


**ARIYAN INTERNATIONAL INC.**

Bridging Businesses Together

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# STANDARD SPECIFICATION OF RUSSIAN LIQUIFIED NATURAL GAS (LNG)

COMPONENT/SUBSTANCE	PERMISSIBLE LIMITS
Gross Heating Value (GCV) range	9,340 – 10,420 Kcal/SCM (1,050 – 1,170 BTU/SCF)
Methane	not less than 85.0 Mol %
Ethane	not more than 9.2 Mol %
Propane	not more than 3.00 Mol %
Butanes and heavier	not more than 2.00 Mol %
Pentanes and heavier	not more than 0.25 Mol %
Nitrogen	1.0 molecular %
Total Sulphur	10.0 ppm (w)
Sulphur in form of Hydrogen Sulphide	10.0 ppm (w)
Maximum variation in Wobbe Index (WI) [WI = LHV (Volumetric Basis / (Specific Gravity w.r.t. Air) 0.5]	+/-5.0 %
Contaminants	
(a) Trace Metals	
i. Pb + Zn	0.50 ppm (w)
ii. Na + K	0.30 ppm (w)
iii. Vanadium	0.50 ppm (w)
iv. Calcium	2.0 ppm (w)
v. Magnesium	2.0 ppm (w)
vi. Sum of heavy metals (Hg + V + Pb + Zn + Ni + Others)	1.0 ppm (w)
(b) Solids / Particulates	
i. Total for particle size up to 10 micron	
ii. For 2 micron < d < 10 micron	20.0 ppm (w)
iii. For particle size greater than 10 micron	1.50 ppm (w)
	0.30 PPM (w)
(c) Liquid contents	Nil
(d) Moisture	112 Kg/Million SCM
Hydrogen content	1.00% (by volume)
Acetylene (C <sub>2</sub> H <sub>2</sub> )	0.10% (by volume)
Higher Hydrocarbons for n>=3	10.0% (by volume)
	Summer from March to October (PP - 5.0 degrees C)
	Summer from March to October (CP - 0.0 degrees C)
	Winter from November to February (PP - 10.0 degrees C)