



## 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 - ४०२ २०३

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

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

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

REGD.OFFICE  
GAIL BHAWAN, 16 BHIKAIJI CAMA PLACE  
NEW DELHI - 110 066, INDIA.

सीआईएन/CIN

L402200DL1984GOI018976  
www.gailonline.co.in

Compliance of Environmental Clearance conditions for the period 1st April 2022 to 30th September 2022		
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 <sup>3</sup> /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.	Shall be complied with. Shall be implemented in consultation with District Administration.
(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.

(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.
<b>Compliances of terms and conditions (B. General Conditions):</b>		
(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.	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 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 <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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.

*Nikunj*  
02/10/2022

**Test Report**

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

ULR No. : TC636622000000862F  
Test Report Date: 15/09/2022

**Sample Particulars**

Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 03/09/2022  
Time of Sampling (Hrs) : 02:10 PM  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
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) : 1.14  
Avg. Flow Rate of Air for FPS (m3/hr) : 1.00  
Monitoring Conducted By : Mr. Veerpal  
Ambient Temperature (°C) : 31  
Sampling Duration (Hrs.) : 24 Hrs.

**Analysis Report**

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

Remark \*NAAQS – National Ambient Air Quality Standards; Schedule-VII, (Rule 3 (3B)), [Section 3(3B)] 16.11.2009



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report relate only to the sample tested. Test report shall not be reproduced except in full, without the approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, India.

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### Test Report

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

Test Report No. : 202209030110  
Test Report Date: 15/09/2022

#### Sample Particulars

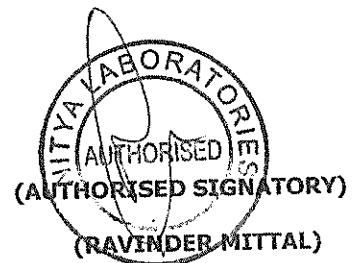
Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 03/09/2022  
Time of Sampling (Hrs) : 02:10 PM  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Near Sub Station  
Avg. Flow Rate of Air for RDS (m3/min) : 1.14  
Avg. Flow Rate of Air for FPS (m3/hr) : 1.00  
Monitoring Conducted By : Mr. Veerpal  
Ambient Temperature (°C) : 31  
Sampling Duration (Hrs.) : 24 Hrs.

#### Analysis Report

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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoked amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### Test Report

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

ULR No. : TC63662200000863F  
Test Report Date: 15/09/2022

### Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 03/09/2022  
Time of Sampling (Hrs) : 02:50 PM  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Near Mechanical Deptt.  
Avg. Flow Rate of Air for RDS (m<sup>3</sup>/min) : 1.14  
Avg. Flow Rate of Air for FPS (m<sup>3</sup>/hr) : 0.99  
Monitoring Conducted By : Mr. Veerpal  
Ambient Temperature (°C) : 32  
Sampling Duration (Hrs.) : 24 Hrs.

### Analysis Report

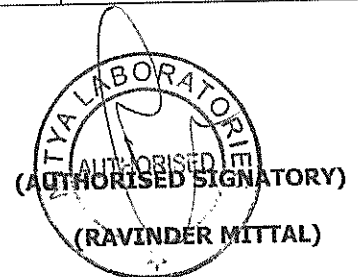
Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	28.62	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	74.68	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	12.24	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	22.18	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup> *	20.62	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m <sup>3</sup> *	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m <sup>3</sup>	1.04	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	32.0	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m <sup>3</sup> *	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m <sup>3</sup> *	ND	6	Annual	NL/SOP/AAQ-12

Remark:

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(0)] 16.11.2009



TC-6366



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924993

### CORPORATE OFFICE & CENTRAL LABORATORIES :-

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

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### Test Report

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

Test Report No. : 202209030111

Test Report Date: 15/09/2022

#### Sample Particulars

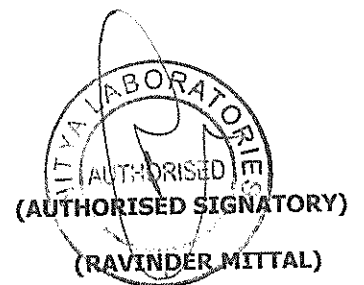
Nature of the Sample : Ambient Air Quality Monitoring  
Date of Sampling : 03/09/2022  
Time of Sampling (Hrs) : 02:50 PM  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Near Mechanical Deptt.  
Avg. Flow Rate of Air for RDS (m<sup>3</sup>/min) : 1.14  
Avg. Flow Rate of Air for FPS (m<sup>3</sup>/hr) : 0.99  
Monitoring Conducted By : Mr. Veerpal  
Ambient Temperature (°C) : 32  
Sampling Duration (Hrs.) : 24 Hrs.

#### Analysis Report

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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### 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:

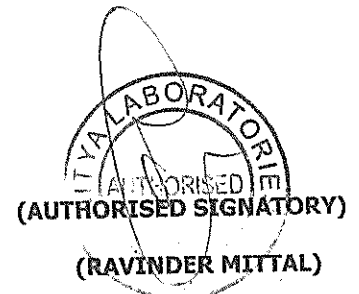
Nature of the Sample : Flue Gas Monitoring  
Date of Sampling : 03/09/2022  
Test Started On : 08/09/2022  
Test Completed On : 14/09/2022  
Purpose of Monitoring : To Check the Pollution Level  
Sample Description : Stack Attached to DG of Capacity 750 KVA  
Method of Sampling : IS: 11255 (P-7)  
Normal 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/Nm <sup>3</sup>	52	IS:11255(P-1)



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924993

#### CORPORATE OFFICE & CENTRAL LABORATORIES :-

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabgarh, Faridabad - 121004, Haryana, India.

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



**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 <sub>x</sub> )	mg/Nm <sup>3</sup>	129	SOP- NL/SOP/FGA/01
2	Oxides of Sulphur (as SO <sub>x</sub> )	mg/Nm <sup>3</sup>	9	SOP- NL/SOP/FGA/01
3	Carbon Monoxide (as CO)	mg/Nm <sup>3</sup>	154	SOP- NL/SOP/FGA/01
4	Carbon Dioxide (as CO <sub>2</sub> )	%	1.7	SOP- NL/SOP/FGA/01

(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9875924093

**CORPORATE OFFICE & CENTRAL LABORATORIES :-**

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

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**Test Report**

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

ULR No. : TC63662200000867F  
Test Report Date: 15/09/2022

**Sample Particulars**

Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 05/09/2022  
Time of Sampling (Hrs) : 02:30 PM  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Mounded Storage  
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. Veerpal  
Ambient Temperature (°C) : 31  
Sampling Duration (Hrs.) : 24 Hrs.

**Analysis Report**

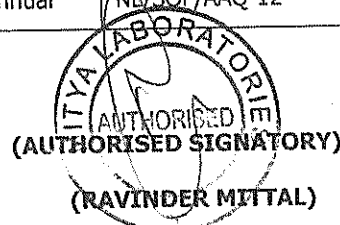
Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	34.60	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	76.24	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as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

Remark:

\*NAAQS -- National Ambient Air Quality Standards; Schedule-VII, [Rule 3 of the Environment Protection Act, 1986, Sec.-3(i)] 16.11.2009



TC-6366



**NOTE:** The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### Test Report

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

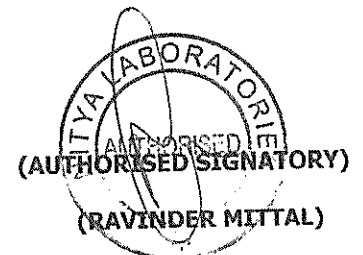
Test Report No. : 202209050112  
Test Report Date: 15/09/2022

### Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 05/09/2022  
Time of Sampling (Hrs) : 02:30 PM  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Mounded Storage  
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. Veerpal  
Ambient Temperature (°C) : 31  
Sampling Duration (Hrs.) : 24 Hrs.

### Analysis Report

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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### 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. : TC636622000000868F  
Test Report Date: 15/09/2022

#### Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 05/09/2022  
Time of Sampling (Hrs) : 02:30 PM  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Main Gate  
Avg. Flow Rate of Air for RDS (m3/min) : 1.14  
Avg. Flow Rate of Air for FPS (m3/hr) : 0.99  
Monitoring Conducted By : Mr. Veerpal  
Ambient Temperature (°C) : 31  
Sampling Duration (Hrs.) : 24 Hrs.

#### Analysis Report

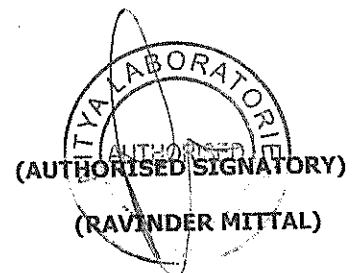
Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	32.18	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	76.46	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO <sub>2</sub> ), µg/m <sup>3</sup>	14.82	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO <sub>2</sub> ), µg/m <sup>3</sup>	22.28	100	24 hrs	IS:5182(P-6)
5.	Ozone (as O <sub>3</sub> ), µg/m <sup>3</sup> *	21.44	100	8 hrs	IS:5182(P-9)
6.	Lead (as Pb), µg/ m <sup>3</sup> *	ND	1	24 hrs	NL/SOP/AAQ-11
7.	Carbon Monoxide (as CO), mg/m <sup>3</sup>	1.12	2	8 hrs	IS:5182 (P-10)
8.	Ammonia (as NH <sub>3</sub> ), µg/m <sup>3</sup>	38.20	400	24 hrs	Method of Air Sampling & Analysis CPCB Guidelines
9.	Nickel (as Ni), ng/m <sup>3</sup> *	ND	20	Annual	NL/SOP/AAQ-13
10.	Arsenic (as As), ng/m <sup>3</sup> *	ND	6	Annual	NL/SOP/AAQ-12

Remark:

\*NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(0)] 16.11.2009



TC-6366



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### Test Report

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

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

#### Sample Particulars

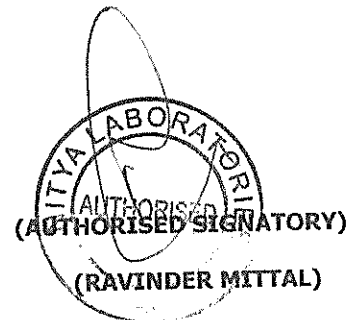
Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 05/09/2022  
Time of Sampling (Hrs) : 02:30 PM  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Main Gate  
Avg. Flow Rate of Air for RDS (m3/min) : 1.14  
Avg. Flow Rate of Air for FPS (m3/hr) : 0.99  
Monitoring Conducted By : Mr. Veerpal  
Ambient Temperature (°C) : 31  
Sampling Duration (Hrs.) : 24 Hrs.

#### Analysis Report

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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 its issue of this report. Total liability of Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### 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 : **Ambient Noise**  
Date of Sampling : 05/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Parameter Tested : Noise Level, Leq dB (A)\*  
Instrument Used : Sound Level Meter  
Place of Monitoring : Near Main Gate

### Analysis Report

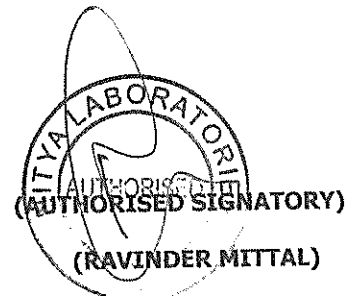
Sr. No.	Location	Test Result dB(A)
<b>Permissible Limit in *dB(A) Leq For Industrial area</b>		<b>75 dB(A)</b>
1	Near Main Gate	73.4

**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)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, India.

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### Test Report

**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 : **Ambient Noise**  
Date of Sampling : 05/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Parameter Tested : Noise Level, Leq dB (A)\*  
Instrument Used : Sound Level Meter  
Place of Monitoring : PDH

### Analysis Report

Sr. No.	Location	Test Result dB(A)
<b>Permissible Limit in *dB(A) Leq For Industrial area</b>		<b>75 dB(A)</b>
1	PDH	71.6

**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



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### Test Report

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

ULR No. : TC63662200000871F  
Test Report Date: 15/09/2022

### Sample Particulars

Nature of the Sample : **Ambient Noise**  
Date of Sampling : 05/09/2022  
Purpose of Monitoring : To Check the Pollution Load  
Parameter Tested : Noise Level, Leq dB (A)\*  
Instrument Used : Sound Level Meter  
Place of Monitoring : Proposed Mounded Bullets

### Analysis Report

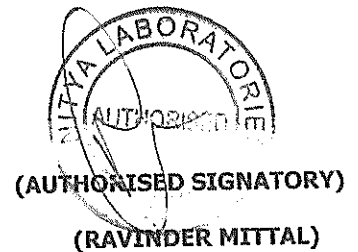
Sr. No.	Location	Test Result dB(A)
<b>Permissible Limit in *dB(A) Leq For Industrial area</b>		<b>75 dB(A)</b>
1	Proposed Mounded Bullets	72.4

**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)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, India.

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



### Test Report

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

ULR No. : TC636622000000872F  
Test Report Date: 15/09/2022

### Sample Particulars

Nature of the Sample : **Ambient Noise**  
Date of Sampling : 05/09/2022  
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

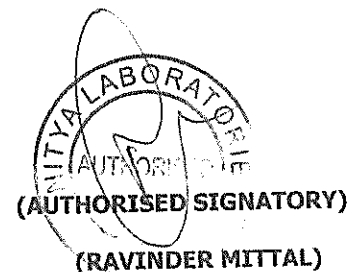
Sr. No.	Location	Test Result dB(A)
<b>Permissible Limit in *dB(A) Leq for Industrial area</b>		<b>75 dB(A)</b>
1	Admin Building	73.4

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)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**Test Report**

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

ULR No. : TC63662200000874F  
Test Report Date: 15/09/2022

**Sample Particulars:**

Nature of the Sample & No. of Samples : **Ground Water**  
Sample Quantity & Packaging : 1 Liter, Pet Bottle  
Test Started on : 08/09/2022  
Test Completed : 14/09/2022  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 05/09/2022  
Place of Sampling : -

**Analysis Report**

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

(AUTHORISED SIGNATORY)  
(RHYTHM BASSON\*)



(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**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/Nm <sup>3</sup>	42	IS:11255(P-1)
2	Oxide of Nitrogen (as NO <sub>x</sub> )	mg/Nm <sup>3</sup>	123	SOP- NL/SOP/FGA/01
3	Oxides of Sulphur (as SO <sub>x</sub> )	mg/Nm <sup>3</sup>	17	SOP- NL/SOP/FGA/01
4	Carbon Monoxide (as CO)	mg/Nm <sup>3</sup>	520	SOP- NL/SOP/FGA/01
5	Carbon Dioxide (as CO <sub>2</sub> )	%	2.0	SOP- NL/SOP/FGA/01

  
(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your purpose and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval 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 Nitya Laboratories is limited invoice amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**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 : Storm Water  
Sample Quantity & Packaging : 1 Liter, Pet Bottle  
Test Started on : 29/04/2022  
Test Completed : 04/05/2022  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 27/04/2022  
Place of Sampling : -  
Sampling Conducted By : 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	Phenolic Compound	mg/l	ND	IS:3025 (P-43)

Remark. ND-Not Detected

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoice amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at [info@nityalab.com](mailto:info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

### 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 : **Soil**  
Sample Quantity & Packaging : 1 Kg, Polythene  
Test Started on : 29/04/2022  
Test Completed : 04/05/2022  
Method of Sampling : SOP/B/D-3  
Date of Sampling : 27/04/2022  
Place of Sampling : Near PDH  
Sampling Conducted By : Mr. Veerpal

### Analysis Report

Sr. No.	Parameters	Unit	Test Results	Protocol
1	pH (at 25 °C) (1:5)	-	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 <sup>3</sup>	1.14	NL/SOP/Soil/25
6	Organic Matter	%	0.62	IS:2720 (P-23)
7	Sulphate as SO <sub>4</sub>	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)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**Test Report**

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

Test Report No. : 202204260128

Test Report Date: 05/05/2022

**Sample Particulars**

Nature of the Sample : **Ambient Air Quality Monitoring**  
Date of Sampling : 26/04/2022  
Time of Sampling (Hrs) : 02:20 PM  
Test Started on : 29/04/2022  
Test Completed : 04/05/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Marine Gate  
Avg. Flow Rate of Air for RDS (m3/min) : 1.12  
Avg. Flow Rate of Air for FPS (m3/hr) : 0.98  
Monitoring Conducted By : Mr. Veerpal  
Ambient Temperature (°C) : 37  
Sampling Duration (Hrs.) : 24 Hrs.

**Analysis Report**

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

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**Test Report**

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

Test Report 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 : 04/05/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Mounded Storage  
Avg. Flow Rate of Air for RDS (m3/min) : 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.

**Analysis Report**

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

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited to the amount of invoice. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**Test Report**

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

Test Report No. : 202204260129

Test Report Date: 05/05/2022

**Sample Particulars**

Nature of the Sample : Ambient Air Quality Monitoring  
Date of Sampling : 26/04/2022  
Time of Sampling (Hrs) : 03:10 PM  
Test Started on : 29/04/2022  
Test Completed : 04/05/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Sub Station  
Avg. Flow Rate of Air for RDS (m3/min) : 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.

**Analysis Report**

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

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at [info@nityalab.com](mailto:info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com



**Test Report**

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

Test Report No. : 202204260130  
Test Report Date: 05/05/2022

**Sample Particulars**

Nature of the Sample : **Ambient Noise**  
Date of Sampling : 26/04/2022  
Purpose of Monitoring : To Check the Pollution Load  
Parameter Tested : Noise Level, Leq dB (A)\*  
Instrument Used : Sound Level Meter  
Place of Monitoring : PDH

**Analysis Report**


Sr. No.	Location	Test Result dB(A)
Permissible Limit in *dB(A) Leq For Industrial area		75 dB(A)
1	PDH	72.8

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

  
(AUTHORISED SIGNATORY)  
(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited to the amount of fee. Results subject to the movement of vehicle at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**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 :** Ambient Noise  
**Date of Sampling :** 26/04/2022  
**Purpose of Monitoring :** To Check the Pollution Load  
**Parameter Tested :** Noise Level, Leq dE (A)\*  
**Instrument Used :** Sound Level Meter  
**Place of Monitoring :** Raw Pump

**Analysis Report**

Sr. No.	Location	Test Result dB(A)
<b>Permissible Limit in *dB(A) Leq For Industrial area</b>		<b>75 dB(A)</b>
1	Raw Pump	70.2

**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

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited to invoiced amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**Test Report**

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

Test Report No. : 202204270120  
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) : 03:10 PM  
Test Started on : 29/04/2022  
Test Completed : 04/05/2022  
Purpose of Monitoring : To Check the Pollution Load  
Method of Sampling : IS 5182 (Part 14)  
Sampling Location : Mechanical Deptt.  
Avg. Flow Rate of Air for RDS (m3/min) : 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.

**Analysis Report**

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

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited to the amount of fee. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**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 : **Ambient Noise**  
Date of Sampling : 27/04/2022  
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)
Permissible Limit in *dB(A) Leq for Industrial area		75 dB(A)
1	Admin Building	72.8

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

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The Laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval 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 Nitya Laboratories is limited to invoice amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.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, INDIA

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com

**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 : **Ambient Noise**  
Date of Sampling : 27/04/2022  
Purpose of Monitoring : To Check the Pollution Load  
Parameter Tested : Noise Level, Leq dB (A)\*  
Instrument Used : Sound Level Meter  
Place of Monitoring : Near Main Gate

**Analysis Report**

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

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

(AUTHORISED SIGNATORY)

(RAVINDER MITTAL)

NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of 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 written approval 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 Nitya Laboratories is limited invoice amount only. Results subject to the movement of vehicles at that time. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873024093

**CORPORATE OFFICE & CENTRAL LABORATORIES :-**

Plot No. 118, Church Road, Behind Kausik Vatika, Bhagat Singh Colony, Ballabhgarh, Faridabad - 121004, Haryana, India

+91-129-2241021

+91-9013591021, +91-9013552273

labsnitya@gmail.com

www.nityalab.com