



गेल (इंडिया) लिमिटेड

(भारत सरकार का उपक्रम - महारत्न कंपनी)

GAIL (India) Limited

(A Government of India Undertaking - A Maharatna Company)

पेट्रोकेमिकल कॉम्प्लेक्स,
मु.उसर, पोस्ट-मल्याण,
तालुका - अलिबाग, जिला रायगड,
महाराष्ट्र - 402 203

Petrochemical Complex
At - Usar, Post - Malyan,
Tal - Alibag, Dist - Raigad,
Maharashtra - 402 203.
GSTN : 27AAACG1209J3ZU

No. GAIL/USAR/PDHPP/MOEFCC/HY/2024/01

04.05.2024

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

Ref.: F.No. J-11011/464/2017-IA-II(I) dated 13.10.2020

Subject: Submission of compliance status to the conditions of Environmental Clearance accorded for setting up of 500 KTA Propane dehydrogenation unit integrated with Polypropylene unit by M/s. GAIL (India) Limited at Usar Industrial Area, Village-Usar, Tehsil- Alibag, District- Raigad (Maharashtra)

Dear Sir,

Please find enclosed herewith compliance status to the conditions of Environmental Clearance accorded for setting up of 500 KTA Propane Dehydrogenation unit integrated with Polypropylene Unit to M/s. GAIL (India) Limited, Usar.

This project is under initial stage and the compliance is for the period of October 2023 to March 2024.

Thanking You,

Yours Truly,

Anup Gupta
Chief General Manager (PDH-PP Projects)

Enclosure: Half Yearly EC compliance (October 2023 to March 2024)

पंजीकृत कार्यालय :

गेल भवन, 16 भीकाएजी कामा प्लेस

नई दिल्ली - 110 066, इंडिया

REGD. OFFICE :

GAIL BHAWAN, 16 BHIKAJI CAMA PLACE

NEW DELHI - 110 066, INDIA.

सीआईएन / CIN

L402200DL1984GOI018976

www.gailonline.co.in

(xix)	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.	Shall be complied with.
(xx)	Recommendations of mitigation measures from possible accident shall be implemented based on Risk Assessment studies conducted for worst case scenarios using latest techniques.	Shall be complied with.
Compliances of terms and conditions (B. General Conditions):		
(i)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted and shall be complied with.
(ii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Noted and shall be complied with.
(iii)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noted and shall be complied with.
(iv)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	In line with the directions of District Administration, Agreements with respective Group Grampanchayat of villages in vicinity of the plant premises is being executed for implementation of CER Projects.
(v)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	Noted and shall be complied with.
(vi)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Compl ed.
(vii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Complied and will be further ensured
(viii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	The proposed Project is under various stage of Design and tendering and submission of Environment Statement (Form-V) will be undertaken after Plant commercial operation.
(ix)	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/Committee and may also be seen at Website of the Ministry and at https://parivesh.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 shall be forwarded to the concerned Regional Office of the Ministry.	Complied. Has been advertised on 20th October, 2020. A copy of same has been sent to MoEF&CC Regional Office at Nagpur.
(x)	The 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 start of the project.	Noted and shall be complied with.
(xi)	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.

N. Jeyaraj

Compliance of Environmental Clearance conditions for the period 1st October 2023 to 31st March 2024		
Project: Setting up of 500 KTA Propane Dehydrogenation unit integrated with Polypropylene Unit by M/s GAIL India Limited		
Reference No.: F. No. J-11011/464/2017-IA-II(I) dated 13th October, 2020		
Compliances of terms and conditions (A. Specific Conditions):		
(i)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	Shall be complied with.
(ii)	As already committed by the Project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. All the waste water to be collected and to be reused after treatment	ZLD is included in design and shall be implemented
(iii)	To control source and the fugitive emissions, suitable pollution control devices shall be installed with different stacks to meet the prescribed norms as notified by MOEFCC 2012 for new refineries.	Shall be complied with.
(iv)	Total fresh water requirement shall not exceed 480 m ³ /hour to be met from MIDC water supply. Necessary permission in this regard shall be obtained from the concerned regulatory authority.	Noted and shall be complied with.
(v)	Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Shall be complied with.
(vi)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.	Shall be complied with.
(vii)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry	Shall be complied with.
(viii)	Regular VOC monitoring shall be done at vulnerable points.	Shall be complied with.
(ix)	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.	Shall be complied with during the operation phase of the Plant.
(x)	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MEF&CC. Outcome from the report to be implemented for conservation scheme.	Shall be complied with during the operation phase of the Plant.
(xi)	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.	Shall be complied with.
(xii)	The company shall undertake waste minimization measures as below: -	
	(a) Metering and control of quantities of active ingredients to minimize waste.	
	(b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	
	(c) Use of automated filling to minimize spillage.	
	(d) Use of Close Feed system into batch reactors.	
	(e) Venting equipment through vapour recovery system.	
	(f) Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.	
(xiii)	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Noted and Shall be complied with.
(xiv)	As committed Rs. 20.77 crores shall be allocated for Corporate Environment Responsibility (CER) shall be utilized for meeting the commitment of the issues of public hearing. The CER plan shall be completed before commissioning of the expansion of the project.	In line with the directions of District Administration, Agreements with respective Group Grampanchayat of villages in vicinity of the plant premises is being executed for implementation of CER Projects.
(xv)	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Shall be complied with.
(xvi)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Shall be complied with.
(xvii)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	Shall be complied with.
(xviii)	PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	Shall be complied with.

Test Report

Issued To **GAIL India Limited**
PDH-PP Project
At & Post-Usar, Tal: Alibag
Distt. Raigad-402203

ULR No. : TC636624000002213F
Test Report Date: 27/03/2024

Sample Particulars

Nature of the Sample : **Ambient Noise**
Date of Sampling : **16/03/2024**
Purpose of Monitoring : **To Check the Pollution Load**
Parameter Tested : **Noise Level, Leq dB (A)***
Instrument Used : **Sound Level Meter**
Place of Monitoring : **Near Lab**

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night-time	Test Method
Permissible Limit in *dB(A) Leq For Industrial Area		75 dB(A)	70 dB(A)	
1	Near Lab	71.8	57.1	IS 9989

Remark:

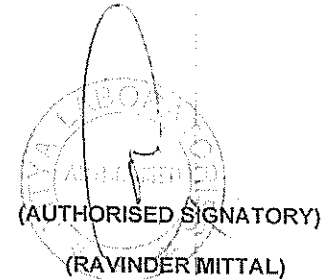
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



TC-6366



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CORPORATE OFFICE & CENTRAL LABORATORIES :-

PLOT NO. 118, CHURCH ROAD, BEHIND KAUSIK VATIKA, BHAGAT SINGH COLONY, BALLABHGARH, FARIDABAD - 121004, HARYANA, INDIA

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Test Report

Issued To **GAIL India Limited**
PDH-PP Project
At & Post-Usar, Tal: Alibag
Distt. Raigad-402203

ULR No. : TC63662400002212F
Test Report Date: 27/03/2024

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Date of Sampling : 16/03/2024
Time of Sampling (Hrs) : 04:20PM
Sample Received at Lab : 19/03/2024
Test Started on : 19/03/2024
Test Completed : 26/03/2024
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Sampling Location : Near Lab
Avg. Flow Rate of Air for RDS (m3/min) : 1.12
Avg. Flow Rate of Air for FPS (m3/hr) : 0.99
Monitoring Conducted By : Mr. Shubham Gautam
Ambient Temperature (°C) : 29
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	43.16	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	84.60	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	22.50	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	31.10	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), µg/m ³	32.50	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/m ³	ND	1	24 hrs	NL/SO ₂ /AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.24	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), µg/m ³	47.60	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m ³	ND	20	Annual	NL/SO ₂ /AAQ-13
10.	Arsenic (as As), ng/m ³	ND	6	Annual	NL/SO ₂ /AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m ³	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), µg/m ³	ND	5	Annual	IS:5182 (P-11)

Remarks:

*NAAQS - National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-I-ssc -3(i)] 16.11.2009



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CORPORATE OFFICE & CENTRAL LABORATORIES :-

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Test Report

Issued To **GAIL India Limited**
PDH-PP Project
At & Post-Usar, Tal: Alibag
Distt. Raigad-402203

ULR No. TC6366240G0002221F
Test Report Date: 27/03/2024

Sample Particulars

Nature of the Sample : Ambient Noise
Date of Sampling : 16/03/2024
Purpose of Monitoring : To Check the Pollution Load
Parameter Tested : Noise Level, Leq dB (A)*
Instrument Used : Sound Level Meter
Place of Monitoring : Fire Station

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time	Test Method
Permissible Limit in *dB(A) LeqFor Industrial Area		75 dB(A)	70 dB(A)	
1	Fire Station	70.5	62.9	IS 9989

Remark:

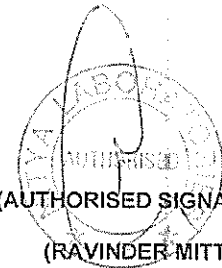
*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



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Test Report

Issued To **GAIL India Limited**
PDH-PP Project
At & Post-Usar, Tal: Alibag
Distt. Raigad-402203

ULR No. : TC636624000002220F
Test Report Date: 27/03/2024

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Date of Sampling : 16/03/2024
Time of Sampling (Hrs) : 04:50 PM
Sample Received at Lab : 19/03/2024
Test Started on : 19/03/2024
Test Completed : 26/03/2024
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Sampling Location : Fire Station
Avg. Flow Rate of Air for RDS (m3/min) : 1.12
Avg. Flow Rate of Air for FPS (m3/hr) : 0.99
Monitoring Conducted By : Mr. Shubham Gautam
Ambient Temperature (°C) : 29
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	43.90	60	24 hrs	40 CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	84.50	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	26.20	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	33.20	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), µg/m ³	29.80	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/m ³	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.48	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), µg/m ³	43.50	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m ³	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m ³	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m ³	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), µg/m ³	ND	5	Annual	IS:5182 (P-11)

Remark: *NAAQS - National Ambient Air Quality Standards, Schedule-VII, [Rule 3 (3B)], [Part-II-sec-3(i)] 16.11.2009



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Test Report

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PDH-PP Project
At & Post-Usar. Tal: Alibag
Distt. Raigad-402203

ULR No. : **TC636624000002217F**
Test Report Date: **27/03/2024**

Sample Particulars

Nature of the Sample : **Ambient Noise**
Date of Sampling : **23/12/2023**
Purpose of Monitoring : **To Check the Pollution Load**
Parameter Tested : **Noise Level, Leq dB (A)***
Instrument Used : **Sound Level Meter**
Place of Monitoring : **Admin Building**

Analysis Report

Sr. No.	Location	Test Result dB(A)	Test Result dB(A)	Test Method
		Day Time	Night Time	
Permissible Limit in *dB(A) LeqFor Industrial Area		75 dB(A)	70 dB(A)	
1	Admin Building	70.6	63.3	IS 9989

Remark:

*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



TC-6366



(AUTHORISED SIGNATORY)
(RAVINDER MITTAL)

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Test Report

Issued To **GAIL India Limited**
PDH-PP Project
At & Post-Usar, Tal: Alibag
Distt. Raigad-402203

ULR No. : **TC636624000002216F**
Test Report Date: **27/03/2024**

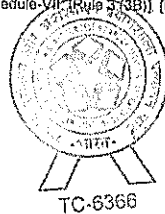
Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Date of Sampling : **23/12/2023**
Time of Sampling (Hrs) : **03:30 PM**
Sample Received at Lab : **19/03/2024**
Test Started on : **19/03/2024**
Test Completed : **26/03/2024**
Purpose of Monitoring : **To Check the Pollution Load**
Method of Sampling : **IS 5182 (Part 14)**
Sampling Location : **Admin Building**
Avg. Flow Rate of Air for RDS (m3/min) : **1.10**
Avg. Flow Rate of Air for FPS (m3/hr) : **1.00**
Monitoring Conducted By : **Mr. Shubham Gautam**
Ambien: Temperature (°C) : **27**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	35.80	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	87.80	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	25.10	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	34.40	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), µg/m ³	35.80	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/m ³	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.26	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), µg/m ³	48.20	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m ³	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m ³	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m ³	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), µg/m ³	ND	5	Annual	IS:5182 (P-11)

Remark: *BAAQS – National Ambient Air Quality Standards, Schedule-VI, (Rule 3(3B)) [Part-II-sec.-3(i)] 16.11.2009



TC-6366

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Test Report

Issued To **GAIL India Limited**
PDH-PP Project
At & Post-Usar, Tal: Alibag
Distt. Raigad-402203

ULR No. **TC636624000002215F**
Test Report Date. **27/03/2024**

Sample Particulars

Nature of the Sample : **Ambient Noise**
Date of Sampling : **16/03/2024**
Purpose of Monitoring : **To Check the Pollution Load**
Parameter Tested : **Noise Level, Leq dB (A)***
Instrument Used : **Sound Level Meter**
Place of Monitoring : **Near Sub Station**

Analysis Report

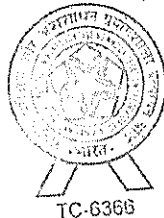
Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night-time	Test Method
Permissible Limit in *dB(A) LeqFor Industrial Area		75 dB(A)	70 dB(A)	
1	Near Sub Station	71.4	62.1	IS 9989

Remark:

*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



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Test Report

Issued To **GAIL India Limited**
PDH-PP Project
At & Post-Usar, Tal: Alibag
Distt. Raigad-402203

ULR No. : **TC6366240000C2214F**
Test Report Date: **27/03/2024**

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Date of Sampling : **16/03/2024**
Time of Sampling (Hrs) : **03:10 PM**
Sample Received at Lab : **19/03/2024**
Test Started on : **19/03/2024**
Test Completed : **26/03/2024**
Purpose of Monitoring : **To Check the Pollution Load**
Method of Sampling : **IS 5182 (Part 14)**
Sampling Location : **Near Sub Station**
Avg. Flow Rate of Air for RDS (m3/min) : **1.10**
Avg. Flow Rate of Air for FPS (m3/hr) : **1.00**
Monitoring Conducted By : **Mr. Shubham Gautam**
Ambient Temperature (°C) : **29**
Sampling Duration (Hrs.) : **24 Hrs.**

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	42.73	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	87.80	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	19.40	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	26.10	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), µg/m ³	31.10	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m ³	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.05	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), µg/m ³	48.20	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m ³	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m ³	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m ³	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), µg/m ³	ND	5	Annual	IS:5182 (P-11)

Remark:

*NAAQS – National Ambient Air Quality Standards, Schedule-VII [Rule 3(3B)] Part-II-sec-3(i) 16.11.2009



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