SUBJECT: Purchase of 05 Nos. 1200 SCMH Motor Driven Compressor with 05 Year AMC for the Upgradation of Existing CNG Station on ARC Basis

TENDER NO.: VGL/CO/C&P-CNG/BD202510P257 Dated 17/10/2025 & **TENDER ID**: 236064.

Sr. No.	Sec No.	Page No.	Clause No.	Subject	Bidder's Query	VGL's Reply
1	SECTION – V SCOPE OF WORK [SOW] & TECHNICAL SPECIFICATION [TS]	124 of 243	4.0 (vi)	8 line for 1200 SCMH (3 bank) Priority Panel at Package Discharge.	Please confirm the lines of priority panel, as in tender it is mentioned that 8 bank & 9 bank (Page 134 of 243) priority panel. Please confirm the same.	O7 bars, 3 for Dispenser, 3 for Cascade & 1 for LCV.
2	General	-	-	Air Compressor	Please confirm the Air compressor motor rating, 1.5 kW motor is sufficient for motor driven package	Tender Conditions Prevail
3	SECTION – V SCOPE OF WORK [SOW] & TECHNICAL SPECIFICATION [TS]	-	-	confirm the correct design suction pressure	As per Schedule of Rates (Page 240 of 243) – the required suction pressure is indicated as 19 kg/cm² (g).	Suction pressure is varies from 16 to 21 kg/cm², However VGL Guaranteed Parameter is 16 kg/cm².
4	SECTION – V SCOPE OF WORK [SOW] & TECHNICAL SPECIFICATION [TS]	-	-	confirm the correct design suction pressure	As per Guaranteed Parameters (Page 154 of 243) – the required suction pressure is indicated as 16 kg/cm² (g).	Suction pressure is varies from 16 to 21 kg/cm², However VGL Guaranteed Parameter is 16 kg/cm².
5	-	122 123	3 3.1	**CODES & STANDARDS** **Precedence** 3) International standards/codes as applicable 4) Indian Standards / codes applicable	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.	Ok noted
6	-	124	4 ii	3 nos. mass flow meters to measure the Natural Gas consumption at packages inlet, package discharge (both Coriolis type) and package loss / venting (thermal type) with spool piece for online test arrangement	CP Machine built with pressurized crankcase; hence VENT mass flow meter at vent line is not required & hence not considered.	Tender Conditions Prevail
7	-	124	4 iv	Common structural steel skid for the compressor- Motor combination and for all auxiliary systems	All auxiliaries like CO2, Air compressor, etc. will be supplied loose & to mounted apart from package.	Ok noted
8	-	125	4 xxiii.	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.	All the separators with auto drain system over manual drain system considered for safety reasons, only ORV with manual drain considered. Drain system will be time bases as per OEM standard offering.	Ok noted
9	-	126.0	4.4	All drains from different process equipment's, distance piece and packing shall be man folded 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 the drain is collected in the Oil Recovery Vessel. ORV will be provided mounted inside the package, with a capacity of 20lts for uninterrupted operation of machine. For all drains single point threaded connection with isolation valve will be provided.	Ok noted
10	-	126.0	4.3	As and where specified on the data sheets all vents (i.e. Relief valve, distance piece, packing and starting air) shall be man folded and terminated at skid edge outside	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	Vent height 3 m from the Ground Level

				the enclosure and vented to safe height (3 M from ground) at package roof. Silencer has to be provided in the starting air vent line.	not applicable since crankcase is pressurised and gas loss is zero. Starting air vent will carry Silencer.	
11	-	132 137	9.8 9.33 II	Inter / After Gas Coolers Each compressor package shall be complete with its own cooling system. The cooler shall be air-cooled heat exchanger. The gas temperature after after-cooler shall not exceed 52 degree C. b) Special attention to be given while designing the gas cooler considering the local conditions. Bidders shall ensure that final delivered gas temperature is less than 520C. c) Direction of flow should be marked on the pipe line and nomenclature of all vessels (e.g. 1st stage discharge dampener etc.) should be written on them. Cross head inspection windows if applicable should be transparent for ease of inspection during running. Set values should be prominently marked on the gauges. d) Packages design should be such that its vent should not go upward (package vent in vertical direction not required) i.e. opening of package vent should be in horizontal directional with duct arrangement The inter stage and final stage cooler tube material shall be carbon steel. Bidder to submit cooler sizing calculation for review	The approach would be above ambient temperature **12°C**. (Max. ambient temp. **44°C + 12°C = 56°C**). The Gas cooler design shall be such that suitable to the application as per manufacturers design. Gas coolers of the design shall be designed as per ASME-SEC-VIII, as per manufactures standard design approach same is proven for earlier supplied packages. - Cooler sizing calculation is proprietary, so not feasible to submit..	Tender Conditions Prevail
12	-	133	9.12	Digital no flow timer shall be provided to stop the compressor in case of loss of cylinder lubrication	OEM standard, Common Digital No Flow Switch (time based) will be provided. - When there is no – pulse (from cylinder lubrication - divider block) for certain time interval, the switch toggles & the compressor is tripped on lubrication fault.	Ok noted
13	-	137	9.33 2	Prime mover (Electric Motor) Main Motor Starter: Variable Frequency Drive (Heavy Duty) with input line and DC choke, along with other safety measures. 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.	As per clause no .9.32 electrical panel for motor starter soft starter will be provide And motor type will be IE2 efficiency FLP type. Kindly confirm	Tender Conditions Prevail
14	-	138	9.36	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	Ok noted

					& Flanges) as per application requirement & standard design.	
15	-	139	10	INSTRUMENTATION & CONTROLS	Instrumentation and Controls will be as per the manufacturer's standard, P&ID will be submitted for approval.	Ok noted
16	-	139	10.4	The temperature gauge shall be generally mercury in steel field type. Capillary tubing shall be min. SS304 with SS flexible armouring. The gauge shall have an accuracy of +/-1% FSD and 100mm dial size	Due to limited space all gauges 63 mm dial size mounted in the gauge panel as all the gauges are centrally located to monitor machine performance from single location. The material selection, certificate & warranty shall be as per OEM standard.	Ok noted
17	-	140	10.11	10.11 Compressor package shall be provided with the following indicators: i. Pressure indicator at 1st stage suction & discharge and other stage discharge. ii. Oil pressure indicator on each pressure lubrication system iii. Oil levels indicator, field mounted iv. Hour meter v. Non- resettable electromechanical hour meter on local control panel. vi. Compressor jacket water coolant temperature indicator on local gauge panel vii. Hydraulic oil cooler inlet & outlet temperature on local gauge panel (if required) viii. Hydraulic oil pressures each stage on local gauge panel (if required) The Compressor	We shall provide following Indicators on compressor package: All instruments will be finalize after approval of P&ID. i. Pressure indication at each stage suction. ii. Temperature indication at each stage discharge. iii. Oil switch and no flow switch on lubrication system. iv. Oil level gauge on oil tank. v. Hour meter shall be available at HMI. Separate hardware not considered viii. Crankcase oil temperature indication. ix. Low oil pressure protection is provided. Level indicator provided	Ok noted
18	-	145	11.15	8 line for 1200 SCMH (3 bank) Priority Panel at Package Discharge.	We will provide 7-line priority panel, kindly accept	O7 bars, 3 for Dispenser, 3 for Cascade & 1 for LCV.
19	-	145.0	11.1	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	Due to compact layout of package & overhead mounting of coolers, it is not possible to install the Chain Pulley block. However, adequate facility at site shall be provided in case there is an occurrence of motor removal.	Ok noted
20	-	145	13	PAINTING AND PROTECTION	Painting shall be as per manufacturer's standard procedures. Package enclosure shall be Powder Coated ensuring longer durability in all-weather out door installation conditions.	Ok noted
21	-	146	13.1	Mechanical Running Test (MRT) a) These tests shall have mechanical operation of compressor, driver and accessories, Instruments, control system and the coolers. b) The MRT for the 25% compressors block of the lot shall be carried out with job or shop driver including complete job driving system i.e., job driven V-belt, job pulleys etc., for 2 hours continuously at the premises of compressor block OEM. The compressor need not be pressure loaded for MRT test. During this test following shall be recorded at agreed intervals (as applicable). i. Vibration levels measured on cylinders and frame ii. Bearing temperature iii. Oil cooler inlet and outlet temp	MRT will be carried out as per manufacturer's standard procedures. Reports shall be presented for review to Purchaser / Consultant / TPIA during final String Test of the Complete Package.	Tender Conditions Prevail

				iv. Subsequent to satisfactory run the compressor shall be examined as per standard procedure & following shall be examined as minimum: v. Bore & other parts by opening a valve vi. Piston & cylinder clearance vii. Visual examination of position rod, cylinder guide bore without dismantling. If any of part found damaged, all similar components - shall be stripped for inspection. The MRT test shall be repeated after replacement of such parts.		
22	-	147	13.2	Mechanical String Test for 4 hrs. is a mandatory requirement to be performed at packager 's shop before dispatch in presence of Owner 's representatives (or a third party as arranged by Bidder and approved by Owner). This test can be clubbed up with the Mechanical Run Test of compressor as specified above, provided the job driver & lube Oil system is used for the test. At least 25% of the package lot ordered shall be string tested. String test on N2 or air is not acceptable. It shall be on natural gas.	Mechanical string test will be carried out on CNG as per manufacturer's standards in presence of Purchaser/Consultant/TPI	Tender Conditions Prevail
23	-	240	-	Piping & cabling	All fields piping & cabling is not considered in bidder scope, as site to site location changes kindly accept.	Tender Conditions Prevail
24	-	-	-	Certification:	CCOE or its equivalent certificate (FM, CSA, ATEX, UL, CMRI) whichever applicable & available will be provided.	CCOE certificate will acceptable only.
25	-	174.0	-	SPECIFICATION OF GAS DETECTOR Infrared sensor with Transmitter, with Local Display or Indicator	Gas detector with Local Display and Indicator not considered, for safety reasons, GD readings are purposefully shown only on HMI screen, since in event of gas leakage, it is not recommended for any operator to enter the area where leaked gas is already present. Further, visual indication on HMI, alarm & trip are also provided to take necessary actions without exposing person to hazard.	Ok noted
26	-	177	-	SPECIFICATIONS FOR DISCHARGE FILTER Filter Designed: Paint Compatible CE mark in accordance with European Directive for Pressure Equipment, PED (97 / 23 / EC) Are Designed to meet the ATEX European Directive for Explosion Protection, (94 / 9 / EC) All-natural gas filters in accordance to CE Eex 2GD IIB T6.	Manufacturer's approved two stage discharge filter will be provided; sizing calculation is proprietary name shall not be submitting for review/record. Kindy approve manufacturer's standard filter with parker make filter cartridge (Borosilicate Microfiber Fabric).	Bidder is approving the filter sizing calculation by the VGL.
27	-	178.0	D	**Preferred makes**	Shall be as per final approved vendor list. Kindly approve below makes:	
				GD	PPS (pollution protection systems)	Submit the PESO Certificate at the time of the bid submission
				FD		
				Suction & Discharge Filter	CP approved make	Ok noted
				Instrument manifold, Instrument SS fittings/valves	Baumer	Tender Conditions Prevail

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.