

**Half Yearly EC Compliance  
OF**

**October-2021 To March-2022**

**Submitted By:**

**M/S Sundaram Steels Pvt. Ltd.**

**Sponge Iron Plant (2\*90TPD) along with 8MW Captive  
Power Plant At B\_7 Phase 3, Bokaro Industrial area  
, Balidih Bokaro (Jharkhand)**

**Compliance of conditions laid in Environmental Clearance by Ministry of Environment and Forests, New Delhi vide letter no. F. No. J-11011/128/2010- IA II (I), Dated 14<sup>th</sup> January, 2011 to M/s. Sundaram Steel Pvt. Ltd., Plot No. B-7, Phase-III BIADA, Balidih, Bokaro Steel City, Bokaro-14**

<b>A.</b>	<b>SPECIFIC CONDITIONS</b>	<b>COMPLIANCE STATUS</b>
I.	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), and bag filters etc, shall be provided to keep the emission levels below 50 mg/Nm <sup>3</sup> by installing energy efficient technology.	We have installed ESP, bag filters at all vulnerable emission points to keep the emission levels below 50 mg/Nm <sup>3</sup> . We have installed Online monitoring in our plant.
II	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	It is properly followed.



III.	Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored Guidelines/Code of Practice issued by the CPCB should be followed.	We are controlling fugitive emission within permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored.
IV.	Dust suppression system and bag filters shall be installed to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points. De-congestion plan to improve heavy movement of trucks shall be prepared and submitted.	We have installed dust suppression system and bag filters to control the fugitive dust emissions at conveyor and transfer points, product handling, loading and unloading points. One way vehicle movement will be followed.
V.	Hot gases from the DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas shall be cleaned in ESP before dispersion out into the atmosphere through ID fan and stack. ESP shall be installed to control the particulate emissions from the WHRB.	We have installed Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely. Waste heat recovery will be installed later on.
VI.	Total water requirement shall not exceed 46m <sup>3</sup> /hr. The water consumption shall not exceed as per the standard prescribed for the sponge iron plants. Water storage reservoir capacity shall be increased with a minimum capacity for 2 months.	We are using water below 46m <sup>3</sup> /hr.
VII.	Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted. Sanitary sewage should be treated in septic tank followed by soak pit.	We use rain water to the maximum and have achieved zero discharge at present.
VIII.	All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. AFBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the	All the char from DRI plant is being dispatched to Power plant as per our MOU.



	beginning. Mill accretions shall be used for bricks manufacturing.	
IX.	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and its subsequent amendments. All the fly ash should be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding should be submitted to the Ministry's Regional Office at Bhubaneswar.	Complied. At present no power plant installed.
X.	Management plant As, Hg and Se shall be submitted to the Ministry's Regional Office at Bhubaneswar within 3 months of issue of environment clearance.	Complied.
XI.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.	Complied. Plan and precautionary measures are available at the site.
XII.	As proposed green belt shall be developed in at least 33% of the plant area. Selection of the plant species shall be as per the CPCB guidelines in consultation with DFO. In the NS and SE of the plant area, width of the green belt shall be enhanced to 15-20 m.	Complied.
XIII.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the sponge Iron Plants should be implemented.	Charter on Corporate Responsibility for Environment Protection (CREP) for the sponge Iron Plants as applicable is being complied. No power plant installed yet.
XIV.	At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan (need based) should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	Complied. CSR activities are being carried out in and around nearby villages on regular basis.
XV.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe	It is being complied.



	drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	
<b>B.</b>	<b>GENERAL CONDITIONS</b>	<b>COMPLIANCE STATUS</b>
I.	The project authorities shall strictly adhere to the stipulations made by Jharkhand Pollution Control Board and State Government.	We are strictly adhering stipulations made by Jharkhand Pollution Control Board and State Government.
II.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	We will not make any further modification of the plant without prior approval of this Ministry.
III.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The SPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	We will abide by the emission norms.
IV.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and Nox are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the	Complied.



	SPCB/CPCB once in six months.	
V.	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	We are treating industrial waste water properly and utilize for plantation purpose.
VI.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime)	Noise level will be maintained below prescribed standards. Silent D.G sets with acoustic enclosures are established.
VII.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Employees are covered with ESI scheme and proper medical facilities are available for the employees. It will be done on regular basis and records will be properly maintained.
VIII.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have developed big pond for Rain water harvesting at lowest gradient. Rain water harvesting plan is properly implemented.
IX.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	It will be complied fully.
X.	Requisite amount shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry of Bhubaneswar.	We have earmarked fund for regular environmental pollution control measures and monitoring.



	The funds so provided shall not be diverted for any other purpose.		
XI.	A copy of clearance letter shall be sent by the proponent to concerned panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied	
XII.	The project proponent shall upload the status of compliance of the stipulated environment clearance, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criterial pollutant levels namely; RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	It is complied.	
XIII.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	It is being enclosed.	
XIV.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the Project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MOEF by e-mail.	The environmental statement submitted within compliance period to the concerned State Pollution Control Board under this act	
XV.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at the Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . This should be advertised within several days	Information to the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be	



	from the date of issue of the clearance letter at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.	seen at Website of the Ministry has been published. Copies of Newspaper cutting enclosed
XVI.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	It is Complied.

