 MAHARASHTRA NATURAL GAS LIMITED	CORRIGENDUM – I & REPLY TO BIDDERS QUERIES AGAINST TENDER FOR ARC FOR PROCUREMENT OF 1200 SCMH GED CNG COMPRESSORS FOR CNG & CGD NETWORK OF MNGL, PUNE Bid No.: MNGL/C&P/2019-20/37
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Date: 25.06.2019

Corrigendum – I & Reply / Clarification to bidders queries

SUB: Corrigendum – I & Reply to bidders queries against Tender for Annual Rate Contract for Procurement of 1200 SCMH Gas Engine Driven CNG Compressors for CNG & CGD Network of MNGL, Pune

REF: Bid Document No. MNGL/C&P/2019-20/37 dated 15.05.2019, Addendum – I dated 06.06.2019 & Addendum – II dated 20.06.2019.

Dear Sir,

The terms and conditions of the Bidding Document stands modified to the extent indicated below and all other terms and conditions of the Bidding Document remains unaltered:

Corrigendum – I

Sl. No.	Volume of Bidding Document	Section	Page No.	Clause No.	Clause Description	Additions / Deletions / Modifications
1	II of II	TECHNICAL SPECIFICATION	225	7.2	Loading & Compensation Criteria	<p>Loading & Compensation Criteria stands modified as follows:</p> <p>7.2 Loading & Compensation Criteria</p> <p>7.2.1 Price Loading Criteria of Compressor</p> <p>Bidder shall indicate the specific fuel consumption kg/hr/BHP and the total fuel consumption (above defined compressor capacity) in SCMH as guaranteed value in the offer.</p> <p>The offer shall be loaded for the fuel consumption as given under. The loading per package shall be differential cost evaluated as follows.</p> <p>Total cost of the package for evaluation purpose (A+B+C+D+E)</p>



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						<p>Where</p> <p>A = Capital cost of each package including cost of erection, commissioning, and special tools and commissioning spares</p> <p>B = Cost of Recommended spares: Nil</p> <p>C = Differential operating cost as defined hereunder</p> <p>D = Cost of Annual Maintenance for 10 years (1 year warranty + 9 year post warranty) from date of successful commissioning</p> <p>E = Charges for training of 4 persons</p> <p>Differential operating cost C (in Rs) = $N_{op} \times (F_e - F_r) \times C_f \times D_f$</p> <p>Where:</p> <p>$N_{op}$ = 6570 Hrs</p> <p>F_e = Guaranteed fuel consumption in SCMH for bidder under evaluation</p> <p>F_r = Lowest Guaranteed fuel consumption SCMH (amongst technically accepted bidder)</p> <p>C_f = Cost of fuel as Rs 25/- per SCM</p> <p>D_f = discounting factor to arrive at Net Present Value (NPV) based on 10 years i.e. 4.833</p> <p>The financial loading on account of fuel consumption shall not exceed 5% of basic compressor supply cost on CIF basis for foreign bidder and ex-works basis for domestic bidder.</p> <p>Bidder shall submit the original letter from the engine manufacturer for the guaranteed parameters</p>
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						<p>confirming fuel consumption figures with total load. Engine Manufacturer fuel consumption data with respect to load shall be considered for evaluation process.</p> <p>For loading calculations purpose fuel consumption as indicated by the Engine manufacturer with total load in the original bid shall be taken. If any bidder fails to indicate the fuel consumption, highest fuel consumption figure from the techno-commercially successful bidders shall be considered for evaluation purpose and same shall be demonstrated during PG test.</p> <p>7.2.2 Compensation against non performance of compressor</p> <p>During compressor package performance test, in case the compressors package fails to meet the guaranteed values, the compensation (calculated as per formula given under here) shall be claimable by the owner and the same shall be recovered by the owner from any payment due to the supplier. In case such claims are not fully recovered, then supplier will pay the balance amount to the owner. During shop performance test of compressor package, in case the fuel consumed in terms of SCM/hr, to achieve the guaranteed compressor capacity, is found more than 10% the entire package shall stand rejected. However, for</p>
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						<p>every extra SCM/hr consumed over and above the guaranteed value upto a maximum of ten percent the Bidder shall compensate the owner for extra fuel consumption.</p> <p>The compensation per package shall be the differential cost calculated as follows:</p> <p>$PY \text{ (in Rs)} = 2 \times (FT-FG) \times CF \times 6570 \times DF$</p> <p>Where, PY = Differential Cost FT = Fuel consumption as obtained from field test in terms of SCM/hr FG = Guaranteed fuel consumption in SCM/hr CF = Rs. 25/- per SCM DF = 4.833 (Discounting factor based on 10 years of operating years)</p> <p>The total penalty to be charged for non-conformance of guaranteed parameter shall not exceed 10% of basic compressor supply cost on CIF basis for foreign bidder and ex-works basis for domestic bidder.</p> <p>No advantage shall be given for higher performance than the guaranteed. Bidder shall indicate the Guarantee parameter in his offer as per Annexure-I of this specification.</p> <p>7.2.3 Compensation against Gas leakage</p> <p>Bidders are to ensure that the package loss (excluding</p>
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						Engine consumption) should not exceed 0.5% of the capacity of the machine. In case the above loss exceeds 0.5% of the capacity of the machine (established in PT), the purchaser shall be compensated @ Rs.35/- per kg for 10 years for the gas leakage. The amount will be deducted from O&M monthly running bill.
2	II of II	TECHNICAL SPECIFICATION	234	13.10	Compensation for non-fulfillment of obligation under Annual Maintenance Contract (AMC)	<p>Compensation for non-fulfillment of obligation under Annual Maintenance Contract (AMC) stands modified as follows: The service provider has to ensure 97% availability of each package cumulative on monthly basis failing which penalty will be attracted. Penalty as per monthly down time of machine on cumulative basis will be as follows.</p> <ol style="list-style-type: none"> 1) Break-down time-up to 8 hours in a month-No Penalty 2) Break-down beyond 8 hours till 12 hours in a month – Rs. 10,000 /- 3) Break-down beyond 12 hrs. till 24 hours in a month – Rs. 20,000/- 4) Break-down beyond 24 hrs. in a month – Rs.20,000/- per day. <p>In any case / any situation, total penalty will be limited to 50% of monthly invoice value of concerned package.</p> <p>5) Non-availability of manpower in any shift/any workplace will not be tolerable. The contractor will be penalized for each such act as follows</p>



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						<p>a) For non-availability of compressor operator, contractor will be penalized @ Rs.500/- per hour basis.</p> <p>b) Non-compliance of PPE's and uniform - For every noncompliance of PPE's and uniform contractor will be penalized @ Rs.1,000/- per person per incident per day.</p> <p>c) Non-availability of technical staff to carry out breakdown maintenance within minimum i.e. One hour. On non-fulfillment and work is carried out during breakdown by MNGL staff. The contractor will be penalized for each such act as follows - For non-availability of technical staff to carry out breakdown maintenance at any site, contractor will be penalized @ Rs.2,000/- per incident.</p> <p>d) We at MNGL will not tolerate any kind of Indiscipline act at the premises from the contractor employee's during the service time. If any such incident happens, the contractor will be penalized @ Rs.10,000/- per act and the Contractor shall terminate such employee from his / her service immediately and condition of non-availability of manpower will be applicable after 24 hours from the termination of service.</p>
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Note: This Corrigendum shall form an integral part of the bidding document and shall be signed/stamped and submitted along with the bid.

(STAMP & SIGNATURE OF BIDDER)

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Reply / Clarification to bidders queries


Sl. No	Bidder's Queries / Clarification	MNGL's Reply / Clarification
1	<p>Clause No 2.0 (Pg. No 6 of 278) Design, Engineering, Manufacturing, Supply (including packaging, forwarding, insurance, custom clearance, handling and unloading at port as well as MNGL's store / site), Erection,.. 35 Nos. of 1200 Sm³/hr Cap..... at various locations in Pune, Nashik – Dhule & Sindhudurg in Maharashtra</p> <p>Compressor packages will be dispatched at specified location.</p>	<p>Bidder understanding is correct. Also refer clause no. 1.1 of special conditions of contract (Pg. No. 179).</p>
2	<p>Clause No 3.1 (Pg. No 6 OF 278) Certificate from the purchaser to OEM on completion of continuous trouble free operations of a minimum 8000 Hrs. as on the bid due date for at least one of the packages supplied by the bidder.</p> <p>Please clarify whether a packager of CNG Compressor duly authorized by the Compressor Block Manufacturer / OEM can qualify based on the documentary evidence of the OEM / Block Manufacturer regarding meeting continuous trouble free operation of minimum 8000 hrs.</p>	<p>The provisions of the BEC are amply clear. The bidder is required to meet the credential on their own.</p>
3	<p>Clause No 3.1 (Pg. No 7) The Bidder in the last Five years, reckoned from the submission of bid date, should have designed, engineered, manufactured / packaged, tested, supplied in India from the proposed facility of manufacturing / packaging at least 50% of the quoted quantity as per requirement indicated in Schedule of Rates. Packages validly similar or higher capacity to the proposed package in terms of type of Compressor (i.e. Reciprocating Hydrocarbon Gas Compressor), size of equipment (i.e. shaft power, Compressor Capacity, Discharge Pressure – 250 barg) and type of Driver i.e. Gas Engine Driven and which have completed the continuous trouble free operation for minimum 8000 hours as on the bid due date.</p>	<p>The provisions of the BEC are amply clear. The credential of the bidder in India shall only be considered.</p>

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	<p>Since the tender being an international competitive bidding, please clarify whether installation experience in foreign countries will serve the purpose for meeting the BEC. Also we request you to consider 50% of the split order quantity in the experience criteria.</p>	
4	<p>Clause no. 1.2 (Pg. No 199 of 278) API-11P, Second edition, API 618</p> <p>API 618 is generally applicable for Reciprocating Compressors for Petroleum, Chemical, and Gas Industry Services hence same is not applicable for required compressors.</p>	<p>Noted, these are guiding codes only. Our Specification is to be followed. Main features of compressor shall be as per API- 618</p>
5	<p>Clause No 1.2 (Pg. No. 199) Codes & Standards</p> <p>The design, construction, manufacture, supply, testing and other general requirements of the compressor package equipment shall be strictly in accordance with the data sheets, applicable API codes, and shall comply fully with relevant National/ International standards, Indian Electricity Act, Indian Electricity Rules, regulations of Insurance Association of India and Factories Act while carrying out work as per this specification. Any modification suggested by the statutory bodies either during drawing approval or during inspection, if any, shall be carried out by the Bidder without any additional cost and delivery implications.</p> <p>The following codes and standards (versions/ revisions valid on the date of order) are referenced to & made part of specification: API-11P, Second edition API 618 NFPA-37, OISD 179, NFPA-52: 2006, NFPA -496, NFPA -68, NFPA-70 ANSI, ASTM, NEC, NEMA Indian Electricity Rules, Indian Explosives Act, Gas cylinder rules, codes for SS tube & forged fittings</p> <p>The compressor design is derived from API618/11P/equivalent industry standards. However, the design is enhanced to meet specific CNG application such as pressurized crankcase to avoid gas vent loss etc.</p>	<p>Noted, these are guiding codes only. Our Specification is to be followed. Main features of compressor shall be as per latest API- 618</p>

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6	<p>Clause No 1.3 (Pg. No. 199) Precedence 3) International standards/codes as applicable 4) Indian Standards / codes applicable</p> <p>The compressor design is derived from API618/11P/equivalent industry standards. However, the design is enhanced to meet specific CNG application such as pressurized crankcase to avoid gas vent loss etc.</p>	<p>Noted, these are guiding codes only. Our Specification is to be followed. Main features of compressor shall be as per latest API- 618</p>
7	<p>Clause no 1.6 (Pg. No 201 of 278) Main incoming cable from owner PDB to main control panel of the compressor through..... cable tags, Lugs etc. as required. Conduit from PDB to Flame control panel shall be made available by client & from Control panel to different accessories /ESD /units shall be in supplier scope.</p> <p>Please let us know the cable length to be considered in our scope: 1) From PDB in electrical control room to Air compressor 2) From UPS to control room</p>	<p>1) From PDB in electrical room to Air compressor =75 RM 2) From UPS to control panel= 75 RM</p>
8	<p>Clause no 1.6 (Pg. No 201 of 278) Shed Structure (Galvanized corrugated sheet) of 10' x 8' over the Control panel to the Operator for operating the compressor. Total structure setup, fabrication & finishing shall be in bidder's scope.</p> <p>Please note that in our case control panel is mounted on the canopy itself and it is covered by steel sheet cover which is suitable for operating.</p>	<p>Tender conditions prevails. Kindly note that max. size of structure will be 10' X 8' and may reduce as per site requirement/condition.</p>

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9	<p>Clause No 1.6(Pg. No. 201) Separate junction boxes for different type of signals like analog, digital signals, alarm, shutdowns, and thermocouples, RTDs etc. for interfacing to local panel.</p> <p>LCP (With PLC) is mounted on package itself hence separate JB's are not required. LCP (With PLC) is mounted on package itself & also separate gauge box will be used for intrinsically safe signals.</p>	Accepted
10	<p>Clause No 1.6(Pg. No. 201) Common structural steel skid for the compressor-gas engine and for all auxiliary systems</p> <p>All auxiliaries like CO2, Air compressor, etc. will be supplied loose & to mounted apart from package.</p>	Accepted
11	<p>Clause No 1.6(Pg. No. 201) Separator drums with solenoid valve operated auto & manual drains as required.</p> <p>Considering safety hazards manual drains for KOD not considered.</p>	Accepted
12	<p>Clause No 1.6 Pg. No (201 of 278) SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE Each compressor Package shall be Lubricated or non-lubricated two throw balanced opposed reciprocating compressor with lube oil system and cooling system (console type) as required.</p> <p>Please allow Trunk piston design compressor bare block. As they are in use with City Gas distribution entities for over 20 years and Burckhardt trunk piston design Compressor machines have clocked over 03 Million operating hours in India. Currently all Progressive CGD entities are procuring Trunk Piston Design Compressor blocks due to below features:</p> <ol style="list-style-type: none"> 1. No packing seals are required 2. Piston weight supported by crankshaft and piston rings 3. Minimal escape of gases to crankcase 4. Piston rings are changed at fixed intervals unlike expensive and time consuming seal replacements 	Refer Clause No 4.1.1 (Pg. No. 206)

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	<p>5. Constant energy consumption / Kg of CNG produced</p> <p>6. ZERO GAS LOSS</p> <p>Please confirm</p>	
13	<p>Clause No 1.6 (Pg. No 201 of 278)</p> <p>SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE</p> <p>Mass flow meters- 03 nos.</p> <p>Your specifications mandate only three flow meters A suction, a discharge flow meter & an engine flow meter.</p> <p>This allows a gas loss of up to 1% to purchaser as the bidders take shelter under the inaccuracy in measurement of mass flow meters. Under the circumstances MNGL would not be able to measure loss of up to 9 KG or more per hour. Over 75000 life cycle it can lead to a loss of 6.75 Lakh KG (Rs. 1.35 Crores per package) of Gas to MNGL.</p> <p>Vent cannot be measured using Coriolis Mass Flow meter as it cannot accurately measure vent at atmospheric pressure. In a vent line Coriolis mass flow meter may not serve purpose.</p> <p>Low pressure, low flow can only be measured by thermal mass flow meter which has same accuracy as Coriolis mass flow meter and can measure vent to atmosphere.</p> <p>To curtail Gas loss and to impose penalty all City Gas entities are asking for a thermal mass flow meter in the event it as it captures the packing loss and other losses from the package</p> <p>The cost of thermal mass flow meter is negligible in comparison to the loss. An inexpensive Thermal flow meter can capture the entire loss which can then be recovered from the operation and maintenance charges payable to supplier.</p> <p>Discharge of natural gas in the atmosphere is both a financial loss and an environmental issue.</p> <p>It is requested that MNGL being a responsible company shall not permit discharge of raw Methane into the atmosphere. Please confirm</p>	<p>Tender terms prevail. Bidder may keep provision for supplied packages to install thermal mass flow meter at vent.</p>

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14	<p>Clause No 1.6 (Pg. No 202 of 278) SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE Single Acoustic enclosure for both Compressor and gas engine</p> <p>All progressive City gas entities are asking for double chamber CNG package design with two sets of gas detectors and two sets of flame detectors in each chamber This was done based on suggestion of PESO way back in the year 2007. Argentinian standard 141 one also mandates double chamber design for gas Indian driven compressor packages Progressive company such as IGL, CUGL, Aavantika Gas etc. have all mandated double chamber design.</p> <p>It will not be out of place to mention here that majority of gas engine driven CNG compressor packages are in use by IGL and its subsidiaries and they a mandate double chamber design in their technical specifications Double chamber design be mandated as:</p> <ol style="list-style-type: none"> 1. To safeguard the society and the investments. 2. It greatly enhances the safety in operation which a progressive organization like MNGL would like to voluntarily adopt. 3. It does not limit competition neither does it increase the cost substantially. All compressor package suppliers package and supply double chamber design. <p>We invite you to our factory to appreciate the hermetically sealed double chamber design and its safety features</p>	<p>Double chamber design is also accepted.</p>
15	<p>Clause No 1.6 (Pg. No 202) Training of 4 persons (2 supervisors + 2 operators) at packager's workshop</p> <p>Please clarify if the training is to be arranged for in total only 4 persons or if it needs to be arranged for 4 persons per site</p>	<p>Bidder has to arrange training once for 4 persons at packager's workshop.</p>

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16	<p>Clause No 1.7.10 (Pg. No 204) CCOE Certificate, Approval/ Manufacturing certificates for cylinders and cylinder valves, gas detectors, flame detectors, solenoid valves etc. shall be furnished by the supplier along with system</p> <p>CCOE certificates of individual subcomponents shall be furnished along with the bid.</p>	Accepted
17	<p>Clause No 2.1.1 (Pg. No 205 of 278) Bidder shall make his own provision for Instrument air with an electric motor driven air compressor, receiver and air dryer system.</p> <p>Please clarify whether additional air compressor is to be supplied other than that mentioned in Clause No. 2.1.2, Page 205 of 278.</p>	No additional Air compressor required. Same air compressor as per Clause no. 2.1..2 can be used for instruments air.
18	<p>Clause No 2.1.2(Pg. No. 205) Air compressor of capacity approx. 3.7 kW preferably of IR/KPCL/Elgi/CP make of approx. 16 kg/cm²(g) discharge pressure with PRV and 1000 water liter capacity air receiver shall be supplied for each CNG compressor package for gas engine starting purpose. Air dryer suitable for automatic operation & Single phase preventer unit shall also be supplied along with all accessories. Electric power will be arranged by purchaser for driving the air compressor. The air Compressor shall be kept off the package in hazardous area near to CNG package. All the electrical and instrument items should be suitable for Class 1, Division 1, Group-D Piping, electrical & instrumentation cabling shall be in bidder's scope as per cl. No. 2.1.3. The air receiver shall be connected to instrumentation air dryer for emergency purpose through NRV, PRV (set at 7 kg/cm²) and isolation valve. Air receiver shall be provided with SRV, pressure gauge and drains. Manual drains and automatic moisture traps shall be provided in the system. A Rain guard of MOC carbon steel minimum thickness of 2 mm should be provided over the air compressor.</p> <p>Air Compressor can be placed in safe non-hazardous area. We shall supply non flame proof type air compressor with discharge pressure 10</p>	Tender terms prevail

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	<p>barg which is suitable for the GED Packages operation.</p>	
19	<p>Clause No 2.1.4 (Pg. No. 205) Cooling water is not available as utility and the package shall be provided with self sufficient cooling water system for Compressor, as required, with makeup tank. However, cooling water for make up tank is available.</p> <p>Not applicable as Compressor with Air cooled heat exchanger will be provided.</p>	<p>Accepted. This clause is applicable if water cooled system like engine is installed.</p>
20	<p>Clause No. 2.2.3 (Pg. No. 206) All drains from different process equipment, distance piece and packing shall be manifolded and terminated at single point for customer interface duly flanged with isolation valve</p> <p>We shall provide oil recovery vessel (oil drain pot) to ensure uninterrupted operation of machine. ORV shall be mounted inside the package.</p>	<p>Accepted</p>
21	<p>Clause No 2.2.5 (Pg. No.206) Electronics earth pit shall be made available at a distance of about 5 meters from compressor package. Cable from this earth pit shall be in the bidder's scope. Owner's earthing main ring shall be made available at compressor foundation. Cable to control panel body earth inside the compressor package shall be in the bidder's scope.</p> <p>Request to define length of cable.</p>	<p>Length of cable is 2 meter.</p>
22	<p>Clause No 4.1.1 (Pg. No. 206) 3) Code and specification API-11P, API-618, OISD 179, NFPA, ANSI, ASTM, NEC, NEMA, Indian Electricity Rules, and Indian Explosives Act are referenced to & made part of specification 4) Compressor and its auxiliary's design shall be in conformity with API 11P, second edition. API 618, piston trunk design.</p> <p>The compressor design is derived from API618/11P/equivalent industry standards. However, the design is enhanced to meet specific</p>	<p>Noted, these are guiding codes only. Our Specification is to be followed. Main features of compressor shall be as per latest API- 618</p>

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	CNG application such as pressurized crankcase to avoid gas vent loss etc.	
23	<p>Clause No 4.1.5 (Pg. No. 207) Note that the pressures given on the data sheet are at the compressor package battery limits, Bidder shall consider all pressure losses at suction, inter-stage and discharge at the specified capacity (with no -ve tolerance) for compressor and indicate the same on the data sheets</p> <p>We shall consider 16 Kg/cm²G pressure at compressor suction flange for compressor sizing & heat exchanger sizing.</p>	Accepted. However, the compressor suction pressure varies from 16 kg/cm ² (g) to 19 kg/cm ² (g) the compressor shall be suitable to deliver flow corresponding to 16 and 19 kg/cm ² (g).
24	<p>Clause No 4.4.1(Pg. No. 207) The pressure packing case shall be provided with a common vent and drain below the piston rod tube to the outside of the Package enclosure</p> <p>Offered Compressor is with pressurized crank case design. Common vent & drain arrangement is not applicable in this case since there is no vent gas loss in the compressor.</p>	Accepted
25	<p>Clause No 4.4.2(Pg. No. 208) ERW/ seamless steel tubing conforming to ASTM A-192 or series 300 SS tubing conforming to ASTM A-269 with minimum thickness as specified in Cl. 7.11 of API-11P shall be used for vent piping.</p> <p>Offered Compressor is with pressurized crank case design. Common vent & drain arrangement is not applicable in this case since there is no vent gas loss in the compressor.</p>	Accepted
26	<p>Clause No 4.4.3(Pg. No. 208) Packing vent piping inside of the distance piece shall be designed for the maximum allowable working pressure of the cylinder</p> <p>Offered Compressor is with pressurized crank case design. Common vent & drain arrangement is not applicable in this case since there is no vent gas loss in the compressor.</p>	Accepted

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27	<p>Clause No 4.5.4(Pg. No. 208) Heating shall be provided for reservoir when the minimum ambient temperature is less than the Bidder's required Minimum start up temperature.</p> <p>Not applicable</p>	Accepted
28	<p>Clause No 4.5.5(Pg. No. 208) Heater besides meeting the area classification requirements specified in the Tender shall be star connected if designed for operation on 3-phase (4 wire), 440V, 50 Hz supply.</p> <p>Not applicable</p>	Accepted
29	<p>Clause No 4.6 (Pg. No. 208) Distance Pieces 4.6.1 Distance piece as per API-11P with cylinder side compartment vented to safe location is specified. However, for pressurized crank case/piston truck design applicability of distance pieces and venting will be as per manufacturer's standard 4.6.2 Distance pieces shall be provided with casketed, solid covers and shall be suitable for a minimum differential compartment pressure of 1.75 kg/cm²g.</p> <p>Distance piece will be as per manufacturer's standard design. Venting is not applicable due to pressurized crankcase.</p>	Accepted
30	<p>Clause No 4.7.1(Pg. No. 208) Single plunger per point force feed mechanical lubricator or divider Block type shall provide lubrication to compressor cylinders.</p> <p>Divider block type lubrication system will be provided.</p>	Accepted
31	<p>Clause No 4.7.3(Pg. No. 208) Lubricators shall have a sight flow indicator for each lubricator point and a stainless steel double ball check valve shall be provided at each lubrication point.</p>	Accepted

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	Divider block with Common indicator will be provided & Brass NRV provided.	
32	<p>Clause No 4.7.4(Pg. No. 208) Digital no flow timer shall be provided to stop the compressor in case of loss of cylinder lubrication.</p> <p>Common Digital No Flow Switch (time based) will be provided.</p> <p>- When there is no – pulse (from cylinder lubrication - divider block) for certain time interval, the switch toggles & the compressor is tripped on lubrication fault.</p>	Accepted
33	<p>Clause No 4.8.2 (Pg. No. 209) Inter / After Gas Coolers Air-cooled inter-stage and final stage discharge coolers shall be provided which shall limit the gas temperature after the after cooler to 52°C. For calculating the surface area of the air cooler, the ambient air temperature of 42°C and 80% RH shall be considered. Cooler design shall be on the basis of 10% excess capacity than required corresponding to suction pr. of 22.0 kg/cm²(g). Gas sections of coolers shall be designed as per API-661 requirements. For cooling of the Heat Exchangers a cooling fans to be provided inside the enclosure. Cooling system shall be preferably installed on the same skid of compressor due to space constraints. Bidder shall submit cooler sizing calculation for review.</p> <p>- The approach above ambient would be 10°C. (max. discharge temp. 42°C + 10°C = 52°C).</p> <p>- The required inputs would be given in the Heat Exchanger datasheet.</p>	Tender terms prevail
34	<p>Clause No 4.8.2 (Pg. No 209 of 278) Cooler design shall be on the basis of 20% excess capacity than required corresponding to suction pr of 19 kg/cm²</p> <p>Cooler design will have 20% excess capacity considering parameters with suction pressure of 16 kg/cm²g. However cooler design will be suitable for all other operating cases as per tender. This will help in optimising the cooler design.</p>	Tender terms prevail



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35	<p>Clause No 4.9.1 (Pg. 209) Carbon Steel separators / KOD/ volume bottles at auto drain system shall be provided for the capacity as required</p> <p>Manual drain for separator not provided for safety reasons. This is as per proprietary design of machine.</p>	Accepted
36	<p>Clause No 4.9.3 (Pg. 209) Scrubber service class - B shall be used for Inter-stage / discharge scrubbers. Service Class - C shall be used for suction scrubber. (Refer API -11P)</p> <p>Suction KOD as per Manufacturer standard design will be provided. 30 4.9.3</p>	Accepted
37	<p>Clause No 4.9.3 (Pg. 209) All vessels including pulsation dampers shall be fully (100%) radio-graphed as per ASME VIII UW (a) or equivalent.</p> <p>All vessels will be fully (100%) radio-graphed as per ASME VIII, however U stamping not considered.</p>	Tender terms prevail
38	<p>Clause No 4.9.4 (Pg. 209) Gas recovery system</p> <p>Gas recovery system & vessels are as per proprietary design of manufacturer. As suction damper and gas recovery vessel are combined, pressure regulator after gas recovery vessel not considered.</p>	Accepted
39	<p>Clause No 4.8.2 & 4.10.4 (Pg. No 209) For cooling of the Heat Exchangers a cooling fan (Gas Engine Driven) to be provided inside the enclosure(s).</p> <p>Heat exchanger fan shall be electric motor driven. Power for the same can be drawn from the electric supply for the air compressor package</p>	Accepted.



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40	<p>Clause 1.6 (Pg. No 210 of 278) SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE Blow down vessel location</p> <p>Both ISO 16923 (Sec 17.3.1) & Shell global standards prescribe that buffer storage tank (Blow down vessel) should be kept outside the compressor enclosure. Storage of pressurized gas inside the CNG compressor packages are a safety hazard and hence blow down vessel should be mounted outside or on top of Compressor enclosure. It is not possible to take out the BDV from the base of the package once assembled This creates potentially hazardous situation and also leads to oil carryover Blow down vessel placement outside the Compressor package be mandated as:</p> <ol style="list-style-type: none"> 1. It allows testing of the vessel every 3 years. 2. It prevents oil carryover to dispensers & vehicles. 3. It increases man & machine safety in operation and idle condition both. <p>It does not increase the cost of the package. Also it does not limit competition.</p>	Tender terms prevail. BDV shall be installed within package only.
41	<p>Clause No 4.9.7(Pg. No. 210) Coalescent super fine filters (preferably two stages) with CE mark/ third party inspected for removal of liquid (e.g. water & oil) and solid particles down to 0.1 microns out of compressed natural gas shall be provided. Residual Oil Contents shall be less than 1 PPM. Manual drains with isolation valves with oil collecting pot shall be provided. The filter should be sized to flow min 200% of the maximum flow at 255 kg/cm2g. However mechanical design shall be based on safety set pressure</p> <p>Filter will be sized for 120% of the flow at 19 kg/cm2 g suction pressure. Already used in last supplied packages in MNGL. Kindly elaborate the term "filter should be sized to flow min 200% of the maximum flow at 255 kg/cm2g:</p>	<p>Accepted. Filter shall be sized to flow min. 120% of rated flow of compressor considering suction pressure 16 Kg/cm²g (variable up to 19 Kg/cm²g) and discharge pressure 255 kg/cm2g.</p> <p>Filter shall be CE mark or third party inspected as already mentioned in tender.</p>



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	<p>Non CE marked filters shall be considered of reputed make. Filter sizing of 200% is unnecessary cost implication and technically 100% filters are more than sufficient. Kindly accept. Timer base automatic oil drain as per standard design will provided.</p>	
42	<p>Clause No 4.11.1(Pg. No. 211) The maximum allowed temperature within the enclosure shall be 5°C above ambient temperature. Adequate ventilation fans shall be provided to meet the above and also to account for heat dissipation of the coolers. Interlock shall be provided to start the exhaust fan to vent out any entrapped gases in the enclosure before starting the main compressor. In case the ventilation fan is mounted inside the canopy then no separate ventilation fan required provided this meet the required temperature.</p> <p>In our case the cooler design is in such a way that the adequate air change takes place for maintaining the required temperature, hence ventilation fans for this purpose are not required.</p> <p>Temperature inside canopy = Ambient + 8° C</p>	Ventilation system shall meet the stated requirement
43	<p>Clause No 4.11.2 (Pg. No. 211) The compressor package shall consist of single enclosure for Compressor and gas engine. The equipment shall be mounted on one common skid. The Enclosure to restrict maximum noise level to 70 dB (A) at 1 meter from the enclosure.</p> <p>Noise level shall be 75+/-3 dbA at 1 meter from package in free filed condition.</p>	Noise level shall be 70 (+/-3 %) at 1 meter from the enclosure.
44	<p>Clause No 4.11.15 (Pg. No.212) All the pressure, temperature, gas flow meter, oil level, lube oil pressure, coolant temperature, coolant level indicators shall be visible from outside of enclosures.</p> <p>All the indicators for pressure, temperature of gas shall be visible from outside of enclosures. For rest of the parameters same can be viewed from Plc./Locally.</p>	Accepted




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45	<p>Clause No 4.12 & 4.12.11 (Pg. No. 212) Specification for tubing & Piping</p> <p>Gas piping/ tubing at 3rd stage discharge will only be in SS-316, with SS fittings, Rest all piping /tubing will be Combination of Flanged & screwed connections with CS material (pipes, Fittings & Flanges) as per application requirement & standard design. This is as per manufacturing standard design.</p>	Tender terms prevail
46	<p>Clause No 4.12.6 (Pg. No 213 of 278) Piping</p> <p>All high-pressure double ferrule fitting & 2/3 way valves shall be from SWAGELOK or PARKER makes & shall be SS 316L material only.</p> <p>Please approve DIN standard fittings of VOSS Germany.</p>	Tender terms prevail
47	<p>Clause No 4.13 (Pg. No 213 of 278) Coupling</p> <p>V-Belt drive up to 150 KW gas engine rating is acceptable. Direct drive shall be offered by the Bidder if power requirement is > 150 KW. Gear drive is not acceptable</p> <p>Both belt driven and direct driven should be allowed irrespective of power requirements as both designs are Industry norms.</p> <p>Due to design variation possible in belt driven compressors, Belt driven have been found to be equal or more fuel efficient in comparison to direct driven.</p>	Tender terms prevail
48	<p>Clause No 4.12.7 (Pg. No. 213) Bidder shall furnish a temporary start up conical strainer fitted with adequate size mesh.</p> <p>We shall provide Y strainer considering ease of maintenance.</p>	Accepted
49	<p>Clause No 4.12.6 (Pg. No 213 of 278) All high-pressure double ferrule fitting and 2/3 way valves shall be from SWAGELOK/ PARKER makes & shall be S.S. material only. Material of</p>	SSP makes may also be used.

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	<p>tube shall also be SS316 as per ASTM A269 Sandvik make.</p> <p>Bidder requests to allow M/s SSP & M/s Fluid Control for the same.</p>	
50	<p>Clause No 4.12.8 (Pg. No. 213) All lube oil piping down stream of filter shall be series 300 Stainless Steel.</p> <p>After oil filter inbuilt oil galleries are provided, & standard Brass NRV provided at forced lubrication point.</p>	Yes, it may also accepted
51	<p>Clause No 4.13 (Pg. No. 213) Coupling</p> <p>Direct coupled</p>	Accepted.
52	<p>Clause No 5.1.2(Pg. No. 214) The selected I/O shall have 20 % spare capacity for future use.</p> <p>10% Spare I/O shall be provided.</p>	Provide 2 nos. of DI,DO & AI each.
53	<p>Clause No 5.6.3 (Pg. No 217 of 278) Minimum degree of protection of motor enclosure shall be IP55 as per IS. Motors for use in hazardous area shall have protection Ex (d) as per area classification. If required as per torque requirement to start the motor a soft starter may be provided by the bidder</p> <p>Kindly let us know whether this clause is applicable for air compressor motor.</p>	This clause is applicable for all motors installed in hazardous area i.e. within CNG area.
54	<p>Clause No 5.6.6 (Pg. No 217 of 278) The electrical power supply distributions panels, switchgear panels and starter panels shall have flame proof construction. There shall be FLP push button panel available at the compressor skid suitable for hazardous area classification. The switchgear shall have one incomer and adequate number of outgoing feeders. The incomers shall be provided with suitably rated fuse switch unit (AC – 23), ammeter, voltmeter with selector switch,</p>	Bidder understanding is correct as there is no 415 VAC in panel. However, bidder has to consider of all switchgear and protection for 240VAC. Also refer Cl. No. 5.6 (Pg. No. 217) regarding supply.

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	<p>energy meter, PF meter, Phase reversal relay, Earth fault relay, indication lamps etc. Motor feeders shall be provided with heavy duty fuse switch unit (AC-23), contactors (AC- 3 duty), bi-metal relay with built in single phase prevent, ammeter, push buttons, indication lamps for Start/Stop/Trip, etc. Adequate number of MCB feeders for control and lighting shall be provided. Bidder shall furnish single line diagram of the panel with the bid. Certification /Type test certificate from CMRI/DGFASLI/CCE/BIS/DGMS shall be enclosed with the bid</p> <p>Not applicable as the package Engine driven.</p>	
55	<p>Clause No 5.6.7 (Pg. No 218 of 278) Push button for fault accept, fault reset, ESD, comp start, comp start, scroll up, scroll down, enter, increment, decrement, back, hooter test, 4 nos'. spares shall be provided. Switch for main over ride, auto manual selection, Co2 cylinder main /Co2 cylinder standby, 415 VAC supply on / off, 240 VAC supply on/off, tube light on/of, enclosure door by pass and 2 no's spares shall be provided. Lamp for 415 VAC, 240 VAC on, 24 VDC PLC supply on, ready to start, running & trip and 5 no's spares shall be provided.</p> <p>All the specifications can't be met. Bidder wants to know the need for 415 VAC supply on / off we believe the same is only applicable for Motor Driven packages.</p>	<p>Bidder understanding is correct as there is no 415 VAC in panel. However, all other requirement except 415 VAC on –off switch shall be as per tender.</p>
56	<p>Clause No 5.6.11 (Pg. No 218 of 278) Preferred makes of electrical equipment shall be as follows: UV flame detectors - General Monitors/ Crow on /Honeywell /Sieger IR Gas detectors - General monitors/ Crow on /Honeywell /Sieger/Detronics</p> <p>Kindly also allow M/s ESP / MSA make for both Flame & Gas Detector</p>	<p>Acceptable subject to approval from PESO, CCOE approval. Documents of Instruments shall be submitted for prior approval from MNGL.</p>




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57	<p>Clause No 5.6.11(Pg. N0. 218) Preferred makes Shall be as per final approved vendor list. Kindly approve below makes: SUCTION & DISCHARGE FILTER:</p> <p>SUCTION FILTER: - Filtration Tecknik, BEKO</p> <p>DISCHARGE FILTER: with Parker filter element, BEKO make</p> <p>CARTRIDGE FILTERS - Parker</p> <p>FLP Switchgear – Sudhir</p> <p>PLC – Schneider</p> <p>Pressure Regulator - Fisher/ Vanaz</p> <p>Process Gauges - Baumer</p> <p>Cables and wires - Polycab / KEC</p>	Accepted
58	<p>SS tube - M/s Swagelok (USA)/M/s Parker (USA)/ M/s Sandvik, Sweden</p> <p>Kindly also allow M/s Fluid Control & M/s Tubacex</p>	M/s Tubacex may also be used.
59	<p>Clause No 5.6.11 (Pg. No 219 of 278) Preferred makes of electrical equipment shall be as follows: Vibration Switch - Robertshaw Control, Murphy</p> <p>Kindly also allow M/s Masibus</p>	Acceptable subject to approval from PESO, CCOE approval. Documents of Instruments shall be submitted for prior approval from MNGL.
60	<p>Clause No 5.6.11 (Pg. No 219 of 278) Preferred makes of electrical equipment shall be as follows: RTD's - M/s General Instruments LTD. Mumbai/M/s Nagman Sensors (Pvt.) Ltd./M/s Pyro Electric, Goa,M/s Waaree, M/s Wika</p> <p>Kindly also allow M/s Baumer</p>	Acceptable. Documents of Instruments shall be submitted for prior approval from MNGL.

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61	<p>Clause No 5.6.11(Pg. No 219 of 278) Preferred makes of electrical equipment shall be as follows: Pressure Regulator</p> <p>Kindly also allow Elster & RMG & Honeywell</p>	Tender terms prevail
62	<p>Clause No 5.7.13(Pg. No 220 of 278) PLC through SCADA system are required. The detail requirement of SCADA will be communicated to successful vendor during detailed engineering.</p> <p>Please confirm that, only SCADA connectivity is in bidder scope and not SCADA system.</p>	Bidder understanding is correct. SCADA connectivity is in the scope of bidder, not system
63	<p>Clause No 5.7.14 (Pg. No 221 of 278) Bidder shall calibrate each mass flow meter at his shop or any recognized test house (for India from FCRI)</p> <p>Kindly suggest alternative lab / agency for the calibration of the mass flowmeters as only a single vendor may lead to monopoly.</p>	Tender terms prevail
64	<p>Clause No 5.7.15 (Pg. No. 222) Bidder shall provide certificates (from BASEEFA FM, UL, PTB, LCIE etc.) from country of origin for all intrinsically safe/flameproof protected by other methods equipment/instrument/systems, which are manufactured outside India. If required, bidder shall provide necessary certification/approvals/authentication, for all such intrinsically safe/flameproof equipment/instrument/systems, by the Indian authority–Chief Controller of Explosive (CCOE), Nagpur, India.</p> <p>CCOE or its equivalent certificate (FM, CSA , ATEX, UL, CMRI) whichever applicable & available will be provided.</p>	Accepted
65	<p>Clause No 6.2 (Pg. No. 223) The MRT for each compressor shall be carried out in presence of PURCHASER/CONSULTANT with job or shop driver including complete job driving system i.e., job driven V-belt, job pulleys etc., for 4</p>	Tender terms prevails




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	<p>hours continuously at shop of compressor manufacturer. The compressor need not be pressure loaded for MRT test. During this test following shall be recorded at agreed intervals.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Vibration levels measured on cylinders and frame <input type="checkbox"/> Bearing temperature <input type="checkbox"/> Oil cooler inlet and outlet temp <input type="checkbox"/> Sound level <p>Subsequent to satisfactory run the compressor shall be examined as per standard procedure & following shall be examined as minimum: Strip test is limited to open Crank Case cover, X-Hd guide & Dist. pc. Cover and opening of bore & other parts, piston, one valve per cylinder. Visual examination of position rod If any of part found damaged, all similar components shall be stripped for inspection. The MRT test shall be repeated after replacement of such parts.</p> <p>MRT will be carried out as per manufacturer's std procedure.</p> <p>Following not feasible during FAT:</p> <ul style="list-style-type: none"> -Bearing temperature -Sound level -Not feasible to unavailability of free field. To be demonstrated at site. <p>As it is not possible to disassemble any part of the compressor package after assembly & testing strip test is not feasible.</p>	
66	<p>Clause No 6.1 (Pg. No 223) Inspection testing for foreign bidder: Cost of third party inspection including fees payable and arranging the same shall be borne by bidder. Approved 3rd party inspection agencies are EIL, BVQ, DNV, MECON and Lloyd's reg.</p> <p>Inspection and testing will be carried out at Auckland (New Zealand) packaging facility</p>	Acceptable
67	<p>Clause No 6.4 (Pg. No. 224) Pressure and temperature of gas shall be considered at purchaser's boundary limit and supplier shall install necessary pressure and temp measuring devices.</p>	Tender term prevails

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	Pressure and temperature at compressor inlet flange will be considered for FAT & PT test.	
68	<p>Clause No 7.1 (Pg. No 225) Guaranteed parameters required at 16 bar</p> <p>Can a pressure regulator be used at the inlet to maintain suction pressure at 16 bar thereby being able to size the compressor for 16 bar and optimize Motor kW rating since the guaranteed parameters as mentioned in the tender are required at 16 bar</p>	Bidder shall provide pressure regulator.
69	<p>Clause No 7.2.3 (Pg. No 227 of 278) Gas Loss 0.50% Gas Loss</p> <p>Natural Gas being potent Greenhouse Gas should not be vented in the atmosphere. Hence Thermal mass flow meter connected to manifold further connected to packing seal chamber / distance piece and vent etc. be used as it shall be able to measure low flow, low pressure gas escaping from package (Gas Loss). The reading of Thermal Mass Vent Flow Meter after factoring in 1% error be used for imposition of penalties (as the difference of suction and discharge flow meter after factoring in 0.50 % Gas Loss does not serve the purpose).</p>	Tender term prevails
70	<p>Clause No 13.12 (Pg. No 235 of 278) The bidder shall indemnify the company against all losses or damages caused to it on account of acts of the personnel deployed by the Bidder. The bidder shall ensure regular and effective supervision of the personnel deployed by him. The bidder shall be liable for making good all damages/losses arising out of loss or theft of each handled, leakage, pilferage of any office, furniture equipment fitting and fixtures what-so-ever as may be caused directly or indirectly by the engaged persons through him/work carried out by them.</p> <p>Bidder Liability of losses and damages shall be limited to monthly O&M order value.</p>	Tender terms prevail.

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71	<p>Clause No 13.14 (Pg. No 236 of 278) O&M (1+9 Years) Percentage of Cost of equipment on YOY basis</p> <p>All progressive City Gas Companies such as CUGL, IGL, MGL are mandating 20% cost of Compressor inclusive of taxes as O&M cost each year. This ensures sustainability as Salaries of operation and maintenance staff remains covered throughout the O&M period. It also ensures compliant bids. Please confirm if MNGL intends to adopt this model.</p>	Tender terms prevail
72	<p>Clause No 13.14.13 (Pg. No 238) The Bidder shall carryout calibration of gas detectors and flame detectors every six months or earlier as per requirement or instruction of EIC of PURCHASER. Also yearly calibration of all instruments such as pressure gauges, transmitters, switches, mass flow meters etc. shall be in the scope of the Bidder. In addition to the above all safety relief valves shall also be tested and calibrated every year.</p> <p>Calibration of gas detectors and flame detectors will be carried out only after every six months and not necessarily before six months. Also note that, calibration of these detectors and yearly calibration of mentioned instruments and safety valves will be carried out only during warranty period of compressor package.</p>	Tender terms prevail. However, in case of nuisance / false tripping of any instruments due to any technical problem in it and if MNGL ask for calibration of the same, then bidder has to calibrate the instrument immediately.
73	<p>Clause no. 13.14.17 (Pg. No 238 of 278) If top overhauling and major overhauling of the compressor and prime mover is required as per compressor and prime mover manufacturer's O&M manual recommendation, the same shall be in supplier's scope.</p> <p>Top overhauling and major overhauling of the compressor and prime mover will be in purchaser's scope.</p>	Tender terms prevail

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74	<p>Clause No Sr no. 26 (Pg. No 242 of 278) OILM COOLER: TEMA 'C'</p> <p>Oil cooler will be as per manufacturer standard and not necessarily comply TEMA C requirements.</p>	Accepted. Oil cooler may be as per manufacturer standard
75	<p>Test Certificates</p> <p>Certificates will be submitted as per QAP Approved by end client</p>	Test Certificates will be submitted as per Company standard QAP Approved by MNGL
76	<p>Clause No 16.1-58 (Pg. No. 243) Compressor cylinder liners.</p> <p>Liner only for 3rd Stage will be provided This is as per proprietary design of machine & accepted for all earlier machine.</p>	Accepted
77	<p>Clause No 19 (Pg. No.268) Compressor Instrumentation</p> <p>01. Frame Oil Sump/Reservoir Level: Switch is provided at oil tank. 40.1st stage dish pressure low / high- Only high alarm is required and hence provided 42. Final Disch. Pressure after coalescent filter - Only high alarm is required and hence provided 43. Blow Down vessel level- Time based oil drain is provided. Hence level switch is not required.</p> <p>Clause No 19 Engine Instrumentation</p> <p>6. OIL COOLER OIL OUTLET TEMP.- RTD is provided at Oil Sump for temperature 8. Differential pressure gauge for fuel and air mixture- Engine suction gas pressure gauge and transmitter only shall be provided. 14. ENGINE JACKET C.W SUPPLY TEMP.- ENGINE JACKET C.W OUTLET temperature gauge and transmitter shall be provided 16. COOLANT MAIN PUMP DISCH. PR. - Not applicable. 17. COOLANT SUPPLY HEADER PR.- Not applicable. 19. COOLANT COOLER OUTLET TEMP - Not applicable.</p>	Accepted

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	<p>20. COOLANT RESERVOIR LEVEL. - Not applicable.</p> <p>22. AIR RECIEVER PRESSURE- Engine air starting pressure gauge and transmitter shall be considered.</p> <p>24. INLET AIR FILTER DIFFERENTIAL PRESSURE- Shall be same as engine air starting</p>	
78	<p>Clause No 20.0 (Pg. No. 271) QUALITY ASSURANCE PLAN</p> <p>Inspection & Testing will be as per Approved QAP.</p>	Accepted
79	<p>Clause No 1.0 (Pg. N0. 272) HYDROTEST OF - CYLINDER, PRESS.VESSELS, HEAT EXCHANGERS</p> <p>Hydro test for 1st stage and 2nd stage cylinder only shall be considered.</p>	Tender terms prevail.
80	<p>Clause No 1.0 (Pg. N0. 272) Inspection by owner/TPI at vender place</p> <p>Third party inspection is done by OEM's vender end and inspection report will be submitted. Most of the Major & Minor Item are already being procured by OEM. Hence Inspection by owner/TPI is not considered.</p>	Accepted.
81	<p>Clause No 2.0(Pg. N0. 272) HYDROTEST OF - CYLINDER HEADS</p> <p>Hydro test for cylinder head is not applicable</p>	Accepted
82	<p>Clause No 3.0(Pg. N0. 272) LEAK PROOF TEST OF CRANK CASE (4 Hours. with Kerosene)</p> <p>Hydro test TC for crankcase shall be submitted. Leak test done with Nitrogen.</p>	Accepted.

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83	<p>Clause No 7.0 (Pg. NO. 272) BARRING OVER TO CHECK CYLINDER END CLEARANCE AND PISTON ROD RUNOUT</p> <p>Not feasible to check piston rod runout.</p>	Accepted
84	<p>Clause No 8.0(Pg. NO. 272) NO LOAD MECHANICAL RUN TEST OF THE COMPR. WITH RATED (OR MORE) SPEED AND SHOP DRIVER</p> <p>Shall be combined with Factory Acceptance Test (FAT) at full load on CNG fuel.</p>	Accepted
85	<p>Clause No 9.0(Pg. NO. 272) STRIP CHECK AND INTERNAL INSPECTION AFTER "NLMRT" OF ALL Refer COMPRESSORS</p> <p>As it is not possible to disassemble any part of the compressor Package after assembly & Testing same is not feasible.</p>	Tender terms prevail. In case of any abnormality addressed during test, owner/TPI may ask to dismantle.
86	<p>Clause No 10.0(Pg. NO. 272) GAS ENGINE PERFORMANCE TEST- AT SUB-VENDOR'S WORKS PER ISO STD</p> <p>Gas engine performance shall be check during FAT as per manufacturer standard practice.</p>	Accepted.
87	<p>Clause No 12.0(Pg. NO. 272) CANOPY STRUCTURE PAINTING INSPECTION AT WORKS. SURFACE PREPARATION TO BE INSPECTED AFTER CLEANING AND BEFORE APPLICATION OF FIRST COAT OF PRIMER.</p> <p>Third party inspection for canopy painting shall not be considered as same in not envisaged.</p>	Accepted
88	<p>Clause No 13.0(Pg. NO. 272) FUNCTIONAL / HV / CONTINUTY TEST FOR CONTROL PANEL (AT SUB VENDOR'S WORKS.)</p> <p>Functional / hv / continuity check for control shall be done during Factory Acceptance Test (FAT) at full load on CNG fuel.</p>	Tender terms prevail.

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89	<p>Clause No 3.0 (3.1) 3 (Pg. No. 7) The Bidder in the last Five years, reckoned from the submission of bid date, should have designed, engineered, manufactured / packaged, tested, supplied in India from the proposed facility of manufacturing / packaging at least 50% of the quoted quantity as per requirement indicated in Schedule of Rates. Packages validly similar or higher capacity to the proposed package in terms of type of Compressor (i.e. Reciprocating Hydrocarbon Gas Compressor), size of equipment (i.e. shaft power, Compressor Capacity, Discharge Pressure – 250 barg) and type of Driver i.e. Gas Engine Driven and which have completed the continuous trouble free operation for minimum 8000 hours as on the bid due date.</p> <p>Kindly increase the no of years from bid submission due date from 5 to 10 years as per BQC norms followed by other CGD industries including IGL. Kindly accept 25% of the quoted quantity for BQC. How many compressors for 8000 hrs. have to be indicated</p>	<p>Tender terms prevail. Also refer supporting documents to be submitted by bidder against Sl. No. 3 of clause No. 3.1 (Page No. 6-7 of tender).</p>
90	<p>Clause No 5.2.1 (Pg. No 215 of 278) TYPE –1 FOR MOTHER STATION: WITH FIVE (5) BANK PRIORITY PANEL:</p> <p>Please confirm that priority panel should be 7 or 9 bank for 1200SCMH capacity.</p>	<p>9 Line priority panel shall be considered.</p>
91	<p>Please clarify regarding supporting documents towards confirmation from OEM regarding the period for Sl. No. 2(b) of Bidders Eligibility Criteria (Page No. 7)</p>	<p>It is clarified that the confirmation from OEM should also mention the responsibility and accountability for providing all the technical and other support to Authorized Supplier / Service Provider for executing the entire tender scope for a period till 6 months beyond contract tenure under this tender, similar to Sl. No. 2(a) above.</p>

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92	<p>Sr. No. 1.5 (Pg. No 2 of 3) PRICE SCHEDULE FOR INDIAN (DOMESTIC) BIDDERS: Installation, commissioning & Field performance test of Compressor Package including air compressor at site.</p> <p>Please note that, price to be quoted against these charges will be valid only if the compressor packages are installed, commissioned within one year from the date of supply. It is not possible for us to keep the rates valid for more than such duration.</p>	Tender terms prevail
93	<p>Sr. No. 1.6 (Pg. No 2 of 3) PRICE SCHEDULE FOR INDIAN (DOMESTIC) BIDDERS: Lump sum Annual operation, Repair & maintenance charges per Compressor Package including air compressor for 1st year warrantee period inclusive of all manpower, spare and lubricant, etc.</p> <p>Please note that, warrantee period required as per tender is 12 months from the date of commissioning or 24 months from the date of supply whichever occurs earlier. Considering this, the first year Annual operation, Repair & maintenance charges, will remain valid for a period of 24 months from the date of supply if the compressor package is not commissioned in 24 months from the date of supply. Therefore, price to be quoted against 1st year Annual operation, Repair & maintenance charges will remain valid for a period of one year from the date of supply and will not be valid for warrantee period.</p>	Tender condition prevails. However, in case the Testing, Commissioning and Field Performance Test could not be executed within 1 year from the date of supply at Store / Site due to reason directly attributable to the owner, reference zero date for start of warranty period shall be 1 year from the date of supply at Stores / Site i.e. warranty period shall start from (Date of supply at site / Stores + 1 year) and accordingly O&M charges shall be paid.
94	<p>Sr. No. 1.7 (Pg. No 2 of 3) PRICE SCHEDULE FOR INDIAN (DOMESTIC) BIDDERS: Lump sum Annual operation, Repair & maintenance charges per Compressor Package including air compressor for second year i.e. after first year of warranty period inclusive of all manpower, spare and lubricant, etc.</p>	Tender condition prevails. However, in case the Testing, Commissioning and Field Performance Test could not be executed within 1 year from the date of supply at Store / Site due to reason directly attributable to the owner, reference zero date

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	<p>Please note in case the Testing, Commissioning and Field Performance Test could not be executed within 1 year from the date of supply at Store / Site due to reason directly attributable to the owner, reference zero date for start of warranty period shall be 1 year from the date of supply at Stores / Site i.e. warranty period shall start from (Date of supply at site / Stores + 1 year).</p>	<p>for start of warranty period shall be 1 year from the date of supply at Stores / Site i.e. warranty period shall start from (Date of supply at site / Stores + 1 year) and accordingly O&M charges shall be paid.</p>
95	<p>Clause No 34.3 V & VI (Pg. No 32 of 278, 167 to 177 of 278) Lump sum Annual Operation & Maintenance charges for 9 years beyond one-year warranty period including manpower, oil, lubricant, consumables (excluding electric powers, CNG gas) and spares as required etc. Operation & Maintenance 1 year under warranty period and 9 more years. & Sr. No. 1.6 to 1.15 (Pg. No 2 of 3) PRICE SCHEDULE FOR INDIAN (DOMESTIC) BIDDERS: Lump sum Annual operation, Repair & maintenance charges per Compressor Package including air compressor.</p> <p>Regarding 10 years O & M period, we would like to highlight hindrance factors like; (a) Central minimum wages for Operation team: There are many occasions in last few years where minimum wages have been increased significantly which is beyond our control. (b) Cost of spares: price pattern of spares not know for such a long period. c)) Forex part: This is most vulnerable and variable part, which is affecting overall cost of O & M. This also have direct impact on spares. d) Aging of packages: age of package directly impacts the cost of spares due to uncertainty in running hours. e) Cost of maintenance team: Variable cost of skilled manpower, vehicle, cost of living and overheads. f) Back to back cost confirmation for OEM services not available for such long period g) Hence it is very difficult to estimate the rising rate for a period of ten years.</p>	<p>Tender terms prevail</p>

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	Hence we request you to have O & M period for 5 years (including warranty period).	
96	<p>Clause No 3.2.1 (Pg. No 8) The Bidder must have achieved a minimum turnover of Rs.80 Crores / USD 1.16 Crores in any one of the last 3 (three) audited financial years i.e. 2016-17, 2017- 18 and 2018-19.</p> <p>We request you to relax the financial qualification criteria, so that we can get the opportunity to bid for this requirement. As on date only 2 OEM's shall be able to match this financial criterion. We can provide the same reference as earlier of the GGL ARC tender, where no such financial qualifying criteria is mentioned.</p>	Tender terms prevail
97	<p>Clause No 12.1 (Pg. No 43) Within 15 days after the SELLER's receipt of notification of award of the CONTRACT, the SELLER shall furnish Performance Guarantee in the form of Bank Guarantee/irrevocable Letter of Credit to the PURCHASER</p> <p>Clause No 24.1 (Pg. No 81) The CONTRACTOR shall furnish to the EMPLOYER, within 15 days from the date of notification of award, a security in the sum of 10% of the accepted value of the tender or the actual value of work to be done whichever is applicable due to any additional work or any other reasons, in the form of a Bank draft/Banker's cheque or Bank Guarantee</p> <p>We understand that both clauses imply the same performance security and that only Contract Performance Security needs to be provided at the time of NOA</p>	Bidder understanding is correct.
98	<p>Clause No 15.2 (c) (Pg. No 47 of 278) In case of FOT site (for Indian bidders) on receipt of goods by PURCHASER at the designated site(s).</p> <p>In case of site is not ready, delivery shall be considered at MNGE designated store in Pune, Nashik, RAMANAGARA GA & SINDHUDURG.</p>	Please refer Cl. No. 1.1 of special conditions of contract (Pg. No. 179).

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99	<p>Clause No 16 (Pg. No 48 of 278) Indigenous Bidders: Transit risk insurance till FOT Site shall be arranged and borne by Bidder.</p> <p>If compressor packages are delivered at MNGL store in Pune, Nashik, RAMANAGARA GA & SINDHUDURG and re-transportation of the same from store to site is not done within one year from the date of supply of respective compressor package, transit risk will not be in our scope. Please note that, it is not possible for us to keep the rates to be quoted valid for such a long duration.</p>	Tender terms prevail
100	<p>Clause No 20.1 (Pg. No 50, 106, 163 & 195 of 278; Page 195 of 278) If any trouble or defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time prior to twelve (12) months from the date of the first commercial operation of the Plant for which the materials supplied under the Contract form a part thereof, or twenty four (24) SELLER is notified thereof, SELLER shall, at his own expense and as promptly as possible, make such alterations....</p> <p>Warranty period shall be 12 months from the date of commissioning or 24 months from the date of supply whichever occurs earlier. Warranty period shall not be counted from the date of commercial operation. There may be possibility that, compressor package is commissioned however commercial operation has not started due to reasons not attributable to us.</p> <p>Kindly refer Clause mentioned in Sl. No. 21) on Page 163 of 278. In this clause, warranty is asked for 1 year after installation, commissioning and performance test at site which is not acceptable to us.</p>	Please refer Cl. No. 20.0 (III) (Pg. No. 194) of special conditions for warranty. However in case the Testing, Commissioning and Field Performance Test could not be executed within 1 year from the date of supply at Store / Site due to reason directly attributable to the owner, reference zero date for start of warranty period shall be 1 year from the date of supply at Stores / Site i.e. warranty period shall start from (Date of supply at site / Stores + 1 year).
101	<p>Clause No 1.1 (Pg. No 179 of 278) This enquiry envisages total responsibility for complete work from.... goods at all stages, loading and unloading facilities at designated storage of client, re-transportation</p>	Tender terms prevail

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	<p>of the package from the store to the actual site/ station including transit insurance,prior to start of work at sites till the time of installation, testing....</p> <p>Compressor packages will be dispatched at specified location. Further loading, re-transportation, unloading from the storage to site is excluded from our scope of supply.</p>	
102	<p>Clause No 3.0 (Pg. No 184 of 278) 3.1. FOR SUPPLIES Payment terms Please accept following payment terms: 90% against readiness of package at works (duly approved by TPI), covered by confirmed LC for 100% value.10% against commissioning at site or within 30 days, LC should have partial withdrawal facility. We request that payment towards supply of Compressor Package be released through Inland letter of credit for Indian bidders, as it reduces payment cycle time. This shall help us to offer better price as we are able to negotiate better prices with vendors.</p>	Tender terms prevail
103	<p>Clause No 3.1.1(B) & 3.1.3 (Pg. No 186-187) bank guarantee of the said amount to remain valid for a period of 1 year after completion of 90 days; i.e. 15 months from the date of FOT site (actual)</p> <p>Validity of bank guarantee will be 15 months from the date of supply on FOT site basis provided the packages are supplied by us directly to site from our works. If the packages are supplied to MNGL store in respective GA's from our works, then the validity of bank guarantee will be 15 months from the date of supply on FOT MNGL GA store basis.</p>	Accepted. In both cases, either FOT at site or MNGL GA stores, validity of BG will be 15 months only.
104	<p>Clause No 5.0 (Pg. No 188 of 278) The Indemnity Bond shall be valid from the date of receipt of 1st consignment at site & remain valid up to 06 (six) months from date of the receipt of last consignment at site.</p> <p>If packages are dispatched to MNGL store, validity shall be counted from the date of receipt of consignment at MNGL store.</p>	Bidder understanding is correct.

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105	<p>Clause No 20 (Pg. No 194) Design, Engineering, Testing, Supply (FOT Site basis) Including packaging forwarding, transportation, Custom clearance etc.</p> <p>We request to consider 6 to 7 months for foreign OEM's for the initial 5 compressors.</p>	Tender term prevails
106	<p>Clause No 20.1 (Pg. No 194 of 278) Schedule for Supply: Delivery order shall be released by MNGL in quantities required as per our target and plan.</p> <p>Please mention planned quantity in lots to enable us to plan our resources accordingly.</p>	Bidder has to supply package as and when ordered within delivery period as per tender. Delivery orders shall be issued during the contract period as per project requirement.
107	<p>Clause no. 23 (Pg. No.196 of 278) In case of Annual Rate Contract (ARC), MNGL reserves the right to place a repeat order within six months of expiry of rate contract up to 50% of ARC quantities on same rates, terms and conditions.</p> <p>This clause is acceptable to us provided the repeat order will be placed within the expiry of Annual Rate Contract. Please note that, it is not possible for us to keep the rates to be quoted valid for such a long duration.</p>	Clause No. 23.0 (Repeat Order) is modified as under: MNGL reserves the right to place a repeat order during the contract period including extension period of 1 year up to 50% of ARC quantities on same rates, terms and conditions.
108	<p>Clause no. 24 (Pg. No 196 of 278) The period of contract will be for 1 (One) year from the date of PO. The contract may be extended for further period of 1 (One) Year at the same rates, terms and conditions at the sole discretion of MNGL.</p> <p>Please note that, it is not possible to keep the rates to be quoted valid for such a long duration.</p>	Tender terms prevail
109	<p>Clause no 1.6 (Pg. No 201 of 278) O&M during 4 year post warrantee period (second, third, fourth, five year) charges with spares, consumables, man power and lubricants after warrantee period of one year</p> <p>With reference to SOR, we request you to keep O & M duration for 4 years post warrantees period.</p>	Please read as 9 years instead of 4 as it is typo grammatical error in clause no. 1.6.

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110	<p>Clause No 6.4.1 (Pg. No 220) The PT shall be conducted only after 30 days' running of the machine after successful commissioning or after 30 days from the date of commercial operation, but not later than 90 days from the date of commercial operation of the machine. The delay in conducting PT beyond 90 days shall be liable for PRS unless such delays are solely attributable to the owner (i.e., due to inadequate availability of CNG vehicles for conducting PT).</p> <p>PT should be conducted as early as possible and not necessarily after 30 days from successful commissioning, as there will be no basis for delaying the PT when the compressor packages are successfully commissioned.</p>	Tender terms prevail
111	<p>Clause No 13 (Pg. No 232 of 278) O&M charge for operation and maintenance of the compressor from the date of commercial operation up to the date of performance test as part payment against O&M....</p> <p>O&M charges for operation and maintenance of the compressor shall be paid from the date of commissioning and not from the date of commercial operation. Please note that, we have to depute our team of O&M personnel from the date of commissioning and not from the date of commercial operation.</p>	Tender terms prevail
112	<p>Clause No 13 (Pg. No. 232) The date of successful performance test at site (which shall be conducted within 90 days from the date of successful commissioning of the machine or from the date of commercial operation) will be considered as date of start of the annual maintenance contract. However, bidder shall be paid only 50% of O&M charge for operation and maintenance of the compressor from the date of commercial operation up to the date of performance test as part payment against O&M till the capacity and other guaranteed parameters of the package is established through PG test. The balance 50% of O&M charge (from the date of commercial operation up to the date of PG test)</p>	Tender terms prevail. Also refer reply to SI. No. 93 above.

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	<p>shall be released to the bidder subsequent to successful PG test (i.e. after establishing all the guaranteed parameters as per tender). Further, in case the PT is not successful, the balance 50% shall be forfeited in addition to provision of Cl. 7.2.2 and 7.2.3 of Section-VII.</p> <p>The O&M rate should be applicable for that particular year in which compressor is commissioned reference to date of invoice.</p>	
113	<p>Clause No 13.14.2 & 3 (Pg. No 236 of 278) O&M Scope of supply and service</p> <p>Please clarify that in case O&M for any package does not start / gets interrupted then the time elapsed shall be counted as part of the O&M period of the respective year.</p>	<p>It is clarified that in case O&M for any package does not start / gets interrupted on account of delay attributable to owner, then the time elapsed shall be counted as part of the O&M period of the respective year. Also refer reply to Sl. No. 93 above for start of warranty period.</p>

Please submit the signed & stamped copy of Corrigendum - I & Reply to bidders queries along with tender document with your techno-commercial offer as a token of acceptance.

All the others terms and conditions of the bid documents are unchanged.

With regards.

Ganesh Said
Sr. Manager (C&P)