

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1525D/26/01

Reporting Date : 08/08/2024

HINDUSTAN OIL EXPLORATION COMPANY

Site: Palej Production Facility (PPF), Village: Makan , Palej. Dist : Vadodara



SAMPLE DETAILS

Lab ID:	Lab/PN/1525D/26/01	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Water	Analysis Start Date:	01/08/2024
Sample Description:	Borewell Water (G.W)	Analysis End Date:	07/08/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	168.0	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	70.54	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chemical Oxygen Demand (COD)	BQL (QL=5)	mg/L	APHA 23rd Edn 5220 B	NS	NS
4	Chloride	64.98	mg/L	IS 3025- Part 32	250	1000
5	Magnesium as Mg	15.80	mg/L	APHA 23rd Edn 3500 Mg B	30	100
6	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
7	Sulphate	41.19	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
8	Total Dissolved Solids (TDS)	396.00	mg/L	APHA 23rd Edn 2540 C	500	2000
9	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
10	Potassium	2.9	mg/L	GGMPL/SOP/W & WW/46	NS	NS
11	Sodium	24.7	mg/L	GGMPL/SOP/W & WW/46	NS	NS

NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

Aarmi Patel

Analyzed By
Aarmi Patel



--- End of Report ---

Tantan Kumar

Authorized Signatory
Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1525D/26/02

Reporting Date: 08/08/2024

HINDUSTAN OIL EXPLORATION COMPANY

Site: Palej Production Facility (PPF), Village: Makan , Palej. Dist : Vadodara



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1525D/26/02	Sampling Start Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	31/07/2024
Sample Description:	Nr. Store Area	Analysis start- End Date:	01/08/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMP/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.24	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.96	µg/m3	IS 5182- Part 6	80

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Reporting Date: 08/08/2024

HINDUSTAN OIL EXPLORATION COMPANY

Site: Palej Production Facility (PPF), Village: Makan , Palej. Dist : Vadodara



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1525D/26/03	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Stack	Analysis start- End Date:	01/08/2024-07/08/2024
Stack Height & Dia (m):	5 & 0.2	Stack Temperature (°C):	108.5
Stack Attached To:	Gas Generator	Stack gas velocity (m/sec):	8.91
Fuel Used:	Natural Gas	Volume of Air Sampled in NM3:	1.5574

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	9.40	ppm	IS 11255- Part 7	50
2	Particulate Matter	5.78	mg/Nm ³	IS 11255- Part 1	150
3	Sulphur Dioxides	2.71	ppm	IS 11255- Part 2	100

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1525D/26/04

Reporting Date: 08/08/2024

HINDUSTAN OIL EXPLORATION COMPANY

Site: Palej Production Facility (PPF), Village: Makan, Palej. Dist : Vadodara



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1525D/26/04	Sampling Date:	30/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/07/2024
Sample Type:	Stack	Analysis start- End Date:	01/08/2024-07/08/2024
Stack Height & Dia (m):	6 & 0.2	Stack Temperature (°C):	125
Stack Attached To:	Bath Heater	Stack gas velocity (m/sec):	6.82
Fuel Used:	Natural Gas	Volume of Air Sampled in NM3:	1.1136

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	14.06	ppm	IS 11255- Part 7	50
2	Particulate Matter	7.45	mg/Nm ³	IS 11255- Part 1	150
3	Sulphur Dioxides	BQL (QL=1.91)	ppm	IS 11255- Part 2	100

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HINDUSTAN OIL EXPLORATION COMPANY

Site: Palej Production Facility (PPF), Village: Makan, Palej. Dist : Vadodara



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 30/07/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1525D/2 6/05A	MCC Room	Day Time	dB(A)Leq	IS 4758	59.2	-
2	Lab/PN/1525D/2 6/05B	Gas Generator Room	Day Time	dB(A)Leq	IS 4758	63.6	-
3	Lab/PN/1525D/2 6/05C	Bath Heater	Day Time	dB(A)Leq	IS 4758	64.7	-
4	Lab/PN/1525D/2 6/05D	Process Area	Day Time	dB(A)Leq	IS 4758	61.9	-
5	Lab/PN/1525D/2 6/05E	45M3 Area	Day Time	dB(A)Leq	IS 4758	58.3	-
6	Lab/PN/1525D/2 6/05F	FFG Area	Day Time	dB(A)Leq	IS 4758	64.3	-
7	Lab/PN/1525D/2 6/05G	Boiler Area	Day Time	dB(A)Leq	IS 4758	62.3	-
8	Lab/PN/1525D/2 6/05H	Export Pump Area	Day Time	dB(A)Leq	IS 4758	57.2	-
9	Lab/PN/1525D/2 6/05I	ADM Office	Day Time	dB(A)Leq	IS 4758	55.4	-
10	Lab/PN/1525D/2 6/05J	Nr. Store Area	Day Time	dB(A)Leq	IS 4758	57.6	-

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