Vadodara Gas Limited
Replies to Bidder's Queries

SUBJECT: Purchase of 02 Nos. Internet of Things (IOT) Based 600 SCMH Booster Compressor With 05 Year Comprehensive AMC for New CNG Stations on ARC Basis.

TENDER NO.: VGL/CO/C&P-CNG/BD202607P357 Dated 13/10/2026 & **TENDER ID:** 354869.

Sl. No.	Page No.	Cause No.	Subject	Bidder's Query	VGL's Reply
1.	93/175		Note:- If the bidder fails to perform Operation & Maintenance on IOT base, VGL will pay the maintenance cost as per the rates quoted by the bidder in the tender, and the operational manpower cost shall be considered as per the prevailing Central Government minimum wages.	As per tender Booster shall be operated on the IOT so why SOR line item is required to be quoted with 3 shift operation and maintenance charges. Please clarify as this is contradictory.	The booster shall be operated on an IoT basis, and the bidder is requested to deploy one person during the general shift. Furthermore, the bidder is requested to quote comprehensive Maintenance (AMC) charges.
2.	123/175	4.1.3	PLC based control system with HMI. PLC shall be provided with mounting rack, CPU, Input output cards, Power supply card, communication card. 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. Separate communication ports shall be provided for GPRS modem for communication on with SCADA system. Note: One spare CPU module should be kept ready all times. IOT integration is required and PLC based control panel HMI with IoT compatible. PLC based machine with Internet of Things (IoT) capabilities to access the data through cloud. Bidder has to consider all necessary requirements completely in his scope to run the booster compressors on IoT system.	Please elaborate on the use of RTU. As per standard requirement we are providing PLC programing where compressor data is fetched through RS485 communication and Modbus addresses for remote automation. This is a standard practice being followed by all CGDs.	The bidder should provide an IoT-based system for real-time monitoring of all compressor parameters. VGL does not have a SCADA system. The bidder shall provide VGL with a user ID and the necessary software to monitor all compressor parameters in real time.
3.	131/175	13	GUARANTEED PARAMETERS /Power Consumption	No minimum power consumption is defined in the tender. Request you to kindly confirm main motor rating requirement i.e. 22 kw or 37 kw.	37 kW main motor is required.
4.	116/175	1.6	Main incoming cable from owner PDB to main control panel of the compressor through Conduit/trenches (supply, laying, testing & Commissioning in contractor Scope). Cable from owner's electronic earth pit (EE) for electronic circuit in control Panel, cables from owners main earthing ring to control panel body earth and all interconnecting Cables including complete erection accessories like double compression cable, FLP gland, cable tags, Lugs etc. as required. Further, supply, laying, testing & commissioning of cables with required FLP Gland for Air-Compressor, Co2 Flooding System, UPS, PLC, Instruments, etc. from main panel are in scope of contractor..	Please confirm the maximum possible distance between electrical room & booster compressor installation to determine total length of incoming cable	Main panel to compressor – approximately 75 m UPS to compressor PLS – approximately 75 m ESD cable – 85 m Main panel to air compressor – 50 m Compressor to CO_2 system – 20 m Earthing cable – 20 m
5.	122	4.1.2	All inlet & Outlet ¾'' (0.095" min wall thick) SS Tubing (Approx. 200 Mtr. – Sandvik/Tubacex) of the compressors are supply by the contractor.	It is bidders understanding that only 200 mtr tubing shall be supplied by bidder however Tube laying is not in scope of bidder.	Ok Noted.
6.	122	4.1.3	Supplier provides one set of licensed software (window	Proposed software is compatible with current	Ok Noted.

			XP/2000 based) both configured to access PLC through.	Windows operating systems (Windows 10/11) instead of obsolete Windows XP/2000 platforms. Latest software version shall be supplied with valid license.	
7	123	4.1.6	Emergency stop at Compressor panel and Control Room/Sale room Shut / Stop Auto / Manuals Fault accept Fault reset CO2 cylinder bypass Test button for lamp & hooter	Emergency Stop and safety-critical functions remain available only at the local compressor panel for personnel and equipment safety. Monitoring and non-safety operational controls may be provided through the control system/HMI as applicable.	Ok Noted.
8	124	4.3.3	The motor name plate rating (exclusive of service factor) shall be minimum 110% of the greatest HP required under any of the specification operating conditions. All motors shall be tested in accordance with IS/IEC.	Motor sizing shall be selected based on actual load requirements, service factors, and manufacturer's standard rating, ensuring reliable operation under all specified operating conditions and compliance with applicable IS/IEC standards.	Ok Noted.
9	124	4.3.3	IR Gas Detectors General Monitors / Crowcon / Honeywell / Sieger / Detronics/ Khrome Schroder / Net safety.	Request to consider also ESP Safety	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.
10	122	4.1.2	UV Flame Detectors General Monitors / Crowcon / Honeywell / Sieger /Detronics/ Khrome Schroder / Net safety.	Request to considered also ESP Safety	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.
11	115 of 176	Scope of Supply 1.6	Lubricated or non-lubricated two throw balanced opposed reciprocating compressor or hydraulic booster with lube oil system and cooling system as required.	Our system is non lubricated, lube oil is not required. The required cooling system will be provided.	Ok Noted.
12	115 of 176	Scope of Supply 1.6	Main incoming cable from owner PDB to main control panel of the compressor through Conduit/trenches (supply, laying, testing & Commissioning in contractor Scope). Cable from owner's electronic earth pit (EE) for electronic circuit in control Panel, cables from owners main earthing ring to control panel body earth and all interconnecting Cables including complete erection accessories like double compression cable, FLP gland, cable tags, Lugs etc. as required. Further, supply, laying, testing & commissioning cables with required FLP Gland for Air-Compressor, Co2 Flooding System, UPS, PLC, Instruments, etc from main panel are in scope of contractor.	Please confirm the maximum possible distance between electrical room & booster compressor installation.	Main panel to Compressor – approx. 75 mtr. UPS to Compressor PLS – Approx 75 mtr. ESD cable – 85 mtr. Main panel to air compressor - 50 mtr. Compressor to Co2 – 20 mtr. Earthing Cable – 20 mtr.
13	117 of 176	1.7.9	Relief Valves shall be provided at suction/ BDV and discharge/ priority panel and in between inter stages of compressor with setting as per cl. 7.20.3 of API – 11P with R.V. venting as per cl. 7.20.4 of API-11P. All vented lines to be connected to common relief valve header	There is no requirement of relief valve at the suction/ interstage for booster compressors, as the suction is always reducing from 220 to 30 bar, both first & second stage are integral part of the single intensifier, therefore not required. Applicable for online reciprocating compressors.	Ok Noted.
14	116 of 176	Scope of Supply 1.6	Y- type strainers, valves, sight flow indicators, check valves, manual drain/ traps etc. as required for various auxiliary systems i.e. lubrication system, cooling water systems etc.	Frame lube oils, cylinder lubrication are not required for booster compressors, however cooling water and hydraulic oil will be provided with necessary components. Applicable for online reciprocating	Ok Noted.

				compressors	
15	119 Of 176	2.1.1	Pressure switch and pressure gauge shall have isolation valve.	Block & bleed valves will be provided for all the pressure gauges used in high pressure gas system instead of Isolation Valve.	Ok Noted.
16	121 of 176	3.9.7	For handling of all heavy parts for maintenance purpose lifting arrangement i.e. beam fitted with chain hoist shall be provided in enclosure.	Chain hoist is not advisable in each in every compressor as it is not an anti-sparking device, however the same will be made available with maintenance team to carry out activities.	Ok Noted.
17	123 of 176	3.10.8	The ingress of oil into CNG adversely affects vehicle emission and storage system. Hence in case of lubricated cylinders vendor shall supply a proven, maintenance free oil removal system with automatic and manual drain after-cooler to remove oil from compressed gas. The offered oil mist removal system shall restrict the oil less than 1 PPM in discharge of compressor.	During intensification oil does not comes in contact with gas, Oil mist separator is not required therefore will not provided.	Ok Noted.
18	123 of 176	4.1.5	Emergency stop at Compressor panel and Control Room/Sale room Shut / Stop Auto / Manuals Fault accept Fault reset CO2 cylinder by pass Test button for lamp & hooter Maintenance Over ride switch	we don't offer the CO2 bypass as it compromises the safety.	Ok Noted.
19	124 of 176	4.1.7	Motor shall be TEFV squirrel cage type in standard frame size as per IS/IEC rated for continuous duty with high efficiency and designed for star/delta starting. Motors shall be suitable for starting under specified load conditions with 75% of rated voltage at the terminals.	As per motor manufacturer minimum voltage requirement is 80% of rated voltage at motor terminal.	Tender Conditional shall prevail
20	127 of 176	5.1.7	Compressor package shall be provided with min following instruments; All tripping shall be with lamp indication and annunciation. i. Temp indicator 1st, 2nd stage discharge and after- after cooler ii. Pr indication 1st, 2nd stage discharge, high & med bank. Pr switch, 2nd stage discharge, high & med bank	Due to design of compressor (Single cylinder; two stage) We will provide pressure indicator at suction of compressor & at final discharge only. One pressure switch at 2nd stage discharge One temperature transmitter at final discharge	Ok Noted.
21	127 of 176	5.1.7	Hour meter	Non resettable hour meter provided on HMI	Ok Noted.
22	138 of 176	16.15.11	Calibration shall be done from government-approved laboratories and shall be carried out at least 15 days prior to the calibration due date. The Supplier shall keep 1 set of safety relief valves in spare for the purpose of calibration	We will provide 1 no spare safety relief valve for one GA location. Kindly confirm.	Ok Noted.
23	121 of 176	3.9.2	The Enclosure to restrict maximum noise level to 75 dB (A) at 1 meter from the enclosure.	Kindly permit 75 dB +/- 3 dB at 1 meter distance in free field condition.	Tender Conditional Shall Prevail
24	125 of 176	4.3.3 Preferred makes shall be as follows	FLP Motor	Bidder requests to approve Flameproof motor Hindustan Electric Motor/ LHP	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.
25	125 of 176	4.3.3 Preferred makes shall be as follows	FLP Switchgear	Kindly approve Saai Electrica, Shyam Switch Gear makes.	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.

				These makes are PESO approved.	
26	125 of 176	4.3.3 Preferred makes shall be as follows	On Off ball/ needle valve for CNG application	For high pressure ball valve kindly approve DK LOK/ HYLOK/Dawsons-Tech make.	DK Lok/ Dawsons-Tec make is approved by VGL.
27	125 of 176	4.3.3 Preferred makes shall be as follows	All high-pressure double ferrule fitting and valves shall be from SWAGELOK/ PARKER makes & shall be S.S. material only. Material of tube shall also be SS316L as per ASTM A269 Sandvik make.	We request you to add Dawsons-Tech and DK-LOK make for SS Fittings.	DK Lok/ Dawsons-Tec make is approved by VGL.
28	125 of 176	4.3.3 Preferred makes shall be as follows	RTD	Kindly approve m/s AN instruments and m/s Pune Techtrol	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.
29	125 of 176	4.3.3 Preferred makes shall be as follows	SS Tube	Kindly approve Ratnamani make.	Tender Conditional shall prevail
30	125 of 176	4.3.3 Preferred makes shall be as follows	Solenoid Valve	Kindly approve Aira and Elomatic makes	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.
31	125 of 176	4.3.3 Preferred makes shall be as follows	Gas Detector	We request you to add ESP make for Gas Detector	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.
32	125 of 176	4.3.3 Preferred makes shall be as follows	Flame Detector	We request you add ESP make for Flame Detector	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.
33	125 of 176	4.3.3 Preferred makes shall be as follows	PSV	We request you to add Leser make safety valve	Ok Noted. However, bidder may be requested to submit the PESO Approval at the time of detailed drawing approval.
34	116 of 176	1.6 SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE:	All inlet & Outlet ¾'' (0.095" min wall thick) SS Tubing (Approx. 200 Mtr – Sandvik/Tubacex) of the compressors are supply by the contractor.	The bidder understands that the required ¾'' (0.095" min wall thickness) SS Tube (approximately 200 Mtr – Sandvik/Tubacex) will be supplied loose. Please confirm.	Ok Noted.
35	Page 13 of 176	13. GUARANTEED PARAMETERS - BOOSTER COMPRESSOR	Electric power consumption in KWH with no (+) tolerance with overall full range of suction pressure (from 30kg/ Cm2(g) to 200 kg/Cm2(g) varying on continuous basis) to compress 600 SCMH gas with no (-) tolerance for loading and penalty purpose	With reference to clause 13 tender document regarding Power consumption, Every CGD company typically mentions power consumption in their tenders as part of the evaluation criteria. In this regard, we kindly request that you include the power consumption details in the tender document. This will ensure a fair and transparent evaluation process for all participating bidders. This is a key requirement for compressor tender. Request you kindly review and modify your clause related to power consumption in this tender as well.	1. LOADING AGAINST ENERGY CONSUMPTION: The compressor package shall be designed in such a way that Energy Consumption (KWH/Kg) should be minimum for production of CNG. Bidder shall indicate actual energy consumption for their compressor package. This quoted figure will be used for evaluation and total quoted price for all compressors towards supply, special tools & tackles, erection and commissioning will be loaded as per following formulas: For 600 SCMH Compressor F = (G-33) x H x I x N Where, F = Loading amount in Rs. G = Bidder's Energy consumption rate quoted in KWH for producing 600SCMH of CNG G- = Bidder's energy consumption rate over and above 33 KWH H = Cost of Energy INR 8/Kwh I = Factor towards lifecycle in hours @ 14600 hours N = Number of machines

					Note: Bidder shall not be given any advantage/credit for quoting power consumption below 33 KWH for 600 SCMH. 2. PENALTY TOWARDS EXCESS ENERGY CONSUMPTION: At the start of O&M period or even at any point of time during the O&M period, cost towards excess power consumption beyond quoted figure shall be deducted from O&M bills. Following calculations shall be used for deduction towards excess power consumption. F = (G-Q) x H Where, F = Monthly Penalty in Rs. G = Monthly Actual power consumption (KWH) Q = Guaranteed consumption rate quoted by supplier for every 452 Kg of CNG 452 (for 600 SCMH respectively) X CNG produced during the month H = Cost of power Rs. 8/Kwh
36	82 of 176	21. RESPONSIBILITIES OF THE CONTRACTOR FOR COMPLINACE WITH LABOUR/INDUSTRIAL LAWS:	Minimum Wage: The Minimum Wages shall be paid as notified by the Central Government or State Government, whichever is higher, as per the provisions of The Minimum Wages Act, 1948 / The Code on Wages, 2019, as applicable to Vadodara being notified by Dy. Chief Labour Commissioner (Central), Ahmedabad from time to time. Wage Period and Monthly wages– Wage period shall be monthly and wages for a month will be calculated by multiplying daily rate of Minimum Wages by 26.	Kindly confirm Which category of wages (Class A, B, or C) under the applicable Minimum Wages Act / Code on Wages, 2019 should be considered for Vadodara? Also, please confirm State or Central wages to consider.	Consider the Central wages & Class B/C category of wages.
37	-	-	Warranty period	The bidder understands that the Warranty Period (DLP) should be 12 months from the date of completion (i.e., commissioning) or 18 months from the date of the shipment of individual compressor, whichever is earlier. Kindly confirm the same.	Ok Noted.

Note: This Replies to Bidder's Queries as uploaded on n-Procure & VGL's Website. Please upload the same duly Sign and Seal with Techno–Commercial Bid as this is an Integral Part of the Tender.