



# ABNS Scientific Services

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Monitoring, Quality Control, Survey & Environmental Consultancy

(Pollution Control Board, Assam recognized Laboratory)

H/No.152, Padumbari, Jalukbari, Guwahati-781011, Dist- Kamrup (M), Assam

## TEST REPORT

Report No. : ABNS/EM/123021/13	Date : 30/12/2021
Name & Address of the Customer: M/S ONGC Jorhat. I/C Instrumentation, 216, Dhansiri Bhavan, Cinnamara, ONGC Complex, Jorhat-785704 Drilling rigs of Drilling Services, A&AA Basin, Jorhat, Assam. India.	
Ref.: PO No: 5010143687, dt.22.12.2021	Date of sampling: 24.12.2021
Sample Description: Ambient Air	Analysis start Date: 27.12.2021
Locations: Drilling Rig E1400-24 (#TJAA),Sarupathar	Analysis end Date: 30.12.2021

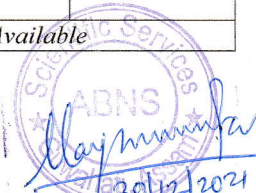
## ANALYSIS RESULT

S/N	Parameters	Units	Weather		Cloudy	Limits
			Locations (Rig 10)			
			Assembly point	CISF Gate	DG area	
RESULTS						
1	SO <sub>2</sub>	µg/m <sup>3</sup>	10.3	14.2	9.2	80
2	NO <sub>2</sub>	µg/m <sup>3</sup>	21.7	33.5	26.8	80
3	CO	mg/m <sup>3</sup>	0.76	1.62	1.14	2.0
4	HC	mg/m <sup>3</sup>	0.38	1.22	1.30	NA
5	H <sub>2</sub> S	mg/m <sup>3</sup>	BDL	BDL	BDL	NA
6	Lead (as Pb)	µg/m <sup>3</sup>	0.09	0.02	0.03	1.0
7	Ammonia (as NH <sub>3</sub> )	µg/m <sup>3</sup>	112.0	274.0	312.0	400
8	Hg	µg/m <sup>3</sup>	BDL	BDL	BDL	NA
9	Volatile Organic Compound (VOC)	µg/m <sup>3</sup>	2.19	1.96	1.84	NA
10	Suspended Particulate Matter (PM <sub>10</sub> )	µg/m <sup>3</sup>	92.0	98.0	89.0	100
11	Respiratory Particulate Matter (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	49.0	41.0	53.0	60
12	Nickel (as Ni)	ng/m <sup>3</sup>	8.4	6.2	4.6	20
13	Arsenic (as As)	ng/m <sup>3</sup>	<1.0	<1.0	<1.0	6.0

Comments: the results relates only to the parameters tested only. \*\*BDL-Below Detection Limits.; NA - Not Available

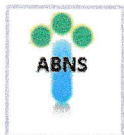
For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)

  
 30/12/2021  
 Authorized Signatory  
 (Dr. Mayur Jyoti Mahanta)

End of report

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## TEST REPORT

Report No. : ABNS/EM/123021/14	Date : 30/12/2021
<b>Name &amp; Address of the Customer:</b> <b>M/S ONGC Jorhat.</b> I/C Instrumentation, 216, Dhansiri Bhavan, Cinnamara, ONGC Complex, Jorhat-785704 Drilling rigs of Drilling Services, A&AA Basin, Jorhat, Assam. India.	
Ref.: PO No: 5010143687, dt.22.12.2021 <b>Sample Description: STACK EMISSION(DG)</b> <b>DG Details: DG-1,2,3,4; 1430.0KVA each</b> Locations: Drilling Rig E1400-24 (#TJAA),Sarupathar	Date of sampling: 24.12.2021-25.12.2021 Analysis start Date: 27.12.2021 Analysis end Date: 30.12.2021


## ANALYSIS RESULT

S/N	Parameters	Units	Generators				Limits
			DG-1	DG-2	DG-3	DG-4	
<b>RESULTS</b>							
1	SO <sub>2</sub>	ppm	7.2	8.5	10.2	6.8	NA
2	NO <sub>2</sub>	ppm	73	59	78	92	300
3	HC	ppm	12.8	46.2	31.8	28.0	NA
4	H <sub>2</sub> S	ppm	BDL	BDL	BDL	BDL	NA
5	Volatile Organic Compound (VOC)	ppm	1.60	1.22	1.21	0.91	NA
6	Particulate Matter	mg/Nm <sup>3</sup>	16.0	14.0	27.0	21.0	100
7	Flue Gas Flow	scm/day	248.0	246.0	212.0	238.0	NA

**Note:** The results relates only to the parameters tested only. \*\*BDL-Below Detection Limits.; NA - Not Available

For ABNS Scientific Services,

Report reviewed By: Dr. Bidyut J Sarmah (TM)

  
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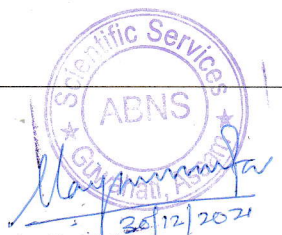
<b>Report No. : ABNS/EM/123021/15</b>	<b>Date : 30/12/2021</b>
<b>Name &amp; Address of the Customer:</b> M/S ONGC Jorhat. I/C Instrumentation, 216, Dhansiri Bhavan, Cinnamara, ONGC Complex, Jorhat-785704 Drilling rigs of Drilling Services, A&AA Basin, Jorhat, Assam. India.	
<i>Ref.: PO No: 5010143687, dt.22.12.2021</i>	Date of sampling: 24.12.2021-25.12.2021
<b>Sample Description: Noise Level</b> Locations: Drilling Rig E1400-24 (#TJAA), Sarupathar	

## ANALYSIS RESULT

S/N	Location	SPL (dB)			
		Front Side	Back Side	Inside	Outside
	<b>Generator: 1430.0KVA DG Set (each)</b>				
1	DG-1	89.2	89.4	95.4	86.1
2	DG-2	88.1	79.7	97.3	86.7
3	DG-3	84.3	77.9	93.6	79.8
4	DG-4	82.7	78.5	92.1	83.9
<b>In the Premises</b>					
1	Near Draw Works Area	73.7			
2	Near Mud Pump Area	71.9			
3	Near Air Compressor Area	69.5			
<b>Ambient Noise Standards:</b>					
	<b>Area Code</b>	<b>Category of Area</b>	<b>Limit in dB(A) Leq</b>		
			Day time	Night time	
	A.	Industrial area	75	70	
	B.	Commercial area	65	55	
	C.	Residential area	55	45	
	D.	Silence Zone	50	40	

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