

ANNEXURE-2 TO MOM 18.02.2020 to 19.02.2020
(BHEL OFFER FOR GTC PACKAGE, GAIL GANDHAR)

1. **Primary Fuel for GT:** Re-gasified LNG (RLNG) from 18" Gandhar-Jhanore line.

Fuel gas properties for RLNG are as below:

Sl. No.	Component	RLNG	
		Gas Composition (in Mol %)	
		Min. LHV	Max. LHV
1.	C1	93.32912	90.74001
2.	C2	5.62274	6.24112
3.	C3	0.27888	1.81558
4.	iC4	0.04775	0.32322
5.	nC4	0.05217	0.47376
6.	iC5	0.00333	0.01843
7.	nC5	0.00086	0.00487
8.	N2	0.66510	0.38304
	Total		
	Molecular Weight		
Fuel Gas Supply Conditions @ vendor's battery limit			
	Pressure (kg/cm ² G)	28-30	
	Temperature (°C)	4-35	
	LHV (kCal/Sm ³)	8445	8834
	HC Dew Point (°C)	(-)68.75°C @ 30 kg/cm ² G	

Amish
CO-ADDITIONAL
BHEL

Uday

Prem

Uday

Solar Turbines

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2. **Secondary Fuel for GT:** Semi-rich gas (SRG) from Compressor inlet common header (same as mentioned for Case-1 & Case-2 in Compressor Datasheet).
Fuel Gas Properties for SRG are as follows:

Sl. No.	Component	SRG	
		Gas Composition (in Mol %)	
		Case-1	Case-2
1.	Nitrogen	0.23	0.16
2.	Carbondioxide	2.36	2.47
3.	Hydrogen Sulphide	0.00141	0.00141
4.	Methane	90.35	85.73
5.	Ethane	5.93	5.06
6.	Propane	1.06	3.74
7.	N-Butane	0.05	1.79
8.	N-Pentane	----	0.56
9.	Hexane Plus	----	0.48
	Total		
	Molecular Weight		
Fuel Gas Supply Conditions @ vendor's battery limit			
	Pressure (kg/cm ² G)	36-39	25-28
	Temperature (°C)	40-55	15-35
	LHV (kCal/Sm3)	8396.761	9288.321
	HC Dew Point (°C)	(-)103 @ Atm. Pr.	(-)35 @ Atm. Pr.

Shash
(Manager)
BHEL

Shank

Shank

Solar Turbines