

Date: 14.11.2024

Ref.: AA-ONHP-2017/1/EC/Dec-24/1

Head of Office,
Integrated Regional Office, Guwahati,
Ministry of Env., Forest and Climate Change,
4th Floor, Housefed Building,
G.S. Road Rukminigaon,
Guwahati - 781022 (Assam)

Sub: Six-monthly Report on progressive compliance to Environmental Clearance (EC) conditions for Onshore Oil & Gas Exploration, Appraisal & Early Production in AA-ONHP-2017/1 hydrocarbon Block falling in Dist.- Karbi Anglong & Golaghat, Assam.

Ref: 1) EC Letter no. SEIAA.1251/2020/EC/1476 dated 28.07.2021
2) Amendment of EC Letter no. SEIAA.1895/2021/EC/1616 dated 12.01.2022

Dear Sir,

We are pleased to submit a point wise compliance status report of the conditions stipulated in the Environmental Clearance accorded by SEIAA, Assam for AA-ONHP-2017/1 Block for the period of April 2024 to September 2024.

Thanking you,

Yours faithfully,
For Vedanta Limited (Div.: Cairn Oil & Gas)


Dilip Kumar Bera
DGM - Environment



Enclosures: As above

Copy to:

1. The Member Secretary, Pollution Control Board, Assam
2. Regional Office, Central Pollution Control Board, Nongthymmai, Shillong, Meghalaya.
3. The Chairman, SEIAA (Assam).

VEDANTA LIMITED

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CIN: L13209MH1965PLC291394

**SIX MONTHLY REPORT ON
PROGRESSIVE COMPLIANCE TO ENVIRONMENTAL CLEARANCE CONDITIONS**

Project name:	Onshore Oil & Gas Exploration & Appraisal & Early Production in AA-ONHP-2017/1 hydrocarbon Block falling in Dist.-Karbi Anglong & Golaghat, Assam.
Environmental Clearance letter no.:	SEIAA.1251/2020/EC/1476 dated 28.07.2021 for Exploration & Appraisal SEIAA.1895/2021/EC/1616 dated 12.01.2022 for Early Production
Reporting period:	April 2024 to September 2024
Project activity during reporting period:	Drilling of Exploratory and Appraisal activities for two well in this reporting period.
Overall status of activities w.r.t. project defined in EC:	<p><u>Project defined in EC:</u></p> <ul style="list-style-type: none"> • Drilling of Exploratory & Appraisal Wells: 20 Nos. • Early Production: 12000 BOPD Crude oil and 2.4 MMSCFD associated Natural gas. <p><u>Overall Status:</u> Two (02) exploratory and appraisal wells have been drilled till September 2024</p> <ol style="list-style-type: none"> 1. Well-pad# 29 (FW-004), Village: Chungajan Christian Basti, District: Golaghat Assam. Latitude - 26°1'14.49" N; Longitude - 93°51.14.09"E. Duration of drilling activities: Jun'24 to Sep'24. 2. Well-pad# 28 (FW-001), Village: Naokata, District: Golaghat, Assam, Latitude - 26°0'45.08" N; Longitude - 93°48.54.69"E. Duration of drilling activities: Sep'24 to Nov'24. <p>No commercially viable discovery found. The well pad had been temporarily plugged.</p>

S. No.	EC Conditions	Compliance Status
I.	Statutory Compliance	
i.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	<u>Complied.</u> Final Approval (stage-II) has been obtained from MoEFCC for well pad# 28 (FW-001) vide letter no. F.No.3 AS B 102/2022-GHY/201-02 dated 20.06.2024. and Final Approval (stage-II) has been obtained from MoEFCC for well pad# 29 (FW-004) vide letter no. F.No.3 AS B 106/2022-GHY/183-84 dated 20.06.2024.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	No well drill site/ project activities are in wildlife area.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of Schedule-I species in the study area)	<u>Complied.</u> Wildlife Conservation has been prepared for the block and submitted to PCCF-WL vide letter no. WLCP/AA-4/1 dated 05/06/2021. Following measures was adopted: <ul style="list-style-type: none"> • Fencing was done around the well pads including campsite to prevent any encounter with wild animals. • Awareness program have been carried out among working personnel involved in the project activity. • Road signage were provided along the roadside indicating the maximum speed limit near the project site.
iv.	The Project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	<u>Complied.</u> Consent to Establish (CTE) has been obtained from PCBA vide letter no. WB/GOL/T-653/21-22/1259 dated 18.12.2021. Consolidated Consent & Authorisation (CCA)/ Consent to Operate & HWA has been obtained from PCBA for WP-29 (FW-004) located at Village: Chungajan Christian Basti, District: Golaghat, Assam vide letter no. WB/DIB/T-1105/2022-23/317/1381 dtd. 09.08.2024. Consolidated Consent & Authorisation (CCA)/ Consent to Operate & HWA has been obtained from PCBA for WP-28 (FW-001) located at Village: Naokata, District: Golaghat,

S. No.	EC Conditions	Compliance Status
		Assam vide letter no. WB/DIB/T-1105/ 2022-23/332 /1856 dtd. 02.09.2024.
v.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Complied Authorization under the Hazardous and other Waste Management Rules, 2016 was obtained vide letter no. WB/DIB/T-1105/2022-23/317/1381 dtd. 09.08.2024 for WP-29 (FW-004) located at Village: Chungajan Christian Basti, District: Golaghat, Assam and for WP-28 (FW-001) located at Village: Naokata, District: Golaghat, Assam vide PCBA letter no. WB/DIB/T-1105/2022-23/332/1856 dtd. 02.09.2024.
vi.	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	Hazardous chemicals being handled as per the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended from time to time. The trucks/ tankers used for transportation of Hazardous Waste complied with the provisions of the Motor Vehicle Act, 1988 and the rules.
II.	Air quality monitoring and preservation	
i.	The project proponent shall install 24X7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Complied. Environmental monitoring has been carried out at well pad-29 (FW-004) & Well pad-28(FW-001) for respective pre-drilling, during drilling & post drilling activities. Monitoring reports for this reporting period are enclosed as Annexure-1 . Parameters are found to be within the prescribed limits.
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under environment (Protection) Act, 1986.	Complied. Ambient Air quality monitoring was carried out for pre-drilling, during drilling and post drilling stages on both the Well pad - 29 (FW-004) & Well pad - 28(FW-001). Reports of monitoring carried out on this reporting period are enclosed as Annexure-1 . All parameters are found in prescribed limits. Periodic water sprinkling carried out in work areas and approach roads to prevent fugitive dust emissions.
iii.	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOX in reference to SO2 and NOX emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.	Complied. Ambient Air quality monitoring was carried out for pre-drilling, during drilling and post drilling stages on both the Well pad - 29 (FW-004) & Well pad - 28(FW-001). DG Stack emission was also carried out in during drilling phase. All parameters are found in prescribed limits. Summary of the monitoring reports are enclosed as Annexure-1 .
iv.	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Complied. The following air pollution prevention and control measures have been implemented: DG sets installed at site during drilling phase were provided with adequate stack heights. Periodic maintenance of DG Sets and other equipment were carried out. Periodic water sprinkling in work/activity areas and approach roads were provided. Vehicles with valid PUC certificates were only allowed at site.
v.	Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Complied.

S. No.	EC Conditions	Compliance Status
		Raw material used for drilling such as Barite etc., were kept in bags under the shed. Other raw materials are kept with suitable cover.
vi.	National Emissions Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21 st July 2010 and amended from time to time shall be followed.	Not Applicable. Not relevant to the Oil & Gas exploration & production projects.
vii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November 2009 shall be complied with.	Complied Ambient Air quality monitoring was carried out for pre-drilling, during drilling and post drilling phase. DG Stack emission was also carried out in during drilling phase. All parameters were found in prescribed limits. Summary of the monitoring reports are enclosed as Annexure-1 .
III.	Water quality monitoring and preservation	
i.	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/ drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)	Complied ETP has been installed at site to treat the effluent during drilling. The treated effluent has been used for drilling mud preparation, dust suppression and other misc. uses within the operational areas. Logbooks for ETP operation have been maintained. Provision for septic tank and soak pit has been made considering the small volume of domestic effluent and very short-term operation.
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 (applicable in case of the projects achieving the ZLD).	Complied ETP with physiochemical treatment was installed (Oil & grease trap, skimmer cum clarifier, PSF, ACF, treated storage tank, filter press). Treated effluent was reused for various purposes like mud preparation, dust suppression, floor washing etc. There was no discharge of effluent outside the project premises.
iii.	The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.	Complied No discharge of effluent. The effluent from drilling activities has been collected in HDPE lined pits and treated in ETP and the treated effluent has been reused for drilling mud preparation, dust suppression and other misc. uses. Environmental monitoring was done for treated and untreated effluent for both well pads. Parameters are found within the limit.
iv.	Total freshwater requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/ CGWA in this regard.	Complied. No ground water extracted for this project.
v.	Process effluent/any wastewater shall not be allowed to mix with storm water. The stormwater from the premises shall be collected and discharged through a separate conveyance system.	Complied. Wastewater was collected in separate pit. No mixing with storm water.
vi.	The company harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilized the same for different industrial operations within the plant.	Drilling is a short-term activity, hence Roof top rainwater harvesting not feasible for the project. Rainwater harvesting will be carried out, during development and production phase.
vii.	The DG sets shall be equipped with suitable Pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	Complied. DG sets have been provided with adequate stack height. Stack monitoring is carried out. Monitoring reports are enclosed as Annexure-1 . Parameters are found to be within the prescribed limits.
IV.	Noise monitoring and preservation	

S. No.	EC Conditions	Compliance Status
i.	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied. DG sets have been provided with acoustic enclosures.
ii.	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.	Complied. DG sets have been provided with acoustic enclosures for control of noise. Work zone noise and ambient Noise monitoring have been carried out at drill sites. Monitoring reports are enclosed as Annexure-1 . Parameters are found within the prescribed standards
iii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz, 75 dB(A) during daytime and 70 dB(A) during night-time.	Complied. Work zone noise and ambient Noise monitoring have been carried out at drill sites. Monitoring reports are enclosed as Annexure-1 . Parameters are found within the prescribed standards.
V.	Energy conservation measures	
i.	The energy sources for lighting purposes shall preferably be LED based	Complied. LED bubs/ tube lights have been provided at the drill sites.
VI.	Waste management	
i.	Hazardous chemical shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.	Not applicable. Not relevant to the oil & gas exploration & production projects, therefore not applicable.
ii.	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.	Not Applicable
iii.	The Company shall undertake waste minimization measures as below:	
	a. Metering and Control of quantities of active ingredients to minimize waste.	Not Applicable
	b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Not Applicable
	c. Use of automated filling to minimize spillage.	Not Applicable
	d. Use of Close Feed system into batch reactors.	Not Applicable
	e. Venting equipment through vapors recovery system.	Not Applicable
	f. Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	Not Applicable
VII.	Greenbelt	
i.	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 roadsides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Exploratory drilling is a very short term & temporary activity. In case of commercially viable discovery of hydrocarbons and during development & production greenbelt will be developed.
VIII.	Safety, public hearing and human health issues	
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied. ERP (Emergency Preparedness Plan) prepared and made available at drill site. Periodic mock drills have been carried out at both drill sites.
ii.	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Complied. Adequate fire protection provision was made for drilling activities.

S. No.	EC Conditions	Compliance Status
iii.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied. Personal Protection Equipment (PPEs) are provided at both the drill sites.
iv.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied. Regular trainings and awareness program are conducted at the well pads.
v.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. No housing for construction labour was provided. Labours were hired locally from the nearby areas.
vi.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Regular health check-up was done for workers at both the well pads.
vii.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Complied. Designated parking area have been provided at drill sites.
IX.	Corporate Environment Responsibility	
i.	The project proponent shall comply with the provisions contained in this Ministry's IOM vide F. No. 22-65/2017-1A III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Complied. Various programs/ activities have been undertaken to the nearby community.
ii.	The company shall have a well laid down environment policy duly approved by the Board of Directors. The environment policy should prescribe for standards operating procedures to have proper checks and balances and to bring into focus any infringements/ violation of the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and / or shareholders / stakeholders. The copy of the board resolution in this regard shall be submitted to the MOEF& CC as a part of six-monthly report.	Complied. Health, Safety, Environmental & Sustainability Policy have been made and implemented, duly signed by the Dy. CEO of the company.
iii.	A separate environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Complied. Environment team with qualified & experienced professional is setup in the company. Head of the Environment reports to Head - Exploration Coordination, who reports to the Director of Company.
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six-Monthly Compliance Report.	Complied. EMP including environmental monitoring had been prepared and implemented during drilling operation. An expenditure of INR 2.307 Crores has been incurred for the various environment management activities in FY: 2023-24 including waste management, environment monitoring etc.

S. No.	EC Conditions	Compliance Status
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Complied. During drilling, audit/ inspection was carried out by HSE department.
X.	Miscellaneous	
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Advertisement has been published in 'Assam Tribune' and 'Dainik Janambhumi' newspapers on 04.09.2022.
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied. Copies of the environmental clearance has been submitted to the Heads of Local and Municipal Bodies in addition to the relevant government offices on vide letter dated 10.02.2023.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied. Environmental Compliance is being prepared and uploaded on website on regular basis.
iv.	The project proponent shall monitor the criteria pollutants level namely, PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or criteria sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Complied. Environmental Monitoring was done for pre-drilling, during drilling and post drilling stages for well pads. Monitoring reports are enclosed as Annexure-1 .
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied Six-monthly compliance report is being prepared and submitted regularly.
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and out on the website of the company.	Noted for Compliance.
vii.	The project proponent 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, commencing the land development work and start of production operation by the project.	Noted for compliance.
viii.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Complied. Conditions stipulated in CTE & CTO was strictly followed towards prevention & control of environment.
ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Complied. EMP has been implemented towards pollution prevention & control and safeguard of environment and ecology.
x.	No further expansion or modifications in the plant shall be carried out without prior approval of the	Noted

S. No.	EC Conditions	Compliance Status
	Ministry of Environment Forest and Climate Change (MoEF&CC).	
xi.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
xii.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xiii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
xiv.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Noted
xv.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	Noted
xvi.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010	Noted

ANNEXURE - 1

Summary of Environmental Monitoring - AA-ONHP-2017/1 Block
(Reporting Period April' 2024 – Sept' 2024)

Well Pad # 29

Environmental Monitoring for Ambient Air, DG Stack emissions, and Noise level are carried out for **Well Pad # 29 (FW004) in AA-ONHP-2017/1 Block.**

All parameters are under the standards as prescribed by CPCB and no deviations were observed.

Ambient Air Quality Monitoring Results in the Well Pad

Three locations were selected around the operational areas for AAQ monitoring. The graphical interpretation of the results is provided below.

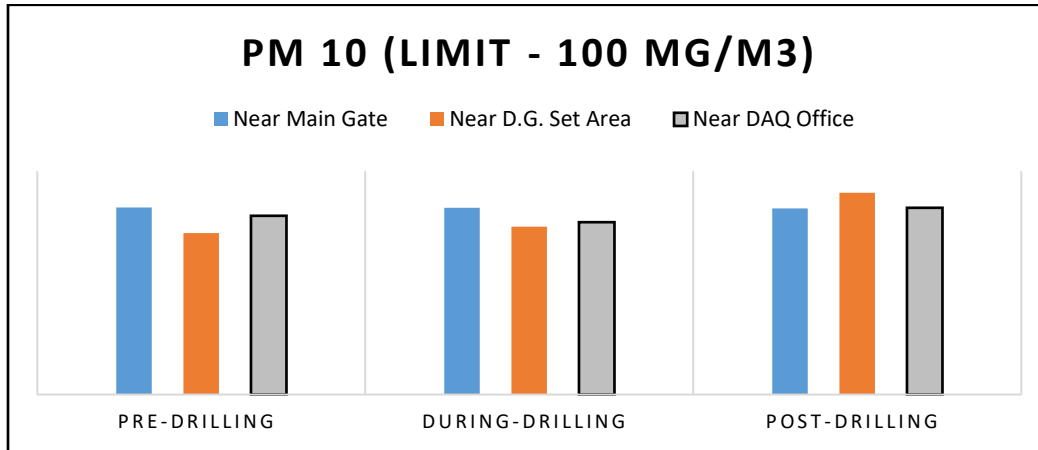


Figure 1: Graphical representation of average trend of PM₁₀ in Well Pad

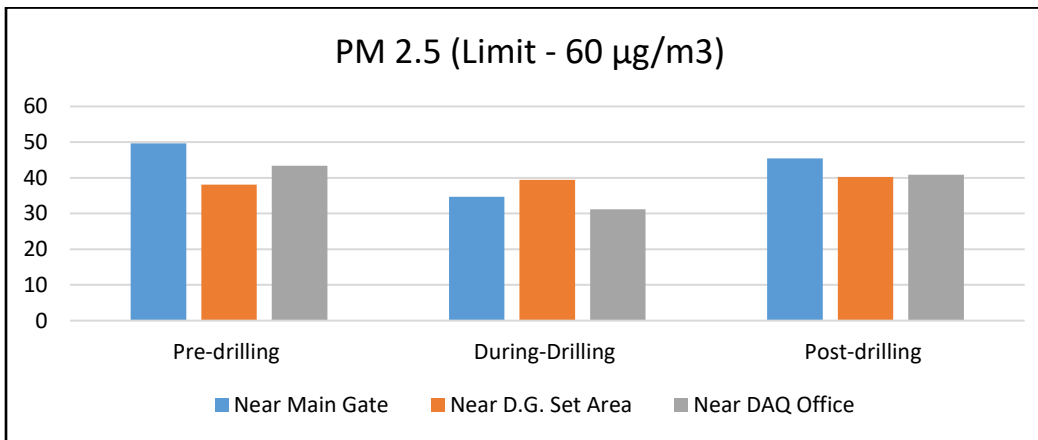


Figure 2: Graphical representation of average trend of PM_{2.5} in Well Pad

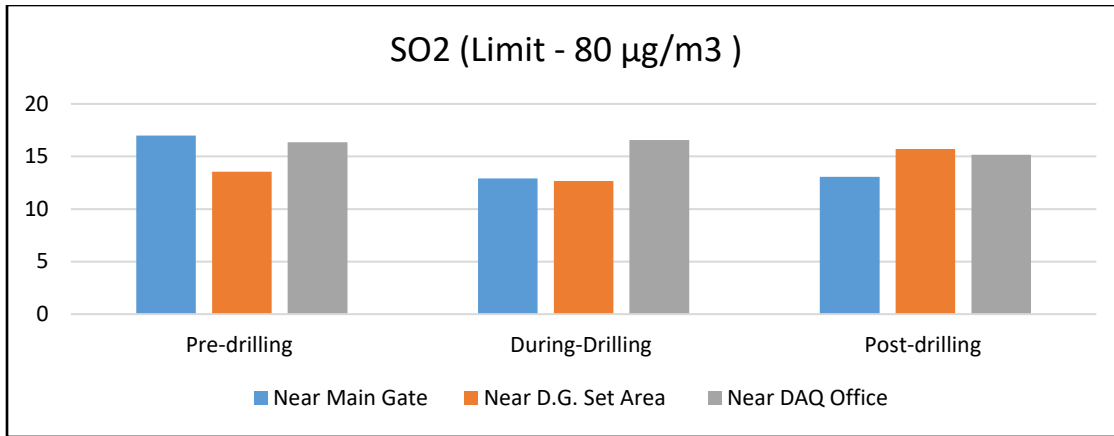


Figure 3: Graphical representation of average trend of SO₂ in Well Pad

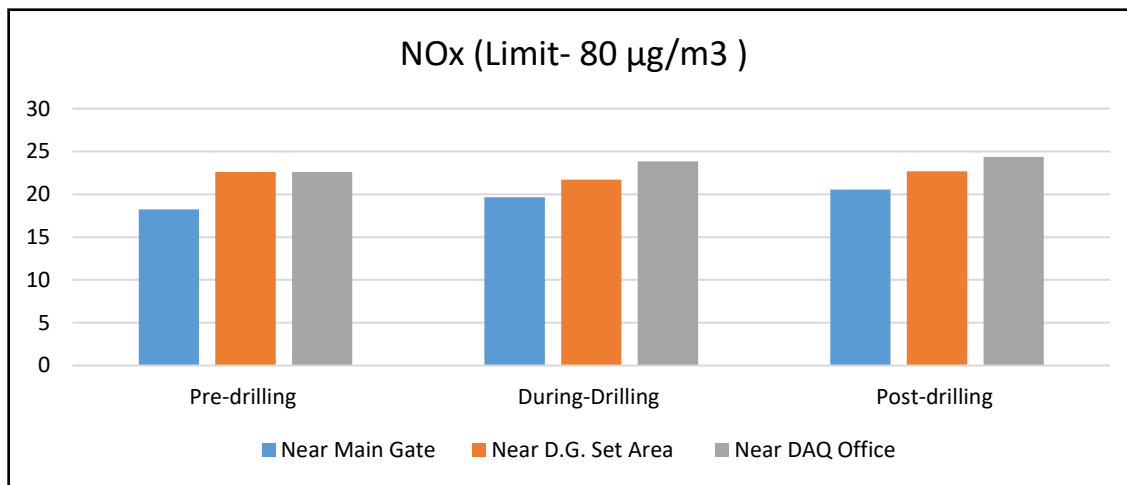


Figure 4: Graphical representation of average trend of NO_x in Well Pad

VOC (as BTX)			
Location	Pre-drilling	During-Drilling	Post-drilling
Near Main Gate	<0.05	<0.05	<0.05
Near D.G. Set Area	<0.05	<0.05	<0.05
Near DAQ Office	<0.05	<0.05	<0.05

Figure 5: Graphical representation of Volatile Organic Carbons in Well Pad

Ambient Noise Quality Monitoring Results in Well Pad

Three locations were selected around the operational area for noise monitoring. The graphical interpretation of the results is provided below.

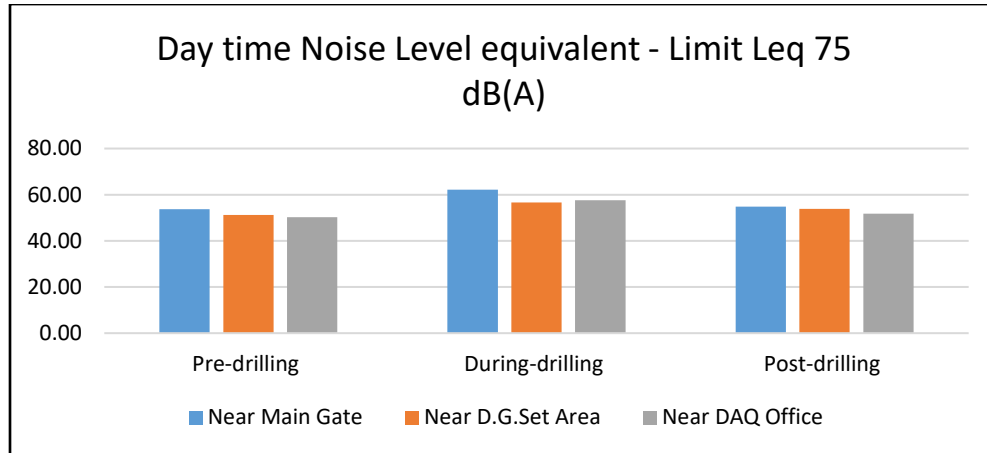


Figure 6: Graphical representation of Noise Level in Leq dB(A) in the Day Time

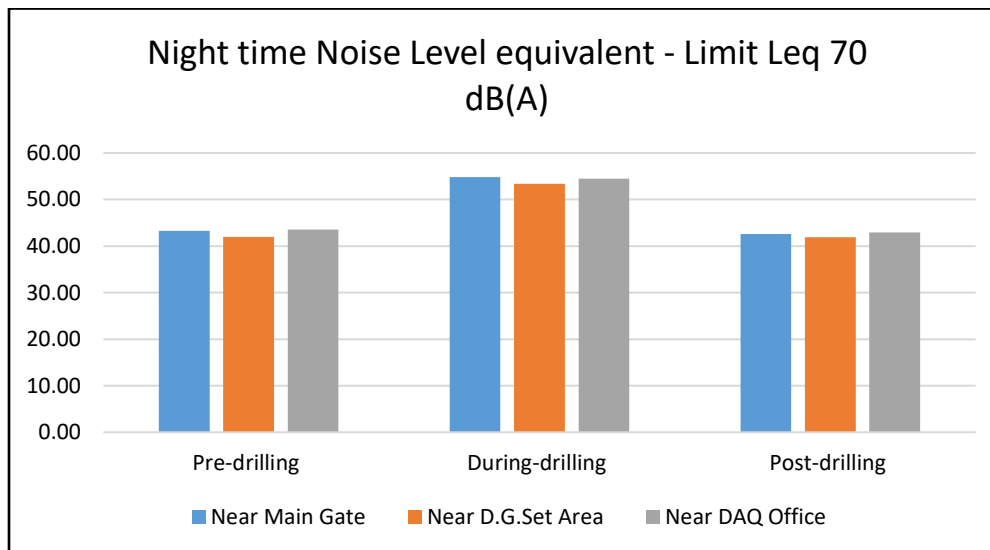


Figure 7: Graphical representation of Noise Level in Leq dB(A) in the Night-time

Stack Monitoring Results in Well Pad

Stack Monitoring was carried out for stacks attached to the exhaust stacks of various equipment across the operational site.

Graphical representation of average emission monitoring results during the reporting period is as follows:

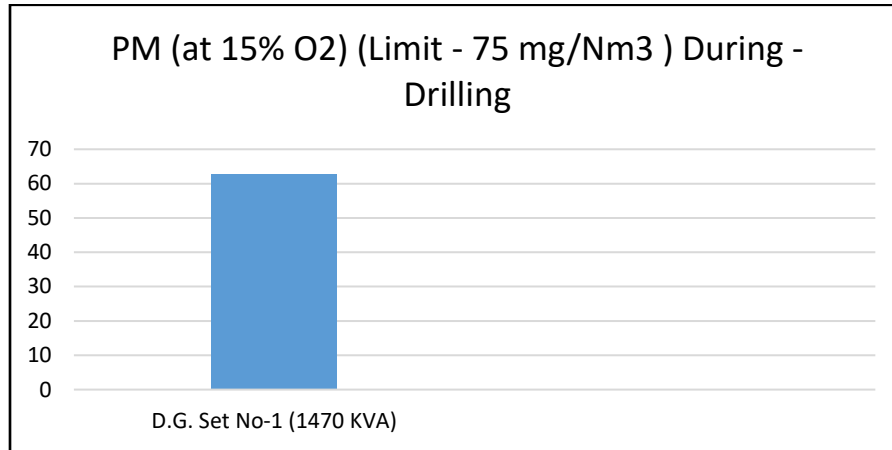


Figure 8: Graphical representation of average emission of Particulate Matter in mg/Nm³

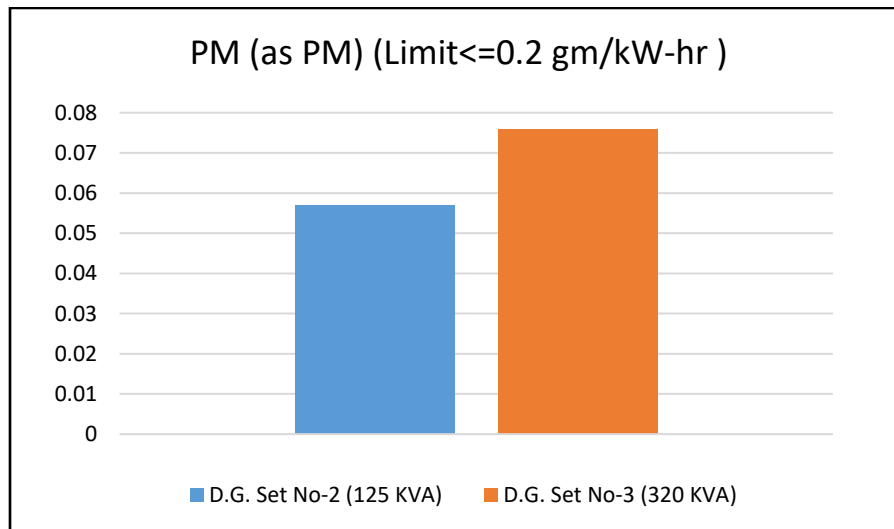


Figure9: Graphical representation of avg. emission of Particulate Matter in gm/kW-hr

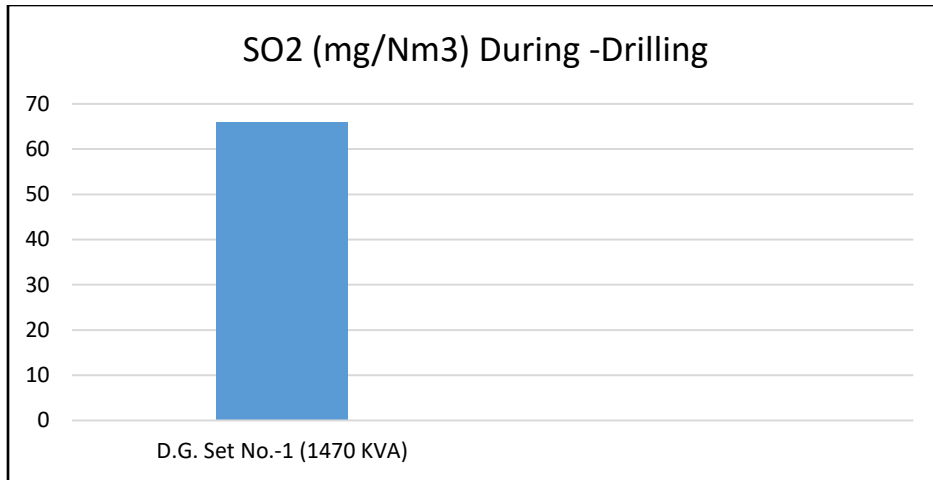


Figure 10: Graphical representation of average emission of Sulphur di-oxides (SO₂) in mg/Nm³

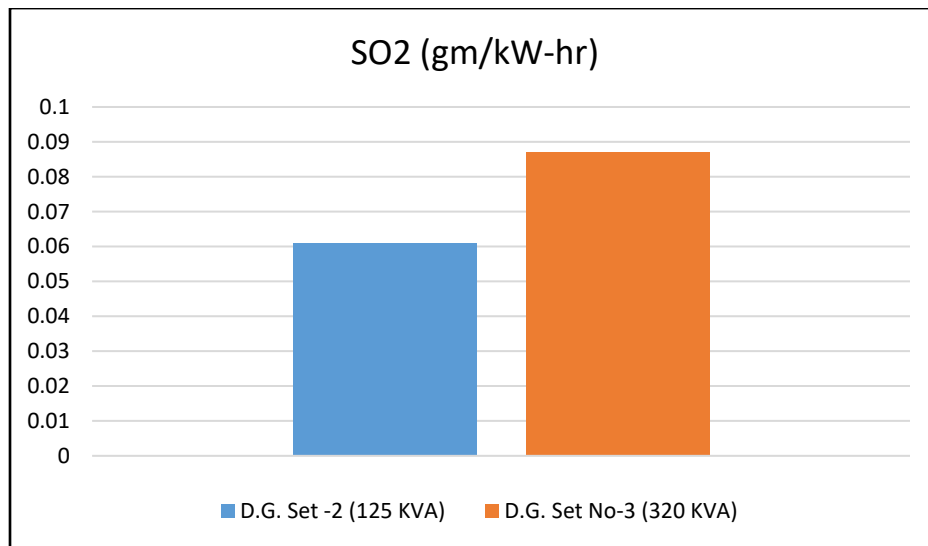


Figure 11: Graphical representation of average of Sulphur di-oxides (SO₂) in gm/kW-hr

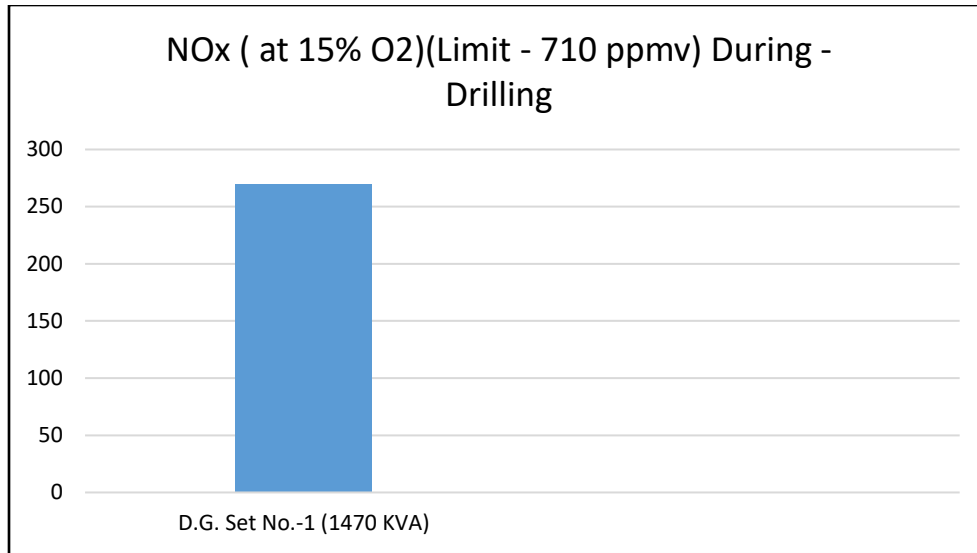


Figure 12: Graphical representation of average emission of Oxides of Nitrogen (NOx) in ppmv

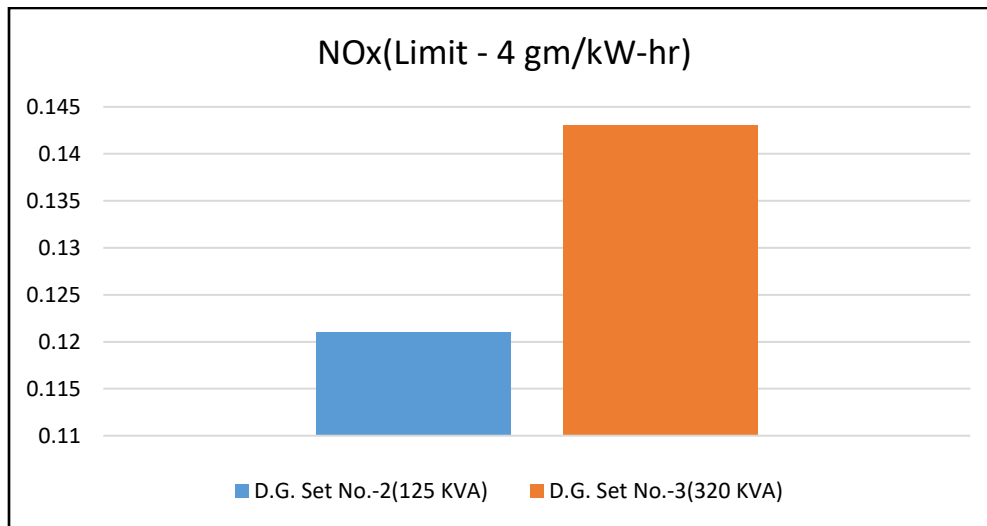


Figure 13: Graphical representation of average emission of Oxides of Nitrogen (NOx) in gm/Kwh

Work Zone Noise Monitoring Results in Well Pad

Two locations were selected around Well Pad in the operational area for work zone noise monitoring. The graphical interpretation of the results is provided below.

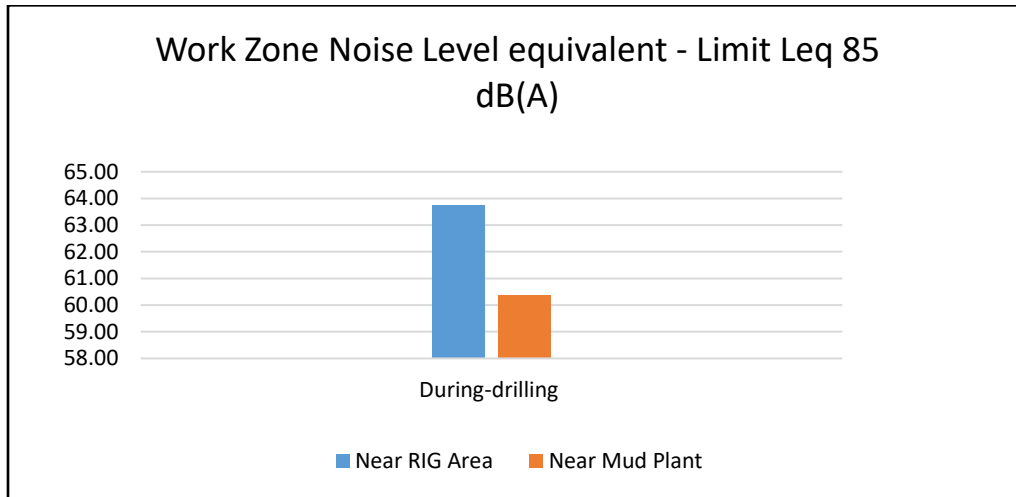


Figure 14: Graphical representation of trend of Work Zone Noise Level in Leq dB(A)

Well Pad # 28

Environmental Monitoring for Ambient Air, DG Stack emissions, and Noise level are carried out for **Well Pad # 28 (FW001) in AA-ONHP-2017/1 Block.**

All parameters are under the standards as prescribed by CPCB and no deviations were observed.

Ambient Air Quality Monitoring Results in the Well Pad

Three locations were selected around the operational areas for AAQ monitoring. The graphical interpretation of the results is provided below.

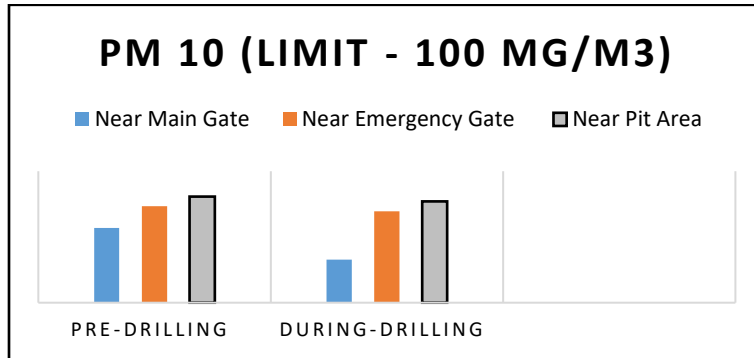


Figure 1: Graphical representation of average trend of PM₁₀ in Well Pad

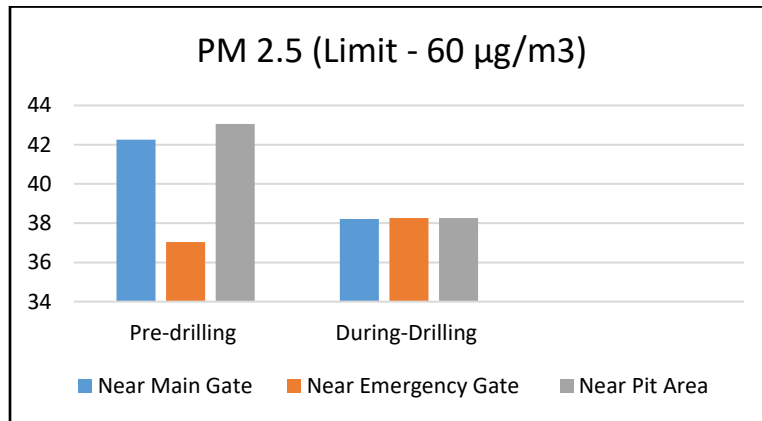


Figure 2: Graphical representation of average trend of PM_{2.5} in Well Pad

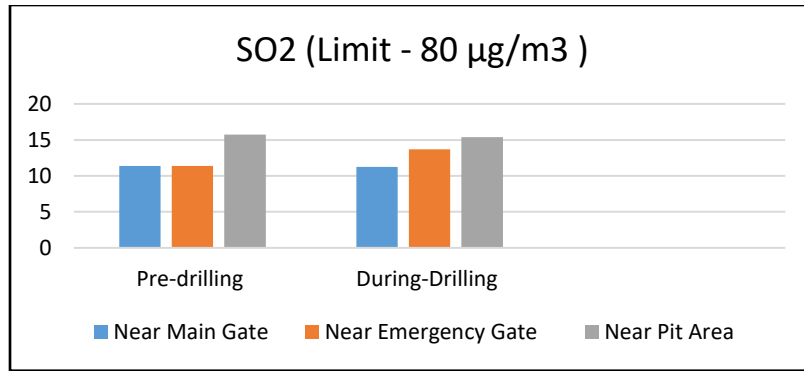


Figure 3: Graphical representation of average trend of SO₂ in Well Pad

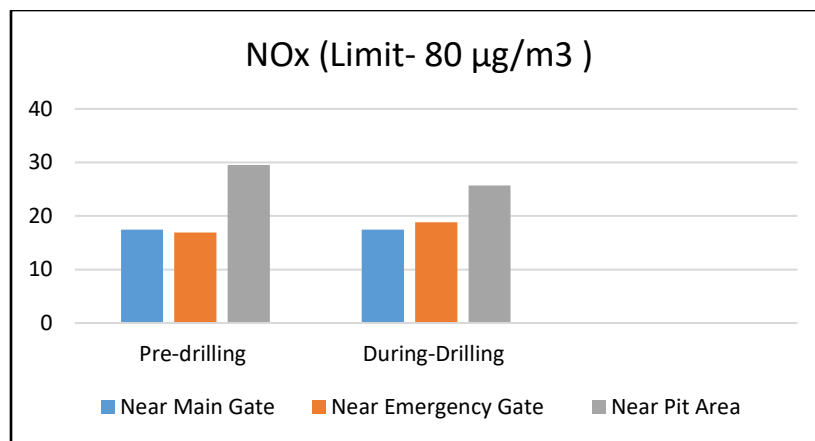


Figure 4: Graphical representation of average trend of NO_x in Well Pad

VOC (as BTX)		
Location	Pre-drilling	During-Drilling
Near Main Gate	<0.05	<0.05
Near Emergency Gate	<0.05	<0.05
Near Pit Area	<0.05	<0.05

Figure 5: Graphical representation of Volatile Organic Carbons in Well Pad

Ambient Noise Quality Monitoring Results in Well Pad

Three locations were selected around the operational area for noise monitoring. The graphical interpretation of the results is provided below.

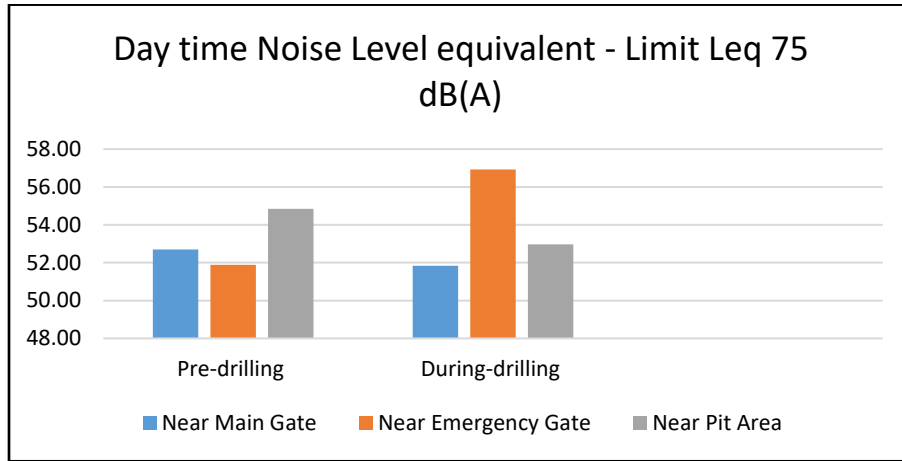


Figure 6: Graphical representation of Noise Level in Leq dB(A) in the Day Time

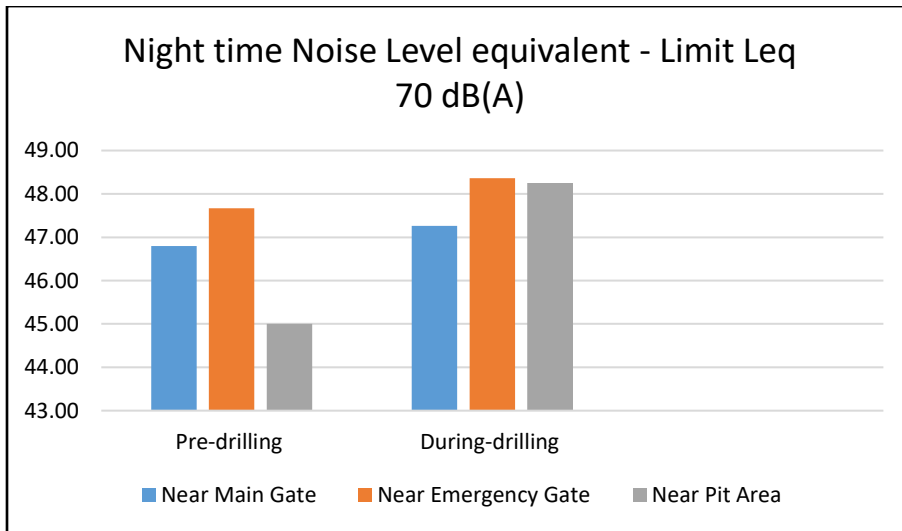


Figure 7: Graphical representation of Noise Level in Leq dB(A) in the Night-time

Stack Monitoring Results in Well Pad

Stack Monitoring was carried out for stacks attached to the exhaust stacks of various equipment across the operational site.

Graphical representation of average emission monitoring results during the reporting period is as follows:

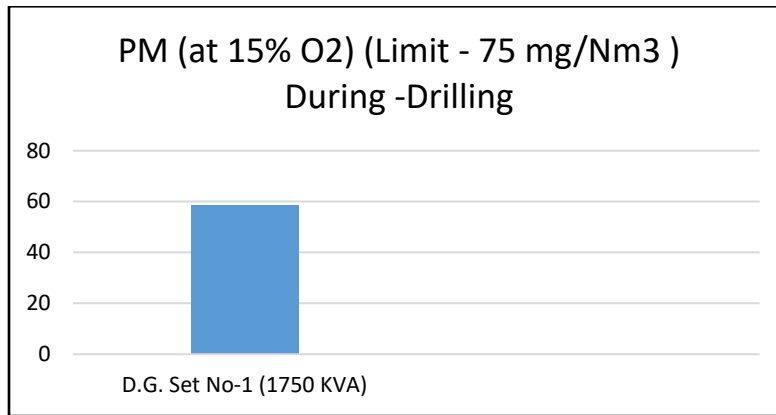


Figure 8: Graphical representation of average emission of Particulate Matter in mg/Nm³

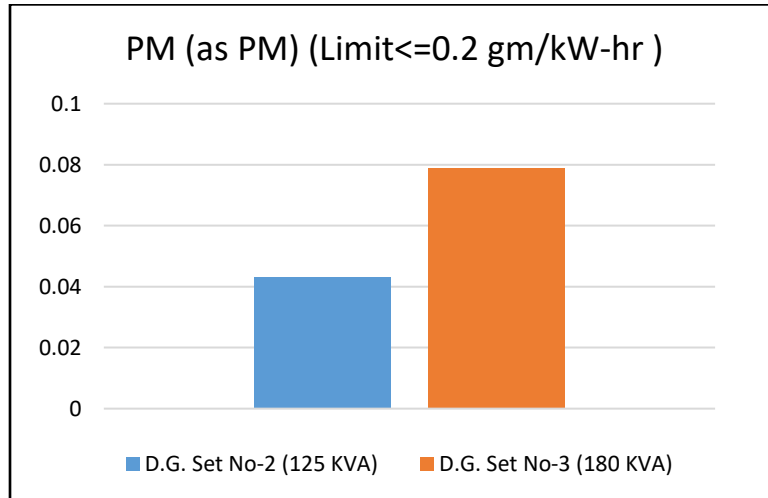


Figure9: Graphical representation of avg. emission of Particulate Matter in gm/kW-hr

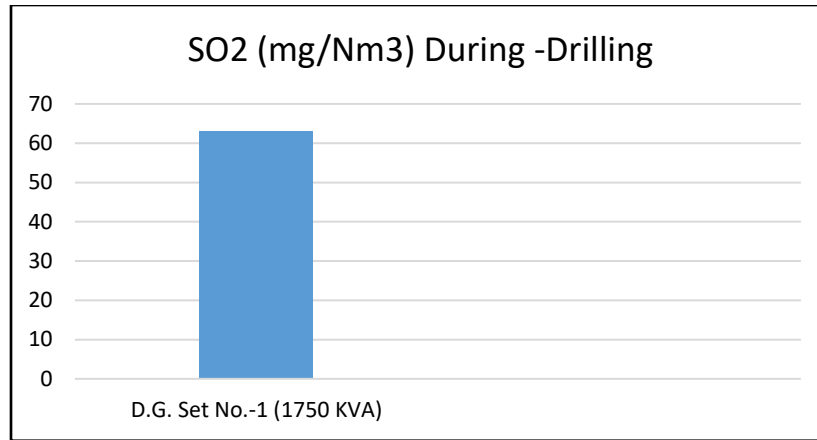


Figure 10: Graphical representation of average emission of Sulphur di-oxides (SO₂) in mg/Nm³

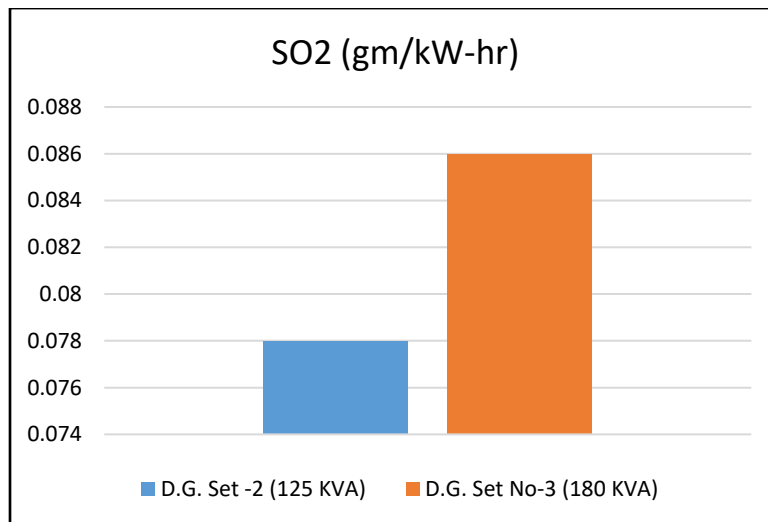


Figure 11: Graphical representation of average of Sulphur di-oxides (SO₂) in gm/kW-hr

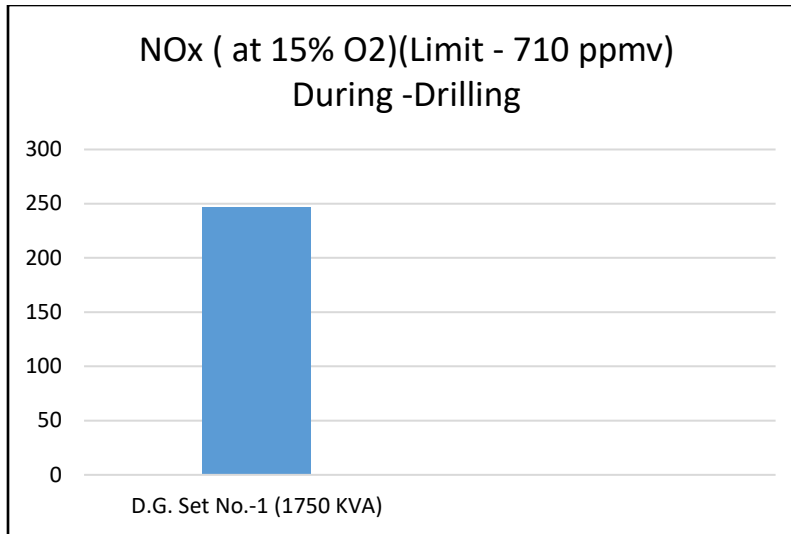


Figure 12: Graphical representation of average emission of Oxides of Nitrogen (NOx) in ppmv

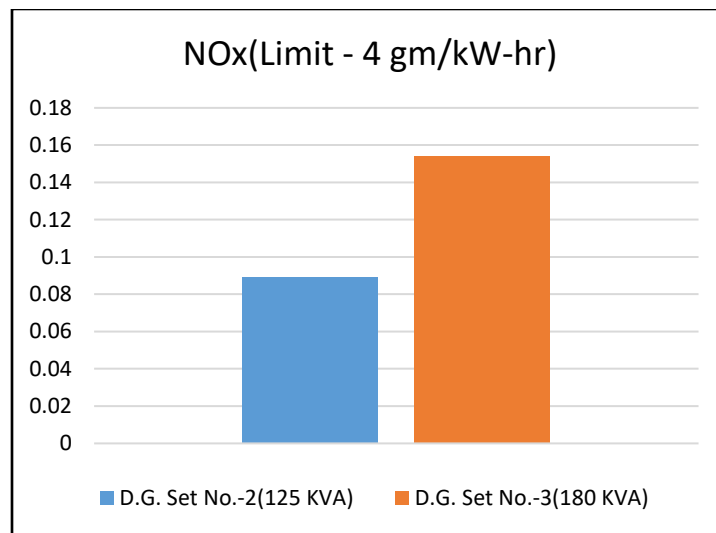


Figure 13: Graphical representation of average emission of Oxides of Nitrogen (NOx) in gm/Kwh

Work Zone Noise Monitoring Results in Well Pad

Two locations were selected around Well Pad in the operational area for work zone noise monitoring. The graphical interpretation of the results is provided below.

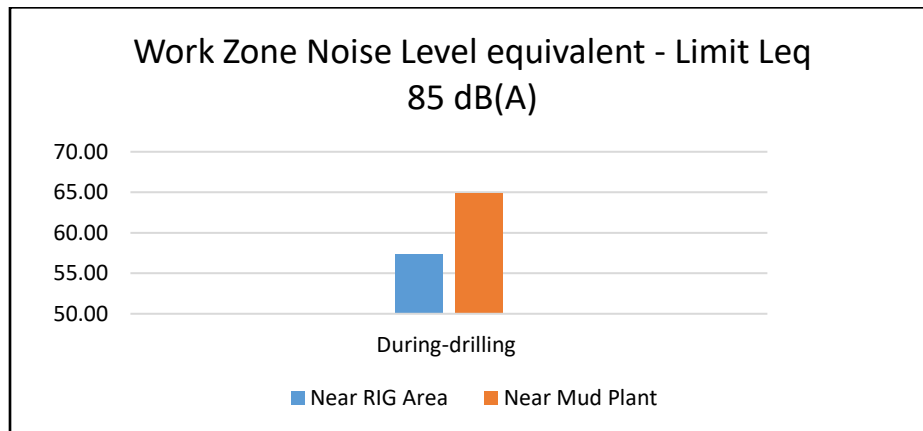


Figure 14: Graphical representation of trend of Work Zone Noise Level in Leq dB(A)