

Environmental Quality Monitoring
at
Hollong Modular Gas Processing Plant (HMGPP),
EXPRO NORTH SEA LIMITED
Agbandha Village in Margherita

Sep'2024

Sampling & Analysis Done By:
M/s GREEN TECH ENVIRONMENTAL ENGINEER &
CONSULTANTS
GUWAHATI, ASSAM-781028



Water Sampling
AREA 80 (API Open Drain Pit Outlet)



গ্ৰীনটেক এনভাইৰনমেন্টেল ইঞ্জিনিয়াৰ এণ্ড কন্সালটেন্টছ GREEN TECH ENVIRONMENTAL ENGINEER & CONSULTANTS




House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentecheec.in
Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentecheec.in



TC-14361

Format No.: GEEC/FM/50

TEST REPORT

ULR Number: TC14361240000123F						
Ref. No.:	GEEC/FL/23/2024/09/17	Date:	23/09/2024			
Customer Name:	EXPRO North Sea Ltd.	Lab. ID No.:	GEEC/WS/2024/09/17			
Customer Address:	EXPRO North Sea Limited. HMGPP, Agbandha	Date of Sampling:	15/09/2024			
Sampling Location:	Monitoring & Sampling at HMGPP Area 80 API Open Drain Pit Outlet	Sample Receipt Date:	16/09/2024			
Sample Description:	Waste Water	Test Start Date:	16/09/2024			
Sample Drawn By:	Mr.Dilip Kr. Deka	Test Completion Date:	21/09/2024			
Sample Condition:	Sealed	Sampling Method :	GEEC/SOP/2			
Sl. NO.	PARAMETERS	PROTOCOL	UNITS	RESULTS	LIMIT Environment (Protection) Rules,1986	
1	Suspended Solids	IS 3025 Part 17 1984 (RA:2017)	mg/l	16	100	
2	BOD (3 days @ 27°C)	IS 3025 Part 44 1993 (RA:2019)	mg/l	12	30	
3	COD	IS 3025 Part 58 2006 (RA:2017)	mg/l	34	100	
4	Chlorides	IS 3025 Part 32 1988 (RA:2019)	mg/l	7.0	600	
5	Total Dissolved Solids	IS 3025 Part 16 1984 (RA:2017)	mg/l	112	2100	
6	Sulphate	IS 3025 Part 24 1986 (RA:2019)	mg/l	17.0	1000	
7	Zinc	IS 3025 Part 49 1994 (RA:2019)	mg/l	< 0.1	2	
8	Oil & Grease	IS 3025 Part 39 2021	mg/l	5.2	10	
9	Phenols	APHA 23 rd Edition, 2021	mg/l	< 0.1	1.2	
10	Fluorides	IS 3025 Part 60 2008 (RA:2019)	mg/l	< 0.5	1.5	
11	Chromium (Total)	IS 3025 Part 52 2003 (RA:2019)	mg/l	< 0.1	1.0	
12	Copper	IS 3025 Part 42 1992 (RA:2019)	mg/l	< 0.1	0.2	
13	Lead	IS 3025 Part 47 1994 (RA:2019)	mg/l	< 0.1	0.1	
14	pH measurement	IS 3025 Part 11 2022	--	6.93	5.5- 9.0	
Checked by:  Dr. Belinda Lahon Quality Manager						Reviewed by:  Pranjal Buragohain Authorised Signatory

*****End of Report*****

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Format No.: GEEC/FM/50

TEST REPORT

Ref. No.:	GEEC/FL/23/2024/09/17	Date:	23/09/2024
Customer Name:	EXPRO North Sea Ltd.	Lab. ID No.:	GEEC/WS/2024/09/17
Customer Address:	EXPRO North Sea Limited. HMGPP, Agbandha	Date of Sampling:	15/09/2024
Sampling Location:	Monitoring & Sampling at HMGPP Area 80 API Open Drain Pit Outlet	Sample Receipt Date:	16/09/2024
Sample Description:	Waste Water	Test Start Date:	16/09/2024
Sample Drawn By:	Mr.Dilip Kr. Deka	Test Completion Date:	21/09/2024
Sample Condition:	Sealed	Sampling Method :	GEEC/SOP/2

Sl. NO.	PARAMETERS	PROTOCOL	UNITS	RESULTS	LIMIT Environment (Protection) Rules,1986
1	% Sodium	APHA 23 rd Edition, 2017	mg/l	< 2	60
2	Cyanides	APHA 23 rd Edition, 2017	mg/l	< 0.1	0.2
3	Sulphides	APHA 23 rd Edition, 2017	mg/l	< 0.1	2.0
4	Chromium (Cr ⁺⁶)	IS 3025 Part 52 2003 (RA:2019)	mg/l	< 0.1	1.0
5	Mercury	IS 3025 Part 48 1994 (RA:2019)	mg/l	< 0.01	0.01
6	Nickel	APHA 23 rd Edition, 2017	mg/l	< 0.5	3.0
7	Temperature	-----	°C	33.1	40
8	Salinity as NaCl	Chloride to salinity	ppm	11	-

*****End of Report*****

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager



Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory

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Ambient Air Quality Monitoring
Near Security Main Gate



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TC-14361

Format No.: GEEC/FM/48

TEST REPORT

ULR Number: TC143612400000115F				
Test Report No.:	GEEC/FL/22/2024/09/08	Date:	28/09/2024	
Customer Name & Address:	EXPRO North Sea Ltd. HMGPP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/08	
		Date of Sampling:	14/09/2024	
Sampling Location:	HMGPP, Near Security Main Gate	Ambient Temperature:	Max.	Min.
Weather Condition:	Cloudy		35.5°C	25.2°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr.Dilip Kr.Deka	Test Start Date:	16/09/2024	
Equipments Details:	RDS & PM Sampler	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	48	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	20	60	GEEC/SOP/01 USEPA FRM 40CFR
3	Sulphur Dioxide (SO ₂)	µg/m ³	< 25	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	12	80	IS 5182(6)
5	Lead (Pb)	µg/m ³	< 0.1	1	IS 5182(22)

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager



Reviewed by:

Pranjai Buragohain

Pranjai Buragohain
Authorised Signatory

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Format No.: GEEC/FM/48

TEST REPORT

Test Report No.:	GEEC/FL/22/2024/09/08	Date:	28/09/2024	
Customer Name & Address:	EXPRO North Sea Ltd. HMGPP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/08	
		Date of Sampling:	14/09/2024	
Sampling Location:	HMGPP, Near Security Main Gate	Ambient Temperature:	Max.	Min.
Weather Condition:	Cloudy		35.5°C	25.2°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr.Dilip Kr.Deka	Test Start Date:	16/09/2024	
Equipments Details:	RDS & PM Sampler	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Carbon Monoxide (CO)	mg/m ³	< 1.15	2	GASTEC TUBES
2	Ozone (O ₃)	µg/m ³	40	180	CPCB Guidelines
3	Benzene (C ₆ H ₆)	µg/m ³	< 1	5	CPCB Guidelines
4	Benzo(a)Pyrene (BaP)- Particulate Phase only	µg/m ³	< 1	1	CPCB Guidelines
5	Arsenic (As)	ng/m ³	< 1	6	CPCB Guidelines
6	Nickel (Ni)	ng/m ³	< 1	20	CPCB Guidelines
7	Ammonia (NH ₃)	µg/m ³	< 1	400	CPCB Guidelines

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager

Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory

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Ambient Air Quality Monitoring
AREA 10
(Near Foam and Water Hydrant Box)



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Format No.: GEEC/FM/48

TEST REPORT

Test Report No.:	GEEC/FL/22/2024/09/06	Date:	28/09/2024	
Customer Name & Address:	EXPRO North Sea Ltd. HMGPP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/06	
		Date of Sampling:	14/09/2024	
Sampling Location:	HMGPP, AREA 10 (Foam and Water Hydrant Box)	Ambient Temperature:	Max.	Min.
Weather Condition:	Cloudy		35.5°C	25.2°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr. Dilip Kr. Deka	Test Start Date:	16/09/2024	
Equipments Details:	RDS & PM Sampler	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	38	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	21	60	GEEC/SOP/01 USEPA FRM 40 CFR
3	Sulphur Dioxide (SO ₂)	µg/m ³	< 25	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	12	80	IS 5182(6)
5	Lead (Pb)	µg/m ³	< 0.1	1	IS 5182(22)

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager



Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory

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Format No.: GEEC/FM/48

TEST REPORT

Test Report No.:	GEEC/FL/22/2024/09/06	Date:	28/09/2024	
Customer Name & Address:	EXPRO North Sea Ltd. HMGP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/06	
		Date of Sampling:	14/09/2024	
Sampling Location:	HMGP, AREA 10 (Foam and Water Hydrant Box)	Ambient Temperature:	Max.	Min.
Weather Condition:	Cloudy		35.5°C	25.2°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr. Dilip Kr. Deka	Test Start Date:	16/09/2024	
Equipments Details:	SIDEKICK- 51 MTX Sr. No: 16536770	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

SI. No.	Parameters	Unit	Results	Limits	Test Method
1	Carbon Monoxide (CO)	mg/m ³	< 1.15	2	GASTEC TUBES
2	Ozone (O ₃)	µg/m ³	30	180	CPCB Guidelines
3	Benzene (C ₆ H ₆)	µg/m ³	< 1	5	CPCB Guidelines
4	Benzo(a)Pyrene (BaP)- Particulate Phase only	µg/m ³	< 1	1	CPCB Guidelines
5	Arsenic (As)	ng/m ³	< 1	6	CPCB Guidelines
6	Nickel (Ni)	ng/m ³	< 1	20	CPCB Guidelines
7	Ammonia (NH ₃)	µg/m ³	< 1	400	CPCB Guidelines

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager



Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory

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Ambient Air Quality Monitoring
HMGPP, AREA 60
(Near Fire Extinguisher Cabinet)



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Format No.: GEEC/FM/48

TEST REPORT

Test Report No.:	GEEC/FL/22/2024/09/07	Date:	28/09/2024	
Customer Name & Address:	EXPRO North Sea Ltd. HMGPP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/07	
		Date of Sampling:	14/09/2024	
Sampling Location:	HMGPP, AREA 60 (Near Fire Extinguisher Cabinet)	Ambient Temperature:	Max.	Min.
Weather Condition:			Cloudy	35.5°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr. Dilip Kr. Deka	Test Start Date:	16/09/2024	
Equipments Details:	SIDEKICK- 51 MTX Sr. No: 16536770	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	40	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	18	60	GEEC/SOP/01 USEPA FRM 40CFR
3	Sulphur Dioxide (SO ₂)	µg/m ³	< 25	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	15	80	IS 5182(6)
5	Lead (Pb)	µg/m ³	< 0.1	1	IS 5182(22)

Checked by:

Dr. Belinda Lahon
Quality Manager

Reviewed by:

Pranjal Buragohain
Authorised Signatory



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Format No.: GEEC/FM/48

TEST REPORT

Test Report No.:	GEEC/FL/22/2024/09/07	Date:	28/09/2024	
Customer Name & Address:	EXPRO North Sea Ltd. HMGPP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/07	
		Date of Sampling:	14/09/2024	
Sampling Location:	HMGPP, AREA 60 (Near Fire Extinguisher Cabinet)	Ambient Temperature:	Max.	Min.
Weather Condition:	Cloudy		35.5°C	25.2°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr. Dilip Kr. Deka	Test Start Date:	16/09/2024	
Equipments Details:	SIDEKICK- 51 MTX Sr. No: 16536770	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Carbon Monoxide (CO)	mg/m ³	< 1.15	2	GASTEC TUBES
2	Ozone (O ₃)	µg/m ³	20	180	CPCB Guidelines
3	Benzene (C ₆ H ₆)	µg/m ³	< 1	5	CPCB Guidelines
4	Benzo(a)Pyrene (BaP)- Particulate Phase only	µg/m ³	< 1	1	CPCB Guidelines
5	Arsenic (As)	ng/m ³	< 1	6	CPCB Guidelines
6	Nickel (Ni)	ng/m ³	< 1	20	CPCB Guidelines
7	Ammonia (NH ₃)	µg/m ³	< 1	400	CPCB Guidelines

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager

Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory

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Ambient Air Quality Monitoring
AREA 40
(Water Hydrant Box)



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TEST REPORT

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Customer Name & Address:	EXPRO North Sea Ltd. HMGPP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/09	
		Date of Sampling:	15/09/2024	
Sampling Location:	HMGPP, AREA 40 (Fire Water Hydrant Box)	Ambient Temperature:	Max.	Min.
Weather Condition:	Partially Cloudy		37.1°C	25.7°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr.Dilip Kr.Deka	Test Start Date:	16/09/2024	
Equipments Details:	SIDEKICK- 51 MTX Sr. No: 16536770	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

SI. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	37	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	22	60	GEEC/SOP/01 USEPA FRM 40CFR
3	Sulphur Dioxide (SO ₂)	µg/m ³	< 25	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	14	80	IS 5182(6)
5	Lead (Pb)	µg/m ³	< 0.1	1	IS 5182(22)

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager

Reviewed by:

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		Date of Sampling:	15/09/2024	
Sampling Location:	HMGPP, AREA 40 (Fire Water Hydrant Box)	Ambient Temperature:	Max.	Min.
Weather Condition:	Partially Cloudy		37.1°C	25.7°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr. Dilip Kr. Deka	Test Start Date:	16/09/2024	
Equipments Details:	SIDEKICK- 51 MTX Sr. No: 16536770	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
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2	Ozone (O ₃)	µg/m ³	20	180	CPCB Guidelines
3	Benzene (C ₆ H ₆)	µg/m ³	< 1	5	CPCB Guidelines
4	Benzo(a)Pyrene (BaP)- Particulate Phase only	µg/m ³	< 1	1	CPCB Guidelines
5	Arsenic (As)	ng/m ³	< 1	6	CPCB Guidelines
6	Nickel (Ni)	ng/m ³	< 1	20	CPCB Guidelines
7	Ammonia (NH ₃)	µg/m ³	< 1	400	CPCB Guidelines

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager

Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory

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Page 1 of 1

***** End of Report *****



Ambient Air Quality Monitoring
AREA 20
(Near Slug Catcher Fire Bucket Stand)



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House No-11, Champaknagar, Narayan Path, Bhetapara, Guwahati-781028, www.greentecheec.in
Telefax -0361 3501950 Mobile: 9435046677, 9954089052, E-mail: green_pranjal@hotmail.com, info@greentecheec.in

Format No.: GEEC/FM/48

TEST REPORT

Test Report No.:	GEEC/FL/22/2024/09/10	Date:	28/09/2024	
Customer Name & Address:	EXPRO North Sea Ltd. HMGPP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/10	
		Date of Sampling:	15/09/2024	
Sampling Location:	HMGPP, AREA 20 (Near Slug Catcher)	Ambient Temperature:	Max.	Min.
Weather Condition:	Partially Cloudy		37.1°C	25.7°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr.Dilip Kr.Deka	Test Start Date:	16/09/2024	
Equipments Details:	SIDEKICK- 51 MTX Sr. No: 16536770	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

SI. No.	Parameters	Unit	Results	Limits	Test Method
1	Particulate Matter (PM ₁₀)	µg/m ³	36	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	µg/m ³	17	60	GEEC/SOP/01 USEPA FRM 40CFR
3	Sulphur Dioxide (SO ₂)	µg/m ³	< 25	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	µg/m ³	15	80	IS 5182(6)
5	Lead (Pb)	µg/m ³	< 0.1	1	IS 5182(22)

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager

Reviewed by:

Pranjal Buragohain

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Authorised Signatory



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Format No.: GEEC/FM/48

TEST REPORT

Test Report No.:	GEEC/FL/22/2024/09/10	Date:	28/09/2024	
Customer Name & Address:	EXPRO North Sea Ltd. HMGPP, Agbandha	Lab. ID No.:	GEEC/AA/2024/09/10	
		Date of Sampling:	15/09/2024	
Sampling Location:	HMGPP, AREA 20 (Near Slug Catcher)	Ambient Temperature:	Max.	Min.
Weather Condition:	Partially Cloudy		37.1°C	25.7°C
Sampling Condition:	In GF/A, PTFE Filter Paper & Plastic Bottle	Date of Sample Receipt:	16/09/2024	
Monitored By:	Mr. Dilip Kr. Deka	Test Start Date:	16/09/2024	
Equipments Details:	SIDEKICK- 51 MTX Sr. No: 16536770	Test End Date:	18/09/2024	

AMBIENT AIR QUALITY

Sampling and Analysis carried out as per GEEC/SOP/01

Sl. No.	Parameters	Unit	Results	Limits	Test Method
1	Carbon Monoxide (CO)	mg/m ³	< 1.15	2	GASTEC TUBES
2	Ozone (O ₃)	µg/m ³	35	180	CPCB Guidelines
3	Benzene (C ₆ H ₆)	µg/m ³	< 1	5	CPCB Guidelines
4	Benzo(a)Pyrene (BaP)- Particulate Phase only	µg/m ³	< 1	1	CPCB Guidelines
5	Arsenic (As)	ng/m ³	< 1	6	CPCB Guidelines
6	Nickel (Ni)	ng/m ³	< 1	20	CPCB Guidelines
7	Ammonia (NH ₃)	µg/m ³	< 1	400	CPCB Guidelines

Checked by:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager



Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory

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*****End of Report*****



Flue Gas Monitoring
Fire Engine No-1(A)
Sl. No.: CD 6068B128796



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GEEC/FM/49

TEST REPORT

Report No:GEEC/FL/22/STK/2024/09/03	Date:	29/09/2024
Industry Name :	EXPRO NORTH SEA LIMITED	Lab ID
Address:	C/O HOEC HMGPP, Village : Agbondha Post Office : Margherita, District: Tinsukia, State : Assam	Date of Sampling:
		Date of Receipt:
		Test Start Date:
		Test End Date:

Stack Details Data Provided By The Client

Stack Details	Fire Engine No-1(A) Sl.No.: CD 6068B128796 Location: HMGPP, Agbandha	Fuel Used:	HSD
		Raw Material :	-
Stack Height (m)	3.7	Sample Porthole height (GL)	-
Stack Diameter (m)	0.1	Area in m ²	0.008

Environmental Condition During Sampling (Ambient Temperature)

39.6°C

Flow Characteristics of Flue Gas (At Site)

Sl. No.	Parameter	Unit	Results	Test Method
1	Velocity	m/s	4.7	IS 11255 Part 3-SEC 2
2	Stack Temperature	°C	384.1	----
3	Flow Rate	m ³ /s	0.037	----

Sampling Result of Flue Gas (At Site)

Sl. No.	Parameter	Unit	Results	Emission Limit	Test Method
1	Carbon Monoxides , CO	%	0.01	1% max (VV)	GEEC/SOP/01/STK/CO
2	Carbon Dioxide CO ₂	%	9.0	-	IS 13270
3	Oxygen, O ₂	%	10.0	-	IS 13270
4	Sulphur Dioxide, (SO ₂)	ppm	< 1	-	GEEC/SOP/01/STK/SO ₂
5	Oxides of Nitrogen, (as NO ₂)	ppm	601	-	GEEC/SOP/01/STK/NO ₂

Sampling Result of Flue Gas (At Laboratory)

Sl. No.	Parameter	Unit	Results	Emission Limit	Test Method
1	Particulate Matter	ppm	7	150	IS 11255 Part-1

Model & Make

Sl. No.	Type of Instrument	Model & Make
1	Stack Gas Analyzer	Testo 340 and Stack Monitoring Kit: SMS-4

Monitored by: Mr. Dilip Deka

Remarks: The Environment (Protection) Rules, 1986 [SCHEDULE – VI] (See rule 3A)
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS

Checked & Reviewed By:

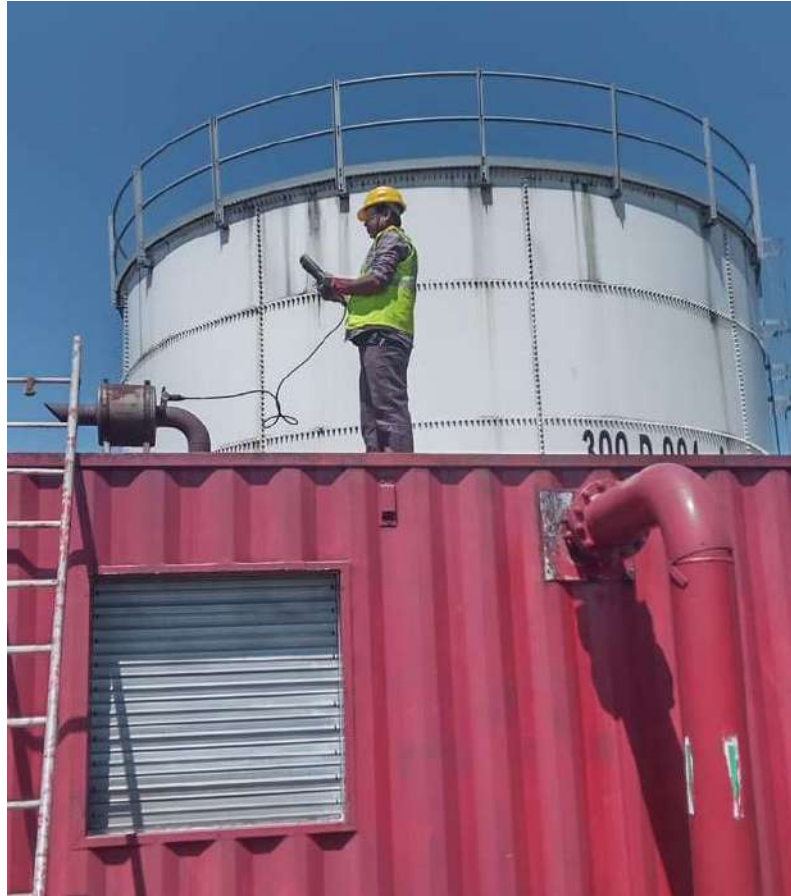
Belinda Lahon
Dr. Belinda Lahon
Quality Manager

Authorised by:

Pranjal Buragohain
Pranjal Buragohain
Authorised Signatory

***** End of report *****

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Flue Gas Monitoring
Fire Engine No-2(B)
Sl. No.: CD 6068B128481



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GEEC/FM/49

TEST REPORT

Report No:GEEC/FL/22/STK/2024/09/04	Date:	29/09/2024
Industry Name :	EXPRO NORTH SEA LIMITED	Lab ID
Address: C/O HOEC HMGPP, Village : Agbondha Post Office : Margherita, District: Tinsukia, State : Assam	Date of Sampling:	15/09/2024
	Date of Receipt:	16/09/2024
	Test Start Date:	16/09/2024
	Test End Date:	17/09/2024

Stack Details Data Provided By The Client

Stack Details	Fire Engine No-2(B) SI.No.: CD 6068B128481 Location: HMGPP, Agbandha.	Fuel Used:	HSD
		Raw Material :	-
Stack Height (m)	3.7	Sample Porthole height (GL)	-
Stack Diameter (m)	0.1	Area in m ²	0.008

Environmental Condition During Sampling (Ambient Temperature)

39.9°C

Flow Characteristics of Flue Gas (At Site)

Sl. No.	Parameter	Unit	Results	Test Method
1	Velocity	m/s	5.7	IS 11255 Part 3-SEC 2
2	Stack Temperature	°C	423.0	----
3	Flow Rate	m ³ /s	0.045	----

Sampling Result of Flue Gas (At Site)

Sl. No.	Parameter	Unit	Results	Emission Limit	Test Method
1	Carbon Monoxides , CO	%	0.01	1% max (V/V)	GEEC/SOP/01/STK/CO
2	Carbon Dioxide CO ₂	%	8.6	-	IS 13270
3	Oxygen, O ₂	%	9.4	-	IS 13270
4	Sulphur Dioxide, (SO ₂)	ppm	< 1	-	GEEC/SOP/01/STK/SO ₂
5	Oxides of Nitrogen, (as NO ₂)	ppm	701	-	GEEC/SOP/01/STK/NO ₂

Sampling Result of Flue Gas (At Laboratory)

Sl. No.	Parameter	Unit	Results	Emission Limit	Test Method
1	Particulate Matter	ppm	6	150	IS 11255 Part-1

Sl. No.	Type of Instrument	Model & Make
1	Stack Gas Analyzer	Testo 340 and Stack Monitoring Kit: SMS-4

Monitored by: Mr. Dilip Deka

Remarks: The Environment (Protection) Rules, 1986 [SCHEDULE – VI] (See rule 3A)
GENERAL STANDARDS FOR DISCHARGE OF ENVIRONMENTAL POLLUTANTS

Checked & Reviewed By:

Belinda Lahon
Dr. Belinda Lahon
Quality Manager

Authorised by:

Pranjal Buragohain
Pranjal Buragohain
Authorised Signatory

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End of report



Flue Gas Monitoring
GG # A
Sl. No.: GZC-00229



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TEST REPORT

GEEC/FM/49A

Report No:GEEC/FL/22/STK/2024/09/02		Date:	28/09/2024		
Name of the Industry:	EXPRO NORTH SEA LIMITED	Lab ID	GEEC/STK/2024/09/02		
Address	C/O HOEC HMGPP, Village : Agbondha Post Office : Margherita, District: Tinsukia, State	Date of Sampling:	15/09/2024		
		Date of Receipt:	16/09/2024		
		Test Start Date:	16/09/2024		
		Test End Date:	17/09/2024		
Stack Details Data provided by the Client					
Stack Details:	GG#A SI.No.:GZC-00229 Location: HMGPP, Agbandha.	Fuel Used:	N.G.		
Stack Height, m (Approx.)	25	Stack Dia, m (Approx.)	0.30		
Sample Porthole height (GL) m	3.5	Area in m ²	0.071		
Environmental Condition During Sampling (Ambient Temperature)			37.2°C		
Flow Characteristics of Flue Gas (At Site)					
Sl. No.	Parameter	Unit	Results	Test Method	
1	Velocity	m/s	7.4	IS 11255 Part 3-SEC 2	
2	Stack Temperature	°C	483.9	----	
3	Flow Rate	m ³ /s	0.523	----	
Sampling Result of Flue Gas (At Site)					
Sl. No.	Parameter	Unit	Results	Emission Limit	Test Method
1	Carbon Monoxide (CO)	ppm	121	-	GEEC/SOP/01/STK/CO
2	Sulphur Dioxide, (SO ₂)	ppm	< 1	-	GEEC/SOP/01/STK/SO2
3	Oxides of Nitrogen, (as NO ₂)	ppm	31	100	GEEC/SOP/01/STK/NO2
4	Carbon Dioxide, (CO ₂)	%	8.4	-	GEEC/SOP/01STK/CO2
5	Oxygen, (O ₂)	%	9.6	-	IS 13270
Sampling Result of Flue Gas (At Laboratory)					
Sl. No.	Parameter	Unit	Results	Emission Limit	Test Method
1	Particulate Matter	mg/Nm ³	5	-	IS 11255 Part-1
Sl. No.	Type of Instrument & Model No	Model & Make			
1	Stack Gas Analyzer Stack Monitoring Kit and	Polltech Pvt. Ltd SMS-4 and Testo Instrument Pvt. Ltd. Testo-340			
Checked by: Dr. Belinda Lahon Quality Manager			Reviewed by: Pranjal Buragohain Authorised Signatory		

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* Deviation: Sample was taken directly from the exhaust

***** End of report *****



Flue Gas Monitoring
DG Set - 650 KVA,
Sl. No. CJGS17092099



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GEEC/EM/49

TEST REPORT

Report No:GEEC/FL/22/STK/2024/09/05		Date:	29/09/2024		
Industry Name :	EXPRO NORTH SEA LIMITED	Lab ID	GEEC/STK/2024/09/05		
Address:	C/O HOEC HMGPP, Village : Agbondha Post Office : Margherita, District: Tinsukia, State : Assam	Date of Sampling:	15/09/2024		
		Date of Receipt:	16/09/2024		
		Test Start Date:	16/09/2024		
		Test End Date:	17/09/2024		
Stack Details Data Provided By The Client					
Stack Details	DG Set - 650 KVA, SI.No.CJGS17092099 Location: Area 10 HMGPP, Agbandha. Make:Jackson Ltd.	Fuel Used:	HSD		
		Raw Material :	-		
Stack Height (m)	25.0	Sample Porthole height (GL)	10.00		
Stack Diameter (m)	0.1	Area in m ²	0.008		
Environmental Condition During Sampling (Ambient Temperature)					33.6°C
Flow Characteristics of Flue Gas (At Site)					
Sl. No.	Parameter	Unit	Results	Test Method	
1	Velocity	m/s	6.1	IS 11255 Part 3-SEC 2	
2	Stack Temperature	°C	132.7	---	
3	Flow Rate	m ³ /s	0.048	---	
Sampling Result of Flue Gas (At Site)					
Sl. No.	Parameter	Unit	Results	Emission Limit	Test Method
1	Carbon Monoxides , CO	g/kw-hr	0.28	≤ 3.5	GEEC/SOP/01/STK/CO
2	Carbon Dioxide CO ₂	%	6.6	-	IS 13270
3	Oxygen, O ₂	%	9.4	-	IS 13270
4	Sulphur Dioxide, (SO ₂)	ppm	< 1		
5	Oxides of Nitrogen, (as NO ₂)	ppm	290		
Sampling Result of Flue Gas (At Laboratory)					
Sl. No.	Parameter	Unit	Results	Emission Limit	Test Method
1	Particulate Matter	g/kw-hr	0.02	≤ 0.2	IS 11255 Part-1
Sl. No.	Type of Instrument	Model & Make			
1	Stack Gas Analyzer	Testo 340, Orsat Apparatus & Stack Monitoring Kit: SMS-4			
Monitored by:	Mr. Dilip Deka				
Remarks:	The Emission Limits for new diesel engines (upto 800 KW) for Generator Sets (GENSETS) were notified by the Environment (Protection) Amendment Rules 2002 vide GSR 371(E), dated 17th May 2002 at Sl. No. 95 and as amended vide GSR 520(E), dated 1st July 2003, GSR 448 (E) dated 12th July, 2004, GSR 520(E) dated 12th August 2004 and GSR 280(E) dated 11th April, 2008 under Environment (Protection) Act, 1986				
Checked & Reviewed By:				Authorised by:	
Dr. Belinda Lahon Quality Manager				Pranjal Buragohain Authorised Signatory	

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***** End of report *****



NOISE MONITORING REPORT
HMGPP



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TC-14361

TEST REPORT

Format No:GEEC/FM/47A

ULR Number: TC599124000000122F			
Report No:GEEC/FL/22/SLM/2024/09/05		Date:	28/09/2024
Name of the Industry	EXPRO NORTH SEA LIMITED	Lab Id.:	GEEC/NLM/2024/09/05
Address	C/O HOEC HMGPP, Village: Agbandha Post Office: Margherita District: Tinsukia State: Assam		

Noise Level Report

Monitoring Location:	Hollong Modular Gas Processing Plant, Agbandha	Date of Monitoring:	14/09/2024
Weather/Wind:	Partly Cloudy	Sound Level Meter :	SL-4023SD
Monitored By:	Mr.Dilip Kr. Deka	Sl.No. :	Q656054

Measurement Results

Sl. No.	Location	Time	Unit	Sound Parameters			Method	CPCB Limit as per THE NOISE POLLUTION (REGULATION AND CONTROL) RULES, 2000 Leq (dBA)
				Leq	Lmin	Lmax		
1	Area-20 (Near Slug Catcher)	Day	dB(A)	69.8	62.3	71.6	Ambient Noise GEEC/SOP/AN/01 Issue date 27/05/2017	< 75
2	AREA - 70 (Bath Heater)	Day	dB(A)	68.5	62.8	72.4		
3	Area - 40 (Near GG Area)	Day	dB(A)	66.8	62.4	70.2		
4	Area-40 (Expro Office)	Day	dB(A)	57.6	55.6	68.2		

Remark: Noise level CPCB Limit Leq < 75 dBA Leq

Checked by

Belinda Lahon

Dr. Belinda Lahon
Quality Manager



Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory

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WEATHER MONITORING
Area 40 (Above Ware House 01)



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TEST REPORT

Report No:	GEEC/MISC/MDA/2024/09/02	Date:	28/09/2024
Name of the Industry:	EXPRO NORTH SEA LTD	Lab ID:	GEEC/MISC/MDA/2024/09/02
Address:	C/O HOEC HMGPP, Village: Agbandha Post Office: Margherita, District:Tinsukia, Assam	Date of Sampling:	14/09/2024 to 15/09/2024
		Time of Sampling:	24 Hrs

WEATHER MONITORING REPORT

Location:	Area 40 (Above Ware House 01)		Monitored By:	Mr.Dilip Kr. Deka	
Ambient Temperature, °C	Max	Min	Humidity in %	Max	Min
	35.5	25.2		98	36
Barometric Pressure in hpa	Max	Min	Dew Point in °C	Max	Min
	986.4	982.1		29.1	22.5
Wind Speed in Kmph	Day (Max)	Night (Max)	Wind Direction	13 Hrs	20 Hrs
	5.4	0.0		SW	ENE
Sl. No.	Type of Instrument			Model No.	
1	Logia 7-in-1			B08M598J5B (PRB08M598J5B)	

Checked By:

Belinda Lahon

Dr. Belinda Lahon
Quality Manager

Reviewed by:

Pranjal Buragohain

Pranjal Buragohain
Authorised Signatory



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