



Sun Petrochemicals
Pvt. Ltd.

Analysis of Natural Gas Sample

Doc. No. R/QAC/005

Date: 30.10.2024

Rev. No.: 00

Description of Sample:

1	Source of Sample	D2 well gas
2	Document number	Doc. R/QAC/005
3	Date of Collection	16-05-2026
4	Date of Receipt	16-05-2026
5	Pressure/ Temperature	Pressure: 10 kg/cm ² ; Temperature: 70°C
6	Sample collection	Sample was collected in the Sample Bomb.

Method of Analysis: Sample has been analyzed by Shimadzu GC-2014C system using UCC W-982, SDC-200, Porapak-N and Molecular sieve -13X Columns with TCD.

Compositional Data [as per ASTM D1945-14 (Reapproved 2019)]:

Sl. No.	Components	Concentration (Mol%)
1	Methane	68.05
2	Ethane	3.74
3	Propane	10.96
4	i-butane	5.71
5	n-butane	4.18
6	i-pentane	1.41
7	n-pentane	1.05
8	Hexane+	1.69
9	Carbon dioxide	2.88
10	Nitrogen	0.33

Calculations (as per ISO 6976:2016):

Specific Gravity (with respect to air)	0.9450
Gross Calorific Value (Kcal/M ³)	13730
Net Calorific Value (Kcal/M ³)	12523
Molecular Weight (Kg/Kmol)	27.21

Note: Calculations are done on air free basis.

Signature: *Anupam*
Name: *Anupam Bera*
(Performer)

Signature:
Name:
(Reviewer)

Signature:
Name:
(Approver)