



LMEL: EC-Half-Yearly/Compl/2024/358

Date: 19.02.2025

To,  
Addl. Principal Chief Conservator of Forests (C)  
Ministry of Env. Forest and Climate Change  
Regional Office (WCZ), Ground Floor  
East Wing, New Secretariat Building,  
Civil Lines, Nagpur-440001

Through: - Email: - [apccfcentral-ngp-mef@gov.in](mailto:apccfcentral-ngp-mef@gov.in) & personal courier.

Ref: EC23A1003MH5973383N, File no. IA-J-11011/243/2019-IA-II(IND-I)

Sub: Six monthly status report of Expansion of Iron Plant from 3,24,000 TPA (4X100 TPD & 1X500 TPD) to 6,84,000 TPA by Installation of Additional 2x500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC) for the Period from 01.04.2024-30.09.2024

Dear Sir,

With reference to the Subject & reference mentioned above, we are herewith submitting the Half Yearly Environment Clearance (EC) Compliance Report Expansion of Sponge Iron Plant from 3,24,000 TPA (4X100 TPD & 1X500 TPD) to 6,84,000 TPA by Installation of Additional 2x500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC) for the Period 1st June 2024 - 31st December 2024.

Dear Sir,

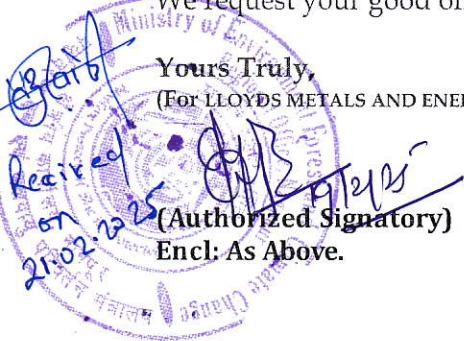
Soft Copy of Signed Covering letter along with said EC Compliance Report are being submitted as a single document in PDF to your good office by Email [apccfcentral-ngp-mef@gov.in](mailto:apccfcentral-ngp-mef@gov.in) and hard copy through personal courier.

EC Compliance - [mv@gov.in](mailto:mv@gov.in)

We request your good offices to kindly acknowledge receipt of the same.

Yours Truly,  
(For LLOYDS METALS AND ENERGY LTD)

(Authorized Signatory)  
Encl: As Above.



**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

**Environment Clearance No. EC23A1003MH5973383N, File No. IA-J-11011/243/2019-IA-II (IND-I)**

Sr.No	Specific Directives	Compliance	Status
01	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Agreed, will be done as per norms	Under progress
02	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Agreed	Agreed for final verdict of any court of law
03	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	Agreed	Under progress
04	In pursuance to MoEF&CC OMs dated 31st October, 2019 & 30th December, 2019 issued in compliance of the order of Hon'ble NGT in OA No. 1038/2018 dated 19th August, 2019, the compliance of all the conditions applicable to CEPI shall be implemented as per the submitted plan.	Agreed	Under progress
05	The nearest habitation to plant is Ghugus village located at 0.5 km away from the project site boundary in North direction. Project Proponent shall implement the action plan for environmental safeguard measures to minimize the impact on the habitation of the locals as submitted. The company shall also include this location in its environmental monitoring programme and strengthen the greenbelt layer towards the village.	Total area of the project area is 93.52 ha. Out of the total area, green belt development is done in 47.7 ha (51%) of plant area. 2,34,650 nos. of trees are planted and 1,05,000 nos. survived till date. Further gap filling will be done. About 15000 nos. additional trees will be planted. Out of 15000 nos. 15000 trees are planted. As informed, apart from above mentioned greenbelt development PP has planted and maintained about 1,00,000 trees in residential colony at 2 kms away from the plant. In addition to this it is committed to do plantations at locations suggested by Nagar Parishad Ghugus, Nearest Gram Panchayat Usgaon & Mhatardevi.	Complied

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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06	There are two natural drainages passing through the project site. Anuradha Lake (620 m, W), Wardha River (2.5 Km, SW), Nirguda Nala (3.0 Km, SSW), Penganga River (5.0 Km, SE) and Sarai Nala (6.5 Km, NE) are flowing within 10 Km. radius of the plant site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.	<p>The total length of drains passing within the boundary of the proposed project to the intersection is 2000 m. As on dated. Industry has allotted a budget of Rs. 2.05 Crores for reconstructing the drain . 40% of work for conservation of natural drain passing through the project site is completed. Rs.0.82 Crores has already been spent for excavation and filling of Earth/ moorum and for thick stone pitching.</p> <p>We have submitted the revised Nala Diversion proposal to the State irrigation department for their approval. The work of natural drainages Diversion work will be started after obtaining the approval from the State irrigation department.</p>	Under progress
07	The total water requirement of 6750 KLD shall be sourced from Wardha River after obtaining necessary permission from the Competent Authority. No groundwater abstraction is permitted.	Noted. Permission received & the jackwell construction has started and will be completed.	Under progress
08	Three tier Green Belt shall be developed in at least 50% of total project area as per the submitted action plan with native species all along the periphery of the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt development shall be monitored on a periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. Gap filling of existing plantations shall be completed within six months as per the commitment. PP shall develop greenbelt in the form of shelter belt comprising of a total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards Ghugus villages. Compliance status in this regard, shall be submitted to the concerned Regional Office of the MoEF&CC.	Total area of the project area is 93.52 ha. Out of the total area, green belt development is done in 47.7 ha (51%) of plant area. 2,34,650 nos. of trees are planted and 1,05,000 nos. survived till date. Further gap filling will be done. About 15000 nos. additional trees will be planted. Out of 15000 nos. 15000 trees are planted. As informed, apart from above mentioned greenbelt development PP has planted and maintained about 1,00,000 trees in residential colonies 2 kms away from the plant. In addition to this it is committed to do plantations at locations suggested by Nagar Parishad Ghugus, Nearest Gram Panchayat Usgaon & Mhatardevi. Photographs Enclosed as <b>Annexure A</b> .	Compiled.
09	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance with the Ministry's OM dated 30.09.2020 amounting to Rs. 7.39 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	Under progress	Under progress

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

**Environment Clearance No. EC23A1003MH5973383N, File No. IA-J-11011/243/2019-IA-II (IND-I)**

10	PP shall undertake village adoption programmes and prepare and implement the action plan to develop them into a model village.	<p>Industry has adopted two villages and accordingly development activities are carried out based on need based assessment study. Skill development training was provided to 25 youths from Ghugus, Mhatardevi &amp; Usgaon. 15 nos. of Solar paneled LED street light has been purchased and installed in Mhatardevi &amp; Usgaon village. 1 Ambulance &amp; 1 funeral vehicle has been purchased &amp; handed over to Ghugus Nagar Parishad.</p> <p>Industry has appointed NGO LOLT (Light Of Life Trust) and through this NGO They have selected 3 nearby schools from 8th Std. to 10 std. and developed their Computer lab, Science Lab, Library, developed basic infrastructure like sanitation facility, shed etc. also they have appointed teachers for career guidance program and to increase children participation in schools. LMEL have conducted medical health camps at Ghugus and also sponsored 2 health camps at Ghugus. 5000 trees have been planted at village Ghugus, Usgaon, Mhatardevi, Nakoda, and Shengaon. PP inform that they will going to construct Public toilets and drinking water facility at village Mhatardevi and Usgaon after rainy season</p>	On Going
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Sr.No	General Directives	Compliance	Status
	Statutory compliance:		
	i. The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Noted and will be taken care of.	Continuous Process

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

**Environment Clearance No. EC23A1003MH5973383N, File No. IA-J-11011/243/2019-IA-II (IND-I)**

	II. Air quality monitoring and preservation		
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Lloyds Metals and Energy Limited Ghugus

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

**Environment Clearance No. EC23A1003MH5973383N, File No. IA-J-11011/243/2019-IA-II (IND-I)**

	i. The project proponent shall install a 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 04 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Industry installed 02 Nos of Ambient air AAQMS and Stack emission OCEMS to Process Stacks and continuously monitored. Both are connected to MPCB / CPCB Server.	Continuous process
	ii. The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	Noted	Continuous process
	iii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Shall be complied along-with the project completion.	
	iv. Sampling facilities at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.	Shall be complied along with project completion.	
	v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply with prescribed stack emission  vi. and fugitive emission standards.	Presently under designing to meet the requirement shall be complied. The Design has been completed and the equipments are in construction State. (ESP) - <b>Enclosed Photograph of Designed Construction as Annex-B</b>	

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vii. The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	The Design has been completed and the equipment is in supply State.	
viii. Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Shall be complied as per the guideline with the project completion.	
ix. Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent uses leak proof trucks/dumpers carrying coal and other raw materials and covers them with tarpaulin.	Shall be complied as per guideline.	
x. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.	Coal fines are consumed in the AFBC boiler, Iron fines shall be sold to Iron agglomeration units.	
xi. The project proponent shall provide primary and secondary fume extraction systems at all heat treatment furnaces.	Not applicable	
xii. Wind shelter fence and chemical spraying shall be provided on the raw material stockpiles.	Covered Material storage is in operation partially and shall be done completely.	
xiii. Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Under designing stage and will be complied with project completion. The Design has been completed and the equipments are in execution State.	
xiv. Pollution control systems in the plant shall be provided as per the CREP Guidelines of CPCB.	The system is being designed as per the guideline and will be implemented. The Design has been completed and the equipments are in execution State.	
xv. The project proponent shall adopt the Clean Air practices like	The equipment is planned with E.S.P's and Bag filter to ensure clean air	

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	mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, absorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	practices will be complied along with the project completion. Industry having sweeping and fogger machine for road cleaning, Photographs is enclosed as <b>Annex-C</b> . The Design has been completed and the equipments are in execution State.	
	xvi. Bag filters shall be cleaned regularly and efficiency of the bag filter system shall be monitored at regular intervals.	The filters are designed with a self cleaning arrangement and will be monitored for efficient working.	
	xvii. Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.	The Mist system is being installed in the stock piles as per guidelines.	
	xviii. The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.	Under execution state.	
	xix. Following additional arrangements to control fugitive dust shall be provided:		
	a. Fog / Mist Sprinklers at all on bulk raw material storage areas (at the transfer points) like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas.	The fog systems are considered and under installation will be completed with the project completion. Installed Sprinklers Photographs, Enclosed as <b>Annex-D</b>	
	b. Proper covered vehicles shall be used while transporting materials.	Shall be complied as per guideline.	Continuous process

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c.	Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	02 Nos of Wheel Washing Mechanism is installed at ENTRY and EXIT. Photographs is Enclosed as <b>Annex-E</b>	Complied
xx.	Hoppers of the coal crushing unit and other washery units shall be fitted with high efficiency bag filters/mist spray water sprinkling system shall be installed and operated effectively at all times of operation to check fugitive emissions from crushing operations, transfer points of closed belt conveyor systems and from transportation roads.	Under execution stage and will be commissioned along with the project commissioning.	
xxi.	The raw coal, washed coal and coal wastes (rejects) shall be stacked properly at earmarked site (s) within stockyards fitted with windbreakers/shields. Adequate measures shall be taken to ensure that the stored mineral does not catch fire.	Coal is stored in a covered shed and the shed is being extended to store complete requirements.	
xxii.	The temporary reject sites should be appropriately planned and designed to avoid air and water pollution from such sites.	As per guidelines the sites are prepared and under implementation	
xxiii.	During the operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.	Shall be complied as per guidelines.	
xxiv.	The coal dust should be monitored at coal unloading, crushing, and furnace areas and should be within 2 mg/m <sup>3</sup> , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.	Under designing and implementation.	Under progress

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xxv.	Online stack monitoring systems for IF and RHF shall be installed and a monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six monthly compliance reports .	Shall be done, if Applicable	
xxvi.	Low NOx Burners will be installed at the Reheating Furnace for control of Gaseous emissions generated while using PNG.	Not Applicable	
	Water quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Under continuous monitoring	
ii.	The project proponent shall regularly monitor ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Under Monitoring.	
iii.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface runoff.	Covered storage is planned and 50% completed and balance 50% is under progress.	Under progress

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iv.	Water meters shall be provided at the inlet to all unit processes in the plants.		
vi.	The project proponent shall make efforts to minimize water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Planned and will be implemented with completion of the project.	
vii.	The proposed project shall be designated as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.	Planned and will be implemented with completion of the project. The ZLD plant is under construction. Under Progress Photographs is Enclosed as <b>Annex-F</b>	
viii.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.	Covered shed has an Impervious floor. Photos Enclosed as <b>Annex-G</b>	
ix.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	Rain Water Harvesting is in Under implementation. Enclosed Photographs as <b>Annex-H</b>	
x.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	Shall be taken care, if applicable.	

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	xi. The effluent discharge (mine waste water, workshop effluent) shall be monitored in terms of the parameters notified under the Water Act, 1974 Coal Industry Standards vide GSR 742 (E) dated 25.9.2000 and as amended from time to time by the Central Pollution Control Board.	Under monitoring	
	xi. Heavy metal content in raw coal and washed coal shall be analyzed once in a year and records maintained thereof.	Under Planning	
	xii. The rejects should preferably be utilized in FBC power plant or disposed off through sale for its gainful utilization. If the coal washery rejects are to be disposed off, it should be done in a safe and sustainable manner with adequate compaction and post closure arrangement to avoid water pollution due to leachate from rejects and surface run off from reject dumping sites.	Yes	
	xiii. An Integrated Surface Water Management Plan for the washery area up to its buffer zone considering the presence of any river/rivulet/pond/lake etc. with impact of coal washing activities on it, shall be prepared, submitted to MoEFCC and implemented.	Under Planning	
	xiv. Waste Water shall be effectively treated and recycled completely either for washery operations or maintenance of green belt around the plant.	Under Planning The Design has been completed and its under execution stage.	
	xv. Rainwater harvesting in the washery premises shall be implemented for conservation and augmentation of ground water resources in consultation with Central Ground Water Board.	Under implementation	

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	xvi. No ground water shall be used for coal washing unless otherwise permitted in writing by competent authority (CGWA) or MoEFCC. The make-up water requirement of washery should not exceed 1.5 m <sup>3</sup> /tonne of raw coal.	Yes	
	xvii. Regular monitoring of ground water level and quality shall be carried out in and around the mine lease area by establishing a network of existing wells and constructing new piezometers during the mining operations. The monitoring of ground water levels shall be carried out four times a year i.e. pre-monsoon, monsoon, post-monsoon and winter. The ground water quality shall be monitored once a year, and the data thus collected shall be sent regularly to MOEFCC/RO.	Agreed	
	xviii. The project proponent shall take all precautionary measures to ensure riverine/ riparian ecosystem in and around the coal mine up to a distance of 5 km. A riverine/riparian ecosystem conservation and management plan should be prepared and implemented in consultation with the irrigation / water resource department in the state government	Not applicable	
	xix. Air Cooled condensers shall be used in the captive power plant.	Under designing stage & will be finalized based on Air/recycled water availability	

	<b>Noise monitoring and prevention</b>		
	i. Noise pollution shall be monitored as per the prescribed Noise	Noted and will be implemented.	

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	Pollution (Regulation and Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.		
	ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Noted and shall be implemented	
	iii. PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.	Under designing and will be implemented along with the completion of the project.	

<b>Energy Conservation measures</b>			
	i. Use a torpedo ladle for hot metal transfer as far as possible. If ladles are not used, provide covers for open top ladles.	Shall be done, if applicable	
	ii. Provide solar power generation on rooftops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	Under implementation 1 Solar Power generation Unit has been installed at a four wheeler parking area and under commissioning. Enclosed Photographs as <b>Annex-I</b>	
	iii. Provide LED lights in their offices and residential areas.	Noted	Complied
	iv. The project proponent shall provide a waste heat recovery system (preheating of combustion air) at		

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	the flue gasses of reheating furnaces.		
v.	Practice hot charging of slabs and billets/blooms as far as possible.		
vi.	Ensure installation of regenerative type burners on all reheating furnaces.		
vii.	The project proponent shall provide waste heat recovery system on the DRI Kilns	Under design and will be implemented along with the completion of the project.The Design has been completed and its under execution stage.	
viii.	The dolochar generated shall be used for power generation.	Under designing and will be implemented along with the completion of the projectThe Design has been completed and its under execution stage.	
ix.	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.	Shall be done,if applicable	
x.	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.	Agreed	

	<b>Waste management</b>		
i.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.	Not Applicable	
ii.	Kitchen waste shall be composted or converted to biogas for	Agreed	

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	further use.		
iii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Agreed 1 Fly ash brick manufacturing unit has been finished and will be operating from Feb-2025.	
iv.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.	Agreed	
v.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	Agreed	
vi.	Rejects from coal washery shall only be used either in the captive power plant (or) in the Thermal Power Plants meeting emission standards.	Agreed	

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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<b>Green Belt</b>			
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Out of the total area, green belt development is done in 47.7 ha (51%) of plant area. 2,34,650 nos. of trees are planted and 1,05,000 nos. survived till date. Further gap filling will be done. About 15000 nos. additional trees will be planted. Out of 15000 nos. 15000 trees are planted. As informed, apart from above mentioned greenbelt development PP has planted and maintained about 1,00,000 trees in residential colony at 2 kms away from the plant. In addition to this it is committed to do plantations at locations suggested by Nagar Parishad Ghugus, Nearest Gram Panchayat Usgaon & Mhatardevi.	
ii.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	A study report on Decarbonisation is submitted and actions taken towards decarbonisation are as follows: Out of the total area, green belt development is done in 47.7 ha (51%) of plant area. 2,34,650 nos. of trees are planted and 1,05,000 nos. survived till date. Further gap filling will be done About 15000 nos. additional trees will be planted. Out of 15000 nos. 15000 trees are planted. As informed, apart from above mentioned greenbelt development PP has planted and maintained about 1,00,000 trees in residential colony at 2 kms away from the plant. In addition to this it is committed to do plantations at locations suggested by Nagar Parishad Ghugus, Nearest Gram Panchayat Usgaon & Mhatardevi	
iii.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	Under implementation.will be completed with the completion of the project	

<b>Public hearing and Human health issues</b>			
i.	Emergency preparedness plans based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Industry is Prepared with the existing Emergency Preparedness Plan and Disaster Management Plan is Updated and regular mock drills are conducted as per the EPRP and continue as proposed projects.	

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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	ii. The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zones and provide Personal Protection Equipment (PPE) as per the norms.	Under implementation	
	iii. Provision shall be made for the housing of construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP. Safe 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.	Under implementation. Enclosed Photographs as <b>Annex-J</b>	
	iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Agreed	

Lloyds Metals and Energy Limited Ghugus

	<b>Environment Management</b>		
	i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, companies shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Agreed	
	ii. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring	Agreed	

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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	into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have a defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of a six-monthly report.		
	iii. A separate Environmental Cell both at the project and company headquarter level, with qualified personnel shall be set up under the control of a senior Executive, who will directly to the head of the organization.	Environment management cell established.	
	iv. Performance tests shall be conducted on all pollution control systems every year and reports shall be submitted to the Integrated Regional Office of the MoEF&CC.	Agreed	

<b>Miscellaneous</b>			
	i. The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	The Hitavada & Punyanagari on 11th Feb 2024	Complied
	ii. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayat and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same	Communicated through copies	

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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	for 30 days from the date of receipt.		
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on a half-yearly basis.	Will be updated as per norms	
iv.	The project proponent shall monitor the criteria pollutants level namely; PM 10, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Existing Industry has installed 02 Nos of AAQMS Stations and both data is uploaded to MPCB / CPCB Server and also a display board is installed at the main gate for Public and continuously showing the ambient data on LED display board. Enclosed Photographs as <b>Annex-K</b>	Completed
v.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented	Under implementation and will be completed along with the project completion	Under progress
vi.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Submitted regularly.	Under Progress
vii.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Industry submitted the existing plant environment statement (form v) on a regular basis. last submitted 20/09/2023. also follow this conditions proposed project.	Under Progress
viii.	The project proponent 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, commencing the land development work and start of production operation by	Noted	

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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	the project.		
ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Industry always abide by all the commitments and recommendations made in the EIA/EMP report	Under Progress
x.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	A request letter has been given to the District Forest Officer on 03rd Jan '24 for a wildlife conservation plan with a request for budget for the amount to be spent.	
xi.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the left over funds allocated to EMP and PH as committed in the earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	Under Planning	
xii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted	
xiii.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted	

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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	xiv. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed	
	xv. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed	
	xvi. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Agreed	
	xvii. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Agreed	

**GREEN BELT**

**Annex-A**

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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**ESP Design Construction**

**Annex-B**

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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### **SWEEPING AND FOGGER MACHINE**

**Annex-C**



**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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### **INSTALLED WATER SPRINKLERS**

**Annex-D**



**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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**INSTALLED WHEEL WASHING**

**Annex-E**

**ENTRY**

**EXIT**



**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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## **ZLD PLANT INSTALLATION UNDER PROGRESS**

**Annex-F**



**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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### **COVERED SHED FOR COAL STORAGE**

**Annex-G**



### **RAIN WATER HARVESTING PIT**

**Annex-H**

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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**SOLAR PANELS INSTALLED AT CAR PARKING**

**Annex-I**

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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**HOUSING OF CONSTRUCTION WORKMANS**

**ANNEX-J**

**(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)**

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**INSTALLED AAQMS & LED DISPLAY BOARD**

**ANNEX-K**

**CAAQMS-01**

**CAAQMS-02**

(Phase- II) Expansion of Sponge Iron Plant from 3,24,000 TPA (4 X 100 TPD & 1 X 500 TPD) to 6,84,000 TPA by Installation of Additional 2 x 500 TPD Kilns & Power Plant from 25 MW to 85 MW (WHRB + AFBC)

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(Measuring PM10,PM2.5,SO<sub>2</sub>,NO,NO<sub>2</sub>,NO<sub>x</sub>)

(Measuring PM10,PM2.5,SO<sub>2</sub>,NO,NO<sub>2</sub>,NO<sub>x</sub> & Meteorological Data)



LED DISPLAY BOARD



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ted Ghugus