



Six Monthly Environmental Compliance Report **(January 2023 - June 2023)**

INTRODUCTION:

M/s. Evonith Metallics Limited (EML), formerly known as M/s Uttam Galva Metallics Limited (UGML) is a steel manufacturing company. The name of the company has been changed from UTTAM GALVA METALLICS LIMITED to EVONITH METALLICS LIMITED with effect from the date 28/12/2022. The unit is located at Village- Bhugaon, Wardha District in Maharashtra state. The steel unit has a capacity to manufacture, Hot Metal from Blast Furnace: 12,02,000 MT/A; Sinters : 15,20,000 MT/A & Metallurgical coke: 5,00,000 MT/A.

Consent to operate for expansion and amalgamation with existing consent granted from MPCB Consent No: - Format1.0/CAC/UAN No. MPCB-CONSENT_AMMENDMENT-0000009788/2303000014 dated 06.03.2023, valid up to 30.06.2024.

The environmental clearance from MOEF & CC is granted vide letter No. J-11011/77/2005-IA II (I) dated, 21.06.2005 & vide Letter No. F. No. J-11011/77/2005-IA II (II) dated 04.10.2010.

The environmental clearance for expansion is granted vide letter No. F.No. J-11011/358/2012-IA II (I) dated, 04.09.2014.

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Status of Memorandum No. J-11011/77/2005-I A II (I) Dated: 21st June 2005.

A. SPECIFIC CONDITIONS: -

Sr. No	CONDITION	COMPLIANCE
I	The gaseous emissions from various process units should conform to the load/mass-based standards notified by this Ministry on 19th May 1993 and standards prescribed from time to time. The state Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission level should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit; the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency	Industry is complying with the standards notified by the ministry on 19th May 1993 and standards prescribed from time to time. The emission level is maintained below prescribed standards. In the event of failure of any pollution control system, the respective unit is kept closed until the control systems are rectified to achieve the desired efficiency.
II	There shall be no discharge of process effluent. As reflected in the EIA/EMP report, the company shall recycle the treated waste water through Reverse Osmosis plant. The company shall undertake water conservation measures by recycling the cooling water blow down and reuse in the process. The boiler blow down shall be used for coal pile spray. The domestic waste water after treatment in STP should be used for green belt development.	The effluent is treated by ETP and the treated effluent is used for slag cooling, dust suppression, sprinkling on roads and plantations. The domestic waste water after treatment in STP is used for green belt development.
III	In plant, control measures for checking fugitive emission for spillage/raw materials handling Should be provide. Further specific measures like provisions of dust extraction and dust suppression system for product and raw material handling, water sprinkling system at the waste disposal area to control the fugitive emissions shall be provided. Data on fugitive emission shall be regularly monitored and records maintained.	Dust suppression system for raw materials handling and a water sprinklers system for waste disposal area have been provided. Data on fugitive emissions is being regularly monitored and recorded.
IV	The project authorities shall ensure the control of fugitive emissions from the electric arc furnace and Sinter plant during charging of scrap and tapping by provision of fume extractor system.	ESP is Provided to Sinter Plant. Electric Arc Furnace is not applicable to this plant.

V	The company shall provide gas cleaning system. The waste gas from blast furnace shall be passed through the dust catcher. The waste gases from the mini blast furnace and coke oven plant shall be used in waste heat recovery steam generators to recover heat/energy. The burnt waste gases shall be passed through electrostatic precipitator to control the particulate emissions shall be controlled by installation of ESP.	Waste gas from the blast furnace and coke oven is used in Steam Generators to recover heat/energy. ESPs are provided to control particulate emissions.
VI	The company shall undertake measures for installation of continuous ambient air quality monitoring stations and data sent electronically to SPCB/Central Pollution Control Board.	CAAQMS is installed and ambient air quality monitoring reports are sent to MPCB & CPCB regularly.
VII	Solid waste would be generated in the form of slag and sold to cement manufacturer. The mill scale, machine returns and flue dust shall be used as raw material in Sinter plant. Fly ash shall be Utilized as per Government of India guidelines. The bottom ash shall be used for brick manufacturing and leveling of low lying area and road making .The used oil will be sold to authorized recyclers .	Slag from Blast Furnace is Sold to Cement Manufacturers. Fly ash sent to brick manufacture. The mill scale, machine returns and flue dust are used as raw material in the Sinter plant. The used oil is sold to authorized recyclers.
VIII	The company shall raise green belt in an area of 50 ha. In addition to 40 ha. Of area already afforested as per the CPCB guidelines.	The Greenbelt is developed 50 ha in addition to the 40 ha.
IX	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance of workers is done on a regular basis and its record is maintained as per the Factory Act.
X	Recommendations made in the CREP should be implemented.	Meeting parameters related to PLD, PLL, PLO etc in coke Oven. The Coal Dust Injection (CDI) system for BF has been envisaged. 100% utilization of Slag / Fly ash. Water conservation scheme.

B. GENERAL CONDITIONS

Sr. No	CONDITION	COMPLIANCE
I	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board and the State Government.	Agreed and being adhered to.
II	No further expansion or modification in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.
III	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO ₂ and NO _x are anticipated in consultation with the State Pollution Control Board. Data on ambient air quality and stack emission should be regularly submitted to this ministry including its regional Office at Bhopal and the State Pollution Control Board/ Central Pollution Control Board once in six months.	Ambient air monitoring is done at four locations in downward direction. Results for ambient air monitoring and stack emissions are regularly submitted to MPCB and MOEF & CC at Nagpur once every six months.
IV	Industrial waste water 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 waste water should be utilized for plantation purpose.	Waste water is properly collected and treated in ETP. The result of treated waste water meets with the standard prescribed norms. The treated waste water is utilized for plantation purposes & slag cooling.
V	The overall noise levels in & around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosure etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules 1989 viz. 75 dBA (daytime) and 70 dBA (night time).	Noise level is measured at points selected as per guideline and all results are well within the prescribed norms.
VI	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 programs, education programmes, drinking water supply and health care etc.	We have implemented and complied with all the environmental protection measures and safeguards recommended in the EIA/EMP report. The company undertakes socio-economic development activities like community development programs, education programme, drinking water supply and health care etc. in the surrounding villages.

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VII	The project authorities will provide adequate funds recurring and non -recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implantation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	The adequate funds are provided specially for environmental protection and control of pollution. The funds so provided are not diverted for any other purposes.
VIII	The regional office of this Ministry Bhopal/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six-monthly compliance report and the monitoring data along with statistical interpretation should be submitted to them regularly.	We are strictly complying with stipulated conditions made by CPCB/SPCB. The reports are regularly submitted. A six-monthly compliance report and the monitoring data along with statistical interpretation are submitted regularly.
IX	The project proponent should inform the public that the project has been in accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forest at http://envr.nic.in they should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers the area widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office.	Being complied.
X	The project authorities should 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.	Accepted.
2.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted & accepted.
3.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Noted.

***Compliance of the condition in Environmental Clearance of MoEF NO. J-11011/77/ 2005-IA II(I) ,
Dated, October 4, 2010.***

Sr. No	Condition	Compliance
I	On-line ambient air quality monitoring and continuous stack monitoring facilities for all stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning plant, bag filters etc. Shall be provided to keep the emission levels below 50mg/Nm ³ installing energy efficient technology.	Industry has provided on-line ambient air quality monitoring and continuous stack monitoring facilities for all stacks. Adequate APC devices such as Electrostatic Precipitator (ESP), gas cleaning plant, bag filters are available to achieve emission levels below 50 mg/Nm ³ .
II	The National Ambient Air standards issued by the Ministry vide G.S.R.No.826 (E) dated 16th November, 2009 shall be followed.	Industry is being followed with the National Ambient Air standards issued by the Ministry vide G.S.R.No.826 (E) dated 16th November, 2009.
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 shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and SPCB. The criteria pollutant levels namely, RSPM, SO ₂ , Nox (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.	Industry regularly submits environmental monitoring reports to MOEF & CC and MPCB. The criteria pollutant levels namely, PM ₁₀ , PM _{2.5} , SO ₂ , Nox are monitored regularly and displayed at a convenient location near the main gate of the company in the public domain.
IV	In plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.	All adequate APC equipment like ESP, Bag house, Cyclone separator, bag filters are installed along with adequate stack height. Bag filters are provided to hoods and dust collectors to coal and coke handling to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.
V	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only the balance water requirement shall be met from	2 nos. of surface runoff water storage pond have been provided with the size of 50×40×6 and 50×30×6. Additional reservoir is also provided .

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	other sources.	
VI	Regular monitoring of effluent and effluent surface, subsurface and ground water shall be ensured and treated waste water should meet the norms prescribed by the state pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and reports submitted to the Ministry Regional Office at Bhopal, SPCB and CPCB.	We regularly monitor effluent and effluent surface, subsurface and ground water and ensure to meet the norms prescribed by the state pollution Control Board. The leachate studies for the effluent generated and analysis also regularly carried out and the reports are submitted to the Ministry Regional Office at Nagpur and , SPCB.
VII	All the coal fines, char from DRI plant and washery rejects shall be utilized in AFBC boiler of power plant and no char shall be used for briquette making or disposed off anywhere else. AFBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. All the blast furnace (BF) slag shall be provided to the cement manufactures. Scrap shall be used in steel melting shop (SMS) and SMS slag and Kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.	Slag from blast furnace is sold to cement manufacturing units. DRI plant, SMS is not applicable to this plant. Other solid waste, including broken refractory mass, are properly disposed off in an environmentally-friendly manner.
VIII	The green belt all over the plant shall be strengthened and plantations shall be raised in 33% of the plant area as per the CPCB guidelines in consultation with the DFO.	Green belt has been developed on approximately 34 % of the plant area.
IX	The prescribed emission standards for coke oven plants, as notified vide notification no. GSR 46 (E) dated 3rd February, 2006 and subsequently amended shall be complied with.	Industry complies with prescribed emission standards for coke oven plants, as notified vide notification no. GSR 46 (E) dated 3rd February, 2006.
X	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequently amendment in 2003	100% fly ash sold to brick manufacturers.
XI	Vehicular Pollution due to transportation of raw material and finished products shall be controlled. Proper arrangement shall also be made to control dust emissions during loading and unloading of the raw materials and finished products.	Industry takes proper care during the transportation of raw materials and finished products. To control dust emissions, water sprinkling systems are provided on raw material transportation routes.

XII	<p>Transportation of raw coal during the initial phase shall be by 40-T mechanically covered or tarpaulin. Covered trucks from the coal mines to the washery.</p> <p>The raw coal, washed coal and coal waste (rejects) shall be stacked properly at an earmarked site(s). Within sheds/stockyards are fitted with wind breakers /shields. Adequate measures shall be taken to ensure that the stored minerals do not catch fire.</p>	<p>Transportation is done by rail rack to our railway siding. From the storage yard, coal is transferred through the closed conveyor belt system.</p>
XIII	<p>Hoppers of the coal crushing unit at the crushing shed and washery unit shall be fitted with high efficiency bag filters/Dust extractors and 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 belt conveyor system which shall be closed and from transportation roads.</p>	<p>Hoppers of the coal crushing unit at the crushing shed are fitted with high efficiency bag filters/dust extractors. Industry has provided water sprinkling systems to control fugitive emissions from crushing operations and transfer points.</p>
XIV	<p>A time-bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.</p>	<p>Proper utilization of solid waste has been accomplished.</p>
XV	<p>Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB within 3 months of issue of Environment clearance letter.</p>	<p>Being implemented.</p>
XVI	<p>At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with a time-bound action plan should be submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time-bound manner.</p>	<p>Industry regularly conducts CSR activities throughout the year with time-bound action plans.</p> <p>In the fy year 2022-23 we have spent Rs. 2.30 Crs towards the various CSR activities.</p>
XVI I	<p>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 Offices of the MOEF by e-mail.</p>	<p>Industry regularly submits Form -V to MPCB.</p> <p>We submit the status of compliance of environmental conditions to MPCB & MOEF & CC at Nagpur.</p>

Compliance of the condition in Environmental Clearance of MoEF NO. J- 11011/358/2012-I A II (I) Dated: 4th September 2014		
S. No.	Condition	Compliance
A.	SPECIFIC CONDITIONS	
i.	The company shall adopt dry quenching of coke. The prescribed standards for emissions from coke oven plants as notified vide Notification No. GSR (E) dated 3rd February 2006 and subsequent amendment thereto shall be complied with.	We are complying with the prescribed standards for emissions from coke oven plants as notified vide Notification No. GSR (E) dated 3rd February 2006 and conditions as per MPCB . Reports are regularly submitted to MPCB.
ii.	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz., Electrostatic precipitator (ESP), bag filter, etc shall be provide to keep the emission levels below 50mg/Nm3 by installing energy efficient technologies.	<p>We have installed an on-line ambient air quality monitoring system and continuous stack monitoring facilities have been provided for all the stacks.</p> <p>The sufficient air pollution control devices, viz., Electrostatic precipitator (ESP), bag filter, etc has been provided to keep the emission levels below 50mg/Nm3 by installing energy efficient technologies.</p>
iii.	In-Plant control measures such as bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression systems shall be provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials, etc.	<p>Bag Filter, de-dusting and dust suppression system have provided to control fugitive emissions from all the vulnerable sources.</p> <p>Dust extraction and suppression systems are provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant.</p> <p>Bag filters to hoods and dust collectors to coal and coke handling to control dust emissions, water sprinkling system to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials, etc. has provided.</p>

iv.	Gaseous emissions levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits if MOEF Notification GSR 414 (E) dated 30th May 2008 and regularly monitored. Guidelines/Code of Practice issued by CPCB shall be followed.	Gaseous emissions levels, including secondary fugitive emissions from all sources is controlled and regularly monitored as per the guidelines issued by CPCB.
v.	Multi-stage scrubber, cyclone and bag filters, etc to control particulate emissions within the prescribed limits from coke oven shall be provided. Carbon Monoxide (CO) shall also be monitored along with other parameters and standards notified under Environment (Protection) Act 1986, shall be followed.	Multi-stage scrubbers, cyclone and bag filters have been provided to control particulate emissions from coke oven. Carbon Monoxide (CO) is monitored along with other parameters and standards notified under the Environment (Protection) Act 1986.
vi.	Hot gases from DRI kiln shall be passed through the 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 then be cleaned in ESP before dispersion out into the atmosphere through an ID fan and stack. ESP shall be installed to control the particulate emissions from the WHRB.	Being Complied. ESP is installed to control the particulate emissions from the WHRB.
vii.	Total make-up water requirement shall not exceed 21,195m ³ /d. The water consumption shall not exceed as per the standards prescribed for sponge iron plants and steel plants.	The total make-up water requirement is within the limit. The total water consumption is 6300 m ³ /day.
viii.	Efforts shall be made to use maximum water from rainwater harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement and the balance shall be met from other sources. Use of air-cooled condensers shall be explored and closed-circuit cooling system shall be provided to reduce water consumption and water requirements shall be modified accordingly.	We have provided an extra reservoir.

ix.	All the effluents shall be treated and used for dust suppression and for green belt development. No effluents shall be discharged and 'zero' discharge shall be adopted. Domestic wastewater shall be treated in a sewage treatment plant.	All the effluents are treated at ETP and treated water is used for dust suppression & green belt development. No effluent is discharged outside the plant premises. The 'zero' discharge has been adopted. Sewage treatment plants are provided for treatment of all domestic wastewater.
x.	Regular monitoring of effluent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the state pollution control board or prescribed under E (P) act 2006, whichever is more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to Ministry's regional office at Bhopal, SPCB and CPCB	Industry has regularly monitoring and analysis of effluent samples and ground water and treated water meet with the prescribed norms. All the analysis reports are submitted to the Ministry's regional office at Nagpur, MPCB and CPCB.
xi.	Sulphur and ash content of coal shall not exceed 0.65% and 9.5% respectively.	Agreed and being complied. Sulphur content is less than 0.60 % and the ash percentage is 9.0%.
xii.	In case source of coal supply is to be changed at a later stage (now proposed imported coal from Australia), the project proponent shall intimate the Ministry well in advance along with necessary requisite documents for its concurrence for allowing the change.	Being complied. Any changes in coal supply will be intimated well in advance along with the necessary requisite documents for its concurrence for allowing the change.
xiii.	Risk and Disaster management Plan along with mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, SPCB and CPCB within 3 months of issue of environmental clearance letter.	Being implemented.

xiv.	All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. Flue dust from pellet plant, sinter plant, DRI and SMS and sludge from BF shall be re-used in Sinter Plant. Coke breeze from coke oven plant shall be used in sinter and pellet plant. SMS slag shall be given for metal recovery or utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environmentally friendly manner.	All the blast furnace slag is sold to cement manufacturing units for further utilization. All the solid waste is utilized and disposed off as per the condition.
xv.	A time-bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.	Disposal & utilization of solid waste has been accomplished as per the conditions.
xvi.	Coal and coke fines shall be recycled and reused in the process. The breeze coke and dust from air pollution control system shall be reused in sinter plant. The sinter dust shall be recycled in the sinter plant. The waste oil shall be properly disposed of as per the Hazardous Waste (management, Handling and Trans-boundary Movement) Rules, 2008.	Coal and coke fines and dust from air pollution control system is used in Sinter plant and sinter dust is recycled in sinter plant. Waste oil is disposed off to authorized Re-processor/re-cycler as per the Hazardous Waste (management, Handling and Trans-boundary Movement) Rules, 2008.
xvii.	Green belt shall be developed in 33% of the plant area within 3 years of grant of environmental clearance. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO/expert.	Presently, out of 140 ha total land, around 36 ha has been developed with the green belt.
xviii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for Steel Plant and Coke Oven Plants shall be implemented.	Being Complied and implemented.
xix.	At least 5% of the total cost of the project shall be earmarked towards Enterprise Social Commitment (ESC) based on locals' needs and the activity- wise details and village-wise details along with time-schedule for implementation shall be prepared and Submitted to the Ministry's Regional Office at Bhopal. Implementation of such programme shall be ensured accordingly in a time-bound manner.	CSR activities is being carried out throughout the year in a time-bound manner. During FY 2022-23, the total 1.30 Crs has been spent for various CSR activities.

xx.	The Company shall submit within 3 months, their policy towards Corporate Environment Responsibility, which shall inter-alia addresses: (i) Standard operating process/procedure to being into focus any infringement/deviation/violation of environmental or forest laws/ norms / conditions, (ii) Hierarchical system or Administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non- compliance/violation of environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	We have submitted the new policy towards Corporate Environment Responsibility as per the conditions.
xxi.	All the commitments made in the Public Hearing/Public Consultation meeting held on 21.11.2013 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhopal.	We have implemented the commitments made in the Public Hearing/Public Consultation meeting held on 21.11.2013.
xxii.	Provision shall be made for housing of construction labour within the site with all necessary infrastructure and facilities such as cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche, etc. The housing and infrastructure may be in the form of temporary structures to be removed after the completion period.	Housing facilities with all necessary infrastructure and facilities such as cooking, mobile toilets, mobile STP, safe drinking water, medical health care were provided to the construction workers during execution of project. After completion of Project work the housing and infrastructure has been removed from the site.
B.	GENERAL CONDITIONS	
i.	The project authorities must strictly adhere to the stipulations made by the Maharashtra State Pollution Control Board and the State Government.	Agreed.
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Agreed.

iii.	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, PM2.5, 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 SPCB/CPCB once every six months.	Four ambient air quality monitoring stations are installed and data of ambient air quality monitoring and stack emission monitoring is regularly submitted to the SPCB/CPCB once every six months.
iv.	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.	Industrial waste water is properly collected and treated in the ETP. The result of treated waste water meets with the standard prescribed norms. The treated waste water is utilized for plantation & slag cooling purposes.
v.	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 is measured at points selected as per guideline and all results are well within the prescribed norms.
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being complied. Health surveillance of the worker is done on a regular basis and maintained record as per the Factories act.
vii.	The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Being complied. 2 nos. of surface runoff water storage pond have been provided with the size of 50×40×6 and 50×30×6.
viii.	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.	Agreed and implemented. We have provided the medical van with free medicine distribution at Five villages, free health checkup camp for ladies, digital display at five ZP school, agriculture production activities etc. We are regularly undertaking socioeconomic development activities like community development programmes, educational programmes,

		drinking water supply and health care in the surrounding villages throughout the year
ix.	Requisite amount shall be earmarked towards capital cost and recurring cost/annum for environment 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. The funds so provided shall not be diverted for any other purpose.	The requisite amount is earmarked towards capital cost and recurring cost/annum for environmental pollution control measures. The funds so provided are not be diverted for any other purpose.
x.	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.	The copy of the clearance letter was sent to the concerned offices.
xi.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, 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 criteria pollutant levels namely; PM10, PM2.5, SO2, NOx (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.	Being Complied. Status of compliance of the stipulated environment clearance conditions, including results of monitored data uploaded on our website. It is also submitted to the Regional Office of the MOEF & CC and the MPCB at Nagpur. The pollutant levels, PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) parameters, are monitored and displayed at a convenient location near the main gate of the company in the public domain.

xii.	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 Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions.	Being complied The six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data are regularly submitted to the Regional Office of MOEF& at Nagpur by e-mail and hard copy to MPCB Nagpur.
xiii.	The environmental statement for each financial year ending 31st March in Form-V 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.	We regularly submit an environmental statement with status of compliance of environmental conditions in prescribed Form -V, to MPCB.
xiv.	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 Website of the Ministry of Environment and Forests at http://envfor.nic.in This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers 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 should be forwarded to the Regional office at Bhubaneswar.	The advertisement was published in two local newspapers as per the conditions in the languages English and Marathi.
xv.	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.	Being Complied.

Monitoring Reports and data interpretation

Pollution Control Measures

EML is well versed with their corporate responsibilities and are very keen in undertaking various steps to control the pollution from different environment attribute viz air, noise & water etc.

Air Pollution Control

Installed adequate APC device such as Electrostatic Precipitator (ESP), gas cleaning plant, bag filters are available at plant to achieve emission.

Green Belt Development

A comprehensive plan is envisaged for development of a Green Belt around the perimeter and inside the plant. An experienced horticulturist has been engaged to carry out the plantation program.

- The Green belt development helps in controlling dust emissions as well as acts as barriers for reducing noise levels.
- Dense tree belts, lawns & gardens are developed in & around the plants and colony.
- Trees have been planted on either side of the inside roads used for transportation to arrest the airborne dust.

Noise Pollution Control:

Other than the regular maintenance of the various equipment, ear plugs & ear muffs are provided to all employees working close to the noise generating units. Apart from this, the following steps have been undertaken for reduction of noise level:

- Frequent lubrication of pumps.
- Encasement of noise generating equipment.
- Provided noise-proof cabins to operators.

ENVIRONMENTAL DATA ANALYSIS

Meteorology:

Meteorological data was collected along with the ambient air quality monitoring. The CAAQMS & meteorological is installed in the plant at the locations finalized by MPCB. Wind speed, wind direction, relative humidity and temperatures were recorded at hourly intervals continuously.

Methodology of Sampling

Micro-meteorological data, wind direction, wind speed, temperature and relative humidity values were recorded by using CAAQMS & Micro-meteorological station installed in the plant.

Observations on Primary Data

The site-specific data is presented in Table- 2.1 and is discussed below:

TABLE – 2.1
SUMMARY OF THE METEOROLOGICAL DATA GENERATED AT SITE
(January 2023 – June 2023)

Month	Temperature (°C)		Relative Humidity (%)	
	Max.	Min.	Max.	Min.
January -2023	28.1	14.0	90.0	23.4
February -2023	36.9	15.3	67.9	14.7
March- 2023	39.8	15.9	84.3	18.2
April- 2023	42.9	18.9	89.8	20.6
May-2023	44.0	20.1	90.9	14.9
June- 2023	43.4	22.9	91.6	19.5

1. Temperature

It was observed that the temperature ranged from 14.0°C to 44.0°C. The maximum temperature was recorded in the month of May 2023 as 44.0°C and the minimum temperature was recorded in the month of January 2023 as 14.0°C. The monthly variations in the temperature are presented in Table 2.1.

2. Relative Humidity

During the period of observation, the relative humidity recorded was moderately low to high and ranged from 14.7% to 91.6%. The maximum humidity is 91.6% was observed in the month of June 2023. The lowest is 14.7% recorded in the month of February. The monthly variation in the relative humidity is presented in Table – 2.1.

3. Wind Speed / Direction

The predominant winds along with wind speeds during the study period are discussed below:

- Wind Pattern during January 2023**

The wind speed observed in the period is in the range from calm to 7.1 m/s wind.
The predominant wind direction was ENE for 31 % of the total time.

- Wind Pattern during February 2023**

The wind speed observed in the period is in the range from calm to 7.9 m/s winds.
The predominant wind directions was NNW for 22 % of the total time.

- Wind Pattern during March 2023**

The wind speed observed in the period is in the range from calm to 19 m/s winds.
The predominant wind direction was SSW for 16 % of the total time.

- Wind Pattern during April 2023**

The wind speed observed in the period is in the range from calm to 14.3 m/s winds.
The predominant wind direction was SSW for 19 % of the total time.

- **Wind Pattern during May 2023**

The wind speed observed in the period is in the range from calm to 12.1 m/s winds.
The predominant wind directions was SSW for 22 % of the total time.

- **Wind Pattern during June 2023**

The wind speed observed in the period is in the range from calm to 13.6 m/s winds.
The predominant wind directions were SSW 32 % of the total time.

Ambient Air Quality

The ambient air quality with respect to the study zone around the plant forms the baseline information. All the sampling locations fall within a 10 km radial distance from the plant. To assess the effect of plant activities on the air, environmental parameters like Particulate Matter (PM10) & (PM2.5), Sulphur Dioxide (SO₂) and Nitrogen Dioxide (NO₂) were monitored. The results of monitoring carried out for study period (January 2023 to June 2023) are presented. The details of the sampling locations with respect to the Plant are given below in Table –2.2 (A)

TABLE-2.2 (A)
AMBIENT AIR QUALITY SAMPLING LOCATIONS

Sampling Code	Locations	Sampling Height (mt)	Location Details
AAQ1	Near Time Office	3.5	Represents Core zone air quality
AAQ2	Near Bapukuti Sewagram Village	3.5	Represents air quality
AAQ3	Near Canteen	3.5	Represents Core zone air quality

Methodology of Sampling

Sampling was carried out continuously for twice a week at each station during the study period using pre-calibrated respirable dust Samplers. In each of the stations earmarked, samples were collected for SO₂, NO_x, Particulate Matter (PM10) & (PM2.5). Samples were collected at twenty-four hourly intervals and it were sent to the Laboratory for analysis.

Analytical Procedure

WHATMAN GF/A filter paper was used in the high-volume sampler for PM10 & PM 2.5 and weighed by electronic balance and computed as per standard methods.

Ambient Air samples were analyzed for SO₂ concentration levels using Improved West – Geake method using pre-programmed HACH spectrophotometer at a wavelength of 560 nm. NO_x concentration levels were estimated using Jacob and Hocheiser modified (Na-As) method using pre-programmed HACH spectrophotometer at a wavelength of 540 nm. The survey results of all the sampling locations are presented in Table-2.2(I) & 2.2 (II). Various statistical parameters like maximum and minimum values have been computed from the observed raw data for all the AAQ monitoring stations. The summary of these results for all the locations is presented in Table – 2.2 (B). These are compared with the standards prescribed by the Central Pollution Control Board (CPCB).

2.2.3.1 Observation based on Primary Data

- **AAQ1: Near Time office**

The values for PM10 & PM2.5 ranged from 54 to 89 µg/ m3 & 15 to 51 µg/ m3 during the study period. Similarly, SO2 and NO2 levels were recorded in the range of 7.1 to 21.1 µg/m3 & 7.9 to 24.1 µg/m3 respectively.

- **AAQ2: Bapukuti (Sewagram Village)**

The values for PM10 & PM2.5 ranged from 34 to 74 µg/m3 and 13 to 48 µg/m3 during the study period. Similarly, SO2 and NO2 levels were recorded in the range of 7.5 to 21 µg/m3, and 7.9 to 24. µg/m3 respectively.

- **AAQ3: Near EML Canteen**

The values for PM10 & PM2.5 ranged from 40 to 87 µg/m3 and 16 to 55 µg/m3 during the study period. Similarly, SO2 and NO2 levels were recorded in the range of 6.8 to 17.2 µg/m3, and 6.7 to 19.5 µg/m3 respectively.

TABLE – 2.2 (B)
SUMMARY OF AMBIENT AIR QUALITY RESULT
(January 2023 – June 2023)

Location	PM10		PM 2.5		SO2		NO2	
	Max	Min	Max	Min	Max	Min	Max	Min
Near Time office	89	54	51	15	21.1	7.1	24.1	7.9
Bapukuti (Sewagram Village)	74	34	48	13	21	7.5	24.9	7.9
Near EML Canteen	87	40	55	16	17.2	6.8	19.5	6.7

Note: All values are expressed in µg/m3.

TABLE – 2.2 (I)
AMBIENT AIR QUALITY
LOCATION: NEAR TIME OFFICE

As per National Ambient Air Quality Standards – S.O. 384(E), Notification 11.4.1994 as amended 18.11.2009

Week	Date of Monitoring	PM10 (µg/m3)	PM2.5 (µg/m3)	SO2 (µg/m3)	NO2 (µg/m3)
NAAQMS STANDARD		100	60	80	80
JAN-23					
I	02.01.2023	68	41	12.2	14.5
	03.01.2023	71	36	16.6	17.9
II	09.01.2023	66	32	18.3	19.2
	10.01.2023	72	34	10.2	15.3
III	16.01.2023	70	26	10.8	14.1
	17.01.2023	69	28	12.7	17.3

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IV	23.01.2023	64	41	13.9	14.5
	24.01.2023	68	38	16.4	18.9
V	30.01.2023	71	23	16.2	17.8
	31.01.2023	65	40	16.8	17.7
FEB-23					
I	02.02.2023	73	41	11.4	16.7
	03.02.2023	69	38	12.5	17.9
II	09.02.2023	72	42	18.8	19.6
	10.02.2023	69	42	9.3	11.6
III	16.02.2023	64	38	7.1	13.2
	17.02.2023	65	36	12.7	17.3
IV	23.02.2023	68	33	13.9	14.5
	24.02.2023	63	31	16.4	18.9
MARCH-23					
I	02.03.2023	87	26	10.3	11.0
	03.03.2023	58	35	9.2	12.4
II	09.03.2023	65	26	8.5	10.2
	10.03.2023	72	15	7.7	10.5
III	16.03.2023	68	24	9.4	11.1
	17.03.2023	82	27	10.0	12.5
IV	23.03.2023	69	29	21.1	10.1
	24.03.2023	57	31	10.1	11.8
V	30.03.2023	68	46	10.4	10.7
	31.03.2023	72	42	9.4	7.9
APRIL- 2023					
I	03.04.2023	77	36	13.5	11.0
	04.04.2023	54	34	11.4	12.4
II	10.04.2023	69	29	10.7	11.2
	11.04.2023	76	35	9.8	9.4
III	17.04.2023	69	30	13.5	10.5
	18.04.2023	80	40	11.4	10.7
IV	24.04.2023	65	32	11.8	9.8
	25.04.2023	55	29	10.7	16.4
MAY- 2023					
I	02.05.2023	68	38	11.2	13.7
	03.05.2023	79	46	12.5	15.2
II	09.05.2023	87	48	14.2	20.2
	10.05.2023	79	42	13.2	15.2
III	16.05.2023	68	35	10.1	24.1
	17.05.2023	75	41	15.5	12.3

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IV	22.05.2023	89	51	16.1	16.2
	23.05.2023	76	42	18.1	15.3
V	29.05.2023	82	49	12.5	18.4
	30.05.2023	78	40	13.4	11.2
JUNE- 2023					
I	02.06.2023	89	51	16.1	16.2
	03.06.2023	76	42	18.1	15.3
II	09.06.2023	82	49	12.5	18.4
	10.06.2023	68	30	10.8	13.8
III	16.06.2023	75	45	10.5	12.6
	17.06.2023	72	42	11.9	14.4
IV	22.06.2023	76	46	14.6	12.3
	23.06.2023	73	41	12.5	10.6
V	29.06.2023	69	38	13.0	14.2
	30.06.2023	65	32	11.8	9.8

TABLE – 2.2.(II)
AMBIENT AIR QUALITY
LOCATION: SEWAGRAM NEAR BAPUKUTI

Week	Date of Monitoring	PM10 (µg/m3)	PM2.5 (µg/m3)	SO2 (µg/m3)	NO2 (µg/m3)
NAAQMS STANDARD		100	60	80	80
JAN- 2023					
I	02.01.2023	56	19	13.2	16.2
	03.01.2023	61	21	17.3	19.1
II	09.01.2023	74	16	9.6	14.4
	10.01.2023	68	24	11.4	16.7
III	16.01.2023	57	22	12.5	17.9
	17.01.2023	56	18	18.8	19.6
IV	23.01.2023	70	28	16.2	18.3
	24.01.2023	66	15	18.2	22.1
V	30.01.2023	57	19	21.0	24.9
	31.01.2023	63	13	14.1	16.6
FEB- 2023					
I	02.02.2023	53	19	10.5	17.8
	03.02.2023	50	17	16.4	16.5
II	09.02.2023	56	23	14.5	13.4
	10.02.2023	52	20	12.9	11.9
III	16.02.2023	56	24	10.9	14.2

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	17.02.2023	59	48	11.5	12.6
IV	23.02.2023	57	46	12.2	14.5
	24.02.2023	53	44	16.6	17.9
MARCH-23					
I	02.03.2023	70	22	8.1	8.8
	03.03.2023	55	26	8.4	8.7
II	09.03.2023	61	28	9.4	7.9
	10.03.2023	42	32	8.6	8.9
III	16.03.2023	34	19	8.9	10.8
	17.03.2023	39	25	9.7	13.5
IV	23.03.2023	68	35	7.5	11.4
	24.03.2023	46	28	10.8	12.9
V	30.03.2023	47	16	9.48	13.4
	31.03.2023	51	24	12.84	11.74
APRIL- 2023					
I	03.04.2023	60	30	13.2	10.6
	04.04.2023	55	28	16.2	15.3
II	10.04.2023	68	35	10.2	9.2
	11.04.2023	60	29	18.9	18.6
III	17.04.2023	50	37	20.1	15.3
	18.04.2023	55	46	11.5	14.4
IV	24.04.2023	72	39	9.4	10.2
	25.04.2023	59	48	16.2	12.7
MAY-2023					
I	02.05.2023	59	35	9.1	16.1
	03.05.2023	56	32	12.6	14.6
II	09.05.2023	55	31	11.5	10.6
	10.05.2023	58	30	10.6	12.4
III	16.05.2023	59	34	14.4	10.2
	17.05.2023	67	42	16.5	13.1
IV	22.05.2023	65	38	16.4	16.5
	23.05.2023	55	31	14.5	13.4
V	29.05.2023	58	30	13.2	14.0
	30.05.2023	64	42	12.8	16.2
JUNE-2023					
I	02.06.2023	53	33	12.9	11.9
	03.06.2023	50	29	10.9	14.2
II	09.06.2023	58	35	11.5	12.6
	10.06.2023	54	30	14.4	10.5

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III	16.06.2023	50	45	9.78	12.25
	17.06.2023	59	48	9.16	10.29
IV	22.06.2023	57	46	13.36	13.25
	23.06.2023	53	44	14.29	11.29
V	29.06.2023	67	42	9.1	16.1
	30.06.2023	65	38	12.6	14.6

**** As per National Ambient Air Quality Standards – S.O. 384(E), Notification 11.4.1994 as amended 18.11.2009.**

TABLE- 2 (III)
AMBIENT AIR QUALITY
LOCATION: NEAR EML CANTEEN

Week	Date of Monitoring	PM10 (µg/m3)	PM2.5 (µg/m3)	SO2 (µg/m3)	NO2 (µg/m3)
NAAQMS STANDARD		100	60	80	80
Jan-23					
I	02.01.2023	53	26	9.2	11.2
	03.01.2023	64	31	11.2	14.3
II	09.01.2023	59	24	9	11.2
	10.01.2023	48	22	15.2	18.7
III	16.01.2023	40	16	8.9	12.8
	17.01.2023	61	29	9.3	11.6
IV	23.01.2023	72	31	7.1	13.2
	24.01.2023	59	18	16.2	19.5
V	30.01.2023	68	26	9.4	13.3
	31.01.2023	57	20	10.1	12.2
Feb-23					
I	02.02.2023	69	50	9.2	11.2
	03.02.2023	64	49	11.2	14.3
II	09.02.2023	55	51	9	11.2
	10.02.2023	59	50	15.2	18.7
III	16.02.2023	67	49	8.9	12.8
	17.02.2023	65	55	9.3	11.6
IV	23.02.2023	65	49	7.1	13.2
	24.02.2023	52	45	16.2	19.5
MARCH-23					
I	02.03.2023	76	45	10.3	10.9
	03.03.2023	69	42	10.4	10.8
II	09.03.2023	87	22	10.2	10.6
	10.03.2023	55	27	10.9	13.5
III	16.03.2023	57	28	11.1	11.4

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	17.03.2023	81	26	10.7	11.8
IV	23.03.2023	77	31	9.8	10.7
	24.03.2023	74	25	16.4	7.6
V	30.03.2023	62	19	6.8	9.1
	31.03.2023	57	28	7.6	6.7
APRIL-23					
I	03.04.2023	64	38	15.8	9.2
	04.04.2023	50	37	17.2	18.6
II	10.04.2023	55	28	16.2	15.3
	11.04.2023	68	35	10.2	9.2
III	17.04.2023	60	30	13.2	10.6
	18.04.2023	75	51	15.8	11.5
IV	24.04.2023	85	33	17.2	15.3
	25.04.2023	79	30	13.2	12.5
MAY-23					
I	02.05.2023	62	38	9.7	8.7
	03.05.2023	65	38	9.5	8.9
II	09.05.2023	63	34	10.5	9.7
	10.05.2023	56	30	11.6	10.6
III	16.05.2023	57	31	15.6	13.5
	17.05.2023	68	42	11.4	11.8
IV	22.05.2023	65	40	10.6	12.5
	23.05.2023	56	36	8.9	10.4
V	29.05.2023	54	32	16.4	16.5
	30.05.2023	65	35	14.5	13.4
JUNE-23					
I	02.06.2023	61	51	12.24	9.15
	03.06.2023	67	53	13.26	14.20
II	09.06.2023	69	48	10.35	16.48
	10.06.2023	59	34	12.5	13.2
III	16.06.2023	58	30	10.6	12.4
	17.06.2023	55	28	16.2	15.3
IV	22.06.2023	68	35	10.2	9.2
	23.06.2023	60	30	13.2	10.6
V	29.06.2023	56	32	12.6	14.6
	30.06.2023	58	30	13.2	14.0

Work Place Monitoring

It covers the sampling of workplace air samples for measurement of Particulate Matter i.e., SPM, in workplace location as identified, RMHS, sinter plant, Power Plant, Boiler 40TPH, Blast Furnace-II Coke oven area etc. in Table No. 2.2 A

TABLE – 2.2 A – (I)
MONTH: - JAN – 2023
WORKPLACE AIR QUALITY MONITORING REPORT

Sr.No.	Sections	SPM (ug/m ³)	
		NORMS	ACTUAL
1	Sinter (Transfer Point)	2000	574
2	Sinter (Mixing Area)	2000	1803
3	Boiler 40 TPH (Feeding Area)	2000	890
4	Boiler 40 TPH (Transfer Point)	2000	1138
5	RMHS (Screen Area)	2000	1089
6	RMHS (Transfer Point)	2000	1203

TABLE – 2.2 A – (II)
MONTH: - FEB – 2023
WORKPLACE AIR QUALITY MONITORING REPORT

Sr.No.	Sections	SPM (ug/m ³)	
		NORMS	ACTUAL
1	Boiler 40 TPH (Product Separation Area)	2000	658
2	Coke Oven (Over Size Discharge)	2000	810
3	RMHS (Transfer Point)	2000	531
4	RMHS (Crushing Point)	2000	601
5	Blast Furnace (Transfer Point)	2000	848
6	CPP (Shop Floor)	2000	484

TABLE – 2.2 A – (III)
MONTH: - MARCH – 2023
WORKPLACE AIR QUALITY MONITORING REPORT

Sr.No.	Sections	SPM (ug/m ³)	
		NORMS	ACTUAL
1	RMHS (Stock Bin area	2000	645
2	RMHS Crusher Area (Vibrating Screen)	2000	522
3	Boiler 40 TPH	2000	492
4	Hopper Storage Bin (Sinter Plant-II)	2000	696
5	Hot metal unloading area	2000	551
6	Coke Oven (Transfer Point)	2000	428

TABLE – 2.2 A – (IV)
MONTH: - APRIL – 2023
WORKPLACE AIR QUALITY MONITORING REPORT

Sr.No.	Sections	SPM (ug/m ³)	
		NORMS	ACTUAL
1	RMHS (Wagen Tippler)	2000	214
2	RMHS (Transfer Point Crusher Area)	2000	513
3	Cast House Dedusting (Blast Furnace -II)	2000	1444
4	Oversize Discharge (Sinter Plant-II)	2000	534
5	B.F. Stock House Dedusting Area (Blast Furnace -II)	2000	898
6	Coke Oven (Feed Area)	2000	670

TABLE – 2.2 A – (V)
MONTH: - MAY – 2023
WORKPLACE AIR QUALITY MONITORING REPORT

Sr. No.	Sections	SPM ($\mu\text{g}/\text{m}^3$)	
		NORMS	ACTUAL
1	RMHS (Screen Area)	2000	662
2	RMHS (Crusher Area)	2000	581
3	Mixing Area (Sinter Plant-I)	2000	590
4	Transfer Point (Sinter Plant-I)	2000	729
5	CPP (Transfer Point)	2000	372
6	Boiler 40 TPH (Feed Area)	2000	790

TABLE – 2.2 A – (V)
MONTH: - June - 23
WORKPLACE AIR QUALITY MONITORING REPORT

Sr. No.	Sections	SPM ($\mu\text{g}/\text{m}^3$)	
		NORMS	ACTUAL
1	RMHS (Transfer point)	2000	458
2	RMHS (Vibrating screen)	2000	635
3	Blast Furnace (Transfer point)	2000	1026
4	CPP (Shop Floor)	2000	976
5	Coke Oven (Over Size Discharge)	2000	578
6	Boiler 40 TPH (Production Separation Area)	2000	640

Source Emission Monitoring

There are 6 No. of stacks at various sections to control particulate and gaseous emissions. The technical details are tabulated in Table No. 2.3 (A)

TABLE 2.3 (A)
Details of Stack and Control Equipment's

1	Stack Attached to.	Blast Furnace-2	Sinter Plant exhaust gas de-dusting	Sinter Plant de-dusting system(Tail ESP)	Metallurgical Coke Oven	Steam Generating Boiler	Waste Heat Recovery Steam Generator
2	Stack height	60 mtr	100 mtr	50 mtr	90 mtr	60 mtr	60 mtr
3	Stack diameter	3.2	4.7	3.2	4.0	3.6	2.62
4	Material Of Construction	RCC	RCC	Steel	RCC	RCC	RCC
5	Type of fuel	Coke	Waste Flue Gas	NA	COG	Coal	Blast Furnacegas
6	Consumption of Fuel	1249 MT/Day	5000 Nm3/hr	NA	12500 Nm3/hr	400 TPD	70000 Nm3/hr
7	Control Equipment	Bag Filter	ESP	ESP	Cyclone Dust Collector	ESP	Bag Filter
8	Nature of Pollutants likely to be present	PM, SO ₂ ,NO _x	PM, SO ₂	PM	PM, SO ₂ , NO _x	PM, SO ₂ , NO _x	PM,SO ₂ , NO _x

Methodology of Sampling

The stack sampling was carried out using an **ISO-KINATIC METHOD** using a pre-calibrated stack kit. Cellulose and Glass Fiber thimbles were used for collecting particulate matter. The Sulphur Dioxide is estimated as per IS: 11255 Part –II. NO_x is estimated as per IS: USEPA (PDSA Method).

Results and Discussions

Stack emission monitoring was carried out. The emission rates were meeting the limits prescribed by MPCB and the results were tabulated in Table-2.3 (B) to (G).

TABLE - 2.3 (B)
MONTH: - JAN – 23
STACKS EMISSION REPORT

Sr.No.	Sections	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL
1	Blast Furnace Stove (Phase II)	30	27	250	176	200	159
2	Sinter Plant exhaust gas de-dusting (Main ESP)	50	28	500	BQL (LOQ:10)	-	-
3	Sinter Plant de-dusting system (Tail ESP)	50	21	-	-	-	-
4	Metallurgical Coke Oven	50	20	500	BQL (LOQ:10)	500	22
5	Steam Generating Boiler	50	28	50 ppm	27	-	142
6	Waste Heat Recovery (CPP)	50	22	50 ppm	BQL (LOQ:10)	-	13
7	Blast Furnace DG Set 650 kVA (Phase II)	-	31	-	-	-	-

TABLE - 2.3 (C)
MONTH: - FEB– 2023
STACKS EMISSION REPORT

Sr. No.	Sections	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL
1	Blast Furnace Stove (Phase II)	30	25	250	165	200	160
2	Sinter Plant exhaust gas de-dusting (Main ESP)	50	29	500	77	-	-
3	Sinter Plant de-dusting system (Tail ESP)	50	21	-	-	-	-
4	Metallurgical Coke Oven	50	40	500	116	500	38
5	Steam Generating Boiler	50	34	-	38	-	140
6	Waste Heat Recovery (CPP)	50	22	50 ppm	31	-	48
7	Blast Furnace DG Set 650kVA (Phase II)	-	24	-	-	-	-

TABLE - 2.3 (D)
MONTH: - MARCH – 2023
STACKS EMISSION REPORT

Sr. No.	Sections	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORM S	ACTUAL
1	Blast Furnace Stove (Phase II)	30	25	250	177	200	138
2	Sinter Plant exhaust gas de-dusting (Main ESP)	50	19	500	500	-	-
3	Sinter Plant de-dusting system (Tail ESP)	50	22	-	-	-	-
4	Metallurgical Coke Oven	50	26	500	110	500	40
5	Steam Generating Boiler	50	32	-	221	-	220
6	Waste Heat Recovery (CPP)	50	22	50 ppm	44	-	50
7	Blast Furnace DG Set 650kVA (Phase II)	-	24	-	-	-	-

TABLE - 2.3 (E)
MONTH: - APRIL – 23
STACKS EMISSION REPORT

Sr. No.	Sections	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORM S	ACTUAL
1	Blast Furnace Stove (Phase II)	30	24	250	132	200	148
2	Sinter Plant exhaust gas de-dusting (Main ESP)	50	20	500	39	-	-
3	Sinter Plant de-dusting system (Tail ESP)	50	22	-	-	-	-
4	Metallurgical Coke Oven	50	28	500	44	500	66
5	Steam Generating Boiler	50	30	-	166	-	200
6	Waste Heat Recovery (CPP)	50	24	50 ppm	22	-	60
7	Blast Furnace DG Set 650kVA (Phase II)	-	26	-	-	-	-

TABLE - 2.3 (F)
MONTH: - MAY – 23
STACKS EMISSION REPORT

Sr. No.	Sections	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORM S	ACTUAL
1	Blast Furnace Stove (Phase II)	30	24	250	178	200	158
2	Sinter Plant exhaust gas de-dusting (Main ESP)	50	19	500	BQL (LOQ:10)	-	-
3	Sinter Plant de-dusting system (Tail ESP)	50	20	-	-	-	-
4	Metallurgical Coke Oven	50	20	500	17	500	36
5	Steam Generating Boiler	50	36	-	144	-	228
6	Waste Heat Recovery (CPP)	50	20	50 ppm	19	-	31
7	Blast Furnace DG Set 650kVA (Phase II)	-	36	-	-	-	-

TABLE - 2.3 (G)
MONTH: - JUNE – 23
STACKS EMISSION REPORT

Sr. No.	Sections	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORM S	ACTUAL
1	Blast Furnace Stove (Phase II)	30	21	250	39	200	156
2	Sinter Plant exhaust gas de-dusting (Main ESP)	50	22	500	33	-	-
3	Sinter Plant de-dusting system (Tail ESP)	50	22	-	-	-	-
4	Metallurgical Coke Oven	50	24	500	44	500	30
5	Steam Generating Boiler	50	28	-	44	-	44
6	Waste Heat Recovery (CPP)	50	20	50 ppm	22	-	25
7	Blast Furnace DG Set 650kVA (Phase II)	-	22	-	-	-	-

Waste Water Quality:

ETP effluents were found to be confirmed to the limits prescribed by the MPCB. Analysis results during the study period are shown in Table – 2.4.

TABLE – 2.4
WASTE WATER QUALITY – ETP (Treated)

Parameters	JAN 2023	FEB 2023	MAR 2023	APR 2023	MAY 2023	JUNE 2023	Limits as per MPCB
pH	8.2	8.5	8.1	7.7	8.2	8.2	5.5 – 9.0
Total Suspended Solids (mg/l)	BQL (LOQ:5)	BQL (LOQ:5)	BQL (LOQ:5)	BQL (LOQ:5)	BQL(LOQ:5)	BQL (LOQ:5)	100
Total Dissolve Solids (mg/l)	322	325	259	376	331	250	2100
Chloride (mg/l)	24.0	20	9.0	16.0	19.0	16	600
Sulphate (mg/l)	15.2	22.2	15.8	24.6	23.5	10.3	1000
BOD (3 days at 27 °C) (mg/l)	4.6	5.7	4.7	3.2	5.8	6.1	100
COD (mg/l)	16	20	16	12	20	20	250
Oil and Grease mg/l)	BQL (LOQ:1)	BQL (LOQ:1)	BQL (LOQ:1)	BQL (LOQ:1)	BQL(LOQ:1)	BQL (LOQ:1)	10
Iron (mg/l)	0.166	0.072	BQL(LOQ:0.03)	0.037	0.211	0.031	5.0
Chromium Hexavalent(as Cr6*)	BQL (LOQ:0.02)	BQL (LOQ:0.02)	BQL (LOQ:0.02)	BQL (LOQ:0.02)	BQL(LOQ:0.02)	BQL (LOQ:0.02)	0.1
Total Chromium (as Cr)	BQL (LOQ:0.01)	BQL (LOQ:0.01)	BQL (LOQ:0.01)	BQL (LOQ:0.01)	BQL(LOQ:0.01)	BQL (LOQ:0.01)	2.0
Zinc (as Zn)	0.025	BQL (LOQ:0.02)	BQL (LOQ:0.02)	BQL (LOQ:0.02)	BQL(LOQ:0.02)	0.025	-

ND-Not Detected

1

Noise Levels

Work place Noise measured at different work places.. The ambient noise levels were also measured at four locations, viz. Southern, Northern, Eastern & Western Boundary, during the study period (January 2023 to June 2023). The details of the noise sampling locations are given in Table - 2.5 A & B

- Methodology of Sampling**

The noise monitoring was carried out continuously on hourly basis over a period of one day at each location. The noise level monitoring was carried out using an analog noise level meter.

TABLE- 2.5 (A)
NOISE LEVEL MONITORING LOCATIONS IN SIDE THE PLANT

Sample Code	Locations
NL1	Blast Furnace-2 Front Near Cast house
NL 2	Blast Furnace-2 Near Stock house
NL3	Blast Furnace-2 Near D.G set 650 KVA
NL4	Coke Oven Battery Near D.G Set
NL5	Coke Oven Battery Front
NL6	Coke Oven Battery Rear
NL7	RMHS Near Store
NL8	Sinter Main ID Fan
NL9	Sinter Rear Near MND
NL10	PCM
NL11	Waste Heat Recovery Boiler (CPP) Front
NL 12	Waste Heat Recovery Boiler (CPP) Turbine

TABLE- 2.5 (B)
AMBIENT NOISE LEVEL MONITORING LOCATIONS

Sample Code	Locations
NL13	Southern Boundary
NL14	Northern Boundary
NL15	Eastern Boundary
NL16	Western Boundary

- Results and Discussions**

The noise levels recorded at different locations around the plant during the study period (January 2023 – June 2023) are given in Table 2.5 C to H and Table 2.5 I & J

- a. Day time Noise Levels (L day)**

Industrial Zone: The day time noise levels at all the industrial locations were observed in the range of 68.2 dB (A) to 74 dB (A). The lowest is 68.2 dB (A) was observed at the Southern Boundary in the month of April 2023, while the maximum of 74 dB (A) was recorded at the Northern Boundary in the month of April 2023. The noise levels are within the permissible limits of 75 dB (A) during the study period.

b. Night Noise Levels (L night)

industrial Zone: The night noise levels in all the industrial locations were observed to be in the range of 60.7 dB (A) to 68.6 dB (A). The lowest is 60.7 dB was observed at Eastern Boundary in the month of January 2023, while the maximum of 68.6 dB (A) was recorded at the Northern Boundary in the month of April 2023. The noise levels are within the permissible limits of 70 dB (A) during the study period.

c. Work Zone Noise Levels

The noise levels recorded at the different workplaces in the plant are given in Table-2.5 (I & J). Noise levels near the work zone measured at 4.0 mtr distance from the machines, were found in the range of 70.9 db to 78.2 dB (A), against the OSHA prescribed limits of 90 dB (A) for 8 Hrs. exposure noise level, the lowest at 70.9 dB was observed in the month of June 2023 at PCM, while the maximum of 78.2 dB (A) was recorded in the month of June 2023 at PCM. However, workers at the work zone near the machinery are provided with earmuffs.

**TABLE – 2.5 (C) NOISE LEVEL
JANUARY-2023**

Locations	Noise Level dB(A)			
	L day	Standards	L night	Standards
Eastern Boundary	69.3	75.0	60.7	70.0
Western Boundary	71.5	75.0	67.3	70.0
Northern Boundary	73.9	75.0	64.4	70.0
Southern Boundary	69.4	75.0	65.3	70.0

**TABLE – 2.5 (D) NOISE LEVELS
FEBRUARY – 2023**

Locations	Noise Level dB(A)			
	L day	Standards	L night	Standards
Eastern Boundary	71.4	75.0	65.6	70.0
Western Boundary	69.2	75.0	63.4	70.0
Northern Boundary	70.4	75.0	64.6	70.0
Southern Boundary	71.7	75.0	66.3	70.0

**TABLE – 2.5 (E) NOISE LEVELS
MARCH-2023**

Locations	Noise Level dB(A)			
	L day	Standards	L night	Standards
Eastern Boundary	68.3	75.0	61.1	70.0
Western Boundary	69.4	75.0	65.9	70.0

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791-22-69103600 / +91-22-41557000 | [E hello@evonith.com](mailto:hello@evonith.com) | [Wwww.evonith.com](http://www.evonith.com) | CI/MU27200HR2007PLC037927.

Factory: Bhugaon Link Road, Barbadi, Wardha, Maharashtra – 442001 | **Tel.:** 07152 – 282211 | Einfo@evonith.com

Northern Boundary	74.0	75.0	68.6	70.0
Southern Boundary	68.2	75.0	63.9	70.0

TABLE – 2.5 (F) NOISE LEVELS
APRIL - 2023

Locations	Noise Level dB(A)			
	L day	Standards	L night	Standards
Eastern Boundary	72.2	75.0	63.8	70.0
Western Boundary	70.6	75.0	65.3	70.0
Northern Boundary	71.8	75.0	67.4	70.0
Southern Boundary	70.9	75.0	65.7	70.0

TABLE – 2.5 (G) NOISE LEVELS
MAY- 2023

Locations	Noise Level dB(A)			
	L day	Standards	L night	Standards
Eastern Boundary	71.8	75.0	64.4	70.0
Western Boundary	72.2	75.0	65.6	70.0
Northern Boundary	71.3	75.0	67.5	70.0
Southern Boundary	70.5	75.0	65.6	70.0

TABLE – 2.5 (H) NOISE LEVELS
JUNE -2023

Locations	Noise Level dB(A)			
	L day	Standards	L night	Standards
Eastern Boundary	71.6	75.0	64.8	70.0
Western Boundary	72.0	75.0	64.8	70.0
Northern Boundary	70.9	75.0	66.6	70.0
Southern Boundary	71.4	75.0	67.3	70.0

TABLE – 2.5 (I)
WORK PLACE NOISE LEVELS dB (A)
WORK PLACE NOISE LEVELS dB (A) (January 2023 to March 2023)

Sr. No.	Location	JANUARY 2023		FEBRUARY 2023		MARCH 2023	
		Min	Max	Min	Max	Min	Max
1	Blast Furnace-2 Front Near Cast house	78.9	83.6	83.1	87.3	77.4	82.6
2	Blast Furnace-2 Near Stock house	77.3	86.7	82.5	86.1	75.4	84.4
3	Blast Furnace-2 Near D.G set 650 KVA	78.4	82.4	81.3	85.2	77.1	85.1
4	Coke Oven Battery Near D.G Set	80.4	84.5	84.4	88.2	78.1	83.4
5	Coke Oven Battery Front	77.9	81.9	79.4	82.6	76.2	80.1
6	Coke Oven Battery Rear	73.9	81.1	77.4	81.8	71.9	82.4
7	RMHS Near Store	78.3	82.9	78.2	82.4	78.9	84.1
8	Sinter Main ID Fan	82.9	84.4	82.6	86.6	80.4	83.9
9	Sinter Rear Near MND	76.3	81.0	80.8	84.5	75.1	82.0
10	PCM	74.8	79.6	75.6	79.4	72.1	78.6
11	Waste Heat Recovery Boiler (CPP) Front	81.0	87.4	78.1	82.7	80.1	89.1
12	Waste Heat Recovery Boiler (CPP) Turbine	79.3	85.0	78.6	84.6	77.9	85.6

TABLE – 2.5 (J)
WORK PLACE NOISE LEVELS dB (A) (APRIL 2023 to JUNE 2023)

Sr. No.	Location	APRIL 2023		MAY 2023		JUNE 2023	
		Min	Max	Min	Max	Min	Max
1	Blast Furnace-2 Front Near Cast house	81.8	86.6	80.4	85.4	79.7	87.9
2	Blast Furnace-2 Near Stock house	80.2	83.7	80.6	82.8	79.2	84.0
3	Blast Furnace-2 Near D.G set 650 KVA	80.3	83.4	79.6	82.6	78.6	83.4
4	Coke Oven Battery Near D.G Set	83.2	87.5	82.6	86.3	81.2	86.8
5	Coke Oven Battery Front	78.2	83.7	77.4	81.2	76.4	82.1
6	Coke Oven Battery Rear	74.2	78.7	74.2	77.7	75.6	79.6
7	RMHS Near Store	80.1	84.5	81.2	83.6	78.4	84.9
8	Sinter Main ID Fan	81.4	84.8	80.7	83.5	80.4	84.0
9	Sinter Rear Near MND	77.8	82.6	78.6	81.9	76.4	83.4
10	PCM	73.3	77.6	71.9	75.3	70.9	78.2
11	Waste Heat Recovery Boiler (CPP) Front	84.5	88.6	83.8	86.3	83.6	89.4
12	Waste Heat Recovery Boiler (CPP) Turbine	79.2	82.7	80.5	83.4	77.3	83.4

The maximum limit is 90 db as per The Factories Act, 1948. The Maharashtra Factory Rules, 1963, schedule XXIV