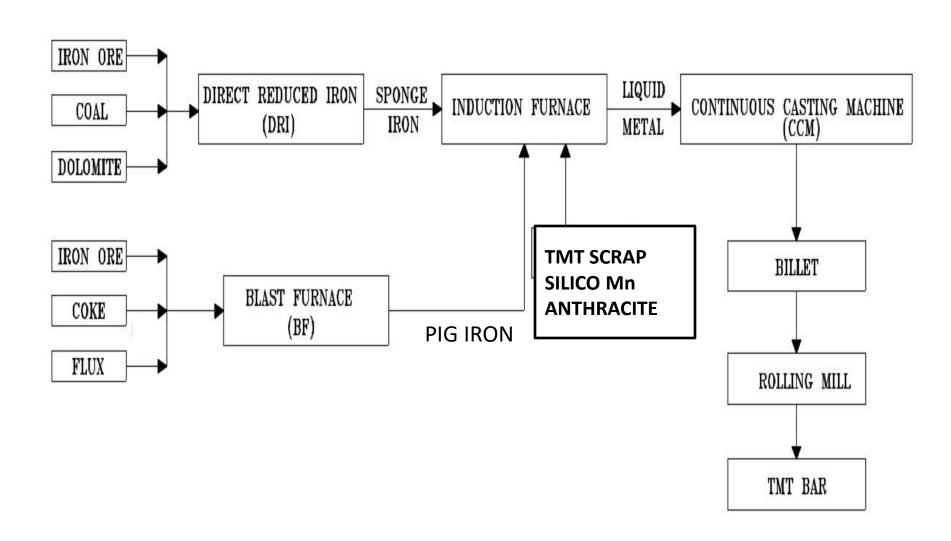
SREE METALIKS

INTRODUCTION

- ❖Sree Metaliks Ltd. (SML) incorporated on 28th November 1995 as public limited company.
- SML has an integrated setup of mining and two manufacturing units in Keonjhar and one at Angul, Odisha.
- ❖The company has an steel making facilities at Loidapada (13.5 Kms from Barbil) over 29.861 Ha is under operation with OSPCB Consent Order No. 5117 dated 31.03.2023 (validity up to 31.03.2025)
 - > Sponge Iron = 2,64,000 TPA
 - > M.S Billets = 1,80,000 TPA
 - ➤ Rolling Mill = 45,000 TPA
 - ➤ Pig Iron = 36,000 TPA
 - > Fly Ash Bricks Plant = 5 Lakh/month
 - > CPP = 28 MW (17.7 MW WHRB +10.3 MW Coal Based)



PLANT PROCESS FLOW





SML PRODUCTS

Sponge Iron



TMT Bar







Pig Iron







EXISTING PROJECT CONFIGURATION

Sponge Iron Production				
	Existing	Total Capacity		
No of Rotary Kiln	07 No's			
	2 x 50 TPD			
Capacity of Rotary Kiln	4 x 100 TPD	2,64,000 TPA		
	1 x 300 TPD			
Production capacity per day	800 Ton			
M.S Billets/Ignot Production				
No of Induction Furnace	09 No's			
	4 x 4 Ton			
Melting Capacity of Induction Furnace	4 x 6 Ton			
	1 x 12 Ton	1,80,000 TPA		
No of Heat per Day	10	1,80,000 1FA		
Production capacity in tons per heat	52Ton			
No. of days operation per annum	345			
Rolling Mill				
Production Capacity (TMT Bars, Wire Rods, Flats etc.)	45,000 TPA	45,000 TPA		
Blast Furnace				
Pig Iron	36,000 TPA	36,000 TPA		
Fly Ash Bricks	5 Lakh/Month	5 Lakh/Month		
Captive Power Plant		•		
Power Plant				
> WHRB Boiler (07 No's)	17.7 MW	28 MW		
> AFBC Boiler (01 No's)	10.3 MW			

EXISTING SURFACE PLAN SREE METALIKS LAND UTILIZATION PLAN AREA IN HECT AREA IN % DESCRIPTION 1 POWER PLANTED NW 0.7950 2.66 2 DRI-7 1.7034 5.70 1.8879 3 RMHS FOR DRI 6.31 4 DRI1-6 2.0275 6.8 5 BMW CPP 0.2889 0.97 6 RMD + SMS-1 7 MBF + RMHS 2.0938 7.06 1.7468 5.84 8 SMS-2 9 INFRASTRUCTURE 1.3015 4.5 2.2500 7.53 10 PARKING AREA 0.4685 1.56 11 ROAD 2.1731 7.27 12 CENTRAL STORE 13 GARLAND DRAINAGE 0.3803 1.27 0.9512 3.30 14 GREEN BELT 9.950 333 15 PROPOSED ROLLING MILL 1.8073 6.1 29.861 100



REVIVAL OF PLANT AFTER FINACIAL CRISIS

- ❖With unprecedented downturn in the steel industry, the financial debt were technically overdue and the financial creditors marks the account as NPA.
- ❖The company was forced to approach and registered as sick unit with BIFR under the sick Industrial Companies Act (SICA), 1985 with effect from 24.11.2014.
- ❖ Finally on 07.11.2017, the company successfully came out of the Corporate Insolvency Resolution Process (CIRP) after NCLT approved the resolution plan.
- ❖But, the order of NCLT was challenged by one of the financial creditor in NCLAT and finally vide order dated 13.12.2018, the resolution plan with some modification was approved by Hon'ble NCLAT and the company was finally handed over to Management.
- ❖ Actions were taken to restore, restart and stabilize the existing units.

SREE METALIKS

VIOLATION

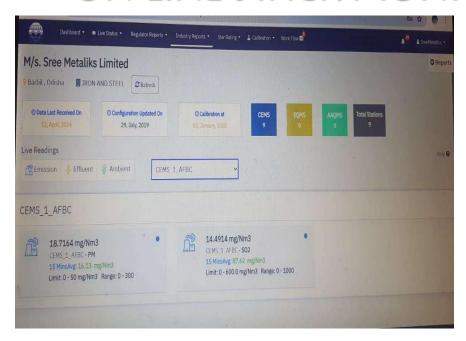
EXPANSION OF ROLLING MILL (Rolling Mill – 2) (45,000 T per annum to 1,05,000 T per annum)

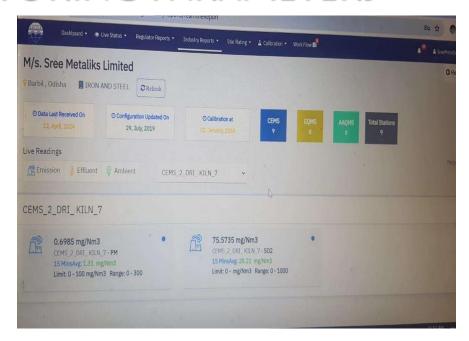
- ❖The project proponent has constructed the Rolling Mill-2 (Rolling mill expansion) after getting CTE from SPCB, Odisha vide letter dated 23.12.2020.
- ❖ However, upon applying for the CTO for second Rolling Mill, SPCB, Odisha directed to take the EC from MoEF&CC, GoI.
- ❖Accordingly, PP has applied for EC as per the MoEF&CC notification dated 20th July 2022.
- *Rolling Mill-2 (Rolling mill expansion) has not been put into operation.

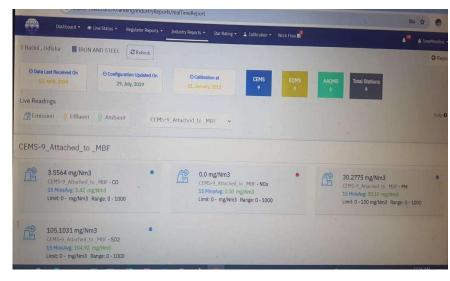
ON LINE STACK MONITORING SYSTEM

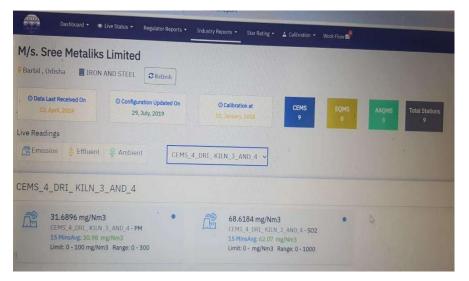
Stack No	Stack connected to	Parameters Analyze
1	DRI I & II	PM, SO ₂
2	DRI III & IV	PM, SO ₂
3	DRI V & VI	PM, SO ₂
4	DRI VII	PM, SO ₂
5	AFBC	PM, SO ₂ , NOx
6	MBF	PM, SO ₂ , NOx, CO
7	SMS1	PM
8	SMS2	PM

ON LINE STACK MONITORING PARAMETERS

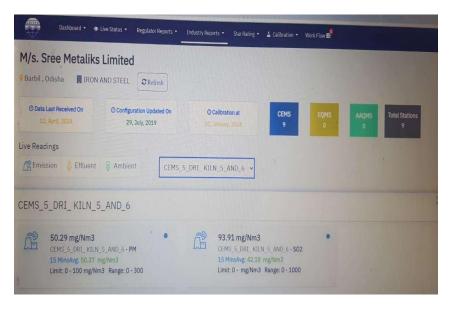


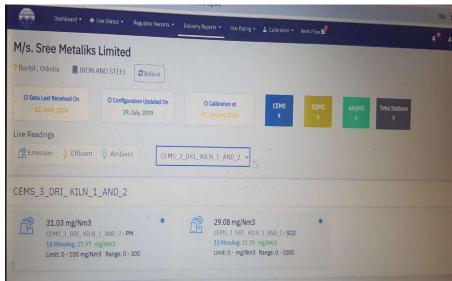


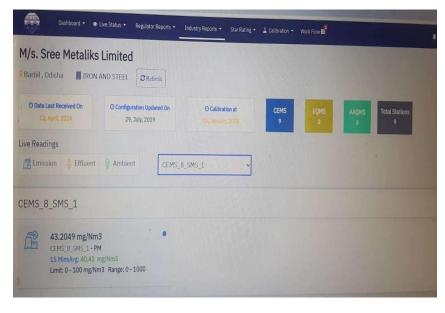


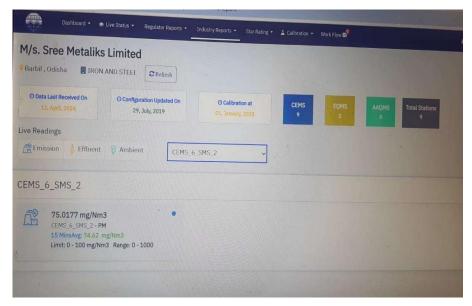


ON LINE STACK MONITORING PARAMETERS









ON LINE STACK MONITORING SYSTEM

















- ❖ESP and PTFE bag filters and scrubbers are attached to the stacks to arrest the dust particles. The particulate matter (PM) emissions from the stack attached to the ESP of Kilns are within the prescribed standard as per CTO. All the Air Pollution control devices are running continuously & effectively.
- ❖Dust catcher followed by Venturi Scrubber is provided in Blast furnace to bring down the particulate matter less than 50mg/Nm³.
- ❖Fugitive emissions from material handling, conveying and screening operations are being evacuated in closed systems.
- ❖ Fugitive emissions are being controlled by the use of dry fogs & fog canons.
- ❖Rain gun for iron ore fine yards
- ❖ Mobile vacuum cleaner is deployed to clean plant road etc. regularly.

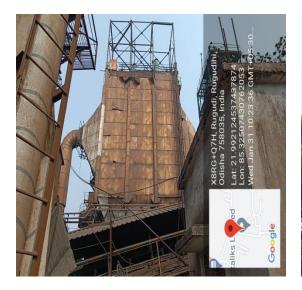
Continued	l.,				

- * Fixed sprinklers on haulage road.
- **❖**Wheel washing system
- Swivelling hood for induction furnace
- Dry fogging at strategic locations
- ❖Raw material sheds for storage
- Tarpaulin covered truck transportation



Si. No	APC devices
1	ESP DRI Kiln-I & II
2	ESP DRI Kiln- III
3	ESP DRI Kiln- IV
4	ESP DRI Kiln- V
5	ESP DRI Kiln- VI
6	ESP DRI Kiln- VII
7	ESP AFBC Boiler
8	Bag Filter CHP
9	Kiln-7 Product House Bag Filter
10	Kiln-7 Stock house Bag Filter
11	Kiln-7 Cooler Bag filter
12	Kiln 1-6 Stock House Bag Filter
13	Kiln 1-2 Product House Bag Filter
14	Kiln 3-6 Product House Bag Filter
15	Kiln1-2 Cooler Bag filter
16	Kiln3-4 Cooler Bag filter
17	Kiln5-6 Cooler Bag Filter
18	Coal Circuit Bag Filter

























































SREE METALIKS PLANTATION AT DIFFERENT LOCATIONS











PLANTATION AT DIFFERENT LOCATIONS











PLANTATION AT DIFFERENT LOCATIONS









Local species like Deodaru, Chakunda, Asan, Neem, Karanj, Aam, Panas, Amla has be planted in and around the plant premises.

SEWAGE TREATMENT PLANT – 2 NO'S









SRTP (SURFACE RUN OFF TREATMENT PLANT)

The surface runoff water is being neutralized in a neutralization tank. After neutralization, these two effluent streams will be mixed in a Central Monitoring Basin (CMB). Service water being treated in an oil separator and after treatment it is being taken to CMB. The treated effluent utilized for dust suppression, ash conditioning and for Green belt development. No effluent will be let out of the plant premises.





ENVIRONMENTAL EXPENDITURE

SI. No.	Description	CAPITAL EXPANDITURE	OPERATIONAL EXPENDITURE			
		INSTALLED EXPENSES	MONTHLY EXP.	YEARLY EXP.		
1	EXPENDITURE TOWARDS 05 NOS. VEHICLES ENGAGED FOR WATER SPRINKLING		130000	1560000		
2	EXPENDITURE TOWARDS INSTALLATION & MAINTENANCE OF WATER SPRINKLER	7000000	135000	1620000		
3	& MAINTENANCE OF ESP	123700000	1560000	18720000		
4	EXPENDITURE TOWARDS INSTALLATION & MAINTENANCE OF BAG FILTERS	38500000	425000	5100000		
5	& MAINTENANCE OF ASH HANDLING SYSTEM	28000000	575000	6900000		
6	ONLINE STACK & AAQ MONITORING SYSTEM	13200000	300000	3600000		
8	CONCRETE PAVING OF ROADS	100056000	50000	600000		
9	NETWORKS OF DRAINS FOR COLLECTION OF RUN OFF WATER AND SETTLING POND	19520000	300000	3600000		
10	PERIODIC ENVIRONMENTAL DATA MONITORING		130000	1560000		
11	GREEN BELT AND PLANTATION	3000000	150000	1800000		
12	EIA /EMF REPORT		84489	1013868		
13	STP INSTALLATION AND MAINTENANCE	12000000	100000	1200000		
14	SRTP INSTALLATION AND MAINTENANCE	15000000	100000	1200000		
15	RAIN WATER HARVESTING	5000000		2		
16	VACUUM CLEANER (VEHICLE)	2800000	200000	2400000		
	TOTAL	367776000	4239489	50873868		

WASTE GENERATION & ITS UTILIZATION

S. No	Name	Utilization
1	Dolochar	Being used in AFBC boiler as fuel
2	Ash/Dust from ESP/Bag filter	Being used in our own existing brick manufacturing unit and send to local Fly Ash Bricks Manufacturer.
3	Wet Scraper sludge	Being used in own brick manufacturing unit and remaining quantity given to other brick manufacturers.
4	Slag	Crushed and after recovery of iron, it is being used for road construction.
5	Mill scales From Rolling Mill	Mill scales given to our own Pellet Plant at ANRA for manufacturing of Pellets
6	End Cutting	Recycled back as raw material in own induction Furnaces
7	Granulated slag	Sold to Cement Manufacturing unit.
8	Ash from CPP	Being used in our own existing brick manufacturing unit and send to local Fly Ash Bricks Manufacturer.
9	Bottom Ash from AFBC	Used in own Bricks Plant and sold to near Fly Ash Bricks Plant

WASTE WATER GENERATION & ITS TREATMENT

- ❖There is no industrial wastewater discharge to outside premises as the existing plant is designed on zero effluent discharge.
- ❖ Waste water generated from plant canteen, factory toilet, staff hostel etc. are being treated through 2 no's STP having capacity 60 KLD each and the treated water used for dust suppression and gardening purpose.
- ❖The run-off water generated from the plant area channelized through garland drain to the SRTP.





THANK YOU