

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864E/62/01

HINDUSTAN OIL EXPLORATION COMPANY

Site:North Balol GCS,Village: Balol , Dist : Mehsana

Reporting Date : 07/07/2025



SAMPLE DETAILS

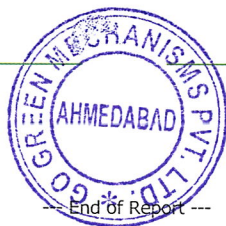
Lab ID:	Lab/PN/864E/62/01	Sampling Date:	30/06/2025
Sample Drawn By:	Bhargav Dhamecha	Sample Receipt Date:	01/07/2025
Sample Type:	Ground Water	Analysis Start Date:	02/07/2025
Sample Description:	Borewell At Plant Site	Analysis End Date:	07/07/2025
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	398.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	115.43	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chemical Oxygen Demand (COD)	12.00	mg/L	APHA 24th Edn 5220 B	NS	NS
4	Chloride	499.84	mg/L	IS 3025- Part 32	250	1000
5	Magnesium as Mg	75.57	mg/L	APHA 24th Edn 3500 Mg B	30	100
6	pH at 25 °C	7.30	-	IS 3025- Part 11	6.5-8.5	No relaxation
7	Sulphate	90.23	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
8	Total Dissolved Solids (TDS)	1422.00	mg/L	APHA 24th Edn 2540 C	500	2000
9	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edn 2540 D	NS	NS
10	Potassium	6.1	mg/L	GGMPL/SOP/W & WW/46	NS	NS
11	Sodium	232	mg/L	GGMPL/SOP/W & WW/46	NS	NS

AL & PL as per IS 10500.

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


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Page No : 1/1

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HINDUSTAN OIL EXPLORATION COMPANY

Site:North Balol GCS,Village: Balol , Dist : Mehsana



SAMPLE DETAILS

Lab ID:	Lab/PN/864E/62/02	Sampling Start Date:	30/06/2025
Sample Drawn By:	Bhargav Dhamecha	Sampling End Date:	01/07/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/07/2025
Sample Description:	Near Main Gate	Analysis start- End Date:	02/07/2025-07/07/2025
Env. Cond.-Sampling:	Temp-29°C/ Humidity-82%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.49	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	23.03	µg/m3	IS 5182- Part 6	80
4	Particulate Matter (PM10)	55.21	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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SAMPLE DETAILS

Lab ID:	Lab/PN/864E/62/03	Sampling Date:	30/06/2025
Sample Drawn By:	Bhargav Dhamecha	Sample Receipt Date:	01/07/2025
Sample Type:	Stack Emission	Analysis start- End Date:	02/07/2025-07/07/2025
Stack Height & Dia (m):	5 & 0.2	Stack Temperature (°C):	125
Stack Attached To:	Gas Generator (70 KVA)	Stack gas velocity (m/sec):	8.78
Fuel Used:	Natural Gas	Volume of Air Sampled in NM3:	1.5009

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	12.86	mg/Nm ³	IS 11255- Part 1	150
2	Sulphur Dioxides	4	ppm	GGMPL/SOP/SEA/68	100
3	Oxides of Nitrogen	16	ppm	GGMPL/SOP/SEA/68	50

Norms as per CCA.

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--- End of Report ---

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Page No : 1/1

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SAMPLE DETAILS

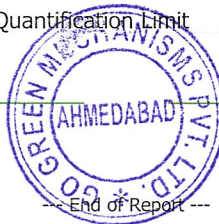
Sampling Instrument : Sound Level Meter
Sample By Bharghav Dhamecha

Sampling Date: 30/06/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/864E/62/04A	Nr Main Gate	Day Time	dB(A)Leq	IS 4758	57.2	-
2	Lab/PN/864E/62/04B	ADM Building	Day Time	dB(A)Leq	IS 4758	56.9	-
3	Lab/PN/864E/62/04C	GG Room	Day Time	dB(A)Leq	IS 4758	61.9	-
4	Lab/PN/864E/62/04D	Flare Area	Day Time	dB(A)Leq	IS 4758	56.4	-
5	Lab/PN/864E/62/04E	Fire Pump House	Day Time	dB(A)Leq	IS 4758	52.3	-
6	Lab/PN/864E/62/04F	Electrical Room	Day Time	dB(A)Leq	IS 4758	57.4	-
7	Lab/PN/864E/62/04G	Loading Area	Day Time	dB(A)Leq	IS 4758	61.7	-
8	Lab/PN/864E/62/04H	Process Area	Day Time	dB(A)Leq	IS 4758	54.9	-
9	Lab/PN/864E/62/04F	Well NB#5	Day Time	dB(A)Leq	IS 4758	52.3	-

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