



# SPECIFICATIONS FOR RUSSIAN LNG (LIQUEFIED NATURAL GAS)



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	10.00 ppm (w)
Sulphur in form of Hydrogen Sulphide	10.00 pm (w)
Maximum variation in Wobble 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+Ni+Others)	1.0 ppm (w)
(b) Solids / Particulates	
i. Total for particle size upto 10 micron	20.0 ppm (w)
ii. For 2 micron < d < 10 micron	1.50 ppm (w)
iii. For particle size greater than 10 micron	0.30 ppm (w)
(c) Liquid contents	
(d) Moisture	
	Nil
	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)