

EVSL/WRD/MOEF/2025

Date: 07.04.2025

To,
The Additional Principal Chief Conservator of Forest (C),
Ministry of Environment Forest & Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building, Civil Lines,
Nagpur-440001.

Subject: Six monthly Environmental Compliance Status and Pollution Monitoring Report for the period October 2024 to March 2025.

Dear Sir,


Please find the enclosed herewith the six monthly Environmental compliance status and Pollution Monitoring Report for the period of October 2024 to March 2025 are as under.

Status of Memorandum as on 31.03.2025

1. Meteorological Report
2. Ambient Air Monitoring Report
3. Stack Monitoring Report
4. Effluent Analysis Report
5. Noise Level Report

Thanking You,
Your Faithfully

Evonith Value Steel Limited


R.K. Sharma

Head -HR

Encl: As above

Six Monthly
***ENVIRONMENTAL
COMPLIANCE STATUS &
POLLUTION MONITORING
REPORT***

(October 2024 — March 2025)

Submitted To

To,
The Additional Principal Chief Conservator of Forests (C),
Ministry Of Environment Forest & Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building, Civil Lines,
Nagpur -440001.

Submitted By-



Evonith Value Steel Limited

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INTRODUCTION

M/s. Evonith Value Steel Limited (EVSL) is one of the major steel manufacturers in India. The unit is located at Village Bhugaon, District Wardha in Maharashtra state. The steel unit has a capacity to manufacture Steel Products 1000000 MT/A hot rolled coils/sheets/plates, 18750 MT/M cold roll coils /sheets and 18750 MT/M galvanized coils/sheets.

The environmental clearance from MoEF is granted vide letter No. J-11011/77/2005-IA II(I) dated 21.06.2005 and name changed vide letter No. J-11011/77/2005-IA II(I) dated 15.03.2022. The MPCB Consent to Operate (Renewal) granted vide Consent No. Format 1.0 /CAC/UAN No.MPCB-CONSENT-0000205976/CR/2407001591, dated 12/07/2024, is valid up to 31.05.2028.

ENVIRONMENTAL COMPLIANCE STATUS REPORT

October 2024 – March 2025

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

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 19 th 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.	Being maintained as per standards. All the emission parameters are maintained as prescribed by the state pollution control board. The state pollution control board also visits the plant and monitors the parameters on a regular basis. Third party CPCB approved and NABL accredited agency also carries the monitoring and results observed are within the prescribed norms. 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	The process effluent is treated in ETP, and the treated water is recycled to the

	<p>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.</p>	<p>maximum extent and the balance quantity is used for slag cooling, gardening, green belt development, and sprinkling for dust suppression. The domestic wastewater, after treatment in STP, is entirely used for gardening in the plant and colony. Boiler blow down - NA</p>
iii	<p>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.</p>	<p>A water sprinkling tanker (2 Nos) is deployed for sprinkling water on internal roads. 55 Nos of water sprinklers have also been installed at internal transport roads. An annual contract is given to M/s. Mahabal Enviro Eng Pvt. Ltd. a MoEF approved agency for environmental monitoring. Data on fugitive emissions is being regularly monitored, and records are maintained.</p>
iv	<p>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</p>	<p>Being ensured. The air pollution control, primary and secondary de-dusting system followed by bag filters are installed to EAF system. Sinter plant -NA</p>
v	<p>The company shall provide gas cleaning system. The waste gas from blast furnace shall be passed through the dust catcher. The waste gases form 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.</p>	<p>Not Applicable. Blast furnace and coke oven plant are not part of this unit.</p>
vi	<p>The company shall undertake measures for installation of continuous ambient air quality monitoring stations and data sent electronically to SPCB/Central Pollution Control Board.</p>	<p>Being Complied as per the locations finalized by MPCB. Data is being sent to SPCB/CPCB control board regularly.</p>

vii	Solid waste would be generated in the form of slag and sold to cement manufacturers. 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 levelling of low lying area and road making. The used oil will be sold to authorized recyclers.	Slag is generated during SMS operation. SMS Slag containing with overall 17 to 20 % Fe is sent to Slag reclamation processing yard for metal recovery, where the slag is crushed and metal is removed by metallic separator. The crushed material will be of three compositions and reused according to Fe contents. i) Material containing more than 70% Fe and of size plus 3 mm reused in the Electrical Arc Furnace. ii) Material containing less than 35% Fe and size less than 6 mm reused in the Sinter plant. iii) The non-magnetic portion of crushed material containing Fe less than 3 to 5 % used in-house for civil work in place of sand & aggregate and back filling of low-lying area. 2. Fly ash & Bottom Ash – NA 3. Used Oil sending to authorized pre-processors. 4. Machine returns and flue dust - used as raw material in sinter plant
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.	Green belt developed as per the consent condition and CPCB guidelines. We have developed around 87 hectares of land under the green belt.
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 carried out regularly as per the Factory Act and the records are maintained.
x	Recommendations made in the Corporate Responsibility for Environment Protection (CREP) should be implemented.	Being implemented as per the CREP guidelines and recommendations.

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.	We are strictly complying with stipulations made by Govt. of Maharashtra and MPCB.
ii	No further expansion or modification in the plant should be carried out without prior approval of the Ministry Of Environment and Forests.	Being adhered to.

iii	At least 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.	CAAQMS has been installed as per the locations finalized by the Maharashtra State Pollution Control Board. Six monthly compliance reports along with monitoring data are submitting regularly to the MOEF&CC Regional Office at Nagpur, and MPCB Nagpur once in six month.
iv	Industrial waste water shall be properly collected treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended form time. The treated waste water should be utilized for plantation purpose.	Industrial wastewater is treated at ETP to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended form time. The treated effluent is reused in the process and the balance is used for SMS Slag cooling, gardening, green belt development, and sprinkling.
v	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including 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)	Industry is taking adequate precautions to control noise levels within the specified limit as per EPA Rule 1989. Preventative maintenance is carried out regularly. Advanced technology and sophisticated instruments are used to maintain noise levels within prescribed standards prescribed under EPA Rules 1989 viz. 75 dBA (daytime) and 70 dBA (night-time)
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 programmers, drinking water supply and health care etc.	These activities are implemented regularly. Regular CSR activities, socio-economic development, community development programs, Education programmers, drinking water supply and health care etc. are being carried out regularly in the surrounding villages, Bhugaon, Barbadi, Chitoda, Inzapur, Selukate, Jamtha, Kurzadi, Jaulgaon, Ashta, Mandavgadh, Bhiwapu, Mirapur, Neri, Dhanora & Nandori.
vii	The project authorities will provide adequate funds both 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 specifically for environmental protection and control of pollution. The funds 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 the stipulated conditions made by CPCB/SPCB. The six-monthly compliance reports and the monitoring data reports are regularly submitted.
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 November also be seen at website of the Ministry of Environment and Forest at http://envror.nic.in the should be advertised within seven days form 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.	This is being adhered to. Advertisement has been given for the clearance letter in two local newspapers widely circulated in the region, in the local languages of Marathi and English.
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

1. POLLUTION CONTROL

1.1. Pollution Control Measures

Evonith Value Steel is well-versed in its corporate responsibilities and is very keen on undertaking various steps to control pollution from different environmental attributes, viz air, noise, and water, etc.

1.2. Air Pollution Control

For removal of dust from the EAFs fuel gas, a high-efficiency APC system called ACGC is installed, and the system is interlocked with the steel melting shop. Additional secondary dedusting system also provided to SMS plant. Scrubbers installed at pickling & ARP for control of source emissions are interlocked with the process, respectively. Water sprinklers are provided for the suppression of fugitive emissions.

1.3. Green Belt Development

- A comprehensive plan is envisaged for the development of a Green Belt around the perimeter and inside the plant. An experienced horticulturist has been engaged to carry out the plantation programmers.
- 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 and around the plant and colony.
- Trees have been planted on either side of the inside roads used for transportation to arrest the air born dust.

1.4. Noise Pollution Control

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

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

2. ENVIRONMENTAL DATA ANALYSIS

2.1. Meteorology

Meteorological data were collected from the online meteorological system installed in the premises. Wind speed, wind direction, relative humidity, and temperatures were recorded at hourly intervals continuously.

2.2. Methodology of Sampling

Micro-meteorological data were observed for wind direction, wind speed, temperature, and relative humidity from the online system.

2.3. 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

(OCTOBER 2024– MARCH 2025)

Month	Temperature (°C)		Relative Humidity (%)	
	Max.	Min.	Max.	Min.
October -2024	31.18	26.8	79.27	60.66
November -2024	29.74	22.31	66.51	54.18
December -2024	28.70	21.42	75.01	47.60
January- 2025	34.19	20.84	69.07	40.92
February – 2025	30.11	24.81	56.43	40.86
March - 2025	34.96	26.53	51.27	31.42

2.4. Temperature

It was observed that the temperature ranged from 20.84°C to 34.96°C. The maximum temperature was recorded in the month March 2025 as 34.96°C and minimum temperature was recorded in the month of January 2025 as 20.84°C. The monthly variations in temperature are presented in Table 2.1.

2.5. Relative Humidity

During the period of observation, the relative humidity recorded was moderately low to high and ranged from 31.42 % to 79.27 %. The maximum humidity, 79.27 %, was observed in October 2024. The lowest, 31.42 %, was recorded in the month of March 2025. The monthly variation in relative humidity is presented in Table 2.1.

2.6. Wind Speed / Direction

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

- **Wind Pattern during October 2024**

The wind speed observed during the period is in the range from calm to 1.49 m/s. The predominant wind direction was SSE for 32.26 % of the total time.

- **Wind Pattern during November 2024**

The wind speed observed during this period is in the range from calm to 1.97 m/s. The predominant wind direction was SSE for 46.67 % of the total time.

- **Wind Pattern during December 2024**

The wind speed observed during this period is in the range from calm to 2.15 m/s. The predominant wind direction was SE for 38.71 % of the total time.

- **Wind Pattern during January 2025**

The wind speed observed during the period is in the range from calm to 9.94 m/s. The predominant wind directions were ESE for 32.26 % of the total time.

- **Wind Pattern during February 2025**

The wind speed observed during the period is in the range from calm to 2.06 m/s. The predominant wind direction was SSW for 28.57 % of the total time.

- **Wind Pattern during March 2025**

The wind speed observed during the period is in the range from calm to 1.90 m/s. The predominant wind direction was SSW for 30 % of the total time.

3. 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 such as Particulate Matter (PM10), (PM2.5), Sulphur Dioxide (SO₂) and Nitrogen Dioxide (NO₂) were monitored. The results of the monitoring carried out during the study period from **October 2024 to March 2025** are presented. The details of the sampling locations with respect to the plant are given in Table –2.2 (A)

TABLE-2.2 (A)
AMBIENT AIR QUALITY SAMPLING LOCATIONS

Sampling Code	Locations	Sampling Height (mt)	Location Details
AAQ1	Bapukuti Sewagram Village	8.0	Represents air quality
AAQ2	Chitoda Village	8.0	Represents air quality
AAQ3	Selukate Village	8.0	Represents air quality
AAQ4	Administrative Building Near	8.0	Represents Core zone air quality

3.1. Methodology of Sampling

Sampling was carried out twice a week at each station during the study period using pre-calibrated respirable dust samplers. At each of the earmarked stations, samples were collected for SO₂, NO₂, Particulate Matter (PM10) & (PM2.5). Samples were collected at twenty-four-hour intervals and sent to the laboratory for analysis.

3.2. Analytical Procedure

WHATMAN GF/A filter paper was used in the High-volume sampler and weighed on an electronic balance and computed as per standard methods.

Ambient Air samples were analyzed for SO₂ concentration levels using the Improved West-Gaeke method with a pre-programmed HACH spectrophotometer at a wavelength of 560 nm. NO_x concentration levels were estimated using the 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 C to E. Various statistical parameters, such as maximum and minimum values, have been computed from the observed raw data for all AAQ monitoring stations. The summary of these results for all locations is presented in Table 2.2 (B). These are compared with the standards prescribed by the Central Pollution Control Board (CPCB).

3.3. Observation based on Primary Data

AAQ1: Bapukuti (Sewagram Village)

The values for PM₁₀ ranged from 27µg/m³ to 94µg/m³ and PM 2.5 ranged from 14 µg/ m³ to 57 µg/ m³ during the study period. Similarly, SO₂ and NO₂ levels were recorded in the range of 5.9 to 22.6 µg/m³ & 7.9 to 25.3µg/m³ respectively.

AAQ2: Chitoda Village

The values for PM₁₀ ranged from 25 µg/ m³ to 82µg/m³ and PM 2.5 ranged from 11µg/m³ to 52µg/m³ during the study period. Similarly, SO₂ and NO₂ levels were recorded in the range of 6.7 µg/m³ to 21.1 µg/m³, and 7.9 to 20.1 µg/m³ respectively.

AAQ3: Selukate Village

The values for PM₁₀ ranged from 25 to 80 µg/ m³ and PM 2.5 ranged from 12µg/m³ to 65µg/m³ during the study period. Similarly, SO₂ and NO₂ levels were recorded in the range of 4.8 to 14.6 µg/ m³ & 7.9 to 21.8 µg/ m³ respectively.

AAQ4: Administrative Building

The values for PM₁₀ ranged from 27 to 94 µg/ m³ and PM 2.5 ranged from 14µg/m³ to 57µg/m³ during the study period. Similarly, SO₂ and NO₂ levels were recorded in the range of 5.9 to 22.6 µg/ m³ & 7.9 to 25.3µg/m³ respectively.

**TABLE – 2.2 (B)
SUMMARY OF AMBIENT AIR QUALITY RESULT**

(OCTOBER 2024– MARCH 2025)

Location	PM10		PM2.5		SO ₂		NO ₂	
	Max	Min	Max	Min	Max	Min	Max	Min
Bapukuti (Sewagram Village)	94	27	57	14	22.6	5.9	25.3	7.9
Chitoda Village	82	25	52	11	21.1	6.7	20.1	7.9
Selukate Village	80	25	65	12	14.6	4.8	21.8	7.9
Administrative Building	94	27	57	14	22.6	5.9	25.3	7.9

Note: All values are expressed in µg/m³.

TABLE – 2.2 (C)
AMBIENT AIR QUALITY
LOCATION: BAPUKUTI SEWAGRAM (On rooftop)

Sr. No	Date of Monitoring	PM 10 ($\mu\text{g}/\text{m}^3$)	PM 2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
October 2024					
I	02/10/2024	72	24	10.2	10.9
	03/10/2024	68	24	5.9	9.2
II	09/10/2024	50	20	9.2	10.2
	10/10/2024	64	15	6.7	8.6
III	14/10/2024	76	36	7.9	10.4
	15/10/2024	73	26	8.6	11.2
IV	21/10/2024	69	23	8.6	14.5
	22/10/2024	81	35	10.2	12.4
V	26/10/2024	67	21	9.4	11.1
	27/10/2024	75	32	9	10.3
November 2024					
I	04/11/2024	86	26	5.9	10.2
	05/11/2024	79	24	6.7	11.6
II	11/11/2024	94	28	7.3	9.1
	12/11/2024	73	26	8.2	12.6
III	18/11/2024	91	31	6.4	9.7
	19/11/2024	86	28	7.2	10.6
IV	25/11/2024	81	26	5.9	9.4
	26/11/2024	92	33	6.4	8.6
December 2024					
I	02/12/2024	70	31	9.7	13.2
	03/12/2024	73	30	10.6	12.1
II	09/12/2024	55	22	9.1	12.8
	10/12/2024	62	24	11.2	13.4
III	16/12/2024	59	33	10.6	13.1
	17/12/2024	53	34	9.7	12.6
IV	23/12/2024	74	25	9.1	10.7
	24/12/2024	68	19	10.4	13.4
V	30/12/2024	59	26	9.8	12.8
	31/12/2024	71	28	11.4	14.5
January 2025					
I	01/01/2025	75	28	10.5	13.1

	02/01/2025	70	23	16.2	19.2
II	08/01/2025	60	25	12.3	17.5
	09/01/2025	82	31	10.6	15.6
III	15/01/2025	73	21	11.7	14.1
	16/01/2025	69	30	13.8	17.3
IV	22/01/2025	63	21	12.4	16.4
	23/01/2025	78	40	22.6	25.3
V	29/01/2025	74	26	14.2	17.2
	30/01/2025	68	37	13.7	14.6
February 2025					
I	03/02/2025	27	14	9.3	10.9
	04/02/2025	57	25	8.4	11.1
II	10/02/2025	67	25	14.2	16.2
	11/02/2025	51	57	10.4	10.8
III	17/02/2025	64	26	10.9	13.5
	18/02/2025	75	31	11.1	12.5
IV	24/02/2025	28	25	10.7	12.8
	25/02/2025	73	24	10.6	8.9
March 2025					
I	03/03/2025	71	28	8.8	10.8
	04/03/2025	29	25	8.5	8.8
II	10/03/2025	74	26	14.2	17.7
	11/03/2025	60	21	8.6	9.1
III	17/03/2025	65	24	8.0	9.6
	18/03/2025	72	21	8.9	11.8
IV	20/03/2025	68	25	8.6	8.9
	21/03/2025	62	16	9.4	7.9
V	24/03/2025	67	19	7.9	12.4
	25/03/2025	51	23	9.4	10.7
Limit		100	60	80	80

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

TABLE – 2.2 (D)
AMBIENT AIR QUALITY
LOCATION: CHITTODA VILLAGE (ON ROOF TOP)

Sr. No	Date of Monitoring	PM 10 ($\mu\text{g}/\text{m}^3$)	PM 2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
October 2024					
I	02/10/2024	74	30	9.1	10.4
	03/10/2024	55	52	10.6	10.6
II	09/10/2024	59	19	7.4	11.1
	10/10/2024	76	26	9.0	9.2
III	14/10/2024	51	23	9.2	10.0
	15/10/2024	73	31	7.8	9.6
IV	21/10/2024	59	24	12.3	11.2
	22/10/2024	65	25	10.2	11.0
V	26/10/2024	71	26	10.2	9.1
	27/10/2024	35	23	8.8	9.1
November 2024					
I	04/11/2024	68	24	6.7	10.5
	05/11/2024	76	21	10.4	11.6
II	11/11/2024	81	25	14.6	18.3
	12/11/2024	56	18	10.3	15.4
III	18/11/2024	82	26	9.8	16.2
	19/11/2024	73	18	7.2	10.8
IV	25/11/2024	65	15	6.8	12.6
	26/11/2024	59	18	9.1	13.1
December 2024					
I	02/12/2024	61	28	11.0	13.2
	03/12/2024	55	23	10.6	12.4
II	09/12/2024	50	22	10.2	15.0
	10/12/2024	71	36	10.6	13.5
III	16/12/2024	59	28	9.8	12.0
	17/12/2024	62	31	7.9	16.2
IV	23/12/2024	67	29	9.6	11.6
	24/12/2024	52	27	10.5	13.2
V	30/12/2024	56	23	10.3	12.7
	31/12/2024	60	29	9.4	11.9
January 2025					
I	01/01/2025	51	15	15.2	18.9

	02/01/2025	62	26	10.5	15.3
II	08/01/2025	47	20	16.4	20.1
	09/01/2025	55	18	12.4	16.7
III	15/01/2025	59	23	16.2	18.6
	16/01/2025	63	24	10.4	13.2
IV	22/01/2025	64	20	11.5	15.4
	23/01/2025	49	19	13.4	18.4
V	29/01/2025	56	17	9.8	12.9
	30/01/2025	51	21	10.3	13.6
February 2025					
I	03/02/2025	53	26	9.2	11.4
	04/02/2025	61	28	8.5	10.8
II	10/02/2025	53	20	12.4	17.5
	11/02/2025	39	19	10.5	12.5
III	17/02/2025	29	11	21.1	12.1
	18/02/2025	42	18	10.1	11.8
IV	24/02/2025	42	20	7.6	10.5
	25/02/2025	35	15	9.4	11.9
March 2025					
I	03/03/2025	58	24	9.7	13.5
	04/03/2025	62	19	7.5	11.4
II	10/03/2025	67	21	12.2	16.3
	11/03/2025	49	24	10.8	12.9
III	17/03/2025	51	24	8.4	8.7
	18/03/2025	43	12	7.9	8.4
IV	20/03/2025	25	25	8.6	8.9
	21/03/2025	63	28	8.9	10.8
V	24/03/2025	64	16	9.4	7.9
	25/03/2025	47	16	8.1	8.8
Limit		100	60	80	80

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

TABLE – 2.2 (E)
AMBIENT AIR QUALITY
LOCATION: SELUKATE VILLAGE (ON ROOF TOP)

Sr. No	Date of Monitoring	PM 10 ($\mu\text{g}/\text{m}^3$)	PM 2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
October 2024					
I	02/10/2024	38	18	10.8	21.8
	03/10/2024	29	25	11.1	14.2
II	09/10/2024	71	23	14.6	18.3
	10/10/2024	46	12	8.5	10.7
III	14/10/2024	51	26	8.4	13.2
	15/10/2024	64	21	9.2	10.3
IV	21/10/2024	72	20	8.6	11.7
	22/10/2024	54	18	10.0	12.6
V	26/10/2024	32	29	9.2	13.2
	27/10/2024	48	65	12.6	10.7
November 2024					
I	04/11/2024	67	21	10.2	11.8
	05/11/2024	59	19	9.8	13.8
II	11/11/2024	79	25	11.4	12.6
	12/11/2024	63	31	11.2	12.4
III	18/11/2024	80	28	9.7	10.5
	19/11/2024	64	19	8.6	11.6
IV	25/11/2024	73	22	6.2	8.9
	26/11/2024	69	17	7.1	11.5
December 2024					
I	02/12/2024	65	24	6.8	9.7
	03/12/2024	51	24	4.8	10.3
II	09/12/2024	46	19	7.8	10.8
	10/12/2024	65	26	4.9	11.2
III	16/12/2024	43	14	5.7	9.4
	17/12/2024	51	16	6.7	10.4
IV	23/12/2024	62	20	4.9	11.6
	24/12/2024	48	19	10.1	9.5
V	30/12/2024	65	17	9.4	10.7
	31/12/2024	54	22	6.2	9.0
January 2025					
I	01/01/2025	56	18	10.5	13.6

	02/01/2025	58	21	6.7	10.5
II	08/01/2025	71	24	9.5	12.3
	09/01/2025	67	17	10.6	16.3
III	15/01/2025	63	22	11.2	17.2
	16/01/2025	75	18	9.7	12.9
IV	22/01/2025	59	20	10.6	13.4
	23/01/2025	64	19	11.2	13.2
V	29/01/2025	62	15	12.4	16.2
	30/01/2025	72	26	9.4	12.7
February 2025					
I	03/02/2025	55	25	8.6	8.9
	04/02/2025	74	20	8.9	10.8
II	10/02/2025	50	21	7.8	10.6
	11/02/2025	51	13	10.4	10.8
III	17/02/2025	64	16	9.4	7.9
	18/02/2025	25	25	8.6	8.9
IV	24/02/2025	29	12	10.0	10.4
	25/02/2025	25	25	8.6	8.9
March 2025					
I	03/03/2025	52	19	8.9	10.8
	04/03/2025	56	20	10.4	10.8
II	10/03/2025	49	16	10.2	13.4
	11/03/2025	61	26	11.1	11.4
III	17/03/2025	55	21	10.4	10.8
	18/03/2025	48	24	8.9	12.4
IV	20/03/2025	53	25	9.0	9.8
	21/03/2025	57	18	10.9	13.5
V	24/03/2025	58	24	10.6	8.9
	25/03/2025	60	22	8.6	8.9
Limit		100	60	80	80

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

TABLE – 2.2 (F)
AMBIENT AIR QUALITY
LOCATION: PLANT BUILDING (ADMINISTRATION OFFICE)

Sr. No	Date of Monitoring	PM 10 ($\mu\text{g}/\text{m}^3$)	PM 2.5 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
October 2024					
I	02/10/2024	72	24	10.2	10.9
	03/10/2024	68	24	5.9	9.2
II	09/10/2024	50	20	9.2	10.2
	10/10/2024	64	15	6.7	8.6
III	14/10/2024	76	36	7.9	10.4
	15/10/2024	73	26	8.6	11.2
IV	21/10/2024	69	23	8.6	14.5
	22/10/2024	81	35	10.2	12.4
V	26/10/2024	67	21	9.4	11.1
	27/10/2024	75	32	9	10.3
November 2024					
I	04/11/2024	86	26	5.9	10.2
	05/11/2024	79	24	6.7	11.6
II	11/11/2024	94	28	7.3	9.1
	12/11/2024	73	26	8.2	12.6
III	18/11/2024	91	31	6.4	9.7
	19/11/2024	86	28	7.2	10.6
IV	25/11/2024	81	26	5.9	9.4
	26/11/2024	92	33	6.4	8.6
December 2024					
I	02/12/2024	70	31	9.7	13.2
	03/12/2024	73	30	10.6	12.1
II	09/12/2024	55	22	9.1	12.8
	10/12/2024	62	24	11.2	13.4
III	16/12/2024	59	33	10.6	13.1
	17/12/2024	53	34	9.7	12.6
IV	23/12/2024	74	25	9.1	10.7
	24/12/2024	68	19	10.4	13.4
V	30/12/2024	59	26	9.8	12.8
	31/12/2024	71	28	11.4	14.5
January 2025					
I	01/01/2025	75	28	10.5	13.1

	02/01/2025	70	23	16.2	19.2
II	08/01/2025	60	25	12.3	17.5
	09/01/2025	82	31	10.6	15.6
III	15/01/2025	73	21	11.7	14.1
	16/01/2025	69	30	13.8	17.3
IV	22/01/2025	63	21	12.4	16.4
	23/01/2025	78	40	22.6	25.3
V	29/01/2025	74	26	14.2	17.2
	30/01/2025	68	37	13.7	14.6
February 2025					
I	03/02/2025	27	14	9.3	10.9
	04/02/2025	57	25	8.4	11.1
II	10/02/2025	67	25	14.2	16.2
	11/02/2025	51	57	10.4	10.8
III	17/02/2025	64	26	10.9	13.5
	18/02/2025	75	31	11.1	12.5
IV	24/02/2025	28	25	10.7	12.8
	25/02/2025	73	24	10.6	8.9
March 2025					
I	03/03/2025	71	28	8.8	10.8
	04/03/2025	29	25	8.5	8.8
II	10/03/2025	74	26	14.2	17.7
	11/03/2025	60	21	8.6	9.1
III	17/03/2025	65	24	8.0	9.6
	18/03/2025	72	21	8.9	11.8
IV	20/03/2025	68	25	8.6	8.9
	21/03/2025	62	16	9.4	7.9
V	24/03/2025	67	19	7.9	12.4
	25/03/2025	51	23	9.4	10.7
Limit		100	60	80	80

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

4. SOURCE EMISSION MONITORING

There are 16 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 Equipments

Sr.No	Stack Attached to.	Stack height	Stack diameter	Material Of Construction	Type of fuel	Consumption of Fuel	Control Equipment	Nature of Pollutants likely to be present	Remark
1	Re-Heating Furnace New	80 mt	4.8 mt	RCC	COG	257480 m ³ /day.	Air Recuperater System	SO ₂ , NO _x , TPM	
2	Re-Heating Furnace old	60 mt	3.0 mt	M.S.	COG	2059.4 m ³ /day	Air Recuperater System	SO ₂ , NO _x , TPM	Furnace not in use
3	Continuous Caster Mill	37 mt	2.0 mt	M.S.	No fuel	-	Stack	-	Only low temp Steam discharge
4	Stackel Mill	35 mt	2.0 mt	M.S.	COG	12000 m ³ /day	-	SO ₂ , NO _x , TPM	
5	Plate Mill	35 mt	2.0 mt	M.S.	L.D.O	0.68 KL/day	-	TPM, SO ₂ , Nox	Not in regular operation
6	Pickling	30 mt	0.8 mt	FRP	No fuel	-	Scrubber	Acid Mist	-
7	ARP 1 & 2	30 mt	0.4 mt	FRP	COG	600 m ³ /hr	Scrubber	Acid Mist	-
8	Aqutherm	30 mt	0.6 mt	M.S.	COG	700 m ³ /hr	Stack	TPM,SO ₂ , Nox	Not in regular operation
9	EAF-1&2 (Secondary De-dusting System)	45 mt	5.4 mt	M.S.	No fuel	-	Bag filters	TPM	

Note: - DG sets, Galvanizing section, & re-heating furnace (old) are not in regular operation. Chimneys of Mill-1 & Mill-2 are for the ventilation system only.

4.1. Methodology of Sampling

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

4.2. Result and Discussions

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

TABLE - 2.3 (B)
MONTH: - October - 2024
STACKS ATTACHED TO THE SECTIONS OF HRM & CRM

Sr. No.	Location	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		Acid Mist (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL
1.	RE HEATING FURNACE (New)	50	29	-	39	-	127	-	-
2.	ARP - 1	-	-	-	-	-	-	35	9.6
3.	ARP - 2	-	-	-	-	-	-	35	11.4
4.	PICKLING	-	-	-	-	-	-	35	19.8
5.	AQUATHERM	150	26	-	39	-	105	-	-
6.	DG Set 1000kVE	-	39	-	39	-	261	-	-
7.	Secondary De-dusting	50	35	-	-	-	-	-	-

Note: Norms as per MPCB Consent

TABLE - 2.3 (C)
MONTH: - November 2024
STACKS ATTACHED TO THE SECTIONS OF HRM & CRM

Sr. No.	Location	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		Acid Mist (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL
1.	RE HEATING FURNACE (New)	50	30	-	44	-	109	-	-
2.	ARP - 1	-	-	-	-	-	-	35	9.2
3.	ARP - 2	-	-	-	-	-	-	35	10.5
4.	PICKLING	-	-	-	-	-	-	35	21.9
5.	AQUATHERM	150	24	-	44	-	92	-	-
6.	DG Set 1000kVE	-	36	-	50	-	284	-	-
7.	Secondary De-dusting	50	29	-	-	-	-	-	-

Note: Norms as per MPCB Consent

TABLE - 2.3 (D)
MONTH – December 2024
STACKS ATTACHED TO THE SECTIONS OF HRM & CRM

Sr. No.	Location	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		Acid Mist (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL
1.	RE HEATING FURNACE (New)	50	28	-	33	-	102	-	-
2.	ARP - 1	-	-	-	-	-	-	35	9.6
3.	ARP - 2	-	-	-	-	-	-	35	8.9
4.	PICKLING	-	-	-	-	-	-	35	19.5
5.	AQUATHERM	150	22	-	37	-	86	-	-
6.	DG Set 1000kVE	-	29	-	42	-	269	-	-
7.	Secondary De-dusting	50	25	-	-	-	-	-	-

Note: Norms as per MPCB Consent

TABLE - 2.3 (E)
MONTH – January 2025
STACKS ATTACHED TO THE SECTIONS OF SMS, HRM & CRM

Sr. No.	Location	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		Acid Mist (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL
1.	RE HEATING FURNACE (New)	50	27	-	44	-	121	-	-
2.	ARP - 1	-	-	-	-	-	-	35	6.9
3.	ARP - 2	-	-	-	-	-	-	35	7.2
4.	PICKLING	-	-	-	-	-	-	35	15.4
5.	AQUATHERM	150	26	-	25	-	97	-	-
6.	DG Set 1000kVE	-	32	-	33	-	297	-	-
7.	Secondary De-dusting	50	24	-	-	-	-	-	-

TABLE - 2.3 (F)
MONTH- February 2025
STACKS ATTACHED TO THE SECTIONS OF SMS, HRM & CRM

Sr. No.	Location	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		Acid Mist (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL
1.	RE HEATING FURNACE (New)	50	27	-	28	-	52	-	-
2.	ARP - 1	-	-	-	-	-	-	35	9.9
3.	ARP - 2	-	-	-	-	-	-	35	11.8
4.	PICKLING	-	-	-	-	-	-	35	24.9
5.	AQUATHERM	150	29	-	34	-	60	-	-
6.	DG Set 1000kVE	-	24	-	34	-	242	-	-
7.	Secondary De-dusting	50	20	-	-	-	-	-	-

TABLE - 2.3 (G)
MONTH – March 2025
STACKS ATTACHED TO THE SECTIONS OF SMS, HRM & CRM

Sr. No.	Location	SPM (mg/Nm ³)		SO ₂ (mg/Nm ³)		NO _x (mg/Nm ³)		Acid Mist (mg/Nm ³)	
		NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL	NORMS	ACTUAL
1.	RE HEATING FURNACE (New)	50	29	-	22	-	44	-	-
2.	ARP - 1	-	-	-	-	-	-	35	13.2
3.	ARP - 2	-	-	-	-	-	-	35	15.1
4.	PICKLING	-	-	-	-	-	-	35	22.2
5.	AQUATHERM	150	31	-	28	-	53	-	-
6.	DG Set 1000kVE	-	24	-	28	-	236	-	-
7.	Secondary De-dusting	50	26	-	-	-	-	-	-

5. WATER QUALITY

Water samplings (groundwater) from three locations were collected to assess the chemical quality. The sampling locations were within a 10 km radial distance from the plant. Three (03) effluent samples were collected from the plant premises.

Samples were collected as per the procedures stipulated in IS: 2488. Parameters like Electrical Conductivity, pH and TDS, Chlorides, Sulphate, Alkalinity and total hardness were analyzed. Samples were collected by taking suitable precautions.

TABLE - 2.4
WATER SAMPLING LOCATIONS

Sample Code	Locations	Source
Ground Water		
GW1	Village Inzapur	Ground Water(Bore well)
GW2	Village Borgaon	Ground Water(Bore well)
GW3	Village Chitoda	Ground Water(Bore well)
Waste Water (Effluents)		
E1	Domestic Effluent (STP Treated)	Effluent 1
E2	Trade Effluent (ETP 1 Treated)	Effluent 2
E3	Trade Effluent (ETP 2 Treated)	Effluent 3

5.1. Methodology of Sampling

Water samples were collected for physical, chemical, and bacteriological parameters, taking suitable precautions. Temperature, pH, Dissolve Oxygen and Electrical Conductivity were measured in the field while collecting the samples.

Sterilized bottles were used to collect samples for bacteriological analysis, stored in the ice and transported to the central laboratory.

5.2. Analytical Procedure

Ground and surface water samples were analyzed as per IS: 10500 (1991), whereas wastewater samples were analyzed as per MPCB Standards. The analytical methods mentioned in IS: 3025 and Standard Methods published by APHA were followed.

5.3. Results and discussions

Ground water collected at three locations within a 10 Km radial distance of plant was analyzed as per IS 10500 to assess the quality of water for portability.

The summary of analyzed parameters is shown in Table 2.4 (A) to (F).

Table - 2.4 (A)
October - 2024

Sr. No	PARAMETER	Concentration (mg/l)		
		GW1 (Village Inzapur)	GW2 (Village Borgaon)	GW3 (Village Chitoda)
1.	pH	7.4	7.1	7.4
2.	TDS	449	564	703
3.	Chloride	80	176	49.5
4.	Alkalinity	196	322	426
5.	Sulphate	56.8	89.2	54.4
6.	Total Hardness	216	564	436

Table - 2.4 (B)
November – 2024

Sr. No	PARAMETER	Concentration (mg/l)		
		GW1 (Village Inzapur)	GW2 (Village Borgaon)	GW3 (Village Chitoda)
1.	pH	7.6	7.2	7.4
2.	TDS	420	744	703
3.	Chloride	82.5	125	49.5
4.	Alkalinity	166	326	426
5.	Sulphate	50.8	86	54.4
6.	Total Hardness	196	544	436

Table - 2.4 (C)
December – 2024

Sr. No	PARAMETER	Concentration (mg/l)		
		GW1 (Village Inzapur)	GW2 (Village Borgaon)	GW3 (Village Chitoda)
1.	pH	7.7	7.4	7.6
2.	TDS	339	692	592
3.	Chloride	81.0	123	57
4.	Alkalinity	114	336	366
5.	Sulphate	47.6	55	27.4
6.	Total Hardness	122	532	376

Table-2.4 (D)
January – 2025

Sr. No	PARAMETER	Concentration (mg/l)		
		GW1 (Village Inzapur)	GW2 (Village Borgaon)	GW3 (Village Chitoda)
1.	PH	7.3	7.4	7.3
2.	TDS	511	636	672
3.	Chloride	73	100	122
4.	Alkalinity	232	312	296
5.	Sulphate	88	84.7	73.2
6.	Total Hardness	338	414	412

Table -2.4 (E)
February – 2025

Sr. No	PARAMETER	Concentration (mg/l)		
		GW1 (Village Inzapur)	GW2 (Village Borgaon)	GW3 (Village Chitoda)
1.	PH	6.9	7.4	7.4
2.	TDS	500	633	419
3.	Chloride	78	124	62
4.	Alkalinity	234	250	210
5.	Sulphate	76.5	95.3	.37.5
6.	Total Hardness	286	398	188

Table -2.4 (F)
March – 2025

Sr. No	PARAMETER	Concentration (mg/l)		
		GW1 (Village Inzapur)	GW2 (Village Borgaon)	GW3 (Village chitoda)
1.	pH	7.4	7.1	7.3
2.	TDS	604	702	581
3.	Chloride	91	124	62.5
4.	Alkalinity	246	300	332
5.	Sulphate	107	71.5	42.8
6.	Total Hardness	344	472	344

5.4. Waste Water Quality

Discharges of effluents were found to conform to the limits prescribed by the MPCB. The metals concentrations were found to be well within the limits. Analysis results during the study period are shown in Table – 2.4 (G) (H) & (I).

TABLE – 2.4 (G)
WASTE WATER QUALITY – DOMESTIC EFFLUENT

TREATED EFFLUENT FROM STP							
Parameters	October 2024	November 2024	December 2024	January 2025	February 2025	March 2025	Limits as per MPCB
Total Suspended Solids (mg/l)	5	5	5	5	6	5	50 mg/l
BOD(3 days at 27 °C) (mg/l)	7	7.5	6.1	3.8	5.9	8	30 mg/l
COD	24	24	24	14	20	28	100 mg/l

Iron (as Fe)	0.325	0.094	0.217	1.327	0.110	0.159	3.0
Zinc (as Zn)	0.02	0.028	0.02	0.041	0.02	0.02	5.0

BQL: Below Quantification Limit; LOQ: Limit Of Quantification.

6. **NOISE LEVELS**

Noise levels vary depending on the various equipment in the plant such as EAF - I, EAF - II, Compressor Room, and Hot Rolling Mill, CRM. Accordingly, noise levels were recorded at four locations to assess the noise levels due to the plant equipment in the work zone like operator's cabin and 4.0 mt from the machinery. The ambient noise levels were also measured at four locations viz. Southern, Northern, Eastern & Western Boundary, during the study period (October 2024 to March 2025). The details of the noise sampling locations are given in Table - 2.5 A & B

6.1. **Methodology of Sampling**

Noise levels measurements were recorded at 4.0 m away from the noise-generating sources. The noise monitoring was carried out continuously on an hourly basis over a period of one day at each location. The noise levels monitoring was carried out using an analog noise level meter.

6.2. **Analytical Procedure**

A spot noise level was recorded in Decibels dB (A) for all the plant equipment and operations at the distance of 4.0 m from each equipment using a precision noise level meter. Ambient Noise levels were measured at 4 locations.

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

Sample Code	Locations
NL 1	Inside of SMS-1
NL 2	Inside of SMS-2
NL 3	Re-Heating Furnace
NL 4	Hot Rolling Mill
NL 5	CRM-1
NL 6	CRM-2
NL 7	QC Workshop
NL 8	DG Set (1000KVA)

TABLE- 2.5 (B)
AMBIENT NOISE LEVEL MONITORING LOCATIONS

Sample Code	Locations
NL 9	Southern Boundary
NL10	Northern Boundary
NL11	Eastern Boundary
NL12	Western Boundary

6.3. Result and Discussions

The noise levels recorded at different locations around the plant during the study period (October 2024 to March 2025) are given in Table 2.5 C to H and Table 2.5 I & J

6.3.1. Day time Noise Levels (L day)

Industrial Zone: The daytime noise levels in all the industrial locations were observed to be in the range of 69.4 dB (A) to 74.3 dB (A). The lowest 69.4 dB (A) was observed at Eastern Boundary in the month of November, while the maximum level of 74.3 dB (A) was recorded at the Western Boundary in the month of October. The noise levels are within the permissible limits of 75 dB (A) during the study period.

6.3.2. Night time Noise Levels (L Night)

Industrial Zone: The night noise levels in all the industrial locations were observed to be in the range of 63.3 dB (A) to 68.7 dB (A). The lowest, 63.3 dB (A) was observed at the Eastern Boundary in the month of March, while the maximum, 68.7 dB (A) was recorded at the Western boundary in the month of October. The noise levels are within the permissible limits of 70 dB (A) during the study period.

6.4. 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 a 4.0 m distance from the machinery, were found to be in the range of 67.8 to 89.4 dB(A), against the OSHA prescribed limit of 90 dB(A) for 8 Hrs. exposure. Max 89.4 dB (A) observed in the month of March and Min 67.8 dB (A) observed in the month of January. However, workers at the work zone near the machinery are provided with earmuffs.

6.5. Insertion loss:

The insertion losses measured near D.G 1000 kVA are given in Table-2.5(K). Max 26.1 dB(A) insertion loss observed in the month of February, while Min 25.5 dB(A) observed in the month of January.

**TABLE – 2.5 (C) NOISE LEVELS
October 2024**

Locations	Noise Level dB(A)			
	Day Time	Standards	Night Time	Standards
Eastern Boundary	73.6	75	67.3	70
Western Boundary	74.3	75	68.7	70
Northern Boundary	73.5	75	67.4	70
Southern Boundary	73.1	75	66.3	70

Standards as per the Noise Pollution (Regulation and Control) Rules, 2000

**TABLE – 2.5 (D) NOISE LEVELS
November 2024**

Locations	Noise Level dB(A)			
	Day Time	Standards	Night Time	Standards
Eastern Boundary	69.4	75	63.8	70
Western Boundary	72.4	75	66.8	70
Northern Boundary	71.2	75	65.8	70
Southern Boundary	69.9	75	64.6	70

Standards as per the Noise Pollution (Regulation and Control) Rules, 2000

**TABLE – 2.5 (E) NOISE LEVELS
December 2024**

Locations	Noise Level dB(A)			
	Day Time	Standards	Night Time	Standards
Eastern Boundary	71.8	75	67.9	70
Western Boundary	70.3	75	65.4	70
Northern Boundary	69.9	75	64.3	70
Southern Boundary	70.1	75	63.8	70

Standards as per the Noise Pollution (Regulation and Control) Rules, 2000

**TABLE – 2.5 (F) NOISE LEVELS
January 2025**

Locations	Noise Level dB(A)			
	Day Time	Standards	Night Time	Standards
Eastern Boundary	71.8	75	67.9	70
Western Boundary	70.3	75	65.4	70
Northern Boundary	69.9	75	64.3	70
Southern Boundary	70.1	75	63.8	70

Standards as per the Noise Pollution (Regulation and Control) Rules, 2000

**TABLE – 2.5 (G) NOISE LEVELS
February 2025**

Locations	Noise Level dB(A)			
	Day Time	Standards	Night Time	Standards
Eastern Boundary	71.8	75	65.4	70
Western Boundary	72.2	75	67.3	70
Northern Boundary	72.9	75	66.6	70
Southern Boundary	70.8	75	64.7	70

Standards as per the Noise Pollution (Regulation and Control) Rules, 2000

**TABLE – 2.5 (H) NOISE LEVELS
March 2025**

Locations	Noise Level dB(A)			
	Day Time	Standards	Night Time	Standards
Eastern Boundary	70.8	75	63.3	70
Western Boundary	69.7	75	64.4	70
Northern Boundary	70.5	75	65.1	70
Southern Boundary	71.6	75	67.3	70

Standards as per the Noise Pollution (Regulation and Control) Rules, 2000

**TABLE – 2.5 (I)
WORKPLACE NOISE LEVELS dB(A)**

Sr. No.	Location	October 2024		November 2024		December 2024		Limit dB (A)
		Min.	Max.	Min.	Max.	Min.	Max.	
1	Inside of SMS-1	80.7	85.8	82.9	86.8	83.1	89.2	90
2	Inside of SMS-2	80.2	84.5	83.1	87.4	82.9	87.1	90
3	Re-Heating Furnace	74.8	78.7	78.9	81.8	78.9	79.9	90
4	Hot Rolling Mill	80.3	84.1	78.6	83.1	78.4	80.9	90
5	CRM-1	78.5	83.8	80.6	85.4	81.9	87.4	90
6	CRM-2	79.4	82.3	80.4	82.9	80.9	84.1	90
7	QC Workshop	76.3	79.7	78.1	81.3	80.2	83.9	90
8	DG Set (1000KVA)	71.2	73.7	69.6	72.4	69.3	71.8	75

TABLE – 2.5 (J)
WORKPLACE NOISE LEVELS dB(A)

Sr. No.	Location	January 2025		February 2025		March 2025		Limit dB (A)
		Min.	Max.	Min.	Max.	Min.	Max.	
1	Inside of SMS-1	78.4	86.7	82.1	87.6	80.7	83.4	90
2	Inside of SMS-2	79.8	85.5	81.6	84.9	80.4	84.9	90
3	Re-Heating Furnace	75.4	77.8	83.2	86.6	81.2	87.5	90
4	Hot Rolling Mill	76.9	82.4	79.5	82.8	78.2	80.7	90
5	CRM-1	79.7	85.9	83.9	88.2	78.5	79.7	90
6	CRM-2	77.6	81.4	80.6	84.9	81.8	87.3	90
7	QC Workshop	77.5	81.9	73.1	76.4	83.2	89.4	90
8	DG Set (1000KVA)	67.8	74.2	68.9	72.6	71.4	73.7	75

Max Limit as per The Factories Act, 1948. The Maharashtra Factory rules, 1963, Schedule XXIV

TABLE – 2.5 (k)
INSERTION LOSS MEASUREMENT dB(A)

MONTH	LOCATION	INSERTION LOSS
October-2024	D.G Set 1000 kVA	25.6 dB(A)
November-2024	D.G Set 1000 kVA	26.0 dB(A)
December-2024	D.G Set 1000 kVA	25.7 dB(A)
January-2025	D.G Set 1000 kVA	25.5 dB(A)
February-2025	D.G Set 1000 kVA	26.1 dB(A)
March-2025	D.G Set 1000 kVA	26.0 dB(A)

Limit as per EPA Rule 1986:

a) For rated capacity more than 1000 kVA, insertion loss of Min. 25dB(A) or meeting the ambient noise standards whichever is on the higher side at different points at 0.5 m from the acoustic enclosure and averaged.

b) For rated capacity up to 1000 kVA, manufactured on or after the 1st April 2005, the maximum permissible sound pressure level shall be 75 dB(A) at 1 m from the enclosure surface.

ANNEXURE – 1
AMBIENT AIR MONITORING STATIONS

The ambient air quality is monitored for the parameters PM10, PM2.5, SO2 & NO2 at the following stations.

1. PLANT BUILDING
2. VILLAGE SEWAGRAM AT BAPUKUTI
3. VILLAGE SELUKATE
4. VILLAGE CHITTODA



RDS "Envirotech Model APM 460 BL & APM 411



CAAQMS installed