



Oil & Natural Gas Corporation Limited
Health, Safety & Environment, MBA Basin
4th Floor, A-Wing, "Technopolis" Building,
Salt Lake Sector-5, Kolkata, 700091
Fax: 033-23670121

Office of the I/C HSE, Kolkata

File: HSE/EC compliance/Oct'20-Mar'21/ 2021-22

Dated: 08.04.2021

To,
The Director (S Ministry of Environment, Forest and Climate Change
Regional Office (EZ), A/3, Chandrasekharpur,
Bhubaneswar – 751023

Sub: Submission of six monthly EC compliance reports for the period October 2020 – March 2021

- Ref:**
1. EC letter Nos. J-11011/395/2011-IA-II(I) dt 16.09.2014 (Relinquished)
 2. EC letter Nos. J-11011/396/2011-IA-II(I) dt 22.01.2015
 3. EC letter Nos. J-11011/397/2011-IA-II(I) dt 25.06.2014

Respected Sir,

As per stipulated conditions under the above mentioned Environmental Clearance letters, the compliance reports of two active blocks are hereby submitted against each condition.

Drilling activities in the referred blocks of MBA Basin during 01.10.2020 to 31.09.2020 are as follows:

Sl. No.	EC letter No.	Name of Block	Activity	Onshore /Offshore
1	J-11011/396/2011-IA-II(I) Dt. 22.01.2015	WB-ONN-2005/3 (NELP-VII)	No Drilling Activity in this block during the period October 2020 – March 2021 (TO BE RELINQUISHED)	Onshore
2	J-11011/397/2011-IA-II(I) Dt. 25.06.2014	WB-ONN-2005/4 (NELP-VII)	The B-3 (deviated well) was spudded on 26.01.2021 for further exploration & delineation of oil & gas reservoir in furtherance of discovery of oil and gas at nearby well Ahokenagar-1 earlier in November 2018. Target Depth: 3800 m. The B-3 well is currently under drilling operations with on shore Rig BI-2000-1.	Onshore

Regards,

Yours faithfully,

(Ranadeep Ghosh)
GM (E), I/C HSE, MBA Basin

Enclosures:

1. EC Compliance Reports of WB ONN-2005/3
2. EC Compliance Reports of WB ONN-2005/4

Proposed EC Compliance Report for the Bengal On shore Block: WB-ONN-2005/3 (NELP-VII)

(EC letter no. J-11011/396/2011-IA-II (I), dated 22. 01.2015)

A. SPECIFIC CONDITIONS:

Sl. No.	Conditions	Compliance Status
i	The present environmental clearance is only for exploratory drilling. In case of development drilling is to be done in future, prior environmental clearance must be obtained from concerned authorities	Only exploratory drilling will be carried out.
ii	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 for PM 10, PM 2.5, SO ₂ , NO _x , CO, methane & Non-methane HC etc.	Complied as per condition.
iii	Mercury shall also be analyzed in air, water and drill cutting twice during drilling period.	Complied as per condition.
iv	Approach road shall be made pucca to minimize generation of suspended dust.	Complied as per condition.
v	The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper stack height shall be provided as per CPCB guidelines.	Complied as per condition.
vi	Total water requirement shall not exceed 22 m ³ /day and prior permission shall be obtained from the concerned agency.	Complied as per condition. (10-12 M ³ /D)
vii	The company shall construct the garland drain all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be	Complied.

viii	Drilling wastewater including drill cutting wash shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste . Otherwise, secured landfill shall be created at the site as per the design approved by the CPCB and obtain authorization from the SPCB . Copy of authorization or	Complied as per condition
ix	Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed off through septic tank/soak pit.	Complied. Good sanitation facility provided at the drilling site
X	Oil spillage prevention scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	Complied
XI	The company shall comply with the guidelines for disposal of solid water , drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30 th August, 2005	Complied.
xii	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	Complied
xiii	The company shall develop a contingency plan for H2S release including all necessary aspect from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self containing breathing apparatus.	Complied as per condition.
xiv	On completion of drilling, the company have to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority.	Complied as per condition.
xv	Blow Out Preventer (BOP) system shall be installed to prevent well blowout during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	Complied
xvi	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	Complied.

xvii	The Company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored the area in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	Dry well was abandoned with plugs as per OMR-84
xviii	Abandoned well inventory and remediation plan shall be <u>submitted within</u> six months from the date of issue of letter.	Will be complied.
xix	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Complied
xx	In case the commercial viability of the project is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry.	Dry well was abandoned with Plugs.
xxi	Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office at Bhubaneswar.	Dry Well was abandoned and restored to natural position , No hydrocarbon Extraction .
xxii	Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office at Bhubaneswar.	Complied as per condition
xxiii	Under <u>Enterprise Social Commitment (ESC)</u> , sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project.	Complied as per condition. Company has CSR department with sufficient budgetary.
xxiv	An audit shall be done to ensure that the <u>Environmental Management Plan</u> is implemented in totally and report should be submitted to the Ministry's Regional office.	Complied as per condition.
xxv	A social audit shall be carried out for the whole operation area with the help of reputed institute like Madras Institute of Social Science etc.	Will be complied as per condition.
xxvi	All personnel including those from the contractors <u>should be</u> trained and made fully aware of the hazards, risks and controls in place.	Complied.

xxvii	Company shall have own Environment Management Cell having qualified persons with proper background.	Complied
xxviii	Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues	Complied

GENERAL CONDITIONS:

Sl. No.	Conditions	Compliance Status
i	The project <u>authorities</u> must strictly adhere to the stipulations made by the West Bengal Pollution Control Board(WBPCB), State Government and any other statutory authority.	The observations raised by the statutory authorities like West Bengal Pollution Control Board (WBPCB), State Government and statutory bodies are compiled as and when raised
ii	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviation or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Will be complied
iii	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approval from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.	Complied as per condition.

iv	<p>The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 <u>dba</u> (daytime) and 70 <u>dba</u> (night time).</p>	<p>Complied. Regular noise monitoring had been carried out by calibrated machine.</p>
v	<p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the <u>environmental management</u> and monitoring functions.</p>	<p>Complied</p>
vi	<p>A copy of clearance letter shall be <u>sent by</u> the proponent to concerned panchayat, zila parishad/Municipal Corporation , Urban Local body and the local NGO, if any, from whom suggestions/representation , if any, were received while processing the proposal. The clearance letter shall also be put on the <u>Web site of</u> the company by the proponent.</p>	<p>A copy of Environmental Clearance (EC) has been circulated to the local administration</p>
vii	<p>The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to <u>Regional Office of the MOEF</u> the respective Zonal office of CPCB and the WBPCB. The criteria pollutant levels namely;, PM10, SO2, <u>NOx</u>, HC (Methane & Non-methane), VOCs (ambient levels) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>Compliance reports is being uploaded on company's website & also sent to Regional Office of the MOEF, the respective Zonal Office of CPCB and the WBPCB.</p>

viii	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of <u>CPCB</u> and the WBPCB. The regional Office of this Ministry / <u>CPCB</u> /WBPCB shall monitor the stipulated conditions. <u>Environmental Clearance</u> and six monthly Compliance status reports shall be posted on the website of the company.</p>	<p>We are submitting the six monthly compliance reports in every six months to MoEF</p>
ix	<p><u>The environmental statement</u> for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Office of the MOEF by e-mail.</p>	<p>Will be complied as per condition.</p>
x	<p>The Project Proponent shall <u>inform</u> the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the WBPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of <u>issue</u> 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 Regional Office.</p>	<p>Complied. Published in two local news paper</p>
Xi	<p>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 commencing the land development work.</p>	<p>Will be complied</p>
Xii	<p>The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. (as per letter F. No 22-34/2018-IA.III dated 16th January 2020 by MoEF&CC.</p>	<p>Is always complied with when civil restoration works for site restoration are under taken.</p>

EC Compliance Report for the Bengal On shore Block: WB-ONN-2005/4 (NELP-VII)

(EC letter no. J-11011/397/2011-IA-II (I), dated 25. 06.2014)

A. SPECIFIC CONDITIONS:

Sl. No.	Conditions	Compliance Status
i	The present environmental clearance is only for exploratory drilling. In case of development drilling is to be done in future, prior environmental clearance must be obtained from concerned authorities	Only exploratory drilling will be carried out.
ii	Ambient air quality shall be monitored near the closest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 for PM 10, PM 2.5, SO ₂ , NO _x , CO, methane & Non-methane HC etc.	Under Compliance as per condition.
iii	Mercury shall also be analyzed in air, water and drill cutting twice during drilling period.	Being complied as per condition.
iv	Approach road shall be made <u>pucca</u> to minimize generation of suspended dust.	Complied as per condition.
v	The company shall make the arrangement for control of noise from the drilling activity. Acoustic enclosure shall be provided to DG sets and proper <u>stack height</u> shall be provided as per CPCB guidelines.	Complied as per condition.
vi	Total water requirement shall not exceed <u>22 m³/day</u> and prior permission shall be obtained from the concerned agency.	Complied as per condition. (10-12 M ³ /D)
vii	The company shall construct the <u>garland drain</u> all around the drilling site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be	Complied.

viii	Drilling wastewater including drill cutting wash shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste . Otherwise, secured landfill shall be created at the site as per the design approved by the CPCB and obtain authorization from the SPCB . Copy of authorization or	Complied as per condition
ix	Good sanitation facility shall be provided at the drilling site. Domestic sewage shall be disposed off through septic tank/soak pit.	Complied. Good sanitation facility provided at the drilling site
X	Oil spillage prevention scheme shall be prepared. In case of oil spillage/contamination, action plan shall be prepared to clean the site by adopting proven technology. The recyclable waste (oily sludge) and spent oil shall be disposed of to the authorized recyclers.	Complied
XI	The company shall comply with the guidelines for disposal of solid water , drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30 th August, 2005	Being Complied.
xii	The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. Possibility of using ground flare shall be explored. At the place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during operation.	Complied
xiii	The company shall develop a contingency plan for H2S release including all necessary aspect from evacuation to resumption of normal operations. The workers shall be provided with personal H2S detectors in locations of high risk of exposure along with self containing breathing apparatus.	Complied as per condition.
xiv	On completion of drilling, the company have to plug the drilled wells safely and obtain certificate from environment safety angle from the concerned authority.	Will be Complied as per condition.
xv	Blow Out Preventer (BOP) system shall be installed to prevent well blowout during drilling operations. BOP measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.	complied
xvi	Emergency Response Plan (ERP) shall be based on the guidelines prepared by OISD, DGMS and Govt. of India.	Complied.

xvii	The Company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored the area in original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.	Dry well is abandoned with plugs as per OMR-84
xviii	Abandoned well inventory and remediation plan shall be <u>submitted within</u> six months from the date of issue of letter.	Will be complied.
xix	Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.	Complied
xx	In case the commercial viability of the project is established, the Company shall prepare a detailed plan for development of oil and gas fields and obtain fresh environmental clearance from the Ministry.	Dry well will be abandoned with Plugs.
xxi	Restoration of the project site shall be carried out satisfactorily and report shall be sent to the Ministry's Regional Office at Bhubaneswar.	Well is temporarily abandoned
xxii	Oil content in the drill cuttings shall be monitored by some Authorized agency and report shall be sent to the Ministry's Regional Office at Bhubaneswar.	Complied as per condition
xxiii	Under <u>Enterprise Social Commitment (ESC)</u> , sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project.	Complied as per condition Company has CSR department with sufficient budgetary.
xxiv	An audit shall be done to ensure that the <u>Environmental Management Plan</u> is implemented in totally and report should be submitted to the Ministry's Regional office.	Complied as per condition.
xxv	A social audit shall be carried out for the whole operation area with the help of reputed institute like Madras Institute of Social Science etc.	Will be complied as per condition.
xxvi	All personnel including those from the contractors <u>should be</u> trained and made fully aware of the hazards, risks and controls in place.	Complied.

xxvii	Company shall have own Environment Management Cell having qualified persons with proper background.	Complied
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ii	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of deviation or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Will be complied.
iii	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approval from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.	Complied as per condition.

iv	<p>The overall noise levels in and around the plant area should 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 <u>dB(A)</u> (daytime) and 70 <u>dB(A)</u> (night time).</p>	<p>Complied Regular noise monitoring has been carried out by authorized agency.</p>
v	<p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be set up to carry out the <u>environmental management</u> and monitoring functions.</p>	<p>Complied</p>
vi	<p>A copy of clearance letter shall be <u>sent</u> by the proponent to concerned panchayat, zila parishad/Municipal Corporation , Urban Local body and the local NGO, if any, from whom suggestions/representation , if any, were received while processing the proposal. The clearance letter shall also be put on the <u>Web site</u> of the company by the proponent.</p>	<p>A copy of Environmental Clearance (EC) has been circulated to the local administration</p>
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ix	<p>The <u>environmental statement</u> for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Office of the MOEF by e-mail.</p>	<p>Will be complied as per condition.</p>
x	<p>The Project Proponent shall <u>inform</u> the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the WBPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of <u>issue</u> 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 Regional Office.</p>	<p>Complied. Published in two local news paper</p>
Xi	<p>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 commencing the land development work.</p>	<p>Will be complied</p>
Xii	<p>The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. (as per letter F. No 22-34/2018-IA.III dated 16th January 2020 by MoEF&CC.</p>	<p>Is always complied with when civil restoration works for site restoration are under taken.</p>



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Laboratory Recognised By West Bengal Pollution Control Board
An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified



Certificate No.: TC-7549
NABL Accredited Laboratory

90, Lake East (4th Road) Santoshpur, Jadavpur, Kolkata - 700 075

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Website : www.srlkolkata.com

[ULR - TC764921000000232F]

[Format No.: SRL / FRM / 19]

STACK EMISSION MONITORING REPORT

Name & Address of the Factory	: M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal
Sample No.	: S - 111 - 2021

A INFORMATION OF PHYSICAL CHARACTERISTIC OF STACK

Stack connected to	: 1430 KVA D. G. Set [SI.No.S 2G 00361] D - 1
Emission due to	: Burning of H.S.D
Material of construction of stack	: M.S
Shape of stack	: Circular
Whether stack is provide with permanent platform/ladder	: Yes.
Height of the stack	: 8.736 m.
Height of the sampling point	: 5.61 m.
Diameter of the stack at Sampling Point	: 0.330 m
Fuel used	: H.S.D
Fuel consumption	: 22.0 GPH

B STACK EMISSION SAMPLING AND TEST REPORT

Parameters, (Unit)	Results	Test Method
Temperature of emission	: 285 °C	EPA Method 2
Barometric pressure	: 758 mm.Hg	EPA Method 2
Velocity of gas in stack	: 13.30 m/sec.	EPA Method 2
Quantity of gas flow	: 2143.58 Nm ³ /hr	EPA Method 2
Concentration of Sulphur dioxide	: 313.07 mg/Nm ³	IS :11255(Part 2) 1985 RA2009
Conc. of Nitrogen dioxide, (At 15% O ₂), dry basis	: 75.91 ppmv	IS :11255(Part 7) 1985 RA2009
Conc. of Oxygen	: 13.4 %	EPA METHOD 3(1983), Amended:1999
Conc. of Carbon monoxide (At 15% O ₂)	: 28.80 mg/Nm ³	EPA METHOD 3(1983), Amended:1999
Conc. of Carbon dioxide	: 5.2%	EPA METHOD 3(1983), Amended:1999
Conc. of Particulate Matter (At 13.4% O ₂)	: 83.25 mg /Nm ³	IS :11255(Part 1) 1985 RA2012
Conc. of Particulate Matter (At 15 % O ₂)	: 65.49 mg /Nm ³	..

C REMARKS

Date of Sampling	: 04.02.2021
Date of Starting & Completion of Analysis	: 04.02.2021 & 10.02.2021
Date of Reporting	: 10.02.2021
Report No.	: SRL / ONGC (ASHOKENAGAR) / EMI / S - 111 - 2021

—End of Test Report—

1 of 1

Gautam Chowdhury
(Authorized Signatory)

- The test report shall not be reproduced, except in full, without written approval of the company.
- Results relate only to the parameters tested.
- No Repeat Analysis will be entertained after 15 days from the date of reporting.
- All relevant information of customers regarding testing are treated as "Confidential"



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Website : www.srlokolata.com

[Format No.: SRL / FRM / 19]

STACK EMISSION MONITORING REPORT

Name & Address of the Factory	: M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal	
Sample No.	: S - 111 - 2021	
A INFORMATION OF PHYSICAL CHARACTERISTIC OF STACK		
Stack connected to	: 1430 KVA D. G. Set [S.No. S 2G 00361] D - 1	
Emission due to	: Burning of H.S.D	
Material of construction of stack	: M.S	
Shape of stack	: Circular	
Whether stack is provide with permanent platform/ladder	: Yes.	
Height of the stack	: 8.736 m.	
Height of the sampling point	: 5.61 m.	
Diameter of the stack at Sampling Point	: 0.330 m	
Fuel used	: H.S.D	
Fuel consumption	: 22.0 GPH	
B STACK EMISSION SAMPLING AND TEST REPORT		
Parameters, (Unit)	Results	Test Method
Temperature of emission	: 285 °C	EPA Method 2
Barometric pressure	: 758 mm.Hg	EPA Method 2
Velocity of gas in stack	: 13.30 m/sec.	EPA Method 2
Quantity of gas flow	: 2143.58 Nm ³ /hr	EPA Method 2
Conc. of CH ₄ (as C, At 15% O ₂)	: 55.17 mg/Nm ³	GC-FID [Flame Ionization] Detector.
Conc. of NMHC (as C, At 15% O ₂)	: 30.22 mg/Nm ³	Method: 109 [GC-FID & Methaniser]
C REMARKS		
Date of Sampling	: 04.02.2021	
Date of Starting & Completion of Analysis	: 04.02.2021 & 10.02.2021	
Date of Reporting	: 10.02.2021	
Report No.	: SRL / ONGC (ASHOKENAGAR) / EMI / S - 111 - 2021	

—End of Test Report—

1 of 1

Gautam Chowdhury
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Website : www.srlkolkata.com

[Format No.: SRL / FRM / 19]

STACK EMISSION MONITORING REPORT

Name & Address of the Factory	: M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal	
Sample No.	: S - 112 - 2021	
A INFORMATION OF PHYSICAL CHARACTERISTIC OF STACK		
Stack connected to	: 1430 KVA D. G. Set [SI.No.S 2G 00362] D - 2	
Emission due to	: Burning of H.S.D	
Material of construction of stack	: M.S	
Shape of stack	: Circular	
Whether stack is provide with permanent platform/ladder	: Yes.	
Height of the stack	: 8.736 m.	
Height of the sampling point	: 5.61 m.	
Diameter of the stack at Sampling Point	: 0.330 m	
Fuel used	: H.S.D	
Fuel consumption	: 22.0 GPH	
B STACK EMISSION SAMPLING AND TEST REPORT		
Parameters. (Unit)	Results	Test Method
Temperature of emission	: 276 °C	EPA Method 2
Barometric pressure	: 758 mm.Hg	EPA Method 2
Velocity of gas in stack	: 14.75 m/sec.	EPA Method 2
Quantity of gas flow	: 2413.02 Nm ³ /hr	EPA Method 2
Conc.of CH ₄ (as C. At 15% O ₂)	: 49.39 mg/Nm ³	GC-FID (Flame Ionization) Detector.
Conc.of NMHC (as C. At 15% O ₂)	: 34.49 mg/Nm ³	Method:109 [GC-FID & Methaniser]
C REMARKS		
Date of Sampling	: 04.02.2021	
Date of Starting & Completion of Analysis	: 04.02.2021 & 10.02.2021	
Date of Reporting	: 10.02.2021	
Report No.	: SRL / ONGC (ASHOKENAGAR) / EMI / S - 112 - 2021	

—End of Test Report—

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[ULR - TC76492100000234F]

[Format No.: SRL / FRM / 19]

STACK EMISSION MONITORING REPORT

Name & Address of the Factory	M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal
Sample No.	S - 113 - 2021

A INFORMATION OF PHYSICAL CHARACTERISTIC OF STACK

Stack connected to	1430 KVA D. G. Set [SI.No.S 2G 00363]	D - 3
Emission due to	Burning of H.S.D	
Material of construction of stack	M.S	
Shape of stack	Circular	
Whether stack is provide with permanent platform/ladder	Yes.	
Height of the stack	8.736 m.	
Height of the sampling point	5.61 m.	
Diameter of the stack at Sampling Point	0.330 m	
Fuel used	H.S.D	
Fuel consumption	22.0 GPH	

B STACK EMISSION SAMPLING AND TEST REPORT

Parameters, (Unit)	Results	Test Method
Temperature of emission	272 °C	EPA Method 2
Barometric pressure	758 mm.Hg	EPA Method 2
Velocity of gas in stack	11.37 m/sec.	EPA Method 2
Quantity of gas flow	1873.01 Nm ³ /hr	EPA Method 2
Concentration of Sulphur dioxide	303.25 mg/Nm ³	IS :11255(Part 2) 1985 RA2009
Conc.of Nitrogen dioxide (At 15% O ₂),dry basis	85.71 ppmv	IS :11255(Part 7) 1985 RA2009
Conc.of Oxygen	13.8 %	EPA METHOD 3(1983),Amended:1999
Conc.of Carbon monoxide (At 15% O ₂)	32.43 mg/Nm ³	EPA METHOD 3(1983),Amended:1999
Conc.of Carbon dioxide	5.6%	EPA METHOD 3(1983),Amended:1999
Conc.of Particulate Matter (At 14.4% O ₂)	79.30 mg /Nm ³	IS :11255(Part 1) 1985 RA2012
Conc.of Particulate Master (At 15 % O ₂)	65.90 mg /Nm ³	-

C REMARKS

Date of Sampling	: 04.02.2021
Date of Starting & Completion of Analysis	: 04.02.2021 & 10.02.2021
Date of Reporting	: 10.02.2021
Report No.	: SRL / ONGC (ASHOKENAGAR) / EMI / S - 113 - 2021

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Website : www.srkkolkata.com

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STACK EMISSION MONITORING REPORT

Name & Address of the Factory	: M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal
Sample No.	: S - 113 - 2021

A INFORMATION OF PHYSICAL CHARACTERISTIC OF STACK

Stack connected to	: 1430 KVA D. G. Set [SI.No.S 2G 00363] D - 3
Emission due to	: Burning of H.S.D
Material of construction of stack	: M.S
Shape of stack	: Circular
Whether stack is provide with permanent platform/ladder	: Yes.
Height of the stack	: 8.736 m.
Height of the sampling point	: 5.61 m.
Diameter of the stack at Sampling Point	: 0.330 m
Fuel used	: H.S.D
Fuel consumption	: 22.0 GPH

B STACK EMISSION SAMPLING AND TEST REPORT

Parameters, (Unit)	Results	Test Method
Temperature of emission	: 272 °C	EPA Method 2
Barometric pressure	: 758 mm.Hg	EPA Method 2
Velocity of gas in stack	: 11.37 m/sec.	EPA Method 2
Quantity of gas flow	: 1873.01 Nm ³ /hr	EPA Method 2
Conc. of CH ₄ (as C, At 15% O ₂)	: 59.39 mg/Nm ³	GC-FID (Flame Ionization) Detector,
Conc. of NMHC (as C, At 15% O ₂)	: 38.79 mg/Nm ³	Method: 109 (GC-FID & Methaniser)

C REMARKS

Date of Sampling	: 04.02.2021
Date of Starting & Completion of Analysis	: 04.02.2021 & 10.02.2021
Date of Reporting	: 10.02.2021
Report No.	: SRL / ONGC (ASHOKENAGAR) / EMI / S - 113 - 2021

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Website : www.srkkolkata.com

[ULR - TC764921000000235F]

[Format No.: SRL / FRM / 19]

STACK EMISSION MONITORING REPORT

Name & Address of the Factory	: M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal		
Sample No.	: S - 114 - 2021		
A INFORMATION OF PHYSICAL CHARACTERISTIC OF STACK			
Stack connected to	: 1430 KVA D. G. Set [St.No.S 2G 00315] D - 4		
Emission due to	: Burning of H.S.D		
Material of construction of stack	: M.S		
Shape of stack	: Circular		
Whether stack is provide with permanent platform/ladder	: Yes.		
Height of the stack	: 8.736 m.		
Height of the sampling point	: 5.61 m.		
Diameter of the stack at Sampling Point	: 0.330 m		
Fuel used	: H.S.D		
Fuel consumption	: 18.0 GPH		
B STACK EMISSION SAMPLING AND TEST REPORT			
Parameters, (Unit)	Results	Test Method	
Temperature of emission	: 292 °C	EPA Method 2	
Barometric pressure	: 758 mm.Hg	EPA Method 2	
Velocity of gas in stack	: 13.37 m/sec.	EPA Method 2	
Quantity of gas flow	: 2122.11 Nm ³ /hr	EPA Method 2	
Concentration of Sulphur dioxide	: 321.26 mg/Nm ³	IS :11255(Part 2) 1985 RA2009	
Conc.of Nitrogen dioxide,(At 15% O ₂),dry basis	: 84.28 ppmv	IS :11255(Part 7) 1985 RA2009	
Conc.of Oxygen	: 13.8 %	EPA METHOD 3(1983),Amended:1999	
Conc.of Carbon monoxide (At 15% O ₂)	: 29.62 mg/Nm ³	EPA METHOD 3(1983),Amended:1999	
Conc of Carbon dioxide	: 5.6%	EPA METHOD 3(1983),Amended:1999	
Conc.of Particulate Matter (At 14.4% O ₂)	: 88.10 mg /Nm ³	IS :11255(Part 1) 1985 RA2012	
Conc.of Particulate Matter (At 15 % O ₂)	: 69.30 mg /Nm ³	-	
C REMARKS			
Date of Sampling	: 04.02.2021		
Date of Starting & Completion of Analysis	: 04.02.2021 & 10.02.2021		
Date of Reporting	: 10.02.2021		
Report No.	: SRL / ONGC (ASHOKENAGAR) / EMI / S - 113 - 2021		

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[Format No.: SRL / FRM / 19]

STACK EMISSION MONITORING REPORT

Name & Address of the Factory	: M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargane (North), West Bengal
Sample No.	: S - 114 - 2021

A INFORMATION OF PHYSICAL CHARACTERISTIC OF STACK

Stack connected to	: 1430 KVA D. G. Set [SI.No.S 2G 00315] D - 4
Emission due to	: Burning of H.S.D
Material of construction of stack	: M.S
Shape of stack	: Circular
Whether stack is provide with permanent platform/ladder	: Yes.
Height of the stack	: 8.736 m.
Height of the sampling point	: 5.61 m.
Diameter of the stack at Sampling Point	: 0.330 m
Fuel used	: H.S.D
Fuel consumption	: 18.0 GPH

B STACK EMISSION SAMPLING AND TEST REPORT

Parameters, (Unit)	Results	Test Method
Temperature of emission	: 292 °C	EPA Method 2
Barometric pressure	: 758 mm.Hg	EPA Method 2
Velocity of gas in stack	: 13.37 m/sec.	EPA Method 2
Quantity of gas flow	: 2122.11 Nm ³ /hr	EPA Method 2
Conc. of CH ₄ (as C, At 15% O ₂)	: 54.97 mg/Nm ³	GC-FID (Flame Ionization) Detector
Conc. of NMHC (as C, At 15% O ₂)	: 36.21 mg/Nm ³	Method:109 [GC-FID & Methaniser]

C REMARKS

Date of Sampling	: 04.02.2021
Date of Starting & Completion of Analysis	: 04.02.2021 & 10.02.2021
Date of Reporting	: 10.02.2021
Report No.	: SRL / ONGC (ASHOKENAGAR) / EMI / S - 113 - 2021

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[ULR - TC764921000000246F]

[FORMAT NO. SRL / FRM / 18]

AMBIENT AIR QUALITY MONITORING

Name & Address of the Factory	Ws. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal		
Sampling Location	Open Space Inside the Premises Near Main Gate		
Sample Identification No.	A - 028 - 2021		
Environmental Condition	Temp. 22°C	Sampling Date	04.02.2021 TO 05.02.2021
Average Relative Humidity	58 %	Barometric Pressure	756 mm Hg.
Sample Receiving/Analysis Starting On	05.02.2021	Analysis Completed on	11.02.2021

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[SRL/ ONGC/AMB/A - 028 - 2021 Dated: 11.02.2021]

SL.NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	PM ₁₀	µg/m ³	122.37	IS 5182 (Part-23) : 2006	100.0
02.	PM _{2.5}	µg/m ³	67.27	USEPA 40 CFR Parts 53 & 58	60.0
03.	Sulphur dioxide (SO ₂)	µg/m ³	6.85	IS:5182 (Part-2):2006 (First Revision)	80.0
04.	Nitrogen Oxides (NO _x)	µg/m ³	36.49	IS:5182 (Part-6):2006 (First Revision)	80.0
05.	Ozone (O ₃)	µg/m ³	43.25	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method 411	100.0
06.	Ammonia (NH ₃)	µg/m ³	41.93	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-4D1	400.0
07.	Lead (Pb)	µg/m ³	0.11	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-303A, 822	1.0
08.	Benzene (C ₆ H ₆)	µg/m ³	2.08	IS 5182 (Part 11) : 2006	5.0
09.	Arsenic (As)	ng/m ³	2.05	Standard Method- APHA, 20 th Edition. 1998 By Atomic Absorption Spectrophotometer Using Vapour Generation Assembly (VGA)	6.0
10.	Benzo(a)Pyrene (BaP)	ng/m ³	0.86	IS 5182 (Part 12) : 2009	1.0
11.	Nickel (Ni)	ng/m ³	8.96	Methods of Air Sampling and Examination, Third Edition. Edited by James P. Lodge, Method-303A, 822	20.0
12.	Carbon monoxide (CO)	mg/m ³	0.562	IS 5182(Part-10):1999	2.0

NOTE: PM₁₀ & PM_{2.5} sampling was carried out for 24 hours. Ozone (O₃) & Carbon Monoxide (CO) for 8 hourly basis.

—End of Test Report—

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[FORMAT NO. SRL / FRM / 18]

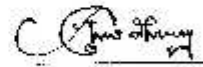
AMBIENT AIR QUALITY MONITORING

Name & Address of the Factory	M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal		
Sampling Location	Open Space Inside the Premises Near Main Gate		
Sample Identification No.	A - 028 - 2021		
Environmental Condition	Temp. 22°C	Sampling Date	04.02.2021 TO 05.02.2021
Average Relative Humidity	58 %	Barometric Pressure	756 mm Hg.
Sample Receiving/Analysis Starting On	05.02.2021	Analysis Completed on	11.02.2021

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

[SRL/ ONGC/AMB/A - 028 - 2021 Dated: 11.02.2021]

SL NO	PARAMETERS	UNIT	RESULTS	TEST SPECIFICATION	STANDARD/ LIMITS
01.	Methane (CH ₄)	mg/m ³	0.795	-	--
02.	Total Hydro Carbon (THC) [As Methane]	mg/m ³	1.487	Method of air sampling and examination, third edition, edited by James P Lodge, method,109 [GC-FID & Methaniser]	-
03.	Non-Methane Hydro Carbon(NMHC)	mg/m ³	0.681	Method of air sampling and examination, third edition, edited by James P Lodge, method,109 [GC-FID]	--
04.	Mercury (Hg)	µg/m ³	< 0.002	Method of air sampling and examination, third edition, edited by James P Lodge, method,317	--


Gautam Chowdhury
(Authorized Signatory)

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[ULR - TC764921000000245F]

[FORMAT NO. SRL / FRM / 21]

AMBIENT NOISE MONITORING

Customer Name & Address	M/s. Oil & Natural Gas Corporation Ltd. Ashoke Nagar, Habra Dist- 24 Pargans (North), West Bengal		
Sample Identification No.	ANQ - 053 - 2021 TO ANQ - 056 - 2021		
Sampling Date	05.02.2021	Barometric Pressure	758 mm. Hg.
Sample Receiving/Analysis Starting On	05.02.2021	Analysis Completed on	11.02.2021

RESULTS OF AMBIENT NOISE LEVEL MEASUREMENT

[SRL/ DVC (MTPS) /AMB/ ANQ - 053 - 2021 TO WZNO - 056 - 2021 Dated: 11.02.2021]

SAMPLE .NO.	SAMPLING LOCATION	DAY TIME			NIGHT TIME		
		L _{max} dB(A)	L _{min} dB(A)	Equivalent Noise Intensity Level (Leq) dB(A)	L _{max} dB(A)	L _{min} dB(A)	Equivalent Noise Intensity Level (Leq) dB(A)
ANQ - 053 - 2021	Near Mud Pump Area	90.4	88.0	89.09	86.0	84.5	85.20
ANQ - 054 - 2021	Near Diesel Generator Set Area	83.3	82.3	82.88	80.7	79.0	80.18
ANQ - 055 - 2021	Near Shale Shaker Area	77.8	76.5	77.26	75.0	73.8	74.44
ANQ - 056 - 2021	Derrick Floor	93.7	92.3	92.93	90.0	88.4	89.48

Gautam Chowdhury
(Authorized Signatory)

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DETAILS OF MUD SAMPLE

[Format No. : SRL / FRM / 51]

Name & Address of the Customer : M/s. Oil & Natural Gas Corporation Ltd.
Exploratory well (B-3)
Asokenagar, Mouza-BAIGACHHI,
Tehsil - ASHOKNAGAR, Police Station - HABRA,
District- NORTH 24-PARGANAS,
WEST BENGAL, PIN CODE.- 743222

Sampling Location : Drill Cutting Mud

Sample Identification No. : MISC. DRILLING MUD -130-2021

Sampling Method/Sample Collected By : Grab / Scientific Research Laboratory

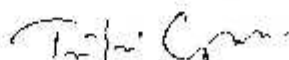
Environmental Condition : Dry Sampling Date : 04.01.2021

Sample Receiving/Analysis Starting On : 04.01.2021 Analysis Completed On : 19.02.2021

TEST REPORT OF MUD SAMPLE

[SRL/ ONGC (KOL) MISC. DRILLING MUD -130-2021 Dated: 19.02.2021]

SL. NO.	PARAMETERS	Unit	MISC. DRILLING MUD -130-2021
1.	LC-50 (Wet Basis)	mg/L	20000
2.	pH	-	10.30
3.	Density	gm/cc	1.06
4.	Calorific Value	kcal/kg	196.0
5.	Oil & Grease	mg/kg	<10.0
6.	Cadmium	mg/kg	<2.0
7.	Hexavalent Chromium	mg/kg	<0.4
8.	Total Chromium	mg/kg	41.4
9.	Arsenic	mg/kg	2.32
10.	Copper	mg/kg	41.9
11.	Zinc	mg/kg	80.7
12.	Nickel	mg/kg	44.4
13.	Lead	mg/kg	31.1
14.	Iron	mg/kg	28149.2
15.	Manganese	mg/kg	849.6
16.	Selenium	mg/kg	<0.5
17.	Cyanide	mg/kg	1.4
18.	Sulphide	mg/kg	<0.5
19.	Fluoride	mg/kg	375.8
20.	Nitrate	mg/kg	4.94
21.	Ammonia	mg/kg	1344.0
22.	Phenolic Compound	mg/kg	<0.2


Senior Chemist
(Tripti Ghosh)

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An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 (OHSAS) Certified

90, Lake East (4th Road) Santoshpur, Jadavpur, Kolkata - 700 075

Tele Fax : (033) 2416 2267, Tel.: (033) 2416 1311, E-mail : jyotirmoysrl@gmail.com, srlkoienvironmental@gmail.com

Website : www.srlkolkata.com

DETAILS OF MUD SAMPLE

[Format No. : SRL / FRM / 51]

Name & Address of the Customer : M/s. Oil & Natural Gas Corporation Ltd.
Exploratory well (B-3)
Asokenagar, Mouza-BAIGACHHI,
Tehsil - ASHOKNAGAR, Police Station - HABRA,
District- NORTH 24-PARGANAS,
WEST BENGAL, PIN CODE.- 743222

Sampling Location : Drill Cutting Mud

Sample Identification No. : MISC. DRILLING MUD -130-2021

Sampling Method/Sample Collected By : Grab / Scientific Research Laboratory

Environmental Condition : Dry Sampling Date : 04.01.2021

Sample Receiving/Analysis Starting On : 04.01.2021 Analysis Completed On : 19.02.2021

TEST REPORT OF MUD SAMPLE

[SRL/ ONGC (KOL) MISC. DRILLING MUD -130-2021 Dated: 19.02.2021]

SL. NO.	PARAMETERS	Unit	MISC. DRILLING MUD -130-2021
1.	Mercury (as Hg)	mg/kg	<0.1

Senior Chemist
(Tripti Ghosh)

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- Results relate only to the parameters tested.
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SCIENTIFIC RESEARCH LABORATORY

(Analytical & Environmental Engineering Laboratory)

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DETAILS OF DRILL CUTTING SAMPLE

[Format No. : SRL / FRM / 51]

Name & Address of the Customer : M/s. Oil & Natural Gas Corporation Ltd.
 Exploratory well (B-3)
 Asokenagar, Mouza-BAIGACHHI,
 Tahsil - ASHOKNAGAR, Police Station - HABRA,
 District- NORTH 24-PARGANAS,
 WEST BENGAL, PIN CODE.- 743222

Sampling Location : Drill Cutting Sample

Sample Identification No. : MISC. DRILL CUTTING -131-2021

Sampling Method/Sample Collected By : Grab / Scientific Research Laboratory

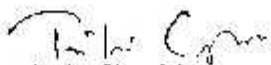
Environmental Condition : Dry Sampling Date : 05.01.2021

Sample Receiving/Analysis Starting On : 05.01.2021 Analysis Completed On : 19.02.2021

TEST REPORT OF DRILL CUTTING SAMPLE

[SRL/ ONGC (KOL) / MISC. DRILL CUTTING -131-2021 Dated: 19.02.2021]

SL. NO.	PARAMETERS	Unit	MISC. DRILL CUTTING -131-2021
1.	LC-50 (Wet Basis)	mg/L	25000
2.	pH	-	9.84
3.	Density	gm/cc	1.12
4.	Calorific Value	kcal/kg	232.0
5.	Oil & Grease	mg/kg	25.0
6.	Cadmium	mg/kg	<2.0
7.	Hexavalent Chromium	mg/kg	<0.4
8.	Total Chromium	mg/kg	33.4
9.	Arsenic	mg/kg	5.88
10.	Copper	mg/kg	37.2
11.	Zinc	mg/kg	93.4
12.	Nickel	mg/kg	45.4
13.	Lead	mg/kg	42.1
14.	Iron	mg/kg	32520.1
15.	Manganese	mg/kg	863.9
16.	Selenium	mg/kg	<0.5
17.	Cyanide	mg/kg	0.16
18.	Sulphide	mg/kg	56.3
19.	Fluoride	mg/kg	520.3
20.	Nitrate	mg/kg	5.05
21.	Ammonia	mg/kg	1456.0
22.	Phenolic Compound	mg/kg	<0.2


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