

**SUPPLY, INSTALLATION, TESTING, COMMISSIONING, OPERATION AND COMPREHENSIVE MAINTENANCE OF 600 SCM/H ELECTRIC MOTOR DRIVEN CNG COMPRESSOR PACKAGES**

**TENDER DOCUMENT NO. IGL/ET2/CP/CC17822**

Sr. No.	Section	Clause no. / Tender page no.	Description	Revised Clause
<b>Technical/ Commercial</b>				
1	IGL/ET2/CP/CC17822	Cl no. 7.2, Technical Volume - II, Pg no. 32 of 128	<p><b>Calculation for Energy Consumption &amp; Package Gas loss</b></p> <p><b>B. Energy Consumption:</b> The compressor package shall be designed in such a way that Energy Consumption of electric motor (KWH) should be minimum for production of CNG. Bidder shall indicate actual Energy Consumption for their compressor package. This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools &amp; tackles, erection and commissioning will be calculated as per following formulas: <math>F = G \times H \times I \times N</math> Where, F = amount in Rs. G = Bidder's Energy Consumption rate quoted in Kg/hr for every 600 SCM/H (438 Kg) of CNG produced H = Cost of Natural Gas per Kg @ Rs. 56/- per kg I = Avg. no. of running hours per year i.e. @ 5475 hours N = Number of machines Note-1: For Energy Consumption quoted by the bidder under guaranteed parameters, no benefit will be given below 72 KWH. Note-2: The amount (F) as per the above calculations for 10 years shall be considered on NPV basis with rate of interest @10% p.a.</p>	<p>To be read as:</p> <p><b>"B. Energy Consumption:</b> <i>The compressor package shall be designed in such a way that Energy Consumption of electric motor (KWH) should be minimum for production of CNG. Bidder shall indicate actual Energy Consumption for their compressor package. This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools &amp; tackles, erection and commissioning will be calculated as per following formulas: <math>F = G \times H \times I \times N</math> Where, F = amount in Rs. G = Bidder's Energy Consumption rate quoted in Kg/hr for every 600 SCM/H (438 Kg) of CNG produced H = Cost of Energy @ Rs. 12/ KWH I = Avg. no. of running hours per year i.e. @ 5475 hours N = Number of machines Note-1: For Energy Consumption quoted by the bidder under guaranteed parameters, no benefit will be given below 72 KWH. Note-2: The amount (F) as per the above calculations for 10 years shall be considered on NPV basis with rate of interest @10% p.a. "</i></p>
2	IGL/ET2/CP/CC17822	Cl no. 14.1 of Technical Volume, Pg no. 50 of 128	<p><b>14.1 Parameters at Suction pressure of 14 Kg/ Cm<sup>2</sup> (g); Compressor Capacity by Bidder:</b></p> <p>SL No. 7 - Power Consumption of Package in KWH for 600 SCM/H delivery</p>	<p>To be read as:</p> <p><b>"SL No. 7 - Power Consumption of Package at Suction Pressure of 14 Kg/ Cm<sup>2</sup> for the delivery of above quoted capacity "</b></p>

3	IGL/ET2/CP/CC17822	Cl no. 14.1 of Technical Volume, Pg no. 50 of 128	<p><b>14.2 Parameters at Suction pressure of 16 Kg/ Cm2 (g); Compressor Capacity by Bidder:</b></p> <p>SL No. 1 - Compressor capacity in SCMh at suction pressure of 14kg/cm2(g), discharge pressure of 250 kg/cm2(g) and gas inlet temp 30 deg C (No -ve tolerance)</p>	<p>To be read as:</p> <p><i>"SL No. 1 - Compressor capacity in SCMh at suction pressure of 16kg/cm2(g), discharge pressure of 250 kg/cm2(g) and gas inlet temp 30 deg C (No -ve tolerance) "</i></p>
4	IGL/ET2/CP/CC17822	Cl no. 14.1 of Technical Volume, Pg no. 51 of 128	<p><b>14.3 Parameters at Suction pressure of 19 Kg/ Cm2 (g); Compressor Capacity by Bidder:</b></p> <p>SL No. 1 - Compressor capacity in SCMh at suction pressure of 14kg/cm2(g), discharge pressure of 250 kg/cm2(g) and gas inlet temp 30 deg C (No -ve tolerance)</p> <p>SL No. 7 - Power Consumption of Package in KWH for 600 SCMh delivery</p>	<p>To be read as:</p> <p><i>"SL No. 1 - Compressor capacity in SCMh at suction pressure of 19kg/cm2(g), discharge pressure of 250 kg/cm2(g) and gas inlet temp 30 deg C (No -ve tolerance)</i></p> <p><i>SL No. 7 - Power Consumption of Package at Suction Pressure of 19 Kg/ Cm2 for the delivery of above quoted capacity "</i></p>