



Vadodara Gas Limited
Replies to Bidder's Queries

SUBJECT: Purchase of 04 Nos. 600 SCM Motor Driven Compressor Package with 05 Year AMC

TENDER NO.: VGL/CO/C&P-CNG/BD202602P287 Dated 26/02/2026 & **TENDER ID:** 281112.

Sr. No.	Sec. No.	Page No.	Clause No.	Subject	Bidders' Query	VGL'S Reply
1	Section - V	124	4.0 scope of supply for each compressor package	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 as required.	*Kindly permit non lubricated type compressor, which has several advantages over lubricated one, as listed below: 1. There will not be any oil-carry over into the gas hence, the contamination of gas with lube oil is eliminated. 2. It does not require divider block and plunger pump arrangement for cylinder lubrication. 3. As there is no oil-carry over hence there will not be any condensation of oil after cooling the compressed gas. Hence Separator vessels are not required.	Ok Noted
2	Section - V	123	4.0 scope of supply for each compressor package	xii. One no. relief valve at each stage discharge, first (1st) stage suction and Blow down Vessel.	Relief valve at suction stage is not required since we are providing relief valve at blowdown vessel which is interconnected to suction line. Kindly accept	Ok Noted
3	Section - V	125	A. General data	1.1 Compressor type 1.1.1 Oil lubricated	* Tender clause 9.33 says, ingress of oil into the CNG gas adversely affects vehicle emission and storage system. *Our design is non-lubricated type, which prevent oil carrying over into CNG gas hence, contamination gas with lube oil is totally eliminated. *Similar machines are working successfully across the world including India. Hence we hereby request you to allow the same.	Ok Noted
4	Section - V	125	1.4 Cylinders	Horizontal Balanced Opposed design with lined cylinder/ trunk piston	Our design is V type compressor. Kindly accept	Ok Noted
5	Section - V	183	Annexure – VI: vendor list	On off ball/needle valve	Bidder request to approve M/s DK Lok and M/s Dawsons-Tech makes	Approved Vendor as follows: 1. M/s PARKER 2. M/s SWAGELOK 3. M/s ABAC 4. M/s SPIRAX SARCO 5. M/s WORCESTER 6. M/s WAREE 7. M/s BAUMER 8. M/s STAUFF 9. M/s SSP 10. M/s L&T 11. M/s SANKEY CONTROL 12. M/s ROTEX 13. M/s AUDCO 14. M/s D K LOCK
6	Section - V	181	Annexure – VI: vendor list	FLP switch	Bidder request to approve M/s Shyam Switchgear and M/s Saai Electrica makes	Bidder is requested to submit the PESO approval of FLP switch at the bidding time.
7	Section - V	178	Annexure – VI: vendor list	Solenoid valves/actuator	Bidder request to approve M/s Aira Euro Automation Pvt Ltd make	Bidder is requested to submit the PESO approval of FLP switch at the bidding time.



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8	Section - IV	73	2.0 Delivery Schedule	03 nos. compressor to be delivered within 01 Week and 01 no. compressor to be delivered within 03 weeks from the intimation by VGL.	Bidder requests to consider lead time 12 to 14 weeks from the date of approved drawing by EIC.	02 Nos. In one Week. 01 Nos. In Two Week. 01 Nos. In Four Week.
9	-	123	4.0 Scope of supply for each compressor package & 10.19 priority fill system	6 lines for 600 SCMh (3 bank) Priority Panel at Package Discharge. Contractor shall supply 3-bank of cascade (8 line for 600 scmh) priority fill system with compressor top-up facility inclusive of regulating valves, check, bypass valves & liquid filled pressure gauges all mounted in a stainless-steel panel	Kindly confirm the 6 line OR 8-line priority panel is required.	06 Line (03 – Cascade, 03 – Disp)
10	-	123	Scope of supply for each compressor package	All inlet & Outlet ¾” (0.095” min wall thick) SS Tubing (Approx. 800 Mtr for – Sandvik/Tubacex) of the compressors are supply by the contractor.	We request purchaser to elaborate this clause	Tender Conditions Shall Prevail
11	-	124	Scope of supply for each compressor package	Supply and laying of all required cables (Main cable, UPS cable, PLC cable, Panel cable, ESD cable, Air compressor cable, instrument cable) in bidder scope.	Request you to please share the below distances in order to enable us to consider cable costs: Supply and laying of all required cable (Main cable, UPS cable, PLC cable, Panel cable, ESD cable, Air compressor cable, instrument cable) in bidder scope.	Main panel to Compressor – approx. 75 mtr. UPS to Compressor PLS – Approx 75 mtr. ESD cable – 75 mtr. Main panel to air compressor - 50 mtr. Compressor to Coz – 15 mtr.
12	-	83	Minimum Wage	-	Please confirm its state or central wages.	Central Wages
13	Section – IV [SCC]	79	15 J	In the event of delay in mobilizing the services/ manpower for the particular CNG compressor package a penalty at the rate of 0.5 % of the contract value per week or part thereof shall be recovered from the contractor subject to a maximum of 5% of the contract value.	Please note, maximum of 5 % of order value. Not on the total contract value. Kindly confirm the same.	5 % of the supply order value.
14	Section – IV [SCC]	80	20	A. Penalty towards excess gas loss:	While taking measurements from the mass flow meters for gas loss calculations, the OEM-specified accuracy rate also needs to be considered. In this regard, the OEM of the mass flow meter, M/s. Emerson Process Management (India) Pvt. Ltd., has shared a confirmation letter confirming the same. The letter is attached herewith for your reference.	Ok Noted.
15	Section – V [SOW] & [TS]	109	e	C.1. CNG COMPRESSOR OPERATION: Observance of Safety Rules and Regulations prevalent in the Gas & Electrical based installations, specifically Compressed Natural Gas, Fire Drills, DCP operation, firefighting, and spreading awareness. Ensure Safety of Man and Machine at all the times.	Shall be done only for the Packages supplied by KPCL.	Ok Noted.
16	Section – V [SOW] & [TS]	114	2.3	The field trial run of the compressor will be for minimum of 4 hours (can be in multiple runs) and the package should be kept under observation for 72 hours for stable operation and no major breakdown in which satisfactory performance of the package together with all accessories auxiliaries and controls shall be	Since we carried out full load performance test at our work for 4 hours on guaranteed parameters on Natural gas, we request you to consider a 30 mins field trial run and performance test at site.	Tender Conditions Shall Prevail



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				established for satisfactory performance for specified operating conditions.		
17	Section – V [SOW] & [TS]	120	2.23 xxxviii	The bidder shall carry out retesting of pressure vessels including blow down vessel periodically i.e. every year or earlier as per Gas Cylinder rules 2016 / Static & Mobile Pressure Vessels Rules.	The vessels are part of 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. Retesting is carried out for only storage vessels like cascades. Only a thickness check will be carried out every year. Please note, hydro testing will be in scope of the Client, same is followed in all the CNG packages and with all the CGD companies.	Ok Noted Thickness Test is carried out by vendor on year basis.
18	Section – V [SOW] & [TS]	123	4.0 xiii	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.	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.	Ok Noted.
19	Section – V [SOW] & [TS]	124	4.0 xxxi	All inlet & Outlet ¾" (0.095" min wall thick) SS Tubing (Approx. 800 Mtr for – Sandvik/Tubacex) of the compressors are supply by the contractor.	We request purchaser to elaborate this clause Kindly confirm the scope for 800 mtr tubing & ¾" fittings, valves, flanges etc.	This clause Deleted.
20	Section – V [SOW] & [TS]	124	4.0 xxxi	Secondary lubrication system with check valve protector, HP (High Pressure) Filter (for all lubricating points) & DNFT (Digital No Flow Timer) flow switches with standby pump. Secondary lubrication system with divider blocks shall be provided.	Standby pumps are not envisaged and therefore will not be provided. Oil pump mounted on a compressor is sufficient for cylinder lubrication.	Ok Noted.
21	Section – V [SOW] & [TS]	127	8.0 i)	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-11. All vented to common relief valve header.	Relief valve at first stage suction is not required in addition to one on a blowdown vessel. As suction line and blow down vessel are connected to each other.	Ok Noted.
22	Section – V [SOW] & [TS]	131	9.12	In case of lubricated cylinder & packing design, single plunger force feed mechanical lubricator shall provide lubrication to compressor cylinders. Lubricators with double ball check valve shall be provided at each lubricator point. Digital no flow timer shall be provided to stop the compressor in case of loss of cylinder lubrication.	Please note that as per Manufacturer's standard practice the lubricator will be divider block type. Double ball check valves are applicable for Single Plunger per point lubricator, thus not applicable.	Ok Noted.
23	Section – V [SOW] & [TS]	138	9.3	Prime mover (Electric Motor) The motor shall be flaming proof/ explosion proof and confirm to IS: 2148 suitable for zone 1 group II area as per IS/IEC. The Motor shall be of standard frame size as per IS/IEC and rated for continuous duty with high efficiency and shall be designed for VFD/ Soft Starter starting.	Please confirm the VFD or Soft Starter	We confirm the VFD
24	Section – V [SOW] & [TS]	138	10.9	Separate junction boxes shall be provided for each type of signal i.e. analog, digital, solenoids RTD, thermocouple, and intrinsic	Local control panel (With PLC) is mounted on the package itself hence junction boxes are not required. Instruments will be directly wired to the Local control panel.	Ok Noted.



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				safe and for power supply. No cable shall share power & signal.		
25	Section – V [SOW] & [TS]	142	11.4	The maximum temperature within the enclosure shall be limited to ambient + 80C. Adequate ventilation fans should be provided to meet the above and also to account heat dissipation of the coolers/ all other components.	Air cooled heat exchanger fan is of forced draught type which throws air out of the enclosure. Hence a separate ventilation fan is not required. Please confirm your acceptance.	Ok Noted.
26	Section – V [SOW] & [TS]	144	11.4	PAINTING AND PROTECTION	Paint shall be applied as per manufacturer's standard paint specification ensuring durability of the paint in all weather conditions	Ok Noted.
27	Section – V [SOW] & [TS]	147	15.2	15.2 loading against package gas loss: $F = (G-0) \times H \times I \times N \times W$ Where, F = Loading amount in Rs. G = Vent/Leakage rate quoted in percentage (G-0) = Bidder 's vent /leakage rate above 0% H = Cost of Natural Gas per Kg – Rs. 55.00 /- per kg I = Factor towards lifecycle in hours @ 73000 hours N = Number of Machines W = 451 for 600 SCMH	We request you to consider; Operating Time in hours = 6570 Hrs. x No. of years instead of 73000 hours. Kindly confirm.	Tender Conditions Shall Prevail
28	Section – V [SOW] & [TS]	119	2.23 xxxv	The bidder shall carry out calibration of gas detectors and flame detectors every six months or earlier as per requirement or instruction of EIC of OWNER. Also, yearly calibration of all instruments such as pressure gauges, transmitters, switches, etc shall be in the scope of the bidder. Mass flow meters shall calibrate every 12 months. In addition to the above all safety relief valves shall also be tested and calibrated every Six Months.	For mass flow meters, field calibration shall be carried out. FCRI calibration shall be in Client scope.	MFM to be calibrate on year basis through OEM or VGL approved vendor.
29	General	-	-	-	Please let us know the distances of respective piping / tubing. Air compressor & air piping for air Piping from CO2 cylinders up to the enclosure.	Air Piping approx. 30-40 mtr for co2 and 20 mtr approx.
31	Section – V [SOW] & [TS]	-	-	Inspection & Testing	Inspection and testing shall be as per bidder's standard QAP and the same shall be discussed during detailed engineering.	The QAP will be approved by VGL.
32	General	-	-	Transportations	Please note, one-time transportation from factory to site or store will be considered. Our supply contract ends once the package is transported either at store or site. In case the package is supplied to Client's store, then excludes below scopes: 1. Loading onto the trailer from stores. 2. Transportation i.e from stores to site. 3. Unloading on site or nearby due to non-readiness of foundation. 4. In case of non-readiness of compressor foundation re-	Tender Conditions Shall Prevail



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					loading package from nearby to foundation after readiness.	
33	General	-	-	Cable	Request you to please share the distances below 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	1.75 mtr. 2.75 mtr. 3.75 mtr. 4.50 mtr. 5.15 mtr.
34	Section – VIII [SOR]	241	2	Operation & Comprehensive Maintenance	For Operation & Comprehensive Maintenance, please limit minimum % of total supply price	Tender Conditions Shall Prevail
35	General	-	-	Air Compressor	Please confirm the Air compressor motor rating is 1.5 kW & it is non-flameproof type.	1.5 KW FLP/Non-FLP
36	Annexure – VI: vendor list	175	-	Pressure gauges & temperature gauges	Please accept Thermal Instruments & Gauges Bourdon	Ok Noted.
37			-	Pressure relief/safety valve	Please accept Vanax, Nirmal, Honeywell & Emerson	Ok Noted.
38			-	SS fittings/ valves	Please accept ASTEK, Fluid control & Dawsons	Tender Conditions Shall Prevail
39			-	Cables & wires	Please accept Thermocable & Suyog Cable	Ok Noted.
40			-	On off ball/needle valve	Please accept Intervalve	Ok Noted.
41	Section-IV (Special Conditions of Contract [SCC])	88	25.0	CONTRACT CUM PERFORMANCE BANK GUARANTEE i. After finalization of the Contract, whenever work order is issued by the Owner, CONTRACTOR shall furnish to the Owner within 30 (Thirty) days from the date of issue of work order, an unconditional Contract Performance Bank Guarantee from a nationalized/ scheduled bank of India or any international bank of repute having a branch in India for due Performance of the Contract for a sum equivalent to 3 % of the Supply Value and 03 % of the Service Contract Value. This Contract-cum-Performance Bank Guarantee shall be drawn in favor of the Owner and shall be initially valid for a period adequate to cover up to 90 days after end of defect liability period.	We request purchaser to accept Contract Performance Bank Guarantee as under: Supply- 3 % of the Supply Value excluding GST Service- 3% of annualized service order value excluding GST. Please accord your acceptance.	Tender Conditions Shall Prevail
42	Section – V [SOW] & [TS]	124	4.0	SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE: xxix. All inlet & Outlet ¾” (0.095” min wall thick) SS Tubing (Approx. 800 Mtr for – Sandvik/ Tubacex) of the compressors are supply by the contractor.	We request purchaser to elaborate this clause.	This Clause is Deleted for this tender



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43	Section – V [SOW] & [TS]	147	15.1	<p>LOADING AGAINST ENERGY CONSUMPTION:</p> <p>The compressor packaging shall be designed in such a way that Energy Consumption (KWH/Kg) should be minimum for production of CNG.</p> <p>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 SCM/H Compressor $F = (G-75) \times H \times I \times N$ 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 is over and above 75 KWH H = Cost of Energy INR 8/Kwh I = Factor towards lifecycle in hours 73000 hours N = Number of machines</p> <p>Note: Bidder shall not be given any advantage/credit for quoting power consumption below 140 KWH for 600 SCM/H.</p>	<p>Our CNG compressor packages are designed to be energy efficient. In view of this, we request the purchaser to limit the energy consumption to 72 kWh.</p> <p>This will encourage the adoption of efficient equipment and help prevent unnecessary losses to the exchequer resulting from higher energy consumption.</p> <p>Please accord your acceptance.</p>	Tender Conditions Shall Prevail
44	9.31	135	9.31	<p>Prime mover (Electric Motor)</p> <p>Note: 1) Motor shall be three phase, AC, asynchronous, flameproof, high efficiency (IE# or better, as per IEC60034-30), Ex'd' rated, continuous duty, service factor 1.1, on IEC standard type. Designing shall be done on basis of 50 degrees package ambient temperature. Motor shall be suitable for VFD starter. Service factor shall not play any role in finalizing the rating of motor.</p>	<p>We understand that VFD is required as starter for main motor.</p> <p>Please confirm if our understanding is correct.</p>	Yes, VFD is required.
45		147	15.1 loading against energy consumption	<p>15.1 LOADING AGAINST ENERGY CONSUMPTION:</p> <p>The compressor package shall be designed in such a way that Energy Consumption (KWH/Kg) should be minimum for production of CNG.</p> <p>Bidder shall indicate actual energy consumption for their compressor package. This quoted figure will be used for evaluation</p>	<p>Please confirm the Minimum power consumption for Loading purpose.</p> <p>In the note it is mentioned as 140 KWH whereas in the formula for calculation of loading it is mentioned as 75KWH. Both are self-contradictory. Please confirm.</p>	75 KWH.



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				<p>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 $F = (G-75) \times H \times I \times N$ 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 75 KWH H = Cost of Energy INR 8/Kwh I = Factor towards lifecycle in hours 73000 hours N = Number of machines Note: Bidder shall not be given any advantage/credit for quoting power consumption below 140 KWH for 600 SCMH.</p>		
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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.