

(भारत सरकार का उपक्रम – महारत्न कंपनी)

GAIL(India) Limited

(A Government of India Undertaking-A Maharatna Company)

No. GAIL/USAR/PDHPP/MOEFCC/HY/2022/01

पेट्रोकेमिकल कॉम्पलेक्स मु. उसर, पोस्ट – मल्याण, तालुका – अलिबाग, जिला – रायगड, महाराष्ट्र – ४०२ २०३

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

01.10.2022

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 April 2022 to September 2022.

Thanking You,

Yours Truly,

Anup Gupta

Chief General Manager (PDH-PP Projects)

anup.gupta@gail.co.in

Enclosure: Half Yearly EC compliance (April 2022 – September 2022)

पंजीकृत कार्यालय : गेल भवन, १६ भीकाएजी कामा प्लेस नई दिल्ली – ११० ०६६, इंडिया

(Compliance of Environmental Clearance conditions for the period 1st April	2022 to 30th September 202
Proj	ect: Setting up of 500 KTA Propane Dehydrogenation unit integrated with Polypropyle Reference No.: F. No. J-11011/464/2017-IA-II(I) dated 13th October	; 2020
Compli	ances 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 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 m3/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
(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 dur operation phase of the Pl
(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 dur operation phase of the P
(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.	Noted and shall be complied
	(c)Use of automated filling to minimize spillage.	Noted and shall be complied applicable.
	(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. The green belt of 5-10 m width shall be developed in more than 33% of the total	
(xiii)	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 complie
(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.	Shall be complied with. St implemented in consultatio District Administratio
(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 wit
(xvii)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the	Shall be complied wit
(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 wit

(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.
Complia	nces 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.
(îv)	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.	Noted and shall be complied with.
(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.	Complied.
(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 Enviornment 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 MoEFCC 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.





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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag

Distt. Raigad-402203

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By

Ambient Temperature (°C) Sampling Duration (Hrs.) ULR No.:

TC636622000000862F

Test Report Date:

15/09/2022

Ambient Air Quality Monitoring

03/09/2022

02:10 PM

, 02.10 114

08/09/2022

14/09/2022

: To Check the Pollution Load

IS 5182 (Part 14)

Near Sub Station

: 1.14

: 1.00

. 1.00

: Mr. Veerpal

31

24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), μg/m ³	30.14	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	84.28	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO₂), µg/m³	8.42	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO _{2),} ug/m ³	14.26	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), ug/m ^{3*}	18.14	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), μg/ m³*	ND	i	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m³	1.01	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), ug/m ³	38.16	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³*	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND	6	Annual	NC/SOP/AAQ-12

Remark *NAAQS — National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [10.11.2005]

(AU HORISED SIGNATORY)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related they be the Sample tested. Test report shall not be reproduced except in full, without himself the laboratory this report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the wintern approvate of this organization. Samples will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of filing Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time 17 you have any complaint/feedback regarding the sample collection/testing/test report, please send an entitled in fo@nitivalab.com and call at +91-191-2465597, +91-9873924093

CORPORATE OFFICE & CENTRAL LABORATORIES:

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



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15/09/2022

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag

Distt. Raigad-402203

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By

Ambient Temperature (°C) Sampling Duration (Hrs.) Ambient Air Quality Monitoring

Test Report No. :

Test Report Date:

03/09/2022

02:10 PM

08/09/2022

14/09/2022

To Check the Pollution Load

IS 5182 (Part 14)

Near Sub Station

1.14

1.14

: 1.00

: Mr. Veerpal

: 31

: 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1	Benzo(a)pyrene (as BAP), ng/m³*	ND	1	Annual	IS:5182 (P-12)
2	Benzene (C ₆ H ₆), ug/m³*	ND	5	Annual	IS:5182 (P-11)

Remark:

*NAAQS — National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-II-sec.-3(i)] 16.11.2009

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Test Report

GAIL India Limited Tssued To

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitorina Conducted By Ambient Temperature (°C)

Sampling Duration (Hrs.)

ULR No.:

TC636622000000863F

Test Report Date:

15/09/2022

Ambient Air Quality Monitoring

03/09/2022

02:50 PM

08/09/2022

14/09/2022

To Check the Pollution Load

IS 5182 (Part 14)

Near Mechanical Deptt.

1.14

0.99

Mr. Veerpal

32

24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), μg/m ³	28.62	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m³	74.68	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), μg/m ³	12.24	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂₎ , ug/m ³	22.18	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), ug/m ^{3*}	20.62	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	1.04	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), ug/m ³	32.0	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³*	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND	6	Annual	NL/SOP/AAQ-12

*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

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag

Distt. Raigad-402203

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By

Ambient Temperature (°C)
Sampling Duration (Hrs.)

Test Report No. :

202209030111

Test Report Date:

15/09/2022

: Ambient Air Quality Monitoring

03/09/2022

02:50 PM

08/09/2022

14/09/2022

14/05/2022

To Check the Pollution Load

IS 5182 (Part 14)

Near Mechanical Deptt.

1.14

: 0.99

: Mr. Veerpal

: 32

: 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1	Benzo(a)pyrene (as BAP), ng/m ^{3*}	ND	1	Annual	IS:5182 (P-12)
	Benzene (C ₆ H ₆), ug/m³*	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

the tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is the written approval of this organization. Samples will be destroyed after 10 days from the date of issue of test certificate is liability of Nilya Laboratories is limited smoked amount only. Results subject to the movement of vehicles at that time iteratals can and call at +91-191-2465597, +91-9873924093.

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB **Test Report**

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt, Raigad-402203

ULR No.:

TC636622000000864F

Test Report Date:

15/09/2022

Sample Particulars:

Nature of the Sample

Flue Gas Monitoring

Date of Sampling

03/09/2022

Test Started On

08/09/2022

Test Completed On

14/09/2022

Purpose of Monitoring

To Check the Pollution Level

Sample Description

Stack Attached to DG of Capacity 750 KVA

Method of Sampling

IS: 11255 (P-7)

Normal Operating Schedule

As per requirement

Type of Stack /Duct

Mild Steel

Stack Height from Ground Level (m)

10

Diameter of the Stack (cm)

1.0

Sampling Duration (min)

40

Observations:

Flue Gas Temperature °C

175

Ambient Air Temperature °C

34

Flue Gas Velocity (m/s)

8.73

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Test Method
1	Particulate Matter, (as PM)	mg/Nm³	52	IS:11255(P-1)



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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt, Raigad-402203

Test Report No. :

202209030112

Test Report Date:

15/09/2022

Sample Particulars:

Nature of the Sample

Flue Gas Monitoring

Date of Sampling

03/09/2022

Test Started On

08/09/2022

Test Completed On

14/09/2022

Purpose of Monitoring

To Check the Pollution Level

Sample Description

Stack Attached to DG of Capacity 750 KVA

Method of Sampling

IS: 11255 (P-7)

Normal Operating Schedule

As per requirement

Type of Stack /Duct

Mild Steel

Stack Height from Ground Level (m)

10

Diameter of the Stack (cm)

1.0

Sampling Duration (min)

40

Observations:

Flue Gas Temperature °C

175

Ambient Air Temperature °C

34

Flue Gas Velocity (m/s)

8.73

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Test Method
1	Oxide of Nitrogen (as NO _x)	mg/Nm³	129	SOP- NL/SOP/FGA/01
2	Oxides of Sulphur (as SO _x)	mg/Nm³	9	SOP- NL/SOP/FGA/01
3	Carbon Monoxide (as CO)	mg/Nm³	154	SOP- NL/SOP/FGA/01
4	Carbon Dioxide (as CO ₂)	%	1.7	SOP- NL/SOP/FGA/01

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Test Report

GAIL India Limited Issued To

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

UIR No.:

TC636622000000867F

Test Report Date:

15/09/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By Ambient Temperature (°C)

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

05/09/2022

02:30 PM

08/09/2022

14/09/2022

To Check the Pollution Load

IS 5182 (Part 14)

Mounded Storage

1.10

1.00

Mr. Veerpal

31

24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), μg/m ³	34.60	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	76.24	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	14.12	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO _{2),} ug/m ³	21.28	100	24 hrs	IS:5182(P-6)
5,	Ozone (as O ₃), ug/m ³ *	22.48	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m³*	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.06	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), ug/m ³	36.80	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³*	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND	6	Annual	NI/SOP/AAQ-12

Remark:

c.-3(i)] 16.11.2009 *NAAQS — National Ambient Air Quality Standards; Schedule-VII, [Ru

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Test Report

GAIL India Limited Issued To

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203

Test Report No. :

202209050112

Test Report Date:

15/09/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By Ambient Temperature (°C)

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

05/09/2022

02:30 PM

08/09/2022

14/09/2022

To Check the Pollution Load

IS 5182 (Part 14)

Mounded Storage

1.10

1.00

Mr. Veerpal

31

24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
	Benzo(a)pyrene (as BAP), ng/m³*	ND	1	Annual	IS:5182 (P-12)
	Benzene (C ₆ H ₆), ug/m ^{3*}	ND	5	Annual	IS:5182 (P-11)

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TC636622000000868F

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15/09/2022

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Test Report

GAIL India Limited Issued To

PDH-PP Project

At & Post-Usar, Tal: Alibag

Distt. Raigad-402203

ULR No.:

Test Report Date:

Sample Particulars Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By Ambient Temperature (°C)

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

05/09/2022

02:30 PM

08/09/2022

14/09/2022

To Check the Pollution Load

IS 5182 (Part 14)

Main Gate

1.14

0.99

Mr. Veerpal

31

24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	32.18	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	76.46	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), μg/m ³	14.82	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂₎ , ug/m ³	22.28	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), ug/m ^{3*}	21.44	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/m³	1.12	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), ug/m ³	38.20	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³*	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m ^{3*}	ND	6	Annual	NL/SOP/AAQ-12

Remark:

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



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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB **Test Report**

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt, Raigad-402203

Test Report No. : Test Report Date: 202209050113 15/09/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By

Ambient Temperature (°C)

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

05/09/2022

02:30 PM

08/09/2022

14/09/2022

To Check the Pollution Load

IS 5182 (Part 14)

Main Gate

1.14

0.99

Mr. Veerpal

31

24 Hrs.

	Analysis Keport							
Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method			
11.	Benzo(a)pyrene (as BAP), ng/m³*	ND	1	Annual	IS:5182 (P-12)			
	Benzene (C ₆ H ₆), ug/m ^{3*}	ND	5	Annual	IS:5182 (P-11)			

Remark:

*NAAQS — National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (38)], [Part-II-sec.-3(I)] 16.11.2009

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Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203 ULR No.:

TC636622000000869F

Test Report Date:

15/09/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Purpose of Monitoring

Parameter Tested

Instrument Used

Place of Monitoring

: Ambient Noise

05/09/2022

To Check the Pollution Load

Noise Level, Leq dB (A)*

Sound Level Meter

Near Main Gate

Analysis Report

Sr. No.	Location	Test Result dB(A)	
Permissible Limit in *dB(A) Leq For Industrial area		75 dB(A)	
		73.4	
1	Near Main Gate	/ 47+ 1	

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)
	Industrial Area	75	70
R	Commercial Area	65	55
	Residential Area	55	45
<u>_</u>	Silence Zone	50	40





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Issued To **GAIL India Limited**

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203

ULR No.:

TC636622000000870F

Test Report Date:

15/09/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Purpose of Monitoring

Parameter Tested

Instrument Used

Place of Monitoring

Ambient Noise

05/09/2022

To Check the Pollution Load

Noise Level, Leq dB (A)*

Sound Level Meter

PDH

Analysis Report

Sr. No.	Location	Test Result dB(A)
Permissible	Limit in *dB(A) Leq For Industrial area	75 dB(A)
1	PUH	71.6

Remark:

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)
Α	Industrial Area	75	70
В	Commercial Area	65	55
Č	Residential Area	55	45
D	Silence Zone	50	40

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^{*}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



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GAIL India Limited Issued To

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At & Post-Usar, Tal: Alibag Distt. Raigad-402203

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

ULR No.:

TC636622000000871F

Test Report Date:

15/09/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Purpose of Monitoring

Parameter Tested

Instrument Used

Place of Monitoring

Ambient Noise

05/09/2022

To Check the Pollution Load

Noise Level, Leq dB (A)*

Sound Level Meter

Proposed Mounded Bullets

Analysis Report

Sr. No.	Location	Test Result dB(A)
Permissible Limit in *dB(A) Leq For Industrial area		75 dB(A)
		72.4
1	Proposed Mounded Bullets	/2.1

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)
Δ	Industrial Area	75	70
	Commercial Area	65	55
	Residential Area	55	45
<u>_</u>	Silence Zone	50	40



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At & Post-Usar, Tal: Alibag Distt. Raigad-402203 ULR No. :

TC636622000000872F

Test Report Date:

15/09/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Purpose of Monitoring

Parameter Tested

Instrument Used
Place of Monitoring

Ambient Noise

05/09/2022

: To Check the Pollution Load

Noise Level, Leq dB (A)*

: Sound Level Meter

Admin Building

Analysis Report

Sr. No.	Location	Test Result dB(A)
Permissible Limit in	*dB(A) Leq for Industrial area	75 dB(A)
1 Admin Buildi	ng	73.4

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)	
Δ	Industrial Area	75	70	
	Commercial Area	65	55	
	Residential Area	55	45	
<u>_</u>	Silence Zone	50	40	



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At & Post-Usar, Tal: Alibag Distt. Raigad-402203

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

ULR No.:

TC636622000000874F

Test Report Date:

15/09/2022

Sample Particulars:

Nature of the Sample & No. of Samples

Sample Quantity & Packaging

Test Started on Test Completed

Method of Sampling

Date of Sampling

Place of Sampling

: Ground Water

: 1 Liter, Pet Bottle

: 08/09/2022

: 14/09/2022

: SOP/B/D-3

: 05/09/2022

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Protocol
1.	Hq	-	6.64	IS:3025 (P-11)
2.	Color	Hazen	<5	IS:3025 (P-4)
3.	Electrical Conductivity	μs/cm	1080	IS:3025 (P-14)
4.	Turbidity	NTU	<1	APHA 23 rd Ed.
5.	Total Dissolved Solids	mg/l	740	IS:3025 (P-16)
6.	Total Hardness as (CaCO ₃)	mg/l	460	IS:3025 (P-21)
7.	Total Alkalinity as CaCO ₃	mg/l	410	IS:3025 (P-23)
8.	Chlorides as Cl	mg/l	186	IS:3025(P-32
9.	Sulphate as SO ₄		6.82	APHA 23 rd Ed.
10.	Nitrates as NO ₃	mg/l	2.42	IS:3025 (P-34)
11.	Calcium as Ca	mg/l	110.4	IS:3025 (P-40)
	Magnesium as Mg		44.7	APHA 23 rd Ed.
12.	Fluoride as F	mg/l	ND	IS:3025 (P-60)
13.		mg/l	ND ND	APHA 23 rd Ed.
14.	Iron (as Fe)	mg/l	14	APHA 23 rd Ed.
15.	Sodium as Na	mg/l	8	APHA 23 rd Ed.
16.	Potassium as K		1.8	IS:3025 (P-35)
17.	Silica	mg/l	Absent	IS 1622
18.	E.oli*	No./100ml	Absent	/ IS 1622
19.	Total Coliform*	No./100ml	Absent	TROPAN

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Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203 Test Report No. :

202204260132

Test Report Date:

05/05/2022

Sample Particulars:

Nature of the Sample

Flue Gas Monitoring

Date of Sampling

: 26/04/2022

Test Started On

29/04/2022

Test Completed On

04/05/2022

Purpose of Monitoring

To Check the Pollution Level

Sample Description

Stack Attached to DG of Capacity 750 KVA

Method of Sampling

IS: 11255 (P-7)

Normal Operating Schedule

: As per requirement

Type of Stack /Duct

Mild Steel

Stack Height from Ground Level (m)

10

Diameter of the Stack (cm)

•

Sampling Duration (min)

: 40

Observations:

Flue Gas Temperature °C

124

Ambient Air Temperature °C

37

Flue Gas Velocity (m/s)

8.57

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Test Method
1	Particulate Matter, (as PM)	mg/Nm³	42	IS:11255(P-1)
2	Oxide of Nitrogen (as NO _x)	mg/Nm ³	123	SOP- NL/SOP/FGA/01
3	Oxides of Sulphur (as SO _x)	mg/Nm³	17	SOP- NL/SOP/FGA/01
4	Carbon Monoxide (as CO)	mg/Nm³	520	SOP- NL/SOP/FGA/01
5	Carbon Dioxide (as CO₂)	%	2.0	SOP- NL/SOP/FGA/01

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Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203 Test Report No. :

202204270125

Test Report Date:

05/05/2022

Sample Particulars:

Nature of the Sample & No. of Samples

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Place of Sampling
Sampling Conducted By

: Storm Water

: 1 Liter, Pet Bottle

: 29/04/2022

: 04/05/2022

: SOP/B/D-3

: 27/04/2022

; -

: Mr. Veerpal

Analysis Report

Sr. No.	Parameter	Unit	Result	Protocol
1	pH	-	7.42	IS:3025 (P-11)
2	Bio-Chemical Oxygen Demand (3 days at 27°C) (BOD)	mg/l	8	IS:3025 (P-44)
3	Chemical Oxygen Demand (as COD)	mg/l	30	IS:3025 (P-58)
4	Ammonical Nitrogen	mg/l	1.6	IS:3025 (P-34)
5	Total Suspended Solids	mg/l	31	IS:3025 (P-17)
6	Total Dissolved Solids	mg/l	478	IS:3025 (P-16)
7	Bioassay Toxic	%	96 % survival of fish after 96 hours in 100 % effluent	IS:6582 (P-1)
8	Dissolved Oxygen as DO	mg/l	4.2	IS:3025 (P-38)
9 mark: ND-Not t	Phenolic Compound	mg/l	ND	IS:3025 (P-43)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203

Test Report No. :

202204270126

Test Report Date:

05/05/2022

Sample Particulars:

Nature of the Sample & No. of Samples

Sample Quantity & Packaging

Test Started on

Test Completed

Method of Sampling

Date of Sampling

Place of Sampling Sampling Conducted By : Soil

: 1 Kg, Polythene

: 29/04/2022

: 04/05/2022

: SOP/B/D-3

: 27/04/2022

: Near PDH

: Mr. Veerpal

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Protocol
	pH (at 25 °C) (1:5)		7.4	
			7.46	IS:2720 (P-26)
2	Electrical Conductivity	μs/cm	198	IS:2720 (P-21)
3	Potassium as K	mg/kg	35.2	NL/SOP/Soil/17
4	Organic Carbon	%	1.2	IS:2720 (P-23)
5	Bulk Density	g/cm ³	1.14	NL/SOP/Soil/25
6	Organic Matter	%	0.62	IS:2720 (P-23)
7	Sulphate as SO ₄	mg/kg	18.2	IS:2720 (P-27)
8	Total Phosphorous	mg/kg	2.62	NL/SOP/Soil/12
9	Sodium Absorption Ratio (SAR)	-	2.1	NL/SOP/Soil/13

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

CORPORATE OFFICE & CENTRAL LABORATORIES:-



43, Sector-A1 Ext., Bhalla Enclave, Channi Himmat, Jammu-180 015, J&K (UT), India

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202204260128

05/05/2022

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To **GAIL India Limited**

PDH-PP Project

At & Post-Usar, Tal: Alibaq

Distt, Raigad-402203

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By

Ambient Temperature (°C)

Sampling Duration (Hrs.)

Ambient Air Quality Monitoring

Test Report No. :

Test Report Date:

26/04/2022

02:20 PM

29/04/2022

04/05/2022

To Check the Pollution Load

IS 5182 (Part 14)

Marine Gate

1.12

0.98

Mr. Veerpal

37

24 Hrs.

Analysis Report

Sr. No.		Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	34.16	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), μg/m ³ ·	88.42	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), μg/m³	12.11	80	24 hrs	IS:5182(P-2)
4,	Nitrogen Dioxide (as NO _{2),} ug/m ³	22.42	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), ug/m³*	16.24	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), μg/ m³*	ND	1.	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.08	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), ug/m ³	46.81	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m³'	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m³²	ND	<u> </u>	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), ug/m ³ *	ND	5	Annual	IS:5182 (P-11)

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

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(RAVINDER MITTAL)

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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt, Raigad-402203

Test Feport No. :

202204270121

Test Report Date:

05/05/2022

Sample Particulars

Nature of the Sample

Ambient Air Quality Monitoring

Date of Sampling

27/04/2022

Time of Sampling (Hrs)

03:50 PM

Test Started on

29/04/2022

Test Completed

Purpose of Monitoring

04/05/2022

Method of Sampling

To Check the Pollution Load

Sampling Location

IS 5182 (Part 14)

Analysis Panort

Avg. Flow Rate of Air for RDS (m3/min)

Mounded Storage 1.12

Avg. Flow Rate of Air for FPS (m3/hr)

0.98

Monitoring Conducted By

Mr. Veerpal

Ambient Temperature (°C)

35

Sampling Duration (Hrs.)

24 Hrs.

	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	31.21	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), μg/m ³	68.87	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), μg/m ³	11.18	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO _{2),} ug/m³	16.58	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), ug/m³*	13.25	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m³*	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.03	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), ug/m ³	41.28	400	24 hrs	Method of Air Sampling &
9.	Nickel (as Ni), ng/m³	ND	20	Annual	Analysis CPCB Guidelines NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³'	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m³*	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), ug/m ³	ND	5	Annual	IS:5182 (P-12)

* NAAQS - National Ambient Air Quality Standards; Schedule-VII, (Rule 3 (38)), [Part-II-sec.-3(i)] 16.11.2009

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(RAVINDER MITTAL)

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Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag

Distt. Raigad-402203

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling

Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr) Monitoring Conducted By

Ambient Temperature (°C)

Sampling Duration (Hrs.)

Test Report No. :

202204260129

Test Report Date:

05/05/2022

Ambient Air Quality Monitoring

26/04/2022

, . .,

03:10 PM

29/04/2022

04/05/2022

To Check the Pollution Load

IS 5182 (Part 14)

Sub Station

July Stati

1.12

0.98

Mr. Veerpal

35

24 Hrs.

Analysis Report

	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), μg/m ³	29.48	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), μg/m ³	65.21	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), μg/m ³	11.10	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO _{2),} ug/m ³	19.21	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), ug/m³*	14.24	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), μg/ m³*	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.06	2	8 hrs	TC:5102 (D 10)
8.	Ammonia (as NH ₃), ug/m ³	25.58	400	24 hrs	IS:5182 (P-10) Method of Air Sampling &
9.	Nickel (as Ni), ng/m³'	ND	20	Annual	Analysis CPCB Guidelines NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³'	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m³'	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), ug/m ³	ND	5	Annual	JS:5182 (P-11)

*NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 16.11,2009

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If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info? https://doi.org/10.1007/10.1

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Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report No. :

202204260130

Test Report Date:

05/05/2022

Sample Particulars

Nature of the Sample

Purpose of Monitoring

Parameter Tested

Instrument Used Place of Monitoring

Date of Sampling

26/04/2022

To Check the Pollution Load

Noise Level, Leg dB (A)*

Sound Level Meter

Ambient Noise

PDH

Analysis Report

Sr. No.	Location	Test Result dB(A)
Permissibl	e Limit in *dB(A) Leq For Industrial area	75 dB(A)
1	PDH	
?emark:		72.8

'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

rea Code	Category of Area	Limits	dB (A) Leq
		Day Time (6AM – 10PM)	Night Time (10PM - 06AM)
Α	Industrial Area	75	70
В	Commercial Area	65	55
С	Residential Area	55	
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 Test Report No. :

202204260131

Test Report Date:

05/05/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Purpose of Monitoring

Parameter Tested

Instrument Used

Place of Monitoring

Ambient Noise

26/04/2022

To Check the Pollution Load

Noise Level, Leq dE A)*

Sound Level Meter

Raw Pump

Analysis Report

Sr. No.	Location	Test Result dB(A)
Permissibl	e Limit in *dB(A) Leq For Industrial area	75 dB(A)
1	Raw Pump	
emark:	Logar Lattip	70.2

*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

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

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Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag

Distt. Raigad-402203

Sample Particulars

Nature of the Sample

Date of Sampling

Time of Sampling (Hrs)

Test Started on

Test Completed

Purpose of Monitoring

Method of Sampling Sampling Location

Avg. Flow Rate of Air for RDS (m3/min)

Avg. Flow Rate of Air for FPS (m3/hr)

Monitoring Conducted By

Ambient Temperature (°C) Sampling Duration (Hrs.)

Test Report Date:

Test Report No.:

202204270120

05/05/2022

Ambient Air Qual: / Monitoring

27/04/2022

03:10 PM

29/04/2022

04/05/2022

To Check the Pollution Load

IS 5182 (Part 14)

Mechanical Deptt.

1.12

0.98

Mr. Veerpal

35

24 Hrs.

Analysis Report

Sr. No.	Parameters	Analysis R Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), μg/m ³	31.27	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m³	71.29	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), μg/m ³	11.21	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO _{2),} ug/m ³	18.38	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O ₃), ug/m³*	13.26	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m³*	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m ³	1.04	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH ₃), ug/m ³	34.40	400	24 hrs	Method of Air Sampling &
9.	Nickel (as Ni), ng/m³*	ND	20	Annual	Analysis CPCB Guidelines NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m³*	ND	6	Annual	NL/SOP/AAQ-12
11.	Benzo(a)pyrene (as BAP), ng/m³*	ND	1	Annual	IS:5182 (P-12)
12.	Benzene (C ₆ H ₆), ug/m ³ *	ND	5	Annual	IS:5182 (P-11)

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^{*}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

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203 Test Report No. :

202204270123

Test Report Date:

05/05/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Purpose of Monitoring

Parameter Tested

Instrument Used

Place of Monitoring

Ambient Noise

27/04/2022

To Check the Pollution Load

Noise Level, Leq dB (A)*

Sound Level Meter

Admin Building

Analysis Report

Sr. No.	Location	Test Result dB(A)
Permissible Limit in	*dB(A) Leq for Industrial area	75 dB(A)
1 Admin Build	200	
lemark:	119	72.8

*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

Category of Area	Limits	s dB (A) Leq	
	Day Time (6AM – 10PM)	Night-time (10PM – 06AM)	
Industrial Area	75	70	
Commercial Area	65		
Residential Area		55	
Silence Zone		45 40	
	Industrial Area Commercial Area Residential Area	Day Time (6AM – 10PM) Industrial Area 75 Commercial Area 65 Residential Area 55	

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Test Report

Issued To GAIL India Limited

PDH-PP Project

At & Post-Usar, Tal: Alibag Distt. Raigad-402203

Test Report No. :

202204270122

Test Report Date:

05/05/2022

Sample Particulars

Nature of the Sample

Date of Sampling

Purpose of Monitoring

Parameter Tested

Instrument Used

Place of Monitoring

Ambient Noise

27/04/2022

To Check the Pollution Load

Noise Level, Leq dB (A)*

Sound Level Meter

Near Main Gate

Analysis Report

Sr. No. Location		Test Result dB(A)
Permissible	e Limit in *dB(A) Leq For Industrial area	75 dB(A)
1	Near Main Gate	
mark.		72.8

*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
TO THE RESIDENCE OF PROPERTY AND ADMINISTRATION OF THE PERSON OF THE PER		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
Α	Industrial Area	75	70
В	Commercial Area	65	
С	Residential Area	55	55
D	Silence Zone	· · · · · · · · · · · · · · · · · · ·	45
	Official Confe	50	40

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