




 ENERGISING QUALITY		<div>REPLY TO BIDDER'S PRE-BID QUERIES FOR PROCUREMENT OF 400 & 250 SCMH MOTOR DRIVEN CNG COMPOSITE DISPENSING UNIT PACKAGE FOR CITY GAS DISTRIBUTION PROJECT AT KANPUR, UNNAO, BAREILLY & JHANSI GA</div> <div>TENDER NO. CUGL/VCS/ PRC/2022/01 TENDER ID : 54149</div>				VCS Ref. No.: VCS/CUGL/1036/PRC/2022/001			
						Owner - CENTRAL UP GAS LIMITED (CUGL)			
						Consultant - VCS Quality Services Pvt Ltd.			
						Pre-bid meeting held on 26.09.2022			
						Date: 01.10.2022			
Sl. No.	REFERENCE OF BIDDING DOCUMENT No.				Bidder's Query/Clarification	CUGL/VCS Reply			
	Tender Sec.No.	Tender Clause No.	Tender Page No.	Tender specification / Clause Description					
COMMERCIAL									
1		2	58 of 93 Commercial Volume I of II	Delivery Period: All the packages shall be supplied within 16 weeks from the date of Lot.	Kindly accept 22 weeks delivery time	Tender conditions shall prevail			
2	SSC	3	59 of 93 Commercial Volume I of II	TERMS OF PAYMENTS	90% against delivery and bal 10% within 60 days against BG in case not commissioned	Tender conditions shall prevail			
3	SSC		Commercial Volume I of II	AMC penalty	50% caping should be there of monthly AMC charges	Tender conditions shall prevail			
4			Commercial Volume I of II	AMC of the 1st year during warranty period	1st year AMC should be seprate from supply part and to be added in SOR part	Tender conditions shall prevail			
5	IFB	3.2	4	NOTE: 1st year CAMC during Warrantee Period is inclusive.	Please provide separate line item for 1st year CAMC durign warrantee period.	Tender conditions shall prevail			
6	IFB	2	6	The duration of contract for supply shall be one (1) year from the date of issuance of LOI/INTIMATION and the duration for Operation & Comprehensive Maintenance shall be Six (06) years (1 year during warranty and 05 years post warranty).	We understand that we need to quote both operation and maintenance. Please confirm the same.	Bidder to quote as per SOR and only Comprehensive Annual Maintenance (CAMC) charges are to be considerd.			
7	IFB	4.3	6	Comprehensive Annual Maintenance Contract (CAMC) charges					
8	IFB	4.1	6	The delivery period shall be 16 Weeks from the date of LOI/ date of intimation.	We request you to consider 24 weeks from the date of intimation and subsequent lots shall be 20 weeks.	Tender conditions shall prevail			
9	IFB	4.2	6	The basis of delivery shall be FOT, CUGL Site/ Store at Kanpur, Bareilly, Unnao & Jhansi.	Please note, our contract ends if the package is delivered either at site or store. Incase the package is delivered to Store further loading, Retransportation and unloading on to the foundation at site shall be in client scope. Please confirm the same.	Bidder understanding is correct.			
10	IFB	7.6	7	Bid Submission date and time 03.10.2022 till 1500 HRS. IST, on tendering website https://cugl.abcpocure.com	We request you to extend the bid submission date upto 17th Oct 2022.	Tender conditions shall prevail			
11	IFB	8.1.1(3)	8	8.0 BIDDER EVALUATION CRITERIA (BEC) The bidder in the last seven years should have a Proven Track Record "PTR", reckoned from the bid due date, for design, engineering, manufacturing, testing from the proposed facility of manufacturing, at least 1 nos. of 400 SCMH capacity of Group A and 2 no. of 250 SCMH for Group B of motor driven CNG composite dispensing unit package suitable for operation at suction pressure in the range of 14-19 Kg/Cm2 (g) with discharge pressure of 255 Kg/Cm2g. of the above supplied motor driven CNG composite dispensing unit package, at least 01 no. of Package should have completed minimum 2,000 running hours successfully as on bid due date.	We request you to consider only 1 no of 400 SCMH capacity for PTR and same shall be completed 2000 runing hours. Please confirm your acceptance to particiapte in the tender.	Tender conditions shall prevail			
12	IFB	8.1.1(5)	9	Bidder must have successfully supplied/completed at least "Single order" of "motor driven CNG composite dispensing unit package" separately under Group A and B in the last Seven years from the bid due date for meeting the criteria of minimum quantities or higher quantities as specified in below table GROUP A: GROUP B:	We request you to accept 1no of 400 SCMH capacity for both th Group A & B. Please confirm your acceptance to particiapte in the tender.	Tender conditions shall prevail			
14	GCC	12.0	42	PERFORMANCE GUARANTEE 12.1 Within 21 days after the Seller's receipt of notification of award of the CONTRACT, the SUPPLIER shall furnish performance guarantee in the form of Bank Guarantee/Demand Draft/ Banker cheque to the OWNER, in the bidding documents, for and amount equivalent to 3% of total order value (Excluding AMC & GST but inclusive of erection & commissioning charges) of the CONTRACT. (a) Validity of PBG for 3% = Rate Contract Issue Date (Start Date of Rate Contract) + Rate Contract Period (validity of Rate Contract) + Contractual Delivery Period of material + Contractual Guarantee/warranty period + 3 month (b) for AMC Part: Vendor shall submit Contract Performance Bank Guarantee for 3% of annualized order value (excluding GST) of AMC charges as per contract.	Please Note, CPBG shall be provided per lot basis as the order is in Lot wise. Kindly review the clause once again	Tender conditions shall prevail			




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15	GCC	20.1.2	48	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) months from the date of last shipment whichever period shall first expire, and the supplier is notified thereof, supplier shall, at his own expense and as promptly as possible, make such permit the materials to function in accordance with the specifications and to fulfill the foregoing guarantees.	Please consider warranty as 12 months from the date of commissioning of 18 months from the date of shipment, which ever occurs first. Kindly confirm your acceptance to participate in the tender.	Tender conditions shall prevail	
16	GCC	26.1	49	the contract price shall be reduced by ½ % (half percent) of the total price of undelivered quantities of the lot quantity of material covered in that lot for which delivery is delayed, per week or part thereof of delay subject to a maximum of 5% (five percent) of total contract value.	Please note, maximum of 5 % of Lot quantity/Delivery order. Not on the total contract value. Kindly confirm the same.	Tender conditions shall prevail	
17	GCC	23	49	23.0 SUBLETTING & OWNERS	We understand that sub-letting of O&M services is allowed with the consent of the Owner and submission of PTR of the service provider. Please confirm your acceptance.	Tender conditions shall prevail	
18	SCC	1. b	57	Maintenance Part: After 5th year and thereafter the rate to be derived by the OEM/Supplier shall be uniformly increased based on escalation quoted for 5th year rate plus increase in USD rate at that time for which base rate of USD shall be considered from SBI. It is also noted that the maximum escalation beyond 5th years (based on inflation for maintenance cost) shall not be exceeded more than 10% of the existing rate of 5th year and to be followed for each year thereafter.	Please note, post 5th year, rates shall be discussed mutually. Kindly confirm the same.	Tender conditions shall prevail	
19	SCC	2.0	58	All the packages shall be supplied within 16 weeks from the date of LoI.	We request you to consider 24 weeks from the date of intimation and subsequent lots shall be 20 weeks.	Tender conditions shall prevail	
20	SCC	3.0	58	TERMS OF PAYMENTS	Kindly note that in the present crisis situation, maintaining the cash flow is very important for sustenance of business, hence we request the company to have milestone payments for the tender. This will help us to maintain a positive cash flow to an extent. Further, as you are aware, the packages will be performance tested at our factory as if the performance test is carried out at site, with an exception of different gas composition. Hence, we suggest as the bidder delivers the package duly tested at the factory so, the company can pay 100% payment against the dispatch. Based on this commitment, other CGDs such as BGRL, MGL, SKN, IOAGPL, Adani Gas, Torrent Gas, etc have accepted our suggestion. Based on above explanation, we now request you to please modify the clause as below: 100% payment of the supply portion along with freight including taxes & duties will be paid on receipt & acceptance of goods at FOT site.	Tender conditions shall prevail	
21	SCC	3.0	58	TERMS OF PAYMENTS	For payment towards PGT, please note if PGT can not be conducted due to reasons directly attributable to the owner. If the CNG load is not available for running the compressor for continuous 4 hrs even after 1 months from the date of commissioning, Purchaser should allow to conduct PGT for a lesser period based on availability of load for a duration of min.30 mins.	Tender conditions shall prevail	
22	SCC	3.0	58	Payment against provisions mentioned above during 1st year of warranty period: 100% payment after completion of CAMC after necessary penal deduction, if any shall be payable within 30 days from the date of receipt of Invoice duly certified by the Engineer-In-Charge.	Please note, as the 1st year warranty charges are included in the Supply portion, this is not applicable. Please clarify the same.	Refer SCC Clause no. 3.0 , Page no. 58 Tender condition prevails 100% payment (of balance 5% against clause no. 3.iv of SCC) shall be payable within 30 days, after completion of CAMC during warranty period & after necessary penal deduction, if any, from the date of receipt of Invoice duly certified by the Engineer-In-Charge	
TECHNICAL							
1		5	7 of 227 of Technical Volume II of II	SCOPE OF SUPPLY & SERVICES	SCOPE OF SUPPLY SHALL BE STRICTLY IN ACCORDANCE WITH OUR STANDARD DESIGN & PACKAGE LAYOUT. THE OFFERED PACKAGE IS VERY COMPACT AND IT IS NOT POSSIBLE TO INCORPORATE ALL INSTRUMENTATION AS PER TECHNICAL SPECIFICATIONS. TENDER TECHNICAL SPECIFICATIONS WRT REGULAR ONLINE MOTOR DRIVEN CNG COMPRESSORS ARE NOT APPLICABLE FOR THE OFFERED COMPRESSOR TYPE. HOWEVER, ALL SAFETY ASPECTS AND GUARANTEED PERFORMANCE IS ENSURED BY US FOR THE PRODUCT. WE CONSIDERED 400 SCMH PACKAGE ONLY.	Bidder shall quote for 250 SCMH and 400 SCMH Separately	





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2		-	8 & 9 of 227 of Technical Volume II of II	SOR Item No. Motor driven CNG composite dispensing unit package with discharge flow capacity of 400 SCMH Suction Pressure Range: 14 - 19 kg/cm ² (g) motor driven CNG composite dispensing unit package with discharge flow capacity of 250 SCMH Suction Pressure Range: 14 - 19 kg/cm ² (g)	We will consider 400 SCMH flow capacity with suction pressure range 14-18 kg/cm ² (g)	Bidder shall quote for 250 SCMH and 400 SCMH Separately
3		6	9 of 227 of Technical Volume II of II	INSPECTION	Kindly approve Gulf Lloyds Industrial Services (INDIA) PVT. LTD. third party inspection agency.	Tender conditions shall prevail
4		7.6	10 of 227 of Technical Volume II of II	The Supplier shall deliver a Certificate confirming to EN 10204 3.2 stating the quality, the mechanical properties, the chemical analysis, the process of manufacture and the making of the compressor.	The material selection & certificate shall be as per OEM standard. The material selection, design and inspection is to meet specific CNG application.	Tender conditions shall prevail
5	LOCATION- Deviation for 400 SCMH	1	17 of 227 of Technical Volume II of II	Periodic inspections of Safety Valves, Transmitters, Pressure vessel gauge and any other equipment as per statutory norms of UP Factory Rules 1950. SMPV and Gas Cylinder Rules shall have to be carried out by the bidder at his own cost during the period of maintenance by the bidder	Periodic inspections will be carried out as per OEM standard	Both OEM standards & local govt. norms to be followed
6		2.2	19 of 227 of Technical Volume II of II	Online 400 & 250 SCMH SCMH motor driven CNG composite dispensing unit package.	We considered only 400 SCMH SCMH motor driven CNG composite dispensing unit package.	Bidder can quote either Group A or Group B or Both Groups
7		2.3	19 of 227	Three banks 600 Water Liter (minimum) capacity Cascade along with 400 SCMH compressor package	For 400 SCMH compressor package cascade capacity will be 750 WL	Accepted, as per PESO approval
8		2.4	19 of 227	The storage cylinders to be kept completely inside the enclosure of the machine.	Due to space constraint cascade will be mounted on top of the enclosure.	Refer Gas Cylinder Rules 2016 for definition of Motor Driven CNG Composite Dispensing Unit Package
9		2.6	19 of 227	Dispenser should be detachable that can be used in separate location. If required vendor may be asked to connect 2 dispensers with the unit. Provision for necessary modifications shall be provided.	Dispenser will be detachable but can not shift anywhere because will done with considering composite package.	Tender conditions shall prevail
10		2.8	19 of 227	Air compressor of capacity 1.5 KW with air receiver with PRV, digital air dryer along with all accessories and auxiliaries shall be supplied for each CNG compressor package.	We recommend gas actuated valves which shall eliminate maintenance activity of air compressor & save power and any down time due to air compressor breakdown.	Deviation not allowed due to safety reasons
11		2.11	20 of 227 of Technical Volume II of II	Bidder need to submit copy of valid type approval for offered motor driven CNG composite dispensing unit package from PESO along with the bid. Bidder must submit duly peso approved mechanical drawings/ mechanical design of the motor driven CNG composite dispensing unit package along with the Bid.	CCOE or its equivalent certificate (FM, CSA , ATEX, UL, CMRI) whichever applicable & available will be provided. All Test certificates will be as per QAP submitted with Technical offer.	Bidder to submit complete Package PESO approval certificates & respective of all electrical & instrumentation PESO,ERTL,CIMFER & other equivalent testing agency certificates for approval.
12		2.12	20 of 227 of Technical Volume II of II	Enclosure wall and doors shall be fire resistant and insulated from inside with Rockwool. The side wall of the enclosure/doors shall not have any louvers (To prevent accidental escape of debris/fire). Doors shall have heavy duty double security locks to curtail sudden high pressure inside the enclosure.	Canopy design will be as per OEM standard, detail GA of package will be provide for approval.	Bidder shall submit canopy design documents, MOCs, and drawings for approval post award
13		2.13	20 of 227	Since motor driven CNG composite dispensing unit package is planned to be placed inside the forecourt in the CNG station hence design of the enclosure should be impact resistant of slow moving vehicle and bidder should submit detailed calculations for the value of impact to be sustained by the enclosure offered by the bidder.	We insure design of the enclosure should not be impact resistant of slow moving vehicle, not feasible to submit the calculation.	Tender conditions shall prevail
14		2.14	20 of 227	4 nos. mass flow meters to measure the Natural Gas consumption at packages inlet – 1 no. & package discharge – 2 no. (part of dispenser section), both Coriolis type. The flow meters should be enabled with MODBUS/RS 485 communications. 1 No Mass flow meter to measure Vent Loss.	Suction MFM-Considering integral machine with dispenser mounted on machine, Suction MFM shall be supplied loose and to be assembled onsite, Vent MFM-As compressor crankcase being pressurized same is not applicable	Tender conditions shall prevail
15		2.16 5.1.1.5 5.1.1.6	20 of 227 53 of 227	PLC based control panel with HMI. PLC based control system with 10" touch screen display. PLC shall be provided with mounting rack, CPU, Input output cards, Power supply card, communication card. PLC CPU shall be redundant (1W+1S) with auto switch over without manual intervene. Both CPU shall be connected with High-speed ring for bump less change over between primary and secondary CPU. This shall not affect compressor operation. Failure alarm of CPU shall be provided in HMI. A dedicated Modbus (RS 485) slave communication port shall be provided for Remote terminal unit (RTU) interface. Additionally, separate communication ports shall be provided for GPRS modem for communication with SCADA system. data will be viewed / analyzed offline (during shut down of compressor) or online through dedicated SCADA port (Ethernet / RS 485) on client's Laptop/ Local PC. Laptop to be supplied by bidder. Necessary software for downloading data and processing as define above shall be provided. 10 Meter cable with suitable adaptor (if required) shall be provided by the Bidder.	PLC based control system with 7" touch screen display will be provided. PLC CPU redundant will not be considered due to space constraint. SCADA is not considered in bidder's scope. Ethernet port is provided for customer SCADA, remote Monitoring communication. SCADA compatibility is provided for remote monitoring. GPRS & SCADA system not considered in bidder scope Ethernet port is provided for customer SCADA communication, suitable adaptor, Laptop and cable will be in customer scope.	No deviation allowed for GPRS, PLC and SCADA, 10" Single Unit Touch screen shall be provided Regarding PLC based compressor control system, tender condition shall prevail. SCADA is not in bidder's scope. Except if all other system items, components as mentioned in this clause no. & pages shall be in bidder's scope.

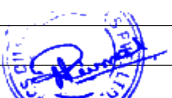


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16	DOC NO. C21108-CGD-ME-SOW-3001A-TECHNICAL SPECIFICATION	2.21	20 of 227	Block & bleed valves/Two valve SS316 Manifold to be provided for Pressure gauges and pressure Transmitters.	Needle valve will be provided for isolation of PG & PT.	Needle & bleed valve can use in place of Block & bleed valve.
17		2.22	21 of 227	Common structural steel skid for the compressor- Motor combination and for all auxiliary systems including cascade, dispenser, priority panel, control panel etc. with Two number III type point gas detectors, two number Flame detector UV type inside the enclosure.	Auxiliaries like CO2, PRS Skid will be supplied loose & to be mounted away from package. Considering smaller layout of the package, 01 nos each of GD and FD is considered.	Tender conditions shall prevail
18		2.26	21 of 227	2 way/ 3 way valves with full flow ball valve for priority line.	Auto operated 2 way ball valves will be provided.	Accepted, as per PESO approval
19		2.32	21 of 227	One no. relief valve at each stage discharge, first (1st) stage suction and Blow Down Vessel.	First stage suction is connected with blow down vessel so separate relief valve not considered for first stage suction.	Tender conditions shall prevail
20		2.34	21 of 227	Coupling/V-belts/pulleys.	Belt drive will be provided.	V-belts shall be provided
21		2.35	21 of 227	Common CO2 extinguishing system consisting of two cylinders, piping, valves and control systems as per details given in this specification. Block & bleed valves/Two valve SS316 Manifold to be provided for Pressure gauges and pressure Transmitters.	TubeFit make CO2 system will be provided, details will be submit for approval.	Accepted, as per PESO approval
22		2.47	22 of 227	Three no. Emergency stop button (push type) along with one hooter in office/customer interface room.	One number ESD on machine & two number ESD on dispenser will be provided.	Three no. Emergency stop button (located in suitable location of the station) along with one hooter in office/customer interface room shall be considered.
23		2.49	22 of 227	Secondary lubrication system with check valve protector, HP Filter (for all lubricating points) & DNFT flow switches with standby pump according to manufacturer safe design. Secondary lubrication system with divider block shall be provided.	Lubrication system is splash lubrication type as per manufacturer's standard.	Accepted, as per PESO approval
24		2.54	22 of 227	For added safety, manufacturer shall provide Compressor, Cascade & Dispenser in three separate sections, isolated from each other using heavy gauge steel sheet wall of minimum 15 mm thickness.	Isolation for compressor, cascade & dispenser will be as per manufacturer's standard, we have supplied the same to other customer and running satisfactory.	Tender conditions shall prevail
25		2.55	22 of 227	Cables	All field cables and accessories like glands, conduit will be in customer scope.	All field cables and accessories like cable glands, conduit etc., related to compressor & its auxiliaries shall be in bidder's scope, including incoming 3-phase, 415V Power cable to Compressor unit, 230V AC UPS & Non-UPS power cable from customer's UPS DB etc.
26		2.55 e	23 of 227	Supply of signals and power cable from Emergency push button (field and control room) to Compressor PLC and RS 485 port cable of Compressor PLC to Client's RTU. Vendor shall provide all the RS 485 configuration details to RTU vendors/client/consultant required for configuration. Vendor shall also provide their support during configuration.	Ethernet port is provided for customer SCADA, remote Monitoring communication.	Tender conditions shall prevail
27		2.56	23 of 227	Supply of Communication Cables, cable glands, termination of cable and cable laying from dispenser & Compressor PLC (in Composite package) to junction box is in Vendor's scope. Supply of standard male, WP IP A2 junction boxes, terminal blocks and installation of junction box shall be in Vendor's scope. Junction box shall have 8 inputs cables entry points (side) and two outgoing entry points including spare (bottom), cable entry from top is not accepted, size of junction box to be decided by vendor. All the spare entry shall be plugged properly. Vendor shall be responsible to provide all the signals at the junction box which will be connected to RTU in future. During installation & commissioning of dispenser same will be checked by CLIENT'S Engineer.	Degree of protection will be IP-66, side and bottom cable entry will be as per manufacturer (Vendor) standard and it depends on package internal layout. Ethernet port is provided for customer SCADA.	Noted
28		2.57	23 of 227	Communication cable is single pair (1Px1.5mm2), multi strand, armoured cable with HR PVC insulation and PVC st2 inner and outer sheath. Tentative cable length from each dispenser to junction box is approx. 50 meters, however vendor shall provide cable length as per requirement.	All field cables, communication cable will be in customer scope.	All field cables, communication cable/Cat-6 cable, power cable shall be in bidder's scope.
29		2.61	23 of 227	CUGL & CNG logo and name shall be printed on stainless steel panel to cover completely on both the sides of the doors. Colour code and logo design shall be obtained from client. Additional set of stickers (2 Nos per dispenser) is required to be supplied along with the dispenser.	Branding & painting of the package will be as per ACIL standard.	Tender conditions shall prevail
30		2.66	24 of 227	The maximum size of the package shall not exceed more than 4.0 meters (length) x 2.0 meters (width). The package offered over & above of this size shall be rejected.	Package footprint will be 3.7 meter length X 1.5 meter width with integration of cascade, priority panel & dispenser.	Smaller footprint accepted
31		5.1.2	29 of 227	BATTERY LIMITS All customer interface connections, gas inlet shall be brought out to the package edge and terminated with ½" OD SS-Tube.	Main gas inlet nozzle size at package battery limit shall be 2"-300# WNRF, and piping between PRS skid and package will be in customer scope.	Tender conditions shall prevail
32		6	30 of 227	AS-BUILT DOCUMENTS	All documents will be provide in PDF format.	Tender conditions shall prevail
33		7	35 of 227	Noise level at 1 meter from enclosure (required 75 dBA max)	The enclosure shall be engineered for the noise level of maximum 75dBA measured at 1m from compressor side in free field condition.	Noted





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34		2	40 of 227	<p>Codes & Standards 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. 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. The following codes and standards (Latest versions/revisions valid on the date of order) are referenced to & made part of specification: API-11P (Second edition), ISO 13631-2002, TRUNK PISTON API-618 Gas Cylinder Rule 2016 CCOE (PESO) IS- 3224 IS 7285 (Part 2) Indian Explosive rules NZS-5425 ATEX OIML R-139 IAS NGV 4.2.CSA12.52, NGV 4.1, NGV 4.4, NGV 4.6 AND AGA Indian electricity rules, Indian Explosive act, IS 2825 code. ASME code section IX ASME B 31.3-Process Piping NFPA-37, OISO 179:2016, NFPA-52: 2016 NFPA-12:2015, IS- 6382, Gas Cylinder Rule: 2016 IS: 5571, IS- 5572, IS- 5580, IS-325/IEC or EQV for electric motor. ANSI, ASTM, NEC, NEMA</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.	Noted, PESO approval is applicable		
35		2.1	40 of 227	<p>Precedence 3. International standards/codes as applicable 4. Indian Standards / codes applicable</p>		Noted, PESO approval is applicable		
36		2.1	42 of 227	Each package ENCLOSURE shall have two L.E.L detectors (IR Type) and two Ultra Violet (UV) fire detectors to cover the enclosure effectively as already spelt in the scope of supply.	Considering smaller layout of the package, 01 nos each of GD and FD is considered.	Tender conditions shall prevail		
37		2.1	42 of 227	The Compressor Package shall trip if any of the enclosure is opened while the machine is running.	Considering smaller layout & compact design of the package providing limit switch is not feasible.	Tender conditions shall prevail		
38		3.3.1	45 of 227	As and where specified on the data sheets all vents (i.e. Relief valve, distance piece, packing and starting air) shall be manifold and terminated at skid edge outside the enclosure and vented to safe height at package roof. Silencer has to be provided in the starting air vent line.	All the vents will be manifolded and terminated at a single point of the package as per manufacturer's design layout for the package. Separate header is not considered. Packing vent line is not applicable since crankcase is pressurised and gas loss is zero.	Noted, PESO approval is applicable		
39		3.3.1	45 of 227	All drains from different process equipment, distance piece and packing shall be manifold and terminated as single point for customer interface duly flanged with isolation valve. Drains should be through a common header and discharge to be allowed in a pit to avoid spillage around compressor package.	All drains single point threaded connection with isolation valve will be provided.	MOC shall be provided for approval		
40		3.3.1	45 of 227	UPS and Non UPS power shall be made available from power distribution board (PDB) in the electrical room. Supply, Erection and termination of all cables and accessories from feeder in electrical room shall be in the bidder's scope.	All field cables and accessories will be in customer scope.	Tender conditions shall prevail		
41		4.1	46 of 227	<p>3. Code and specification API-11P, API-618, OISO 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>	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.	Noted, PESO approval is applicable		
42		4.1	46 of 227	Suction line pressure may vary from 14 kg/cm2G to 19 kg/cm2G with discharge pressure remaining constant at 255 kg/cm2G. A suction pressure regulator shall be installed by purchaser to limit the suction pressure to 19 kg/cm2G. The suction pressure of 14 kg/cm2G shall be used for compressor sizing/selection	Suction pressure range will be 14 to 18 kg/cm2G for 400SCMH package.	Tender Condition Prevails		
43		4.3	47 of 227	Allowable speeds, temperature and vibration levels	Will be as per ACIL standard.	Tender conditions shall prevail		
44		4.4	48 of 227	Piston Rod, Bearings and Cross Heads	Will be as per ACIL standard.	Tender conditions shall prevail		
45		4.5	48 of 227	Packing Cases and Pressure Packing	Will be as per ACIL standard.	Tender conditions shall prevail		
46		4.6	48 of 227	Compressor Frame Lubrication	Will be as per ACIL standard.	Tender conditions shall prevail		
47		4.7	48 of 227	Distance Pieces	Not applicable	Tender conditions shall prevail		
48		4.8	48 of 227	Cylinder and Packing Lubrication	Will be as per ACIL standard.	Tender conditions shall prevail		

3001- For 400 SCMH package





-3001- For 400 SCMH package



<div></div> <div>ENERGISING QUALITY</div>		<div>REPLY TO BIDDER'S PRE-BID QUERIES FOR PROCUREMENT OF 400 & 250 SCMH MOTOR DRIVEN CNG COMPOSITE DISPENSING UNIT PACKAGE FOR CITY GAS DISTRIBUTION PROJECT AT KANPUR, UNNAO, BAREILLY & JHANSI GA</div> <div>TENDER NO. CUGL/VCS/ PRC/2022/01 TENDER ID : 54149</div>			VCS Ref. No.: VCS/CUGL/1036/PRC/2022/001		<div></div>
					Owner - CENTRAL UP GAS LIMITED (CUGL)		
					Consultant - VCS Quality Services Pvt Ltd.		
					Pre-bid meeting held on 26.09.2022		
					Date: 01.10.2022		
Sl. No.	REFERENCE OF BIDDING DOCUMENT No.				Bidder's Query/Clarification	CUGL/VCS Reply	
	Tender Sec.No.	Tender Clause No.	Tender Page No.	Tender specification / Clause Description			
49	DOC NO. C211036-CGD-ME-TS	4.9	49 of 227	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 50 °C (max.) and 80% RH shall be considered. Cooler design shall be on the basis of 20% excess capacity than required corresponding to suction pr. of 19 kg/cm2(g). Gas sections of coolers shall be designed as per API-661 requirements. Vibration switch shall be provided on the heat exchanger to trip the compressor on high vibration limit. Bidder shall indicate vibration level in the offer. For cooling of the Heat Exchangers a cooling fan 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.	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 satndard design approach same is proven for earlier supplied packages. vibration level will be as per manufacturer level. cooler sizing calculation is proprietary name shall not be submit for review/record.	Tender conditions shall prevail	
50		4.10	49 of 227	Carbon Steel separators / KOD/volume bottles with auto drain system shall be provided for the capacity as required.	Manual drain for separator not provided for safety reasons. This is as per proprierty design of machine.	Tender conditions shall prevail	
51		4.10	49 of 227	Minimum design temperature for separators shall be 100°C. Minimum design temperature for separators/KOD/volume bottle shall be 71°C and minimum design pressure shall be maximum operating pressure plus 15% for inter-stages and plus 10% for final stage II be maximum operating pressure plus 15% for inter stages and plus 10% for final stage.	All pressure vessels shall be designed as per ASME VIII Div. 1 or equivalent.	Noted, all pressure vessels shall be U-stamped	
52		4.10	50 of 227	Oil from all drains shall be collected into the oil recovery pot. Oil recovery pot shall be provided with manual drain arrangement. Capacity shall be min. 15 water liter.	Oil draing & pot will be as per ACIL standard.	Tender conditions shall prevail	
53		4.11	50 of 227	Pulsation, Vibration Control and Analog Study	Inherent design Point. No details available in this regrads, hence not considered the same.	Tender conditions shall prevail	
54		4.13	50 of 227	The maximum allowed temperature within the enclosure shall be 5°C above ambient temperature. Adequate ventilation fans/suitable arrangement shall be provided to meet the above and also to account for heat dissipation of the coolers.	Tempreture inside canopy = Ambient + 8 Deg	Noted, bidder shall confirm temperature specs for each equipment accordingly	
55		4.13	50 of 227	For handling of all heavy parts for maintenance purpose suitable lifting arrangement shall be provided i.e. beam fitted with chain hoist arrangement. The chain hoist arrangement i.e. chain pulley block shall be removable type, which can be disassembled and shifted onto the other machines. Ino. each shall be provided for tendered quantity of compressors. Eye bolt arrangement shall be provided on heavier components like electric motor, cylinder crankcase, and wherever felt necessary for lifting during maintenance	For handling of all heavy parts for maintenance purpose suitable arrangement will be provided.	Tender conditions shall prevail	
56		4.13	50 of 227	The bidder shall also provide 1 nos. monkey ladder for safe climbing on the top of the canopy along with hand railing on the top for ease of maintenance and operation. Jack arrangement required for alignment of the motor.	Sliding type ladder will be provided.	Tender conditions shall prevail	
57		4.13	50 of 227	All the pressure, temperature, gas flow meter, oil level, lube oil pressure, coolant temperature, coolant level indicators shall be visible from outside of enclosures.	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.	Noted	
58		4.14	51 of 227	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.	Noted, as per PESO approval	
59		5.1.1.11	54 of 227	The priority fill systems:	6-line priority fill panel shall be provided for pressure monitoring and working on PP pressure transmitter shall be provided, guages not considered. As per OEM standard priority shall be of 1/2" tube & fittings.	Tender conditions shall prevail	
60		5.3	57 of 227	One no. of Laptop for with following specifications shall be provided by the Bidder:	Laptop will not be considered in bidder scope.	Tender conditions shall prevail	
61		5.6.6	60 of 227	Soft Starter Panel:	Star Delta starter will be provided.	Tender conditions shall prevail	
62		5.6.6.2	62 of 227	CABLUNG	All field cabling will be in customer scope.	Tender conditions shall prevail	
63		6.1	65 of 227	CERTIFICATION: 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 equired, idder shall provide necessary certification /approvals /authentication, for all such intrinsically safe /flameproof equipment /instrument /systems, by the Indian authority-Chief Controller of Explosive (CCoE)/PESO, Nagpur, India.	CCOE or its equivalent certificate (FM, CSA , ATEX, UL, CMRI) whichever applicable & available will be provided. All Test ecrtificates will be as per QAP submitted with Technical offer.	Noted, as per PESO approval	





 ENERGISING QUALITY		<div>REPLY TO BIDDER'S PRE-BID QUERIES FOR PROCUREMENT OF 400 & 250 SCMH MOTOR DRIVEN CNG COMPOSITE DISPENSING UNIT PACKAGE FOR CITY GAS DISTRIBUTION PROJECT AT KANPUR, UNNAO, BAREILLY & JHANSI GA</div> <div>TENDER NO. CUGL/VCS/ PRC/2022/01 TENDER ID : 54149</div>				VCS Ref. No.: VCS/CUGL/1036/PRC/2022/001	
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64		8.2	67 of 227	Mechanical running test (MRT)	MRT will be carried out as per ACIL std.	Tender conditions shall prevail	
65		10	71 of 227	PAINTING AND PROTECTION	Painting shall be as per the manufacturer's standards. We shall ensure the paint durability in all weather conditions.	Tender conditions shall prevail	
66	C211036-CGD-ME-DS-3001C-For 400 SCMH package	1.1	100 of 227	LIST OF MINIMUM INSTRUMENTATION & CONTROLS TO BE PROVIDED FOR COMPRESSOR:	2. Main L/O Pump Disch. Pr (supply header) –NA as splash type lubrication system provided 12. Lubricator Failure-NA as splash type lubrication system provided 21. Slight Flow CW return each cylinder, Cooler & Header- NA as compressor is air cooled. 23. Coolant main pump disch. Pr- NA as compressor is air cooled. 28. Coolant cooler Outlet Temp.-NA as compressor is air cooled. 29. Coolant reservoir Level-NA as compressor is air cooled. 38.Each stage Outlet temp.: Not considered, after cooler outlet temprature considered. 48. Blow Down vessel Pressure- As suction line and BDV are inter connected, PT at suction line considered 49. Vibration on comp-Not considered.	LIST OF MINIMUM INSTRUMENTATION & CONTROLS, required for Compressor & it's auxiliaries has been mentioned in the tender, which will be decided & finalised during detail engineering, based on process safety, equipment safety & smooth operation of system.	
67		-	100 of 227	QUALITY ASSURANCE PLAN –CNG COMPRESSOR	Inspection & Testing will be as per Approved QAP by customer, detail QAP will be submit for approval.	Noted, QAP shall be submitted for approval	
68	DOC NO: C211036-CGD-ME-SOW-3001B	-	131 of 227	SCOPE OF WORK- CNG CASCADE	EKC make 750 WL capacity will be provided, details will be provide for approval.	Accepted, as per PESO approval	
69	DOC NO: C211036-CGD-ME-SOW-3001C	-	167 of 227	SCOPE OF WORK – CNG CAR DISPENSER	Parker make dispenser will be provided, details will be provide for approval.	Accepted, as per PESO approval	
70	DOC NO: C211036-CGD-ME-VL-3001	-	216 of 227	VENDOR LIST FOR BOUGHT OUT ITEMS	Kindly approve below makes : Ball Valves- PHBB Fittings- Baumer On / Off Pneumatic Valve (Actuator) -EI-O-Matic. PLC-Phoenix GD & FD- ESP safety.	Tender conditions shall prevail, any deviation shall be submitted for vendor approval separetly	
71	MATERIAL REQUISITION FOR 400 & 250 SCMH MOTOR DRIVEN CNG COMPOSITE DISPENSING UNIT PACKAGE	1	5	Design, Engineering, Manufacturing, Inspection, Testing, Supply, erection, Transportation, loading & unloading at Geographical area of Kanpur, Unnao, Bareilly and Jhansi site/store, Installation, commissioning with commissioning spares & Field performance test	Please note, our contract ends if the package is delievered either at site or store. Incase the package is delivered to Store futher loading, Retransportation and unloading on to the foundation at site shall be in client scope. Please confirm the same.	Tender conditions shall prevail	
72		8	7	j) All approved drawings / design calculation / maintenance & operating manual documents as well as inspection and test reports for Owner's / Consultants reference / record in nicely category-wise bound volumes (in Hard Copy) and in Soft Copy separately.	We request you to accept all the document in Soft form to speed up the process of approval as well as to complete all the contractual obligations on time.	To expedite, soft copies shall be submitted first, followed by hard copies	
73		1	3	Design, Engineering, Manufacturing, Inspection, Testing, Packaging, Supply, Erection & Commissioning including Performance Acceptance Test at site along with CAMC during One year warranty period and subsequent Five year after one year warrantee period including supply of all spares and consumable items fo	Please note, our contract ends if the package is delievered either at site or store. Incase the package is delivered to Store futher loading, Retransportation and unloading on to the foundation at site shall be in client scope. Please confirm the same.	Tender conditions shall prevail	
74		1	3	field trial run of each composite unit for minimum 72 hours continuous at 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 CAMC 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	As Full load performance test is carried out at works for 4 hours on guarantee parameter on Natural gas, we request you to consider 30 mins filed trial run and also performance test at site.	Tender conditions shall prevail	
75		1	4	Periodic inspections of Safety Valves, Transmitters, Pressure vessel gauge and any other equipment as per statutory norms of Delhi Factory Rules 1950. SMPV and Gas Cylinder Rules shall have to be carried out by the bidder at his own cost during the period of maintenance by the bidder.	Hydro testing of pressure vessels to be excluded from bidder scope. The vessels are part of a process equipment and are to be designed as per ASME Sec VIII. The process vessels have not been covered under Gas Cylinder Rules 2016 / Static and Mobile Pressure Vessels Rules. Clauses Tender Conditions prevail. applicable for vessels in compressor package are not present in Gazette notifications of Gas Cylinder Rules 2016 / Static and Mobile Pressure Vessels Rules.	Tender conditions shall prevail	
76		1	6	Receipt at site, storage in warehouse as per manufacturer's recommendation and safety and security from theft and breakage during transportation, handling including security guard at site.	The storage in warehouse, safety and security from theft shall be in Client's scope. Kindly confirm your acceptance to the same.	Tender conditions shall prevail	
77		2.1	6	package performance test (FAT) at Bidder's shop	Please note, Dispenser and cascade shall be bypassed during FAT as we cannot establish dispensing and storage. Please confirm.	Noted, ITP shall be submitted for FAT, for approval	
78		2.4	6	The storage cylinders to be kept completely inside the enclosure of the machine.	We will keep cascade on the top of the enclosure and cover it by the enclosure side walls and top portion of the cascade itself having the enclosure hence no need to provide/cover from all the sides. We have supplied Integrated package to IGL and MGL and running successfully. Please confirm your acceptance.	Refer Gas Cylinder Rules 2016 for definition of Motor Driven CNG Composite Dispensing Unit Package	







 ENERGISING QUALITY		<div>REPLY TO BIDDER'S PRE-BID QUERIES FOR PROCUREMENT OF 400 & 250 SCMH MOTOR DRIVEN CNG COMPOSITE DISPENSING UNIT PACKAGE FOR CITY GAS DISTRIBUTION PROJECT AT KANPUR, UNNAO, BAREILLY & JHANSI GA</div> <div>TENDER NO. CUGL/VCS/ PRC/2022/01 TENDER ID : 54149</div>				VCS Ref. No.: VCS/CUGL/1036/PRC/2022/001	
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79		2.6	6	Dispenser should be detachable that can be used in separate location. If required vendor may be asked to connect 2 dispensers with the unit. Provision for necessary modifications shall be provided	Please note, dispenser shall not be detachable type and we cannot add 2 dispenser with the unit. Kindly review the clause and provide clarifications.	Tender conditions shall prevail	
80		2.7	6	Dispenser shall be supplied with standard enclosure	Please elaborate on the requirement to understand it better.	As per OEM Standard, drawings to be submitted for approval	
81		2.11	7	Bidder need to submit copy of valid type approval for offered motor driven CNG composite dispensing unit package from PESO along with the bid. Bidder must submit duly peso approved mechanical drawings/ mechanical design of the motor driven CNG composite dispensing unit package along with the Bid.	Please confirm your acceptance of 400 SCMH PESO certificate for 250 SCMH capacity also else we shall provide PESO certificate for 250 SCMH after dispatch of the package from our works.	Tender conditions shall prevail	
82		2.12	7	Enclosure wall and doors shall be fire resistant and insulated from inside with rockwool. The side wall of the enclosure/doors shall not have any louvers (To prevent accidental escape of debris/fire). Doors shall have heavy duty double security locks to curtail sudden high pressure inside the enclosure.	Please note, Louvers shall be provided on side walls for ACHE and it is a proven design. Kindly confirm your acceptance.	Accepted, as per PESO approval. Drawings to be submitted for approval	
83		2.14	7	4 nos. mass flow meters to measure the Natural Gas consumption at packages inlet – 1 no. & package discharge – 2 no. (part of dispenser section), both Coriolis type. The flow meters should be enabled with MODBUS/RS 485 communications.	Please note, 2 nos of mass flow meter is not envisaged at the package discharge. This may lead to increase in the price and space of the package. Kindly confirm the same.	Tender conditions shall prevail	
84		2.2	7	Pressure Transmitter and Temperature Transmitters shall be used for CNG Gas application with 4-20 mA output signals to PLC	We will provide temperature elements instead of Temperature Transmitters, considering the space inside the package.	Tender conditions shall prevail	
85		2.21	7	Block & bleed valves/Two valve SS316 Manifold to be provided for Pressure gauges and pressure Transmitters	Block and bleed valves cannot be offered due to space constraints. We shall offer needle valves for Pressure Gauges and Pressure Transmitters. Please confirm your acceptance.	Tender conditions shall prevail	
86		2.32	8	One no. relief valve at each stage discharge, first (1st) stage suction and Blow Down Vessel.	Relief valve at first stage suction is not required in addition to one on blow down vessel as suction line and blow down vessel are connected to each other.	Tender conditions shall prevail	
87		2.33	8	Y- type strainers, valves, sight flow indicators, check valves, auto & manual drain traps etc. as required for various auxiliary systems i.e. frame lube oil, cylinder lubrication system, cooling water systems etc. according to manufacturer safe design.	Please note that as per Manufacturer's standard practice the lubricator will be divider block type. Y type strainers, Sight flow indicators, check valve etc are applicable for Single Plunger per point lubricator, thus not applicable.	Noted, P&ID and divider block drawings shall be submitted for approval	
88		2.38	8	Field Performance test at site	As Full load performance test is carried out at works for 4 hours on guarantee parameter on Natural gas, we request you to consider 30 mins field trial run and also performance test at site.	Tender conditions shall prevail	
89	TECHNICAL SPECIFICATION – 400 & 250	2.40	8	One set of priced spare parts catalogue along with the priced bid (Part-II), as built drawings and Maintenance catalogue with each Integrated CNG Compressor package.	There is no provision to provide prices of spare parts in the SOR. Please clarify.	List of vendor recommended spares shall be submitted for approval	
90	SCMH MOTOR DRIVEN CNG COMPOSITE DISPENSING UNIT PACKAGE	2.42	9	Only air cooled and lubricated compressor with suction/discharge volume bottles (dampers) for each stage (separators) with manual drains and automatic drain system, lube oil system, closed circuit cooling water system (console type)/Air cooled according to manufacturer safe design.	Please note that as per manufacturer's standard, volume bottles will be provided at each stage suction and final stage discharge only. Please confirm your acceptance.	Noted, PESO approval applicable. P&ID and Drawings to be submitted for approval	
91		2.45	9	Duplex suction filters with filtration level upto 5 Micron to be provided outside battery limits of the package at the inlet of package with DP gauge after Y- type strainer.	Please note Duplex suction gas filter with oil drains and temporary suction inline strainer will be placed outside the package as the compressor package inlet.	Tender conditions shall prevail	
92		2.49	9	Secondary lubrication system with check valve protector, HP Filter (for all lubricating points) & DNFT flow switches with standby pump according to manufacturer safe design.	Standby pump is not envisaged and therefore will not be provided. Oil pump mounted on compressor is sufficient for cylinder lubrication.	Tender conditions shall prevail	
93		2.53	9	Master operator cum Maintenance technician needs to be available at one location of Client's choice along with mandatory tools and spares. Master operator shall also provide necessary training to Client staff for successful operation as and when required.	We request you to include operations of the compressor packages in bidder's scope. A team of maintenance comprising of electrical, instrumentation and mechanical personnel will be deployed for a group of machines. Also, in order to ensure round the clock operation of the compressor package, one operator (with suitable reliever) will be required per shift for each machine. Please confirm your acceptance.	Tender conditions shall prevail	



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94		2.55	9	Cables	Main incoming Power cable from owners Power Distribution Board (PDB) to main control panel of the compressor through heavy duty GI conduit or trenches with double compression cable gland, ex proof gland in hazardous area, cable tags, lugs etc. as required. - By client Also, request you to please share the below distances in order to enable us to consider cable costs: 1. Compressor package to control/electrical room 2. UPS DB to package distance for UPS supply to PLC panel 3. ESD Locations and its distance from Package 4. Air compressor to electrical room 5. CO2 Flooding system to compressor package	All cables shall be in bidders scope. For cost purpose approx 50m length may be considered.		
95		3.5.3 SCOPE OF SERVICES	15	The bidder shall carryout calibration of gas detectors and flame detectors every six months or earlier as per requirement or instruction of EIC of CLIENT. 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.	For mass flow meters, only zero calibration shall be carried out.	Tender conditions shall prevail		
96		3.5.3 SCOPE OF SERVICES	15	The bidder shall carry out retesting of pressure vessels periodically i.e. every year or earlier as per Gas Cylinder rules 2016 / Static & Mobile Pressure Vessels Rules	All pressure vessels are part of a process equipment and shall be designed as per ASME Sec VIII Div.1. The process vessels have not been covered under Gas Cylinder Rules 2016 / Static and Mobile Pressure Vessels Rules. Retesting is carried out for only storage vessels like cascade. Only thickness check will be carried out every year.	Tender conditions shall prevail		
97		5.1.1	16	Bidder shall provide UPS (230 ±1 % V, 50 ±1 % Hz) for control supply requirements at a single point (feeder in UPS ACDB) inside the electrical room.	We understand that we need to provide UPS.	Bidder understanding is correct, Tender conditions shall prevail		
98		9.0 GUARANTEED PARAMETERS a). For basis of loading and penalty	21	SUCTION PR 19 KG/CM2(g); COMPRESSOR CAP. by BIDDER - 400 SCMH / 250 SCMH	We understand that 400 * 250 SCMH shall be at 14kg/cm2G suction pressure and same shall be considered for guaranteed parameters. All the details for suctionpressure at 19 kgcm2G are indicative and not for evaluation purpose.	Tender conditions shall prevail		
99		3.2	8	Bidder shall provide UPS (230 ±1 % V, 50 ±1 % Hz) for control supply requirements at a single point (feeder in UPS ACDB) inside the electrical room	We understand that we need to provide UPS.	Tender conditions shall prevail		
100		8.0	8	Silencer has to be provided in the starting air vent line	Starting air is not required for motor driven compressors hence not applicable.	Noted		
101		9.0	8	Bidder shall make his own provision for Instrument air if required with an electric motor driven air compressor with a suitably sized receiver & Refrigerant type air drier system. Air Compressor motor should be 415 V squirrel cage motor DOL / star delta starter having overload protection, single phase preventer. Gas based actuator to used for compressor & dispensers hence no air compressor is required	Please confirm whether the actuation of instruments will be with the aid of gas or air.	Tender conditions shall prevail		
102		2.2 Safety	4	Relief valves shall be provided at suction and discharge and each inter stages of compressor with setting as per cl.7.20.4 of API-11P with R.V. venting as per cl. 7.20.4 of API-11P.All vented to common relief valve header.	Relief valve at first stage suction is not required in addition to one on blow down vessel as suction line and blow down vessel are connected to each other.	Tender conditions shall prevail		
103		8.3	30	Mechanical String Test	Please note, Dispenser and cascade shall be bypassed during string test as we cannot establish dispensing and storage. Please confirm.	Tender conditions shall prevail		
104		9.7.1	31	I = Factor towards lifecycle in hours @ 58400 hours (Considering daily running of 16 Hrs)	We request you to consider : Operating Time in hours = 6570 Hrs & discounting factor to arrive at Net Present Value (NPV) based on 5 years i.e. 3.274 instead of 58400 hours. Kindly confirm your acceptance to participate in the tender.	Tender conditions shall prevail		
105		9.7.1	32	I = Factor towards lifecycle in hours @ 58400 hours (Considering daily running of 16 Hrs)		Tender conditions shall prevail		
106		9.7.3	33	9.7.3 Penalty for Non-Performance during one year warranty period and further 5 years CAMC period.	The maximum penalty imposed in a month for non performance of the equipment (including Gas loss, energy consumption, etc) shall be limited to 50% of the O & M amount to be paid to the bidder per month per compressor.	Tender conditions shall prevail		
107				INSPECTION AND TEST PLAN (QAP) FOR CNG COMPRESSOR	Please note, QAP shall be as per Manufacturer standard and same shall be shared during detaied engineering stage.	Noted, QAP to be submitted for approval		
108				STRIP CHECK INTERNAL INSPECTION AFTER "NLMRT" OF ALL COMPRESSORS - REFER NOTE: 2 AT PACKAGER'S END	Not possible after NLMRT.	Tender conditions shall prevail		



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	Tender Sec.No.	Tender Clause No.	Tender Page No.	Tender specification / Clause Description			
109				MECHANICAL RUN TEST AND STRING TEST WITH AIR/N2/NATURAL GAS	Please note, Dispenser and cascade shall be bypassed during string test as we cannot establish dispensing and storage. Please confirm.	Tender conditions shall prevail	
110				Maintenance of compressor packages for five years post warranty period (1st year during warranty period & five years post warranty period)	We request you to consider the below clause for O & M charges. "The date of successful performance test at site (which shall be conducted within 60 days from the date of successful commissioning of the machine or from the date of commercial operation whichever is earlier) will be considered as date of start of the annual maintenance contract and same shall form the basis for payment of O & M charges as per SCC. 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 year (calendar year). Price validity for the O & M rates shall be valid for Calendar year.	Tender conditions shall prevail	
111	IFB	8.1.1 (1) BEC	9 of 93	Bidder shall be a regular manufacturer of motor driven CNG composite dispensing unit package (that includes compressor, cascade & dispenser attached with each other and installed inside an enclosure box in a single unit on a single skid).	We hope that PESO certificate to this regard shall be acceptable	Tender Condition Prevail	
112		8.1.1 (3) BEC	9 of 93	The bidder in the last seven years should have a Proven Track Record "PTR", reckoned from the bid due date, for design, engineering, manufacturing, testing from the proposed facility of manufacturing, at least 1 nos. of 400 SCMH capacity of Group A and 2 no. of 250 SCMH for Group B of motor driven CNG composite dispensing unit package suitable for operation at suction pressure in the range of 14-19 Kg/Cm2 (g) with discharge pressure of 255 Kg/Cm2g. of the above supplied motor driven CNG composite dispensing unit package, at least 01 no. of Package should have completed minimum 2,000 running hours successfully as on bid due date	We are packagers & system integrators for 3 in 1 or integrated composite dispensing units for CNG. We are also into manufacturing of CNG daughter booster compressor packages and are supplying to various CNG entities like HPCL, BPCL, Thinkgas, AG&P, SKN-HCG etc we have recently got PESO approval for our composite units, which is prior approval for our package. As a result we are yet to supply any composite CNG package in the field. Thus, we request that our past experience of CNG compressors/Daughter booster be considered for qualification purpose Or alternatively, our OEM/block supplier for composite CNG units is M/s Kwangshin machine Ind. Co. Ltd., Korea, they have huge experience in supply of CNG compressors including composite units. They have supplied no. of compressors in field for CNG in countries like Korea, Indonesia, Thailand, Russia, Qatar, Bangladesh and one CNG online compressor running at HPCL, Ahmedabad for more than 10 years. Please consider global experience of our OEM/block supplier We are packaging & manufacturing under 'Make in India' concept & fall under 'Class - I domestic supplier' with > 70 % local content/locally value added services. Kindly consider our qualification	Refer BEC of the tender Clause no. 8.1 , 8.2 , 8.3 (Commercial Volume I of II) (Tender condition Prevails)	
113		8.1.1 (4) BEC	9 of 93	The bidder directly or through their authorized agencies, should have provided Maintenance services to at least 01 no. motor driven CNG composite dispensing unit package of each Group A and Group B for a period of not less than one year as on the bid due date. The period for trouble free operation & maintenance services shall be in the last Seven years from the bid due date.	As requested above, kindly consider our experience in aftersales services, i.e. Operation & maintenance services for CNG daughter booster compressors	Refer BEC of the tender Clause no. 8.1 , 8.2 , 8.3 (Commercial Volume I of II) (Tender condition Prevails)	
				8.1.1 For motor driven CNG composite dispensing unit package Manufacturer: 1) Bidder shall be a regular manufacturer of motor driven CNG composite dispensing unit package (that includes compressor, cascade & dispenser attached with each other and installed inside an enclosure box in a single unit on a single skid). 2) The bidder shall have the single point responsibility for designing, engineering, manufacturing, packing supplying, installing, testing and commissioning of 250 SCMH or 400 SCMH "motor driven CNG composite dispensing unit package" respectively during the last Seven (7) years reckoned from the bid due date. 3) The bidder in the last seven years should have a Proven Track Record "PTR", reckoned from the bid due date, for design, engineering, manufacturing, testing from the proposed facility of manufacturing, at least 1 nos. of 400 SCMH capacity of Group A and 2 no. of 250 SCMH for Group B of motor driven CNG composite dispensing unit package suitable for operation at suction pressure in the range of 14-19 Kg/Cm2 (g) with discharge pressure of 255 Kg/Cm2g. of the above supplied motor driven CNG composite dispensing unit package, at least 01 no. of	We are packager having packaging facility in India. Our Composite CNG Dispensing Unit are approved by PESO for forecourt installation. Our CCDU package comprises of proven trunk piston compressor block with PTR in CGD industry. We have recently qualified and submitted bids for Composite CNG Dispensing Unit of M/s Gail Gas Limited & IGL. Our technical and price bid towards CUGL Tender no. 014714G11031R007 29.06.2021 for Composite CNG Dispensing Unit were opened & accepted in line with the qualifications as described in BEC which is enunciated below: Quote "6.1.1 The bidder shall be manufacturer of compressor block, packager and supplier of composite -- All in One/Integrated/Gas engine driven/motor driven CNG Compressor Package and shall have the single point responsibility for manufacturing / packaging, supplying, installing and commissioning of 400 SCMH composite - All in one / Integrated CNG Compressor Package 6.1.2 Bidder in the last 07 years, reckoned from the bid due date, should have designed, engineered, manufactured, tested and supplied at least 02 nos. Gas engine driven/Electric Motor driven, Natural Gas/Bio Gas compressor packages of 250 SCMH or more discharge capacity suitable for operation at inlet pressure of 14-19 Kg/ cm2 and discharge pressure of 250 kg/cm2....."		

 ENERGISING QUALITY				REPLY TO BIDDER'S PRE-BID QUERIES FOR PROCUREMENT OF 400 & 250 SCMH MOTOR DRIVEN CNG COMPOSITE DISPENSING UNIT PACKAGE FOR CITY GAS DISTRIBUTION PROJECT AT KANPUR, UNNAO, BAREILLY & JHANSI GA TENDER NO. CUGL/VCS/ PRC/2022/01 TENDER ID : 54149		VCS Ref. No.: VCS/CUGL/1036/PRC/2022/001 Owner - CENTRAL UP GAS LIMITED (CUGL) Consultant - VCS Quality Services Pvt Ltd. Pre-bid meeting held on 26.09.2022 Date: 01.10.2022																				
SI. No.	REFERENCE OF BIDDING DOCUMENT No.				Bidder's Query/Clarification	CUGL/VCS Reply																				
	Tender Sec.No.	Tender Clause No.	Tender Page No.	Tender specification / Clause Description																						
114		8 BEC	9 of 93	<p>Package should have completed minimum 2,000 running hours successfully as on bid due date.</p> <p>4) The bidder directly or through their authorized agencies, should have provided Maintenance services to at least 01 no. motor driven CNG composite dispensing unit package of each Group A and Group B for a period of not less than one year as on the bid due date. The period for trouble free operation & maintenance services shall be in the last Seven years from the bid due date.</p> <p>5) Bidder must have successfully supplied/completed at least "Single order" of "motor driven CNG composite dispensing unit package" separately under Group A and B in the last Seven years from the bid due date for meeting the criteria of minimum quantities or higher quantities as specified in below table:</p> <table border="1"> <thead> <tr> <th colspan="3">GROUP A:</th> </tr> <tr> <th>SCMR Item No.</th> <th>Description</th> <th>Minimum Quantity should have been (Nos.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>400 SCMH CNG Composite dispensing unit at suction pressure range 14 – 18 kg/cm2g, discharge pressure 250 kg/cm2g.</td> <td>01</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">GROUP B:</th> </tr> <tr> <th>SCMR Item No.</th> <th>Description</th> <th>Minimum Quantity should have been (Nos.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>250 SCMH CNG Composite dispensing unit at suction pressure range 14 – 19 kg/cm2g, discharge pressure 250 kg/cm2g.</td> <td>02</td> </tr> </tbody> </table> <p>6) CUGL / Purchaser at any point of time before the award of the contract may/would like to visit the places /sites wherein the supplied packages had been installed by the Bidder for inspection. Bidder to facilitate the visit at the facility</p>	GROUP A:			SCMR Item No.	Description	Minimum Quantity should have been (Nos.)	1	400 SCMH CNG Composite dispensing unit at suction pressure range 14 – 18 kg/cm2g, discharge pressure 250 kg/cm2g.	01	GROUP B:			SCMR Item No.	Description	Minimum Quantity should have been (Nos.)	1	250 SCMH CNG Composite dispensing unit at suction pressure range 14 – 19 kg/cm2g, discharge pressure 250 kg/cm2g.	02	<p>The BEC was inclusive and encouraged wider participation as the safety approvals towards forecourt installation approval for Composite CNG Dispensing Unit have been accorded by PESO very recently.</p> <p>As per Gazette notification 22nd Nov 2016</p> <p>Quote " Composite CNG dispensing unit" means an integrated unit comprising of CNG storage cascade, CNG compressor and CNG dispensing unit integrally attached with each other and installed inside an enclosure box "</p> <p>Tulip Compression Compressor package has: 1. PESO approval as Composite CNG Dispensing Unit 2. PESO approval for installation in the forecourt 3. Compressor block with requisite PTR in CGD Industry 4. Dispenser and Storage Cylinders with requisite PTR in CGD Industry</p> <p>We understand that in view of the past qualification & acceptance of our 400 SCMH composite - All in one / Integrated CNG Compressor Package bid (tender reference 014714G11031R007 - 29.06.2021) by CUGL, we qualify to bid for the current tender (CUGL/VCS/PRC/2022/01 Dated 22.09.2022) also.</p> <p>As in the previous tenders, we request CUGL to allow bidders to bid on the basis of the following qualification criteria :</p> <p>Bidder in the last 07 years, reckoned from the bid due date, should have designed, engineered, manufactured, tested and supplied at least 02 nos. Gas engine driven/Electric Motor driven, Natural Gas / Bio Gas compressor packages of 250 SCMH or more discharge capacity suitable for operation at inlet pressure of 14-19 Kg/ cm2 and discharge pressure of 250 kg/cm2....."</p> <p>Prayer: We request the CUGL and the PMC to uphold the essence of fairness in tendering process and approve the above criteria to enable us participate in the bid (as PESO has started giving approval for Composite CNG Dispensing Unit Compressor Packages in the year 2021).</p>		Refer BEC of the tender Clause no. 8.1 , 8.2 : 8.3 (Commercial Volume I of II) (Tender condition Prevails)	
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Note: 1. Bidder to submit reply to bidder's queries along with techno-commercial bid documents duly signed and stamped. 2. All other terms and conditions shall remain unchanged as per tender document.																										

