

REPLY TO PRE-BID QUERIES
TO
BIDDING DOCUMENT

BIDDING DOCUMENT NO. : 05/51/Q7UC/CUGL/031-02

E-TENDER NO./GEM BID NO. : 55156

SUBJECT OF BIDDING DOCUMENT : PROCUREMENT OF 1200 SCMH GAS ENGINE DRIVEN RECIPROCATING CNG COMPRESSORS

Sr. No.	Volume / Section / Clause No.	Page No.	Clause Description	Bidder's Query	Reply to Bidder's Query
1.	IFB 2.0 D VOL I		Type and duration of contract : • Rates quoted will be firm and fixed for the entire duration of the contract. • Delivery: All the 12 nos. compressors shall be delivered within 18 weeks from the first notification of award in single lot • Installation, Testing & Commissioning: Within 2 weeks from date of letter of separate intimation.	Type and duration of contract : • Rates quoted will be firm and fixed for the entire duration of the contract. • Delivery: All the 12 nos. compressors shall be delivered within 22 weeks from the first notification of award in single lot • Installation, Testing & Commissioning: Within 2 weeks from date of letter of separate intimation.	Tender Condition Prevails
2.	IFB 2.0 D VOL I / Sec VI Price Scdule		• Operation & Comprehensive Maintenance: The duration for comprehensive maintenance & operation shall be six (6) years. Comprehensive maintenance for 1st year shall be included under warranty period.	Kindly give option for quoting 1st year maintenance under warranty instead of including same during warranty period. Being comprehensive contract, there is cost involvement hence the request.	Tender Condition Prevails
3.	ITB SEC III BDS 38		Contract Performance Bank Quarantee	We shall submit 3% C-PBG separately for Supply portion & CAMC Portion as per tender. However, C-PBG for CAMC shall be submitted after	Tender Condition Prevails

				commencement of services / compressor on yearly basis. Kindly accept.	
4.	GCC 16 / 17 VOL I		Transit Risk Insurance	Transit Insurance will be applicable & terminate once goods are unloaded at CUGL Site / Stores. No other insurance is applicable for the bidder like for storage of equipment at site / stores., theft, fire, damage etc. Ward & Watch, Storage of equipment at site / stores is not part of scope of bidder. Bidder shall be relieved of the responsibility once equipment is unloaded at site / stores.	Tender Condition Prevails
5.	GCC 16 / 17 VOL I		Transportation & Insurance ⁷	Equipment will be transported to destination as advised by Purchaser in the despatch clearance. Unloading at site shall be one time activity in scope of bidder either at site or stores. Transportation of equipment between sites or from stores to site and related loading & unloading is not included in scope of bidder. This will be additionally charged in case CUGL wants to get the job done from bidder. Or else kindly give option for quoting RE-TRANSPORTATION rates in the SOR. Transit Insurance will be applicable & terminate once goods are unloaded at Site / Stores. No other insurance is applicable for the bidder like for storage of equipment at site / stores., theft, fire, damage etc. Ward & Watch, Storage of equipment at CUGL site / stores is not part of scope of bidder. Bidder shall be relieved of the responsibility once	Re-transportation is included in SOR Item hence Tender Condition Prevails

				equipment is unloaded at site / stores.	
6.	GCC 20		Guarantee	If any trouble or defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time during twelve(12) months from the date of Commissioning of individual equipment or Eighteen (18) months from the date of Invoice of individual equipment, whichever period shall first expire, and the Supplier is notified thereof, Supplier shall, at his own expense and as promptly as possible, make such alterations, repairs and replacements as may necessary to permit the materials to function in accordance with the specifications and to fulfil the foregoing guarantees. However, in no case, warranty of repaired/replaced part shall exceed 18 months from the date of commissioning of original equipment or 12 months from date of supply of individual equipment, whichever is earlier.	Tender Condition Prevails
7.	GCC 23 & 37 & SCC 74 / VOL II - 13.5		23.1 The Supplier shall not without previous consent in writing of the Purchaser authority, sublet, transfer or assign the Contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided, nevertheless, that any such consent shall not relieve the Supplier from any obligation, duty	We understand that subletting of contract to be allowed for existing contractor proposed by us or new contractor with request letter to Purchaser	Tender Condition Prevails

			<p>or responsibility under the Contract.</p> <p>SCC 65 SUB-LETTING OF WORKS</p> <p>"The contractor shall not, save with previous consent in writing of the Engineer-in-charge, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided, nevertheless, that any such consent shall not relieve the contractor from any obligation, duty or responsibility under the contract. However, subletting of WHOLE WORKS is prohibited. Vendor/ Contractor shall submit undertaking to this effect along with each invoice/ bill."</p>		
8.	GCC 26 / SCC 26		<p>PRICE REDUCTION SCHEDULE (PRS)</p>	<p>PRS shall be applicable only for the supply of goods. PRS clause on combined Supply + Services as per clause B is not acceptable. Only Cl. A shall be applicable and modify clause as under - For order of supply of Goods/Equipment/Package :: In case of delay in delivery of equipment/materials or delay in completion, PRS shall be applicable ½ % (half percent) of the order value per complete week of delay or part thereof subject to a maximum of 5% (five percent) of the INDIVIDUAL SUPPLY INVOICE VALUE OR ON THE UNDELIVERED SUPPLY PORTION QTY whichever is lower.</p>	Tender Condition Prevails

9.	GCC 35		35. PERMITS & CERTIFICATES	All applicable permits / certification / licenses etc and related documentation thereof, apart from those related to the goods / equipment supplied, shall not be in scope of bidder.	
10.	GCC 29		Force Majeure	Kindly include Covid impact under force majeure	Tender Condition Prevails
11.	SCC 40		Insurance	Equipment will be transported to destination as advised by Purchaser in the despatch clearance. Unloading at site shall be one time activity in scope of bidder either at site or stores. Transportation of equipment between sites or from stores to site and related loading & unloading is not included in scope of bidder. This will be additionally charged in case Purchaser wants to get the job done from bidder. Or else kindly give option for quoting RE-TRANSPORTATION rates in the SOR. Transit Insurance will be applicable & terminate once goods are unloaded at Site / Stores. No other insurance is applicable for the bidder like for storage of equipment at site / stores., theft, fire, damage etc. Ward & Watch, Storage of equipment at site / stores is not part of scope of bidder. Bidder shall be relieved of the responsibility once equipment is unloaded at site / stores.	Tender Condition Prevails (The item for RE-TRANSPORTATION in included in Item no.1.1)
12.	SCC 31		DEFECT LIABILITY PERIOD	SUPPLIER shall guarantee the installation/WORKS SUPPLIER shall guarantee the installation/WORK at any	Tender Condition Prevails

				time during twelve(12) months from the date of Commissioning of individual equipment or Eighteen (18) months from the date of Invoice of individual equipment, whichever period shall first expire.	
13.	SCC 49		STORAGE AND PRESERVATION	Transit Insurance will be applicable & terminate once goods are unloaded at Site / Stores. No other insurance is applicable for the bidder like for storage of equipment at site / stores., theft, fire, damage etc. Ward & Watch, Storage of equipment at site / stores is not part of scope of bidder. Bidder shall be relieved of the responsibility once equipment is unloaded at site / stores.	Tender Condition Prevails
14.	SPECIAL CONDITION OF CONTRACT		PAYMENT TERMS PAYMENT TERMS & MODE OF PAYMENT [APPENDIX – I TO SPECIAL CONDITION OF CONTRACT]	90 % of supply value as applicable will be paid by Owner within 30 days against receipt and acceptance of material at site & submission of the following documents: - i. Invoice in triplicate (As per GST Act/ Rules) ii. Inspection Certificate cum Release note issued by inspection agency iii. GR/ LR iv. Packing List v. Insurance cover note covering transit insurance vi. A certificate from manufacturer that the all items/ equipment under supply including its component or raw material used with	Refer Technical Corrigendum#1

				<p>manufacturing are new and conform to the tender requirement. In case manufacturer is not the contractor this certificate will duly be endorsed by the contractor owning overall responsibility.</p> <p>vii. Copy of Performance Bank Guarantee(s) of appropriate value (as per order) as already submitted by supplier.</p> <p>viii. In case of delay in receipt of material at site the invoice value shall be reduced to take care of stipulation of PRS clause of the contract., Balance 10% payment of the supplied portion will be paid within 30 days after successful Erection, Testing, and commissioning of the units at site & final acceptance by CUGL.</p> <p>However, if either of installation, erection, commissioning, testing at site & final acceptance is not done within 60 days after delivery, The 10% balance payment against erection, testing and commissioning shall be released to the bidder subject to submission of an undertaking that the bidder will mobilize the team to complete erection testing and commissioning within 7 days from the date of intimation of EIC. If required, bidder shall submit BG of equivalent 10% value to mobilize the payment.</p>	
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15.	SPECIAL CONDITION OF CONTRACT	<p>1.1 FOR SUPPLIES</p> <p>Payments shall be released by the Owner against pre-receipted invoice, submission of a copy of valid performance guarantee and other documents complete in all respect meeting the requirement of contract document as per following:</p> <p>1.1.1: A) 85% of supply value including string test as applicable will be paid progressively by Owner against receipt of material/ equipment at site & submission of the following documents: -</p> <p>i) Invoice in triplicate (As per GST Act/ Rules)</p> <p>ii) Inspection Release note issued by inspection agency appointed by Owner.</p> <p>iii) GR/ LR</p> <p>iv) Packing List</p> <p>v) Insurance cover note covering transit insurance</p> <p>vi) A certificate from manufacturer that the all items/ equipment under supply including its component or raw material used with manufacturing are new and conform to the tender requirement. In case manufacturer is not the contractor this certificate will duly be endorsed by the contractor owning overall responsibility.</p> <p>vii) Final technical file as per Technical Specifications/ Material Requisition including all test</p>	<p>PAYMENT TERMS</p> <p>90 % of supply value as applicable will be paid by Owner within 30 days against receipt and acceptance of material at site & submission of the following documents: -</p> <p>i. Invoice in triplicate (As per GST Act/ Rules)</p> <p>ii. Inspection Certificate cum Release note issued by inspection agency</p> <p>iii. GR/ LR</p> <p>iv. Packing List</p> <p>v. Insurance cover note covering transit insurance</p> <p>vi. A certificate from manufacturer that the all items/ equipment under supply including its component or raw material used with manufacturing are new and conform to the tender requirement. In case manufacturer is not the contractor this certificate will duly be endorsed by the contractor owning overall responsibility.</p> <p>vii. Copy of Performance Bank Guarantee(s) of appropriate value (as per order) as already submitted by supplier.</p> <p>viii. In case of delay in receipt of material at site the invoice value shall be reduced to take care of stipulation of PRS clause of the contract., Balance 10% payment of the supplied portion will be paid within 30 days after successful Erection, Testing, and commissioning of the units at site &</p>	Refer Technical Corrigendum#1
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		<p>certificates, if applicable viii) A copy of legal Indemnity bond for the value of delivered items. (Which will be valid till equipment is installed & commissioned and taken over by Owner at site).</p> <p>ix) Copy of Performance Bank Guarantee(s), as already submitted by supplier.</p> <p>x) In case of delay in receipt of material at site the invoice value shall be reduced to take care of stipulation of PRS clause of the contract.</p> <p>B) 5% payment: On Installation, testing, commissioning of each compressor unit, all other works & final acceptance by the owner and submission following additional document: -</p> <ul style="list-style-type: none"> • Acceptance certificate • Clearance from ESIC, PF and labour authority, if applicable • Work completion certificate • GST assessment certificate, If applicable • No claim certificates <p>C) 10 % payment on further Testing and successful performance acceptance test PG (PT) test However, if the PG test (PT)is not successful (as per guaranteed parameters defined in the tender), the provision of clause no. 7 & 13 pertaining to Loading, Compensation & Penalty Criteria of Technical</p>	<p>final acceptance by CUGL. However, if either of installation, erection, commissioning, testing at site & final acceptance is not done within 60 days after delivery, The 10% balance payment against erection, testing and commissioning shall be released to the bidder subject to submission of an undertaking that the bidder will mobilize the team to complete erection testing and commissioning within 7 days from the date of intimation of EIC. If required, bidder shall submit BG of equivalent 10% value to mobilize the payment.</p>	
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			<p>Specification (Vol.-II) shall apply. In case of delay in erection and commissioning, the invoice value shall be reduced to take care of PRS clause.</p> <p>1.1.2 In case the Testing and PG/Field Performance Test could not be executed within 90 days from the date of completion of Erection and commissioning due to reason directly attributable to the owner.</p> <p>OR</p> <p>Installation/ Erection could not be completed within 105 days from the date of delivery of material at site due to reasons directly attributable to the owner; the balance 10% of supply value as per 1.1.1 (B) shall be payable after deduction against PRS clause, if any.</p>		
16.	<p>PAYMENT TERMS & MODE OF PAYMENT [APPENDIX – I TO SPECIAL CONDITION OF CONTRACT]</p>		<p>1.2 / 1.3 Terms of Payment for Erection/Commissioning/PG test</p>	<p>To be read in conjunction with 60 days as per above deviation. The O&M rates applicable shall be applicable for the particular year in which the Compressor gets commissioned., for e.g. if a compressor commissioning is delayed and is commissioned in the second year from date of supply, then the O&M applicable rates will be for the second year.</p>	<p>Tender Condition Prevails</p>
17.	<p>Vol II Cl. No. 7.3.1</p>		<p>Penalty towards Excess Package Gas Loss: During the O&M period, cost towards excess gas loss beyond the quoted figure shall</p>	<p>The value of ' G ' shall be combination of below conditions: (1) The value of ' G ' for vent loss shall be taken from the vent mass flowmeter. As per compressor design logic venting</p>	<p>Tender Condition Prevails</p>

			<p>be deducted from O&M bills. Following calculations shall be used for deduction towards excess gas loss: $F = 1.2 \times [(G - (Q \times D)) \times H]$ Where, F = Penalty in Rupees to be deducted from O&M bill G = Monthly Vent/Leakage loss observed during O&M period in Kg Q = Vent / Leakage loss quoted in percentage H = Cost of Natural Gas per Kg @ Rs. 48/- per kg D = Production of CNG during the month in Kg (discharge meter) Considering G above shall be taken as (Suction Reading – Discharge Reading – Engine Fuel Consumption Reading of Mass Flowmeters) OR Reading from Vent Mass Flow Meter, whichever is higher.</p>	<p>is only possible through rod packing seals and our block being of pressurized crankcase design, there is no vent loss during compression. Hence vent mass flow meter is not applicable for us but same shall be applicable for bidder's offering block with non-pressurized crankcase. (2) The value of ' G ' for leakage: The individual mass flowmeter comes with batch accuracy of +/-0.5%. Hence instrument accuracy as indicated by OEM i.e +/-0.5% per mass flowmeter to be considered.</p>	
18.	Vol II Cl. No. 7.3.2		<p>Penalty towards Excess Engine Fuel Consumption: During the O&M period, cost towards excess fuel consumption beyond quoted figure shall be deducted from O&M bills. Following calculations shall be used for deduction towards excess fuel consumption. $F = 1.2 \times [(G - Q) \times H]$ Where, F = Monthly Penalty in Rs. To be deducted from O&M bills G = Monthly Actual Gas consumption in Kg</p>	<p>Machine is subjected to intermittent start / stops based on the load at station. The gas density varies throughout the month and instrument batch accuracy as indicated by MFM - OEM i.e +/-0.5% per mass flowmeter to be considered. Hence establishing the variations in fuel consumption figures than the quoted consumptions need consistency of above three factors. Accordingly, we suggest on monthly basis bidders should demonstrate the actual fuel figures during operation & same should be compared with quoted figure to impose</p>	Tender Condition Prevails

			<p>Q = Guaranteed consumption rate quoted by supplier x CNG produced during the month</p> <p>H = Cost of Natural Gas per Kg @ Rs. 48/- per kg</p>	penalty.	
19.	Vol II Cl. No. 7.3.3		<p>B. Penalty towards Package Efficiency Loss</p> <p>Following calculations shall be used for penalty towards package efficiency loss:</p> $F = 5 \times \{(250 \times H \times RD \times AD) - M\}$ <p>Where,</p> <p>F = Penalty Amount in Rupees</p> <p>H = Package running hours in a month</p> <p>RD = Average RD for the month using GC Data</p> <p>AD = Air Density = 1.22541</p> <p>M = Discharge mass flow during the month in Kgs</p> <p>Note:</p> <p>a. Package Inlet Pressure at PLC shall be used as benchmark for imposition of penalties.</p> <p>b. Pressure regulator shall not be used to reduce the pressure at the compressor block inlet below 16 Kg/Cm².</p> <p>c. In case pipeline pressure at the station itself is less than 16 Kg/Cm², then the penalty shall be imposed if the package delivery falls below discharge values corresponding to the Compressor's pressure curve, supplied at the time of</p>	<p>For penalty towards package efficiency loss, only the operational load hours of the m/c to be considered for calculating capacity. Formula for e.g., Total hours - Unloading hours = Loaded hours.</p> <p>OR</p> <p>Maximum efficiency of the package to be considered as 98% due to frequent start stop of the m/c which is a common feature at CNG stations occurring due to load conditions. None of the Compressors are designed to start / stop immediately on load condition for safe operatipn. Also, during unloading conditions, compressors cannot deliver capacity. Hence, maximum efficiency of the package to be considered as 98%. The suction pressure at Compressor package inlet PT shall be considered for calculating flow, power & efficiency.</p>	Tender Condition Prevails

			bid submission only.		
20.	Vol II Cl. No. 7.3.4 (a)		<p>Penalty for Non-Performance during Period of Operation & Maintenance Details of Penalty for non-performance of equipment</p> <p>a. On normal day (i.e. the day other than the schedule maintenance day):</p> <p>i. The party has to ensure that the equipment is available for operation for minimum 20 hours per day and on an average the equipment availability has to be 98% in a month.</p> <p>ii.If the equipment is down for more than 4 hours on any day or availability is less than 98% in a month. Penalty would be applicable as follows:</p> <ul style="list-style-type: none"> ▪ Upto 4 hours: Nil ▪ 4 hours to 12 hours: Rs. 10,000/- per day ▪ 12 hours to 24 hours: Rs. 15,000/- per day ▪ More than 24 to 72 hours – 25,000/- per day <p>iii. In case there is a continuous breakdown beyond 72 hours up to 15 days, 50% of monthly maintenance charges excluding operational part will be deducted.</p> <p>iv. In case there is a continuous breakdown beyond 15 days, which is</p>	<p>Maximum penalty of 50% will be acceptable & applicable only on maintenance charges including breakdown beyond 15 days, Efficiency, Package fuel consumption & gas loss if any.</p> <p>CUGL shall release operation charges without any deduction. max.penalties should be 50% including Gas loss,Fuel consumption,Effeceincy and breakdown</p>	Tender Condition Prevails

			<p>not in the control of the contactor, no maintenance charges will be paid. Only operation charges may be payable on sole discretion of EIC.</p> <p>v. In case there is a continuous breakdown beyond 30 days of a calendar month, Entire Monthly Maintenance and operation charges shall be deducted.</p> <p>vi. In case of daily availability is 20 hrs. but monthly average availability is below 98%. Then penalty @ of Rs. 10,000 per % or part thereof shall be applicable.</p>		
21.	Vol II Cl. No. 7.3.4 (b)		<p>On schedule maintenance day (excluding periodic major overhaul of compressor/ engine):</p> <p>i. If the equipment is down for beyond the time indicated for the agreed schedule maintenance, the party would be penalized as per follows:</p> <ul style="list-style-type: none"> ▪ Upto 4 hours: Nil ▪ 4 hours to 12 hours: Rs. 10,000/- per day ▪ 12 hours to 24 hours: Rs. 15,000/- per day ▪ More than 24 to 72 hours: Rs. 25,000/- per day <p>ii. In case there is a continuous breakdown beyond 72 hours up to 15</p>	<p>Maximum penalty of 50% will be acceptable & applicable only on maintenance charges including breakdown beyond 15 days, Efficiency, Package fuel consumption & gas loss if any.</p> <p>CUGL shall release operation charges without any deduction. max.penalties should be 50% including Gas loss,Fuel consumption,Effeceincy and breakdown</p>	Tender Condition Prevails

			<p>days of a calendar month, 50% of monthly maintenance charges excluding operational part will be deducted.</p> <p>iii. In case there is a continuous breakdown beyond 30 days of a calendar month, Entire Monthly Maintenance and operation charges shall be deducted.</p>		
22.	Vol II 13		<p>OPERATION & MAINTENANCE SERVICES</p> <p>The date of successful performance test (PT) at site (which shall be conducted within 90 days from the date of successful commissioning of the machine) 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 upto the date of performance test as part payment against O&M till the capacity and other guaranteed parameters of the package is established through PT. The balance 50% of O&M charge (from the date of commercial operation upto the date of</p> <p>PG test) shall be released to the bidder subsequent to successful PT (ie, after establishing all the guaranteed parameters as per tender) In case the PT is not successful, the balance 50%</p>	Request site acceptance test (PT) to be conducted immediately after commissioning of equipment is completed. max.penalties should be 50% including Gas loss, Fuel consumption, Effeceincy and breakdown	Tender Condition Prevails

			shall be forfeited in addition to provision of cl. 7.3.4 of this Section. The bidder must follow the 'OPERATION & MAINTENANCE REQUIREMENT' as stated below but not limited to and ensure to provide trouble free services to the satisfaction of the owner		
23.	Vol I Payment terms C / Vol II - 13		O&M Payment terms / Package performance test / Operation & Maintenance services	The O&M rates applicable shall be applicable for the particular year in which the Compressor gets commissioned., for e.g. if a compressor commissioning is delayed and is commissioned in the second year from date of supply,, then the O&M applicable rates will be for the second year.	Tender Condition Prevails
24.	Vol II CI No. 7		Compressor Capacity for 1200 SCM/H & 600 SCM/H	We understand that the guaranteed suction pressure is 16 kg/cm ² g. Kindly confirm.	Bidder understanding is correct (<i>The said tender is for 1200 SCM/H flow capacity</i>)
25.	Vol II CI No. 10		FIELD TRIAL RUN (Commissioning and Commercial Operation)	Kindly accept field trial run for only Four (4) hours continuous or on cumulative basis. if load is not available at site intermittent running for 4 hours shall be permitted.	Tender Condition Prevails.
26.	4.8.2		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 47°C and 90% RH shall be considered. Cooler design shall be on	The approach would be above ambient temperature 10°C. (max. ambient temp. 42°C + 10°C = 52°C). The Gas cooler design shall be such that suitable to the application as per manufacturers design. Gas coolers of the design shall be designed as per ASME-SEC-VIII, as per manufactures standard design	Tender Condition Prevails (<i>Please refer clause no. 4.8.2 of relevant tender</i>)

			<p>the basis of 20% excess capacity than required corresponding to suction pressure of 19 kg/cm². Gas sections of coolers shall be designed as per API-11P requirements and shall be inspected by any approved 3rd party inspection agency. The Gas and water sections shall not be “U” code stamped but TPI inspected. For cooling of the Heat Exchangers a cooling fans to be provided inside the enclosure(s). Cooling system shall be preferably installed on the same skid as the compressor due to space constraints. Bidder shall submit cooler sizing calculation for review/ records.</p>	<p>approach same is proven for earlier supplied packages. - Cooler sizing calculation is proprietary, so not feasible to submit..</p>	
27.	6.2.		<p>Mechanical running test (MRT) The MRT for the each compressors 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 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"> - Vibration levels measured on cylinders and frame - Bearing temperature - Oil cooler inlet and outlet temp - Sound level <p>Subsequent to satisfactory run the compressor shall be examined as per</p>	<p>MRT will be carried out as per manufacturer's standard procedures. Reports shall be presented for review to Purchaser / Consultant / TPIA during final String Test of the Complete Package.</p>	Tender Condition Prevails

			<p>standard procedure & following shall be examined as minimum: Internal Inspection certificate for strip test after no-load run of compressor is to be submitted for review of client /consultant.</p> <p>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</p> <p>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. All the interlocking and performance of the instrumentation system will be verified during the MRT.</p>		
28.	1.6		<p>Gas meter (3 nos.): Mass flow meter (with integral local display to measure gas flow at package inlet , fuel consumption at gas engine inlet& package discharge) based on Coriolis principle and as per AGA- 11. While installing special care shall be taken to isolate the mass flow meter from piping vibration. Additionally, Thermal type mass flow meter to be provided to measure package gas loss/vent.</p>	Compressor design being a pressurized crankcase, there will be no gas loss through vent, considering the same Vent Mass flow meter not considered, kindly accept.	Tender Condition Prevails

29.	1.6		Common structural steel skid for the compressor- gas engine and for all auxiliary systems	All auxiliaries like PRS Skid (suction filter, PRV+SSV), CO2 system, Air compressor, etc will be supplied loose & to mounted apart from package.	Noted
30.	1.6		Each stage outlet temperature before cooler & after cooler to be displayed on PLC.	Each stage outlet temperature before cooler & after cooler to be displayed on PLC.	Tender Condition Prevails
31.	1.6		Gas flow directions to be marked “Gas In/ Gas out “with cylinder stage No. on all the inlet outlet tubes inside compressor package	Arrow mark will be provided for flow directions, Cylinder stage number is not feasible to be provided due to smaller tube size.	Noted but cylinder stage No. to be provided
32.	1.6		PLC shall be configured as a remote terminal unit of supervisory computer and data acquisition systems complete with dial up connectivity. One card for transferring data from minimum devices with RS 485 port shall be provided. The necessary communication protocol and other associated details shall be incorporated into the tender and shall be in the scope of bidder. Data shall be made available to purchaser on web portal and all necessary hardware & software shall be in the scope of bidder	SCADA port is provided. SCADA is not considered in bidder's scope. Ethernet port is provided for customer SCADA communication. SCADA compatibility is provided for remote monitoring. We shall supply one additional TASm2m - Gateway for GPRS/SCADA connectivity. Sim card required for activation & monthly SIM charges shall be arranged by IGL. One port is provided for remote monitoring and providing ethernet port for laptop access.	SCADA is not in bidder's scope; however, providing the PLC data to SCADA/ RTU through desired port and the providing Modbus TCP/IP register mapping details as required are in bidder's scope. Rest tender condition prevails.
33.	1.6		Shed of appropriate size for safeguarding of the air compressor and other associated accessories shall be in scope of the bidder.	Shed will be in scope of CUGL. Same to be constructed by CUGL during site civil work.	Tender Condition Prevails
34.	1.6		At Site, package PLC panel shall be covered with sufficient external canopy/shed for prevention of PLC and compressor operator from rain/sunlight	Shed will be in scope of CUGL. Same to be constructed by CUGL during site civil work	Tender Condition Prevails

			suitable sitting arrangement and space for keeping the documents. The size of the canopy shall be as per the instruction of the EIC only. The same shall be complied within 30 days from successful commissioning of the package.		
35.	1.6		Following documents shall be submitted by the successful bidder Pressure vessel thickness calculations to be submitted.	Will be as per Manufacturer's Proprietary Design Standards and limited to as per industry norms. Design calculations are not feasible to be provided.	Tender Condition Prevails
36.	1.6		All exposed rotating parts shall be provided with adequate guards of non-sparking type.	Adequate protection as per manufacturer's standards shall be provided.	Tender Condition Prevails
37.	2.1.2		Air compressor of capacity approx 7.5 kW preferably of IR/KPCL/Elgi/CP make of approx 16 kg/cm ² (g) discharge pressure with PRV, and 1000 water litre capacity air receiver shall be supplied for each CNG compressor package for gas engine starting purpose. Air dryer suitable for automatic operation shall also be supplied along with all accessories. The air compressor motor& air dryer shall be flameproof and will be kept in CNG area. Piping, electrical and instrumentation cabling shall be in bidder's scope. Tapping in the 1000WL air receiver vessel shall be provided with NRV, PRV (If required) and isolation valve for CNG dispenser instrumentation line. Air receiver shall be provided	Suitable air compressor with discharge pressure 16 barg shall be provided along with all required accessories. Instrument & starting air provision as per OEM standard, desired pressure will set at receiver. For clarification purposes, we'd like to inform that Since moisture is completely removed by the dryer, the dry air is stored in the Receiver which do not require auto drain arrangement as its already provided in dryer for draining the moisture.	Please refer clause no. 2.1.2 of relevant (CUGL) tender.

			with SRV (safety relief valve), pressure gauge and drains. Manual drains and automatic moisture traps/moisture separator cum regulator shall be provided in the system.		
38.	2.1.7		Bidder/Supplier shall arrange its own UPS supply for testing, installation, and commissioning of compressor-controlled circuitry. Supplying UPS of adequate rating along with battery back-up to be a part of bidder's scope.	We understand UPS is required for for testing purpose only & it's not include in scope of supply, kindly clarify.	Tender Condition Prevails
39.	2.2.4		As and where specified on the data sheets all vents (i.e. Relief valve, distance piece and packing) shall be manifolded and terminated at skid edge outside the enclosure and vented to safe height of 3 m at package roof.	Distance piece will be as per Manufacture's Proprietary Design Standards. Venting is not applicable due to pressurized crankcase.	Tender Condition Prevails
40.	2.2.5		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	We shall provide oil recovery vessel (oil drain pot) of 20 liters to ensure uninterrupted operation of machine. ORV shall be mounted inside the package. All drains terminated at single point for customer interface duly tapped with isolation valve	Noted
41.	4.9.1		Carbon Steel separators / KOD volume bottles with auto and manual drain system shall be provided for the capacity as required.	All the separators are with auto drain system rather than manual drain system specially considered for safety reasons. Only ORV with manual drain is considered. Drain system will be timer based as per Manufacture's Proprietary Design Standards offering. Automatic drain valves are provided in each stages, however providing Manual drain valve in pressurized gas system is safety hazard & can cause operational issues.	In case of proprietary design of the offered compressor, the same can be accepted subject to submission of PTR of the offered compressor

				Manual drain valve will only be provided for draining oil in depressurized circuit for draining oil when compressor is in stop condition. We have supplied compressor packages to various CGD companies Gail India, Gail Gas, Green Gas, MNGL, IGL etc. considering safety reasons with similar arrangements and have been successfully running without any O&M issues.	
42.	4.9.6		Carbon Steel separators / KOD volume bottles with auto and manual drain system shall be provided for the capacity as required.	All the separators are with auto drain system rather than manual drain system specially considered for safety reasons. Only ORV with manual drain is considered. Drain system will be timer based as per Manufacture's Proprietary Design Standards offering. Automatic drain valves are provided in each stages, however providing Manual drain valve in pressurized gas system is safety hazard & can cause operational issues. Manual drain valve will only be provided for draining oil in depressurized circuit for draining oil when compressor is in stop condition. We have supplied compressor packages to various CGD companies Gail India, Gail Gas, Green Gas, MNGL, IGL etc. considering safety reasons with similar arrangements and have been successfully running without any O&M issues.	In case of proprietary design of the offered compressor, the same can be accepted subject to submission of PTR of the offered compressor

43.	4.11.4		All the auxiliary equipment including the cooling fans shall be engine driven. Heat Exchanger / gas cooler fan shall have mechanical drive only and the same cannot be utilized as ventilation fan.	Gas cooler fan is hydraulically driven and hydraulic drive shall be engine driven. There is no separate electric or mechanical drive required.	Noted but hydraulic drive shall be engine driven.
44.	4.12.3		All the auxiliary equipment including the cooling fans shall be engine driven. Heat Exchanger / gas cooler fan shall have mechanical drive only and the same cannot be utilized as ventilation fan.	Gas cooler fan is hydraulically driven and hydraulic drive shall be engine driven. There is no separate electric or mechanical drive required.	Noted but hydraulic drive shall be engine driven.
45.	4.12.1		The maximum allowed temperature within the enclosure shall be 5°C above ambient temperature. Adequate arrangements shall be provided to meet the above.	Temperature inside canopy = Ambient + 8 Deg	Tender Conditions Prevail.
46.	4.12.7		All the pressure, temperature, gas flow meter, oil level, lube oil pressure, coolant temperature, coolant level indicators shall be visible from outside of enclosures. enclosures as per the design of the manufacturer through gauge panel. However if due to space constraint some of the Instruments not visible from outside of enclosure then proper accessibility has to be provided for reading the parameters from the Instruments. The Flow meters shall be installed in such a way that if required reading can be taken safely on running of compressor during performance testing.	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.	Tender Conditions Prevail.

47.	4.12.11		One vent line with double isolation valve shall be provided to emptying the package at 3rd stage separator.	Due to safety reason vent line not provided at 3rd stage separator, venting provision is provided at BDV with double isolation valve	Tender Conditions Prevail.
48.	4.13		Piping	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.	Tender Conditions Prevail.
49.	4.13		Piping	Piping between PRS Skid to Inlet of Compressor Package, air compressor & CO2 piping upto enclosure will be in IGL scope, as site to site location is not fixed, hence request to considered same.	Tender Conditions Prevail.
50.	4.13.5		The instrument air tubing material shall be SS316 as per ASTM A269.	Instrument air tubing shall be SS304.	Noted
51.	4.13.10		External drain & vent piping shall be Carbon Steel and not less than 1" nominal size. However, all the internal drains shall be SS 316 tube as per ASTM A269. However all the internal drains shall be SS 300 series material.	Package oil drain will be of 1/2" as per manufacturer standard	In case of manufacturer's standard for piping size of package oil drain, the same can be accepted subject to submission of PTR of the offered compressor. Rest Tender Conditions Prevail.

52.	8.2		PAINTING AND PROTECTION	Painting shall be as per manufacturer's standard procedures. Package enclosure shall be Powder Coated ensuring longer durability in all weather outdoor installation conditions.	Tender Conditions Prevail.
53.	8.5		Packing shall be sufficiently robust to withstand rough handling during ocean shipment & inland journey. Sling points shall be clearly indicated on crates.	The canopy is weather proof so no separate packing considered. Package shall be covered in tarpaulin during road shipment.	Tender Conditions Prevail.
54.	21.0		QUALITY ASSURANCE PLAN	Inspection & Testing will be as per Approved QAP.	Ok
55.	21.0		QAP: Engine	<p>Following points are not applicable for engine, we shall consider below points for pressure vessels used in compressor package as per past tender. Please approve.</p> <p>2. Dimension and Visual Inspection Report as per drawing-Not considered for engine, shall be provided for vessels used in compressor package</p> <p>3. Material test certificates for RAW Material (Pressure Parts)-Not considered for engine, shall be provided for vessels used in compressor package</p> <p>4. Radiography of pressure vessels at applicable-Not considered for engine, shall be provided for vessels used in compressor package</p> <p>5. Hydro test of pressure vessels-Not</p>	Noted & shall be reviewed / finalised during detailed engg / approval of QAP

				considered for engine, shall be provided for vessels used in compressor package 6. Final painting and cleaning-Not considered for engine, shall be provided for vessels used in compressor package	
56.	21.0		Control Panel and Soft Starter Functional test	Functional test during FAT.	Noted & shall be reviewed / finalised during detailed engg / approval of QAP
57.	21.0		Heat Exchangers (at sub-vendor works) WPS / PQR – Welder Qualification	Welding is not applicable.	Noted & shall be reviewed / finalised during detailed engg / approval of QAP
58.	22.0		Engine Discharge Filter. BBV	Engine-Cummins GTA855-C DISCHARGE FILTER: ACIL Approved make BBV-Baumer Air Line PRV-AIRA EURO AUTOMATION PVT. LTD Above items has been regularly used in all packages for the last two years and they are working satisfactorily. PTR will provide for same.	Noted & shall be reviewed/finalized during detailed engg / approval of QAP
59.	6.4		Package Performance Test (PT): Bidder shall assemble the complete package including auxiliary systems, instrumentation, safety devices within the enclosure at his shop and dispatch. Duration of PG test shall be 4 hours with compressor running on continuous basis, however if load is not available at site intermittent running for 4 hours shall be permitted with maintaining	If the machine could not run for 4 hours for 30 days, then the readings must be passed based on the available data.	Tender Conditions Prevail.

			<p>minimum continuous operation of ½ hour. Bidder to submit PG test procedure for review / approval. Complete package shall be performance tested as a module along with gas engine & compressor as per Performa (to be decided during engineering). Bidder shall demonstrate all controls, shutdown, trips & alarms, functioning of Instrumentation system,</p>		
60.	6.4.1		<p>Package Performance Test (PT): Bidder shall assemble the complete package including auxiliary systems, instrumentation, safety devices within the enclosure at his shop and dispatch. Duration of PG test shall be 4 hours with compressor running on continuous basis, however if load is not available at site intermittent running for 4 hours shall be permitted with maintaining minimum continuous operation of ½ hour. Bidder to submit PG test procedure for review / approval. Complete package shall be performance tested as a module along with gas engine & compressor as per Performa (to be decided during engineering). Bidder shall demonstrate all controls, shutdown, trips & alarms, functioning of Instrumentation system,</p>	<p>If the machine could not run for 4 hours for 30 days, then the readings must be passed based on the available data.</p>	<p>Tender Conditions Prevail.</p>
61.	6.4.1		<p>The PT shall be conducted only after 30 days' running of the machine after successful commissioning or after 30</p>	<p>Kinldy allow to conduct the PG test immediatly after commissioning</p>	<p>Tender Conditions Prevail.</p>

			<p>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 load, non-availability of CNG vehicles for conducting PT).</p>		
62.	7.3.4		<p>Penalty for Non-Performance during Period of Operation & Maintenance Details of Penalty for non-performance of equipment</p> <p>a. On normal day (i.e. the day other than the schedule maintenance day):</p> <p>i. The party has to ensure that the equipment is available for operation for minimum 20 hours per day and on an average the equipment availability has to be 98% in a month.</p> <p>ii.If the equipment is down for more than 4 hours on any day or availability is less than 98% in a month. Penalty would be applicable as follows:</p> <ul style="list-style-type: none"> ▪ Upto 4 hours: Nil ▪ 4 hours to 12 hours: Rs. 10,000/- per day ▪ 12 hours to 24 hours: Rs. 15,000/- per day ▪ More than 24 to 72 hours – 25,000/- per day <p>iii. In case there is a continuous</p>	<ul style="list-style-type: none"> ▪ Upto 4 hours: Nil ▪ 4 hours to 12 hours: Rs. 5,000/- per day ▪ 12 hours to 24 hours: Rs. 10,000/- per day ▪ More than 24 to 72 hours – 15,000/- per day 	Tender Conditions Prevail.

			<p>breakdown beyond 72 hours up to 15 days, 50% of monthly maintenance charges excluding operational part will be deducted.</p> <p>iv. In case there is a continuous breakdown beyond 15 days, which is not in the control of the contactor, no maintenance charges will be paid. Only operation charges may be payable on sole discretion of EIC.</p> <p>v. In case there is a continuous breakdown beyond 30 days of a calendar month, Entire Monthly Maintenance and operation charges shall be deducted.</p> <p>vi. In case of daily availability is 20 hrs. but monthly average availability is below 98%. Then penalty @ of Rs. 10,000 per % or part thereof shall be applicable</p>		
63.	7.3.4-V		<p>In case there is a continuous breakdown beyond 30 days of a calendar month, Entire Monthly Maintenance and operation charges shall be deducted.</p>	Operation charges should be paid if operators are at site	Tender Conditions Prevail.
64.	7.3.4-VI		<p>In case of daily availability is 20 hrs. but monthly average availability is below 98%. Then penalty @ of Rs. 10,000 per % or part thereof shall be applicable.</p>	Please clarify if Penalty @10,000 per 1 % below 98% availability will be charged.	Bidder understanding is correct.
65.	7.3.4-b		On schedule maintenance day (excluding periodic major overhaul of compressor/	The bidder will indicate the required shutdown time for the scheduled maintenance of the compressor and	If the equipment is down for beyond the time indicated for the agreed

			engine):	engine. If the machine is started within the specified time period, no penalty will be applied.	schedule maintenance, the party would be penalized as per the said clause
66.	10		<p>FIELD TRIAL RUN (Commissioning and Commercial Operation)</p> <p>Bidder shall conduct a field trial run of each compressor package for minimum 72 hours cumulative or 6 hours continuous duration near the guaranteed points in which satisfactory operation of complete package together with all accessories/auxiliaries controls shall be established for specified operating conditions prior to the start of operation and maintenance period as defined in the contract. During the field trial run the bidder will be allowed a maximum of THREE attempts to complete the above-specified test. The Equipment shall be considered commissioned after the successful completion of Field Trial Run. Further Commencement of commercial operation will be intimated by client.</p>	The PG test should be allowed for 4 hours as per clause 6.4 pg 37, as is standard in other CGDs. It can be done immediately after commissioning. If sufficient load is not available at the site for 30 days after commissioning, then PT should be clear by consultant/customer based on the available data of PG test.	TENDER CONDITION PREVAILS
67.	13		<p>OPERATION & MAINTENANCE SERVICES</p> <p>The date of successful performance test (PT) at site (which shall be conducted within 90 days from the date of</p>	The start of annual maintenance must be the date of commercial sale, as the buyer is not incurring any losses and the machine will be fully operational during that period. The BG (bank guarantee) is	Tender Conditions Prevail.

			<p>successful commissioning of the machine) 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 upto the date of performance test as part payment against O&M till the capacity and other guaranteed parameters of the package is established through PT. The balance 50% of O&M charge (from the date of commercial operation upto the date of PG test) shall be released to the bidder subsequent to successful PT (ie, after establishing all the guaranteed parameters as per tender) In case the PT is not successful, the balance 50% shall be forfeited in addition to provision of cl. 7.3.4 of this Section. The bidder must follow the ‘OPERATION & MAINTENANCE REQUIREMENT’ as stated below but not limited to and ensure to provide trouble free services to the satisfaction of the owner</p>	<p>also being taken from the date of commercial operation.</p>	
68.	13.6		<p>Compliance of laws The bidder deploying 20(twenty) or more workmen as contract labour shall have to obtain license from appropriate licensing authority, if required. The bidder (which shall include the Contracting firm / company) shall be</p>	<p>Please provide a purchase order (PO) for each machine for operation and maintenance (O&M). The labor license will be taken in the name of the subcontracting firm, but the overall responsibility for compliance with the laws will be with the bidder.</p>	<p>Tender Conditions Prevail.</p>

			<p>solely liable to obtain and to abide by all necessary licenses from the concerned authorities as provided under the various labour laws legislation's including labour license from the competent authority under the Contract Labour ("Regulation & Abolition") Act or similar act applicable to land of law. The Contractor at his own cost shall comply with all statutory regulations required for this Work. All statutory liabilities of payment of ESI/PF or other statutory payments as may be applicable will be borne by the Contractor. The installations where job is to be carried out are live and have hydrocarbon environment. Bidder shall comply with all safety and security rules and regulations and other rules laid down by PURCHASER for its operation. It shall be the duty/responsibility of the bidder to ensure the compliance of fire, safety, security and other operational rules and regulations by his personnel. Disregard to these rules by the Bidder's personnel will lead to the termination of the contract in all respects and shall face penal/legal consequences.</p>		
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69.	13.9	<p>Details of Penalty for non-performance of staff</p> <p>On Non-performance of Staff or deviation from Scope of Work, Client will intimate supplier / bidder in form of 1st Notice. Bidder / supplier will confirm the time for resolution. Resolution time shall be agreed by both parties. If the issue not resolved within time frame or same issue is repeated, client shall impose penalty as under;</p> <p>a) Rs.100/- per incident, when any of person found continuing duty beyond 12 hours normal duty, on any given day.</p> <p>b) Rs.100/- per Incident Day penalty shall attract each up on failure by the contractor to provide the necessary PPEs (I Cards, Dress Code/ Uniform / Safety Shoes / Hard hat/Safety Belt) to person and their failure to wear the same as specified by EIC per person.</p> <p>c) Rs. 100/- per Incident for the non-compliance found in the log book readings of CNG Compressors.</p> <p>d) Rs. 500/- per Incident for the untrained CNG Compressor operator is on duty.</p>	<p>Operator shall be minimum qualification of ITI with basic training of safety and O&M of CNG compressor</p>	<p>Tender Conditions Prevail.(Query is not relevant with said clause)</p>
70.	13.13.1	<p>Scope of supply during warranty period:</p>	<p>1. If any electrical item fails due to a power surge, the bidder may request compensation, as it is beyond the bidder's control.</p>	<p>Tender Conditions Prevail.</p>

				2.The scope is valid only if both operation and maintenance are performed by the bidder. If the buyer wants to perform the operation on their own, then consumables such as lubricants will be included in the buyer's scope, and maintenance will be performed by the bidder.	
71.	13.13.2		Scope of supply during post warranty period:	1. If any electrical item fails due to a power surge, the bidder may request compensation, as it is beyond the bidder's control. 2.The scope is valid only if both operation and maintenance are performed by the bidder. If the buyer wants to perform the operation on their own, then consumables such as lubricants will be included in the buyer's scope, and maintenance will be performed by the bidder.	Tender Conditions Prevail.
72.	IFB, D) of Clause 2.0	Page 4 of 148	Supply Delivery Period: Delivery Period - All the 12 nos. compressors shall be delivered within 18 weeks from the first notification of award in single lot.	Due to present scenario of uncertainty where the supply chain is disrupted due to present crisis/war between russia and ukraine . The major suppliers viz. Gas Engine are delivering in 4 months time. This had led to longer lead times of such equipment. We request you to please revise the delivery schedule to within 24 weeks from the date of Delivery Order / Release Order.	Tender Conditions Prevail.
73.	SCC, 26.0	Page 113 of 148	PRICE REDUCTION SCHEDULE	We request you to modify the clause as "..... a sum @ ½ % (Half Per Cent) of the value of the work portion that is delayed per week for delay subject to	Tender Condition Prevails

				maximum of 5% (Five Per Cent) of the value of the individual release order.	
74.	PAYMENT TERMS & MODE OF PAYMENT	Page 142 of 148	<p>TERMS OF PAYMENT :</p> <p>A) 85% of supply value including string test as applicable will be paid progressively by Owner against receipt of material/ equipment at site & submission of the following documents: -</p> <p>i) Invoice in triplicate (As per GST Act/ Rules)</p> <p>ii) Inspection Release note issued by inspection agency appointed by Owner.</p> <p>iii) GR/ LR</p> <p>iv) Packing List</p> <p>v) Insurance cover note covering transit insurance</p> <p>vi) A certificate from manufacturer that the all items/ equipment under supply including its component or raw material used with manufacturing are new and conform to the tender requirement. In case manufacturer is not the contractor this certificate will duly be endorsed by the contractor owning overall responsibility.</p> <p>vii) Final technical file as per Technical Specifications/ Material Requisition including all test certificates, if applicable</p>	<p>A) 90% of supply value including string test as applicable will be paid progressively by Owner against receipt of material/ equipment at site & submission of the following documents: -</p> <p>i) Invoice in triplicate (As per GST Act/ Rules)</p> <p>ii) Inspection Release note issued by inspection agency appointed by Owner.</p> <p>iii) GR/ LR</p> <p>iv) Packing List</p> <p>v) Insurance cover note covering transit insurance</p> <p>vi) A certificate from manufacturer that the all items/ equipment under supply including its component or raw material used with manufacturing are new and conform to the tender requirement. In case manufacturer is not the contractor this certificate will duly be endorsed by the contractor owning overall responsibility.</p> <p>vii) Final technical file as per Technical Specifications/ Material Requisition including all test certificates, if applicable</p> <p>viii) A copy of legal Indemnity bond for the value of delivered items. (Which will be valid till equipment is</p>	Refer Technical Corrigendum#1

		<p>viii) A copy of legal Indemnity bond for the value of delivered items. (Which will be valid till equipment is installed & commissioned and taken over by Owner at site).</p> <p>ix) Copy of Performance Bank Guarantee(s), as already submitted by supplier.</p> <p>x) In case of delay in receipt of material at site the invoice value shall be reduced to take care of stipulation of PRS clause of the contract.</p> <p>B) 5% payment: On Installation, testing, commissioning of each compressor unit, all other works & final acceptance by the owner and submission following additional document: -</p> <ul style="list-style-type: none"> • Acceptance certificate • Clearance from ESIC, PF and labour authority, if applicable • Work completion certificate • GST assessment certificate, If applicable • No claim certificates <p>C) 10 % payment on further Testing and successful performance acceptance test PG (PT) test However, if the PG test (PT) is not successful (as per guaranteed parameters defined in the tender), the provision of clause no. 7 &</p>	<p>installed & commissioned and taken over by Owner at site).</p> <p>ix) Copy of Performance Bank Guarantee(s), as already submitted by supplier.</p> <p>x) In case of delay in receipt of material at site the invoice value shall be reduced to take care of stipulation of PRS clause of the contract.</p> <p>B) 10% (Ten Percent) Payment shall be released within 30 working days after successful completion of installation, Testing, Commissioning & Performance acceptance Test of each compressor package at the site and Acceptance thereof by the OWNER.</p> <p>In case Installation, Testing & Commissioning and Performance Acceptance Test could not be executed within 120 days from the date of receipt of compressors at site/ HPCL's store due to reasons attributable to Purchaser, the 10% payment shall be released against submission of BG of equivalent amount valid till the Warranty period.</p> <p>Attached payment terms of previous CUGL tender for ready reference.</p>	
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			<p>13 pertaining to Loading, Compensation & Penalty Criteria of Technical Specification (Vol.-II) shall apply. In case of delay in erection and commissioning, the invoice value shall be reduced to take care of PRS clause.</p> <p>1.1.2 In case the Testing and PG/Field Performance Test could not be executed within 90 days from the date of completion of Erection and commissioning due to reason directly attributable to the owner.</p> <p>OR</p> <p>Installation/ Erection could not be completed within 105 days from the date of delivery of material at site due to reasons directly attributable to the owner; the balance 10% of supply value as per 1.1.1 (B) shall be payable after deduction against PRS clause, if any.</p>		
75.			<p>Contractor/Supplier shall be fully responsible for safe custody, storage and preservation of all the supplies and materials/equipments required for carrying out the work until handing over of the complete facility to the Purchaser at site at no extra cost. If required, materials /equipment shall be stored in Purchaser's designated store till further handing over the supplies, materials</p>	<p>Please specify the no. of days the packages shall be held to store as Service charges will be applicable for current year . However, incase commercial operation of the compressor package does not start within the 1 year from date of supply (i.e. GRV date), due to the reasons not attributable to the supplier, the O & M Charges quoted by the bidder for 2nd year shall be applicable / considered as rate for 1st</p>	<p>Tender Conditions Prevail.</p>

			<p>/equipments to contractor for installation, testing, erection of the equipment.</p> <p>Further, activities like loading/unloading at store as well as at site, re-transportation of material (if required), equipment, tools & tackels etc. until handing over of the complete facility to the Purchaser shall be arranged by contractor/supplier and in case of re-transportation, payment shall be made as per SOR items relevant for the same.</p>	<p>year (calendar year). Price validity for the O & M rates shall be valid for Calendar year. Kindly confirm the same.</p>	
76.			<p>5% payment: On Installation, testing, commissioning of each compressor unit, all other works & final acceptance by the owner and submission of required documents.</p> <p>10 % payment on further Testing and successful performance acceptance test PG (PT) test However, if the PG test (PT)is not successful (as per guaranteed parameters defined in the tender), the provision of clause no. 7 & 13 pertaining to Loading, Compensation & Penalty Criteria of Technical Specification (Vol.-II) shall apply. In case of delay in erection and commissioning, the invoice value shall be reduced to take care of PRS clause.</p>	<p>The next payment milestones after the supply, which are 10% and 5% confirmation, are contingent upon the completion of erection and commissioning within specific timeframes. However, if these activities cannot be accomplished due to reasons beyond the control of the supplier, the payment structure needs to be clarified. In such cases, it is important to clearly define alternative criteria or conditions that would warrant the release of the respective payment percentages.</p> <p>Hence we suggest the 15% payment shall be released against submission of BG of equivalent amount valid till the Warranty period.</p>	Refer Technical Corrigendum#1

			<p>1.1.2 In case the Testing and PG/Field Performance Test could not be executed within 90 days from the date of completion of Erection and commissioning due to reason directly attributable to the owner.</p> <p>OR</p> <p>Installation/ Erection could not be completed within 105 days from the date of delivery of material at site due to reasons directly attributable to the owner; the balance 10% of supply value as per 1.1.1 (B) shall be payable after deduction against PRS clause, if any.</p>		
77.	Point No. 7 of Clause no. 1.6	14	<p>Separate flameproof junction boxes for different type of signals like analog, digital signals, alarm, shutdowns, and thermocouples, RTDs etc. for interfacing to FLP local panel. Same is not applicable for direct run cable up to PLC panel.</p>	<p>Please note that Local control panel (With PLC) is mounted on package itself hence junction boxes are not required. Instruments will be directly wired to Local control panel. This system is available in all our packages and accepted by al the CGD companies and 400+ CNG compressor are running successfully.</p>	<p>Direct run cable upto PLC/ local panel, Junctions box is not required; rest tender condition prevail.</p>
78.	Point No. 17 of Clause no. 1.6	15	<p>Block and bleed valves to be provided for Pressure gauges (including DPG) and pressure Transmitters.</p>	<p>Please note that As per our standard Manufacturer Practice we provide Needle valves for Pressure gauges and pressure Transmitters.</p>	<p>Necessary valves desired shall have features of double block & bleed valve. Hence Tender Condition Prevails.</p>

79.	Safety	20	Relief Valves shall be provided at suction and discharge and in between inter stages of compressor with setting as per cl. 11.18.5 of ISO 13631: 2009 with R.V. venting as per cl. 11.18.6 of ISO 13631: 2009. All vented lines to be connected to common relief valve header.	Please note that as per Manufacturer's standard practice, Relief valve will be provided on BDV and each stage discharge. Please confirm your acceptance.	Tender Condition Prevails
80.	2.1.1	23	Bidder shall make his own provision for Instrument air with the flame proof electric motor driven air compressor, receiver and refrigerant type air dryer system.	Please note, flameproof refrigerant type air dryer is not available. Only motor shall be flame proof. In case of requirement of flame proof air dryer, we can provide heatless type dryer. Kindly confirm the same.	The selected equipment must be suitable for operation in hazardous area and acceptable if meeting the tech spec requirement. Rest Tender Condition Prevails
81.	2.1.2	23	The air compressor motor & air dryer shall be flameproof and will be kept in CNG area.	Please note, flameproof refrigerant type air dryer is not available. Only motor shall be flame proof. In case of requirement of flame proof air dryer, we can provide heatless type dryer. Kindly confirm the same.	Noted & will be reviewed during detailed engg. & may be accepted if found technically suitable.
82.	4.8.2	28	Gas sections of coolers shall be designed as per API-11P requirements and shall be inspected by any approved 3rd party inspection agency.	As per manufacturer standard, Gas sections of coolers shall not be U code stamping. Please confirm your acceptance.	Gas Coolers shall be inspected by TPI.
83.	4.8.2	28	Bidder shall submit cooler sizing calculation for review/records.	Please Note The cooler sizing calculations cannot be submitted, being a proprietary design	Tender Condition Prevails

84.	4.8.2	29	Cooler design shall be on the basis of 20% excess capacity than required corresponding to suction pressure of 19 kg/cm ²	We shall design the interstage and final stage discharge cooler for outlet temperature of 60degC. considering ambient temperature of 50degC. The cooler design shall be on the basis of 20% safety based on thermal duty at design suction pressure condition and the suitability of this area shall be checked for the most severe condition corresponding to suction pressure. This is our standard design practice and we follow this for all our CNG packages. Kindly confirm your acceptance.	Tender Conditions Prevail.
85.	Last Point of Clause no.4.9.6	30	One vent line from gas recovery vessel with double isolation valves shall be provided	Please note that we provide both automatic drain system & manual valve but for manual valve we provide single isolation valve instead of double isolation valve(ball valve type). Please confirm your acceptance	Tender Conditions Prevail.
86.	4.1	30	Pulsation, Vibration Control and Analog Study	Please note that Pulsation suppressor devices for CNG compressors are standardized in design. Order specific pulsation study is not carried out.	Tender Conditions Prevail.
87.	4.12.2	32	Bidders to provide ventilation / exhaust fans to vent out any entrapped gases in the enclosure before starting the main compressor. Necessary interlocking to be provided by the bidder for the same.	Please note, as the cooler is of forced draft, the entrapped gases in the enclosure will be Vent out before starting the main compressor. Hence, ventilation fan is not envisaged.	Tender Conditions Prevail.
88.	4.12.3	32	Heat Exchanger / gas cooler fan shall have mechanical drive only and the same cannot be utilized as ventilation fan.	Please note, as the cooler is of forced draft, the entrapped gases in the enclosure will be Vent out before starting the main compressor. Hence, ventilation fan is not envisaged.	Tender Conditions Prevail.

89.	4.12.8	33	All local pressure and temperature gauges shall have minimum dial size of 63 mm.	Please note that ,as per our standard,we have provided All local pressure and temperature gauges with 100 mm dial gauge size. This is our standard supply and accepted by all CGD componies and we have supplied 400+ packages.	Same or higher size local gauge as per tech spec is also acceptable.
90.	7.3	42	<u>E. Penalty for Non-Performance during Period of Operation & Maintenance</u>	Please note In any case/ any situation, total penalty will be limited to 50% of monthly invoice value of concerned package including all penalty clauses i.e Clause 7.3.1 Penalty towards Excess Package Gas Loss , Clause 7.3.2 Penalty towards Excess Engine Fuel Consumption: , Clause 7.3.3 Penalty towards Package Efficiency Loss and Clause 7.3.4 Penalty for Non-Performance during Period of Operation & Maintenance Request you to inculde this clause to enabel us to particiapte in the tender.	Tender Conditions Prevail
91.	15	159	Net CV of gas considered in Kcal/Sm3 : 8300 The guaranteed value of fuel consumption of gas engine in KG/HR shall be between 30 to 33 Kg/hr corresponding to flow of 1200 SCMh for the given gas.	We would like to bring into your notice that Fuel conusmption range provided in the tender i.e. 30 to 33 kg/hr is less wth the given calorific value of 8300 kcal/m3. During the tracteble-IGL tender no:IGL/ET2/CP/EC16062 (tender document of the same attached for your reference. In the guaranteed parameter, below clasue is mentined " Fuel (Gas) consumption of package in Kg/ Hr at 35°C, Density of natural gas 0.775 Kg/SCM for production of 930Kg/hr, NCV of 11400Kcal/Kg (basis for loading and penalty). here,	Tender Conditions Prevail.

				<p>the Callorific value is 11400kcal/kg * 0.775 = 8835 kcal /m3, so the fuel consumption range is 30 to 33 kg/hr. In view above, please note, the calorific value is changed from 8835 kcal/m3 to 8300 kcal/m3 but the fuel consumption range remains same. Hence, we would like you to look into this and change the range from 33 kg/hr to 36 kg/hr for given calorific value of 8300 kcal/m3.</p>	
92.	<p>SECTION-I INVITATION FOR BID (IFB)</p> <p>2.0 (D)</p>	04 of 148	<p>All the 12 nos. compressors Shall be delivered within 18 weeks from the first notification of award in single lot</p>	<p>Due to heavy demand of Compressor Packages from City Gas Entities the delivery of critical components such as Gas Engine, PLC Panels, Flow Meters etc. is itself currently at 16 weeks ex-works.</p> <p>In view of above, purchaser to allow delivery period of 24 Weeks from the first notification of award.</p> <p>Kindly accord your acceptance</p>	Tender Conditions Prevail.
93.	<p>SPECIAL CONDITION OF CONTRACT (SCC)</p> <p>26.1</p>	130 of 148	<p>The PRS shall be applicable @ ½ % (half percent) of price of respective goods/equipment / package (including spares etc. even if prices are indicated separately in the order but excluding Services (i.e.installation,erection, commissioning)) per week of delay or part thereof subject to maximum 5% (five percent) of Total Contract/ Order Value excluding value of Services. In no case, total PRS shall exceed 5%</p>	<p>We request CUGL, PRS for supply shall be applicable @ 0.5 % of the value of undelivered compressor unit per complete week without GST.</p> <p>The maximum value of PRS shall be limited to 5% of the basic unit price of the undelivered compressor package without taxes.</p>	Tender Conditions Prevail.

			(five percent) of Total Contract/ Order Value (Supply +Services excluding Annual operation, repair & comprehensive Maintenance).		
94.	SPECIAL CONDITION OF CONTRACT (SCC) 31	131 of 148	The warranty shall remain valid for twelve (12) months from the date of successful performance acceptance test of compressor package at site. However, if performance test doesn't get carried out, within twenty days of commercial operation or 400 hrs of commercial operation, for reasons directly attributable to client/purchaser, then warranty period shall start from the date of completion of 20 days or 400 hours of successful commercial operation subject to issue of certificate by CUGL for the commencement of commercial operation. OR Twenty-Four (24) months from the date of delivery of last compressors of each lot at CUGL store /site. whichever is earlier.	We request purchaser to accept the warranty period for twelve (12) months from the date of commissioning of compressor package at site. Or Eighteen (18) months from the date of delivery of each compressor at purchaser store / site whichever is earlier.	Tender Conditions Prevail
95.	PAYMENT TERMS & MODE OF PAYMENT [APPENDIX – I TO SPECIAL	142 of 148	(A) 85% of supply value including string test as applicable will be paid progressively by Owner against receipt of material/ equipment at site (B) 5% payment: On Installation,	We request for: 1. 90% payment of supply value against delivery of CNG Compressor Package 2. Balance 10% within 30 days after	Refer Technical Corrigendum#1

	<p>CONDITION OF CONTRACT]</p> <p>1.1.1</p>		<p>testing, commissioning of each compressor unit, all other works & final acceptance by the owner and submission following additional document (C) 10 % payment on further Testing and successful performance acceptance test PG (PT) test</p>	<p>completion of Installation, erection & commissioning of CNG Online Compressor Package.</p> <p>In case installation/ Erection could not be started/completed within 105 days from the date of delivery of material at site due to reasons directly attributable to the owner, the balance 10% of supply value shall be payable in 30 days.</p>	
<p>96.</p>	<p>PAYMENT TERMS & MODE OF PAYMENT [APPENDIX – I TO SPECIAL CONDITION OF CONTRACT]</p> <p>1.1.2</p>	<p>142 of 148</p>	<p>In case the Testing and PG/Field Performance Test could not be executed within 90 days from the date of completion of Erection and commissioning due to reason directly attributable to the owner. OR Installation/ Erection could not be completed within 105 days from the date of delivery of material at site due to reasons directly attributable to the owner; the balance 10% of supply value as per 1.1.1 (B) shall be payable after deduction against PRS clause, if any.</p>	<p>We request for:</p> <p>1. 90% payment of supply value against delivery of CNG Compressor Package</p> <p>2. Balance 10% within 30 days after completion of Installation, erection & commissioning of CNG Online Compressor Package.</p> <p>In case installation/ Erection could not be started/completed within 105 days</p>	<p>Refer Technical Corrigendum#1</p>

				from the date of delivery of material at site due to reasons directly attributable to the owner, the balance 10% of supply value shall be payable in 30 days.	
97.	PAYMENT TERMS & MODE OF PAYMENT [APPENDIX – I TO SPECIAL CONDITION OF CONTRACT] 1.6 (vi)	143 of 148	Bidder shall ensure payment of minimum wages as per the appropriate govt applicable under the minimum wage act	We understand that minimum wages (Semi Skilled) as per State Government (Uttar Pradesh) shall be applicable. Please confirm	Tender Conditions Prevail
98.	SECTION-I INVITATION FOR BID (IFB) 2.0 (D)	05 of 148	Operation & Comprehensive Maintenance: The duration for comprehensive maintenance & operation shall be six (6) years. Comprehensive maintenance for 1st year shall be included under warranty period.	We request purchaser that maximum duration of contract for AMC during warranty and post warranty period shall be limited to 78 months from the date of delivery of compressor package at CUGL store / site The AMC Charges shall be applicable as follows: First year rates of AMC will be valid for 18 months from the date of supply of package at site or 12 months from the date of start of commercial sales whichever is earlier. Second Year AMC rates shall become applicable after completion of 18 months from the date of supply of package at site or after 12 months from the date of Start of Commercial sale whichever is earlier.	Tender Conditions Prevail

				<p>Third Year AMC rates shall become applicable after completion of 30 months from the date of supply of package at site or after 24 months from the date of Start of Commercial sale whichever is earlier.</p> <p>Fourth Year AMC rates shall become applicable after completion of 42 months from the date of supply of package at site or after 36 months from the date of Start of Commercial sale whichever is earlier.</p> <p>Fifth Year AMC rates shall become applicable after completion of 54 months from the date of supply of package at site or after 48 months from the date of Start of Commercial sale whichever is earlier.</p> <p>Sixth Year AMC rates shall become applicable after completion of 66 months from the date of supply of package at site or after 60 months from the date of Start of Commercial sale whichever is earlier</p>	
99.	Section –II 13.13.1	56 of 101	<p>If any equipment got fire or broken due to accident the same shall be replaced or rectified by the bidder.</p> <p>If any equipment got fire or broken due to accident or in any way engine or compressor’s major overhaul is required during breakdown the same</p>	<p>As per current norms, only owner of Assets can take such types of Insurance Covers.</p> <p>We request purchaser to take necessary Insurance cover of CNG Compressor Package and the third-party insurance towards damage to Man & Machine,</p>	Tender Conditions Prevail

			shall be replaced or rectified by the bidder, at his own cost	Fire, Accident etc.	
100.	Section –II 13.13.2	56 of 101	<p>If any equipment got fire or broken due to accident the same shall be replaced or rectified by the bidder.</p> <p>If any equipment got fire or broken due to accident or in any way engine or compressor's major overhaul is required during breakdown the same shall be replaced or rectified by the bidder, at his own cost</p>	<p>As per current norms, only owner of Assets can take such types of Insurance Covers.</p> <p>We request purchaser to take necessary Insurance cover of CNG Compressor Package and the third-party insurance towards damage to Man & Machine, Fire, Accident etc.</p>	Tender Conditions Prevail

Note: This document shall form an integral part of the bidding document and shall be signed/stamped and submitted along with the bid.

(STAMP & SIGNATURE OF BIDDER)