



RAJASTHAN STATE GAS LIMITED
राजस्थान राज्य गैस लिमिटेड

REPLIES TO BIDDER'S QUERIES

Date 09.05.2025

SUBJECT: PROCUREMENT OF 400 SCMH CNG BOOSTER COMPRESSORS & COMPREHENSIVE O&M SERVICES FOR 1 YEAR

Tender No.- RSGL/GWLR/C&P/PROJ/2025-26/NIT-01 DATE: 24-04-2025

SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	Rajasthan state Gas Limited's REPLY
	Sec. No	Page No	Clause No.	Subject		
1	VOLUME – II OF II SECTION-II TECHNICAL SPECIFICATION FOR ELECTRIC MOTOR DRIVEN RECIPROCATING BOOSTER COMPRESSORS	Page 165 of 220	2.5 SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE	“LCV filling hose (Synflex/Parker/Eaton) with Breakaway (OPW/ PARKER /WEH/Staubli) & Quick Release Coupling (QRC) (01 set per compressor package) shall be in bidder's scope of supply. LCV filling Hose shall be of minimum 4.5 mtrs long and shall have ½ “ Parker/Eaton/Swagelok make Quick Release Coupling (QRC) connected to it to be provided by the bidder. Long refilling Hose (3.5 Mtr before Break Away + 1 Mtr after Break Away) shall be provided with protective guard. Hose crimp to be provided with protective sleeve. Hose crimp shall be of SS and shall have protection Sleeve. Filling post to be supplied with 4” Pressure Gauge for pressure monitoring of CNG. Supply& Installation of Filling Post (150 MM wide & 3mtr in height) and Hose Assembly with Breakaway / QRC shall be in bidder's scope. Cost of these items shall be included in supply cost of the booster compressor and no separate payment shall be given for these items. Hose will be installed with ¾” OD Three Way Ball Valve. Bidder to select end connection of Hose accordingly.	PLEASE CONFIRM LCV POST WITH FLOW METER OR WITHOUT	Tender Conditions Shall prevails
2	VOLUME – II OF II SECTION-II	Page 168 of 220	2.0 UTILITIES & BATTERY LIMITS	Air compressor with discharge pressure of 7kg/cm2 (g)driven by an electric motor of rating 1.5 KW, having an air receiver of 100 WL capacity for instrumentation air. The air compressor shall be complete with all other accessories / auxiliaries as required for normal operation of the compressor package.	As per our design we used PESO-approved electromagnetic valves hence we don't required Instrument Air Compressor. Compared to pneumatic valves this system is more reliable and efficient as fluctuations in air pressure can directly impact booster efficiency and may cause diaphragm damage or malfunction. Hence we request you to kindly include electromagnatic valves design in this caluse for using 2 way valve condition. We can provide a PTR during the design phase and detail engineering. Kindly consider the same.	Tender Conditions Shall prevails
3	VOLUME – II OF II SECTION-II	Page 169 of 220	2.2 Battery limits	All customer interface connection,gas Inlet shall be brought out to the package edge and terminated with ¾” pipe OD, Discharge connection shall be terminated with ¾” pipe OD& shall have an isolation ball valve.	As per bidder understanding, suction and discharge connection along with reducing union 1/2"X3/4" Tube OD adopter in end connection of 1/2" tube OD and same mention on Page 185 of 220. Please confirm.	Tender Conditions Shall prevails
4	VOLUME – II OF II SECTION-II	Page 167 of 220	2.6 Safety, Sub Clause 1.7.9	Relief Valves shall be provided at suction and discharge and each inter stages of compressor with setting as per cl. 7.20.3 of API – 11P with R.V. venting as per clause 7.20.4 of API-11P. All vented to common relief valve header.	Pressure relief valve is not required at the suction of the compressor as the Gas is coming directly from the stationery storage cascade and also suction pressure is always reducing from 220 to 30 bar. We request you please accept OEM propriety design.	Tender Conditions Shall prevails

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5	VOLUME – II OF II SECTION-II	Page 165 of 220	2.5 SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE	LCV filling hose (Synflex/ Parker/ Eaton) with Breakaway (OPW/ PARKER/ WEH/ Staubli)	Bidder is requesting kindly consider ZEC S.P.A. and Transfer oil make hoses. All CNG hoses are required to meet the mandatory ANSI NGV 4.2-2014 / CSA 12.52-2014 standards. TGT provides TÜV-certified hoses that comply with these CNG standards. ZEC S.P.A is already approved in GAIL India Ltd. Approval Copy is attached for your consideration. Kindly approved the same.	LCV Filling hoses make ZEC is accepted subject to meeting the Design fitment and Operation criteria of Tender document shall be considered.
6	VOLUME – II OF II SECTION-II	Page 165 of 220	2.5 SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE	Mounting of cascade on structure shall be in the scope of bidder.	This type activity not in bidder scope kindly consider from purchaser side	Tender Conditions Shall prevails
7	VOLUME – II OF II SECTION-II	Page 199 of 220	Sr. No. 2, FLP Motors	ABB/ComptonGreaves / Kirloskar /Siemens / BharatBijlee/Weg/Marelli	Bidder is requesting kindly consider LHP make motor. This make is already approved in many CGD companies. Kindly approved the same.	Tender Conditions Shall prevails
8	VOLUME – II OF II SECTION-II	Page 200 of 220	Sr. No. 20, Solenoid Valve	M/s ASCO/M/s Rotex/ M/s Parker Hanifen	Bidder is requesting kindly consider Seitz make Solenoid valve. This make is already approved in many CGD companies. Kindly approved the same.	Tender Conditions Shall prevails
9	VOLUME – II OF II SECTION-II	Page 199 of 220	Sr. No. 09, IR Gas detectors	General Monitors / Crowcon / Honeywell / Sieger / Detronics/ Khrome Schroder / Net safety (Emerson)/Draeger /ESP Safety Pvt. Ltd./ M/s Oldham	Bidder is requesting kindly consider Ambtronics/ANACON PROCESS CONTROL make gas detectors. These makes are already approved in many CGD companies and also we can provide PESO approval for the same. Kindly approved the same.	Accepted subject to meeting the Design fitment and Operation criteria of Tender document shall be considered.
10	VOLUME – II OF II SECTION-II	Page 199 of 220	Sr. No. 10, UV Flame detectors	General Monitors / Crowcon / Honeywell / Sieger / Detronics/ Khrome Schroder / Net safety (Emerson)/Draeger /ESP Safety Pvt. Ltd./ M/s Oldham	Bidder is requesting kindly consider Ambtronics/ANACON PROCESS CONTROL make flame detectors. These makes are already approved in many CGD companies and also we can provide PESO approval for the same. Kindly approved the same.	Accepted subject to meeting the Design fitment and Operation criteria of Tender document shall be considered.
11	VOLUME – II OF II SECTION-II	Page 199 of 220	Sr. No. 12, Pressure Transmitter	Druck/ Wika/ Honeywell/ ABB/ Rosmount	Bidder is requesting kindly consider Setra make Pressure Transmitters. This make is already approved in many CGD companies. We can provide a PTR during the detail engineering. Kindly approved the same.	Tender Conditions Shall prevails
12	VOLUME – II OF II SECTION-II	Page 200 of 220	Sr. No. 21 On Off ball/ needle valve for CNG application	M/s Parker / M/s Swagelok/M/s SSP for CNG Application	Bidder is requesting kindly consider DK Lok/Hylok make Needle Valves. These makes are already approved in many CGD companies We can provide a PTR during the detail engineering. Kindly approved the same.	DK Lok is Accepted subject to meeting the Design fitment and Operation criteria of Tender document shall be considered.
13	VOLUME – II OF II SECTION-II	Page 200 of 220	Sr. No. 24 Air / heat exchanger	GEIHamonIndLtd/GEAIndia/Patel Air temp/CP/KPCL	Bidder is requesting kindly accept OEM make Air/Heat Exchanger. Mentioned make not manufacturer of water air cooled heat exchanger. We can provide a PTR during the detail engineering. Kindly approved the same.	OEM specific design and Make is approved and accepted (if not bought out item) meeting the Design fitment and Operation criteria of Tender document shall be considered.

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14	SECTION – III	Page 28 of 220	16 EARNEST MONEY DEPOSIT (EMD)	16.9 MSEs (Micro & Small Enterprises) are exempted from submission of EMD in accordance with the provisions of PPP-2012 and Clause 40 of ITB However, Traders/Dealers/ Distributors /Stockiest /Wholesaler are not entitled for exemption of EMD.. The Government Departments/PSUs are also exempted from the payment of EMD	Bidder is registered with MSME and as per Gazette Notification dated 18/10/2022 Enterprise which have been re-classified as 'Medium' enterprise from their earlier status as 'Micro' or 'Small' enterprise in Udyam registration certificate shall be exempted from submitting EMD. The bidders shall be given this exemption for a period of three years from the date of such upward change in their MSME status. Bidder shall submit Udyam registration certificate(s) meeting above stated conditions for exemption under this provision. MSME certificate with Gazette Notification (annexure 1) being enclosed for reference. Kindly consider the same.	The bidders shall be given the exemption as per Notification dated 18-10-2022 by Ministry Of Micro, Small And Medium Enterprises, New Delhi
15	VOLUME – II OF II SECTION-II	Page no. 199/200	15.6 Preferred Make	Preferred Make: FLPmotors: ABB/ComptonGreaves / Kirloskar /Siemens / BharatBijlee/Weg/Marelli IR Gas detectors: General Monitors / Crowcon / Honeywell / Sieger / Detronics/ Khrome Schroder / Net safety (Emerson)/Draeger /ESP Safety Pvt. Ltd./ M/s Oldham UV Flame detectors: General Monitors / Crowcon / Honeywell / Sieger/ Detronics / Khrome Schroder/ Net safety (Emerson)/Draeger /ESP Safety Pvt. Ltd./ M/s Oldham SS Tube: M/s Sandvik, Sweden / M/s Tubacex / M/s Ratnamani On Off ball/needle Valve: M/s Parker / M/s Swagelok/SSP for CNG application	Bidder requests to approve LHP motors, same is approved in major CGDs Bidder requests to approve Ambetronics make for Gas Detectors approved in major CGDs Bidder requests to approve Ambetronics Make Flame detectors approved in major CGDs Bidder requests to approve Jindal Saw tubes approved in major CGDs Bidder requests to approve DK Lok make Valves approved in major CGDs	<i>Following makes are accepted subject to meeting the Design fitment and Operation criteria of Tender document</i> <i>IR Gas Detectors:- Ambetronics</i> <i>UF Flame Detector:- Ambetronics</i> <i>SS Tube:- Jindal</i> <i>Saw On of ball/needle Valve:- DK Lok</i>
16	"INVITATION FOR BID (IFB)"	Page no. 5/200	(F)-BID SECURITY / EARNEST MONEYDEPOSIT (EMD)	4. Lump sum annual operation, repair & comprehensive maintenance charges per Booster Compressor Package including air compressor for second year i.e. after first year of warranty period inclusive of all manpower, spare parts, lubricants etc.	As per SOR we have to provide price for 1st years AMC during warranty period. In this statement it say after 1st year. Kindly confirm.	Bidder Understanding is correct, Bidder need to quote annual operation, repair & comprehensive maintenance charges during the 1st year of Warrantee period
17	TERMS OF PAYMENT	Page no. 144/200	3- TERMS OF PAYMENT	3.1.1- 85% of supply value as applicable will be paid progressively by Owner within 30 days against receipt... 3.1.2- Balance 10% payment: Progressively on completion of Installation, erection & commissioning of CNG Online.... 3.1.3.- 5% payment: Progressively on Testing and completion of Field Performance	Please note, we request you to make note that in case the installtion and erection is completed but Commissioing is not completed due to non avaialbility of gas, BG shall be provide and shall be valid upto warranty period. We request you to consider 90-10 for the payments terms.	Tender Conditions shall prevails

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18	TERMS OF PAYMENT	Page no. 144/200	3- TERMS OF PAYMENT	5% payment: Progressively on Testing and completion of Field Performance	There is no cap for the 5%. If the testing is delayed due to non availability of gas.	Tender Conditions shall prevail
19	TERMS OF PAYMENT	Page no. 144/200	3.1.2	bank guarantee of the said amount to initially remain valid for a period of 1 year after completion of 90 days; i.e; 15 months from the date of FOT site (actual) & shall be extended further, if required.	Please note. Providing a statement i.e. " shall be extended further, if required." leads to infinity extension of BG validity. Hence we request you to remove this clause.	Tender Conditions shall prevail
20	SECTION – VI	Page no. 159/200	SECTION – I : MATERIAL REQUISITION, Note: 6	Rates for Annual operation, repair & comprehensive maintenance etc. shall be based on operations of 24 hrs. x 7 days (3 shifts)	We request you consider IOT based operation. This will help RSGL for not having operators at the site and reduce overall opex cost. Kindly confirm the same.	Tender Conditions shall prevail
21	2.5 SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE	Page no. 167/200	1.7.10 CO2 flooding system	CO2 flooding system shall consist of 2 nos. of min 45 kg CO2 cylinders.	We request you to consider 22 kg which is sufficient for Booster package.	Tender Conditions shall prevail
22	VOLUME – II OF II SECTION-II	190 of 220	Technical Volume Clause No.12.0 Note-4	* No loading and penalty shall be applicable for power consumption upto 20.0 KWH.	Our units are patented (patent attached) by Govt of India as energy efficient booster compressors and claim a specific power output of 0.054 kW/kg. This specific power consumption, when translated to Electric power consumption comes out to be 16.2 KW (400/1.33 (conversion factor) * 0.054) = 16.24 KW. The power loading clause becomes redundant if there is no penalty for power consumption upto 20.0 KW for a 22 KW/ 400 SCMH device. Also, it does not pass on any benefits for an energy efficient booster compressor unit. Kindly clarify or make the required changes	Tender Conditions shall prevail
23	VOLUME – II OF II SECTION-II	170 of 220	Clause No. 5.3	Offered package shall be complete with compressor, electric motor, hydraulic pump and piping, cooling system, suction and discharge filters, control panel safety and control devices and other accessories required for automatic and safe operation of the system. The supply shall include all interconnecting piping/tubing/cables. Cooling system shall be of closed circuit type. Ultimate cooling shall be by air only.	The gas available at the Booster Compressor Package is already filtered in the Online Compressor Package and also filtered at the Suction Filter of the Booster Compressor Package. Filter at suction point of booster shall only be provided as per OEM standard design. Request to confirm the same.	Tender Conditions shall prevail
24	VOLUME – II OF II SECTION-II	172 of 220	Clause No.5.10.7	Low pressure CO2 piping; GI heavy duty from CO2 flooding system to nozzles shall be in supplier's scope. High pressure CO2 pipe shall be seamless CS.	We are using GI heavy duty for CO2 piping which is suitable for the application and widely accepted across all CGD Companies. Request you to confirm the same.	Tender Conditions shall prevail

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25	VOLUME – II OF II SECTION-II	167 of 220	Clause No.1.7.9	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-618 with R.V. venting as per cl. 7.20.4 of API-618. All vented to common relief valve header.	<p>We will provide 2 nos of SRV at 1st stage & 2nd stage discharge respectively. Our compressor's standard design comes with Relief valve at discharge of each stage. i.e. we provide 2 Relief Valves. However, Booster compressor will have 2 source of supply of CNG, 1 from LCV cascade & 1 from Stationary cascade and both the cascades are having 3 SRVs in each banks. i.e. total 6 SRVs are there on supply of CNG. SRV at the suction is not necessary as at suction pressure do not cross 200 bar and if it does, the compressor will not start due to start permissive logic. Request to confirm the same.</p> <p>Request to confirm the same.</p>	Tender Conditions shall prevails
26	VOLUME – II OF II SECTION-II	163 of 220	Clause No.2.1 - Codes &Standards	API-11P, Second edition,API 618	<p>The API 618 compression systems are engineered and offered directly by GE's Oil & Gas business, while high-speed API 11P units are available through a network of authorized packagers and distributors that provide complete cost-effective compression packages including a driver. As such, Booster Packages Compressor are hydrculically driven Intesifiers and same shall be designed as per Manufacturer's Standard.</p> <p>Request to confirm the same.</p>	Tender Conditions shall prevails
27	VOLUME – II OF II SECTION-II	163 of 220	Clause No.2.1 - Codes &Standards	D.M 24.11.84 parte prima - sez. II° , D.M. 24.5.02 - D.M. 28.6.02, DIN 2413, SAE J 514	<p>SAE J 514 Standard shall only be applicable for Flange and O-ring design of Hydraulic Intensifier and Hydraulic Pump. Other Hydraulic Instruments shall be as Manufacturer's Standard for Safety and Operation of the Package as per OEM Design. Bidder has supplied substantial package with similar configuration to major CGD Clients and has been in successful operation to complete satisfaction of the End users.</p> <p>Request to confirm the same</p>	Tender Conditions shall prevails
28	VOLUME – II OF II SECTION-II	169 of 220	Clause No. 2.2.1	All customer interface connections, gas Inlet shall be brought out to the package edge and terminated with ¾” pipe OD, Discharge connection shall be terminated with ¾” pipe OD& shall have an isolation ball valve	<p>As the outlet of the package in priority panel is divided into 6 lines, line size of 1/2" is enough to maintain the required gas velocity and flow. So, we are requesting you to package termination of 1/2" pipe OD.</p> <p>Request to confirm the same.</p>	Tender Conditions shall prevails
29	VOLUME – II OF II SECTION-II	182 of 220	Clause No.6.9.13	The gauge shall have an accuracy of +1% FSD and 100mm dial size. The range shall be 1.5 times of operating temperature.	<p>Bidder requests to clear the ambiguity as 63mm dial size is more than sufficient for easy visibility and access considering compact size of the Booster Package. Also the Bidder has standardized 63mm dial size Pressure Gauges and has supplied substantial packages with similar configuraion to major CGD industries and they are in continuous operation successfully running to the complete client satisfaction.</p> <p>Request to clarify the same.</p>	Accepted to subject to meet the tender conditions

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30	VOLUME – II OF II SECTION-II	182 of 220	Clause No.6.9.15	Vendor shall include one set of all licensed relevant Software (Windows based system configuration software and application program) for accessing the PLC, HMI and mass flow meter through Laptop / PC.	License version of software can be provided common for one number of GA instead of each package. Please clarify.	Tender Conditions shall prevails	
31	VOLUME – II OF II SECTION-II	169 of 220	Clause No.2.18	Surge protection devices of Schneider/MTL/Phoenix make shall be provided in the control panel.	SMPS considered are enabled with inbuilt surge protection of Make Omron. Bidder has supplied substantial package with same configuration and is acceptable across all CGD Industries. Request to confirm the same.	Tender Conditions shall prevails	
32	VOLUME – II OF II SECTION-II	175 of 220	Clause No.6.1.15	The selected I/O shall have 20% spare of used capacity (20% in each used card) for future use. 10% of used IO or Minimum two of each card out of 20% shall be extended up to terminal block with necessary isolator/ barriers.	PLC shall be 10% spare provided for each type of inputs and outputs	Tender Conditions shall prevails	
33	VOLUME – II OF II SECTION-II	164 to 220	Clause No.2.5	SCOPE OF SUPPLY FOR EACH COMPRESSOR PACKAGE	Kindly confirm the distances with reference to cabling and tubing, as a part of the bidder's scope: 1. Between Compressor package and air compressor/dryer required for actuation . 2. Between Compressor package and CO2 Flooding system. 3. Between Compressor package and the electrical room. 4. Between Compressor package and LCV Post. 5. Between Compressor package and each ESD.	all distances are within 30 meter	
34	VOLUME – II OF II SECTION-II	199 of 220	Clause No.15.6-Preferred makes Sr no. 2, 24, 9, 21	FLP motors	Kindly approve the following manufacturers for FLP motors . The manufacturers are approved with all the CGD companies: 1) Laxmi Hydraulics Pvt. Ltd	Tender Conditions shall prevails	
				Air / heat exchanger	The parties mentioned as approved vendors for air/heat exchangers are either obsolete or our competitors. Kindly consider KAL proprietary (SN Make) make heat exchanger for the job. We have also attached the PTR for various CGD clients (HPCL and GAIL Gas) where we have supplied 14 nos. We have also supplied over 300 booster compressor units to 25 different CGD companies in India, which includes almost all the PSUs	OEM specific design and Make is approved and accepted (if not bought out item) meeting the Design fitment and Operation criteria of Tender document shall be considered.	
				IR gas detector/UV flame detector	Kindly approve the following manufacturers for IR gas detector/UV flame detector. The manufacturers are approved with all the CGD companies: 1) Ambetronics	Refer Reply Point No.: 15	
				On Off ball /needle valves	Kindly approve the following manufacturers for IOOn Off ball /needle valves. The manufacturers are approved with all the CGD companies: 1) Hy-Lok	Accepted to subject to meet the tender conditions	
35	VOLUME – II OF II SECTION-II	164 of 220	2.5 Scope of Supply	1. Hydraulic booster with lube oil system and cooling system as required.	The Lube oil system is not required for hydraulic booster, required cooling system will be provided.	tender condition shall prevail	

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36	VOLUME – II OF II SECTION-II	164 of 220	2.5 Scope of Supply	Main incoming cable from owners PDB to main control panel of the compressor through GI conduit/trenches, Cable from owner's electronic earth pit (EE) for electronic circuit in control panel, cable from owner's main earthing ring to control panel body earth and all inter connecting cables including complete erection accessories like double compression cable gland, cable tags, lugs etc as required	Please confirm the maximum possible distance between electrical room & booster compressor installation.	RSGL understanding that the length envisaged is approx. 30M, However, actual length shall be confirm at the time of execution..
37	VOLUME – II OF II SECTION-II	165 of 220	2.5 Scope of Supply	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 compressor, however cooling water and hydraulic oil will be provided with necessary components. Applicable for online reciprocating compressors	tender condition shall prevail
38	VOLUME – II OF II SECTION-II	165 of 220	2.5 Scope of Supply	22. The bidder shall be responsible for the overhead mounting of a 3000-litre water cascade, with an approximate weight of 7.5 tons, on a structure of sufficient strength, including a proper platform on the top of the compressor foundation and a ladder arrangement, with the cascade provided by the purchaser, and shall also provide a Structure Stability Certificate for the unit where the cascade will be mounted, , and a fire-resistant certificate ensuring the structure can withstand fire for at least four hours without collapsing or failing	1. The empty weight & gas filled weight of 3000 WL capacity cascade is not more than 7 tons. Request you to kindly confirm. 2. The canopy structure will be designed to withstand the overhead mounting stationary cascade; it is not fire-resistant (four hours).	Tender Conditions shall prevails
39	VOLUME – II OF II SECTION-II	165 of 220	2.5 Scope of Supply	Hose will be installed with ¾" OD Three Way Ball Valve	Instead of three way ball valve , 2 no two way ball valve will give better performance for the compressor, Because three way ball valve have very small Cv value.	Tender Conditions shall prevails
40	VOLUME – II OF II SECTION-II	167 of 220	1.7.8 Safety	The Compressor Package shall trip if any of the enclosure is opened while the machine is running. However, the bidder shall provide enclosure door by - pass selector switch to facilitate routine checking while compressor is running.	Enclosure door switch are not required as this is hydraulic compressor and cooling is not effected even if the compressor is running. Please confirm.	Tender Conditions shall prevails
41	VOLUME – II OF II SECTION-II	167 of 220	1.7.9 Safety	Relief Valves shall be provided at suction and discharge and each inter stages of compressor with setting as per cl. 7.20.3 of API – 11P with R.V. venting as per clause 7.20.4 of API-11P. All vented to common relief valve header	* There is no requirement of relief valve at the first stage suction for booster compressor, as the suction is always reducing from 220 to 30 bar, *Both first & second stage are designed for operating pressure of 250 Bar and are intergral part of the single intensifier and there is no isolation between the stages, therefore inter stage relief valve is not required. Applicable for online reciprocating compressors.	Tender Conditions shall prevails
42	VOLUME – II OF II SECTION-II	167 of 220	1.7.10 CO2 flooding system:	3. CO2 flooding system shall consist of 2 nos. of min 45 kg CO2 cylinders. However actual size of the cylinder shall be as per compressor enclosure size. Necessary calculation shall be submitted by the bidder during detailed engineering.	As per the size of the canopy offered, 2 no CO2 cylinders od 22.5kg are enough, calculations will be shared during detailed engineering.	Tender Conditions shall prevails

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43	VOLUME – II OF II SECTION-II	169 of 220	2.0 UTILITIES & BATTERY LIMITS Sub Clause No. 2.1.7	All cabling (supply & laying) from electrical room to booster compressor shall be in the bidder's scope. Bidder shall indicate power/ Feeder (KW/Amp) requirement in the offer and shall supply power KWH meter for power consumption of the complete package including all accessories to be installed in the control panel. KWH reading shall be available at HMI.	Please confirm the maximum possible distance between electrical room & booster compressor installation	Refer Reply point No. 36
44	VOLUME – II OF II SECTION-II	170 of 220	5.0 BASIC DESIGN CRITERIA Sub Clause No. 5.3	Offered package shall be complete with compressor, electric motor, hydraulic pump and piping, cooling system, suction and discharge filters, control panel safety and control devices and other accessories required for automatic and safe operation of the system. The supply shall include all interconnecting piping/tubing/cables. Cooling system shall be of closed circuit type. Ultimate cooling shall be by air only.	The intensifier is of non lubricating, hence during intensification oil does not comes in contact with gas, intensifier is of non lubricating type. This is Applicable for online reciprocating compressors. Therefore discharge filter isnot required	Tender Conditions prevails
45	VOLUME – II OF II SECTION-II	171 of 220	5.9 Enclosure of CNG Compressor Package Sub Clause No. 5.9.8	The Compressor shall be located inside an acoustic enclosure. All Coolers, Knock out Drums, Scrubbers, Cooling System, lubrication system along with interconnecting piping shall be inside an enclosure. Enough headroom shall be made available for easy access and maintenance of all equipment. The piping layout with respect to the compressor, intercoolers, KOD and auxiliaries location shall be subject to Purchaser's approval during detailed engineering stage.	Applicable for online reciprocating compressors	Tender Conditions prevails
46	VOLUME – II OF II SECTION-II	171 of 220	5.10 Piping Sub Clause 5.10.3	The instrument air tubing material shall be SS 316.	As operating air pressurere is only 6 Bar, Kindly permit SS 304 Tubing.	Accepted if meeting the Design , fittment and Operation criteria of Tender document .
47	VOLUME – II OF II SECTION-II	172 of 220	5.10 Piping Sub Clause 5.10.4	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 DK LOK, Dawsons-Tech, Astec makes for SS Fittings & Valves	DK Lok is Accepted subject to meeting the Design fittment and Operation criteria of Tender document shall be considered.
48	VOLUME – II OF II SECTION-II	172 of 220	5.10 Piping Sub Clause 5.10.8	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 after-cooler to remove oil from compressed gas. The offered oil mist removal system shall restrict the oil less that 1 PPM in discharge of compressor.	The intensifier is of non lubricating, hence during intensification oil does not comes in contact with gas, intensifier is of non lubricating type. This is Applicable for online reciprocating compressors	Tender Conditions prevails
49	VOLUME – II OF II SECTION-II	173 of 220	6.0 ELECTRICS & INSTRUMENTATION CONTROL, Sub Clause 6.1.1	Panel shall be complete with start and stop push buttons, hours run meter, power on and fault indication lamps, fault reset button. All necessary timers and intrinsically safe relays to control the system on an automatic starting and stopping basis shall be provided. The compressor package control system shall be designed for unattended operation in automatic mode and in case of any fault it will go in a safe mode.	Not resettable hour meter provided at HMI	Tender Conditions prevails

SUBJECT: PROCUREMENT OF 400 SCMH CNG BOOSTER COMPRESSORS & COMPREHENSIVE O&M SERVICES FOR 1 YEAR						
Tender No.- RSGL/GWLR/C&P/PROJ/2025-26/NIT-01 DATE: 24-04-2025						
SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	Rajasthan state Gas Limited's REPLY
	Sec. No	Page No	Clause No.	Subject		
50	VOLUME – II OF II SECTION-II	174 of 220	6.0 ELECTRICS & INSTRUMENTATION CONTROL, Sub Clause 6.1.3	Motor shall be TEFC / 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 Conditions prevails
51	VOLUME – II OF II SECTION-II	174 of 220	6.0 ELECTRICS & INSTRUMENTATION CONTROL: 6.1.6	The incomers shall be provided with suitably rated switch fuse unit, ammeter, voltmeter with selector switch, energy meter, hour meter, PF meter, etc.	The multifunction meter provided at incomer which reads all the parameters, and same data will be available at HMI	Accepted subject to meeting the Design fittment and Operation criteria of Tender document.
52	VOLUME – II OF II SECTION-II	175 of 220	6.0 ELECTRICS & INSTRUMENTATION CONTROL, Sub Clause 6.1.14	redundant power supply for CPU and HMI, redundant power supply for load , non redundant I/Os, communication cards for connecting mass flow meter, communication card card/port for future SCADA connectivity.	Non redundant power is sufficient, we can provide a spare SMPS with compressor and it can be replaced immediately in case of failure	Tender Conditions prevails
53	VOLUME – II OF II SECTION-II	177 of 220	6.0 ELECTRICS & INSTRUMENTATION CONTROL, Sub Clause 6.3	Vendor has to calibrate Pressure & Temperature instruments within 1 month of compressor commissioning or before Performance Guarantee testing.	Instruments will be calibrated before due date	Tender Conditions prevails
54	VOLUME – II OF II SECTION-II	181 of 220	6.9 INSTRUMENTATION & CONTROLS DESIGN Sub Clause 6.9.6	6.9.6 Compressor package shall be provided with min following instruments; a. All tripping shall be with lamp indication and annunciation. b. Temperature indicator at 1st , 2nd stage discharge and at discharge of after-cooler c. Pressure indication at 1st,2nd stage discharge, high & med bank. Pressure switch, 2nd stage discharge, high & med bank	We will provide pressure indicator at suction, Inter stage and final discharge of compressor. Pressure indicators at high, medium and low bank is not required.	Tender Conditions prevails
55	VOLUME – II OF II SECTION-II	181 of 220	6.9 INSTRUMENTATION & CONTROLS DESIGN Sub Clause 6.9.6	f. Hour meter.	Non resettable hour meter provided on HMI	Tender Conditions prevails
56	VOLUME – II OF II SECTION-II	181 of 220	6.9 INSTRUMENTATION & CONTROLS DESIGN Sub Clause 6.9.7	All the process connection for instruments shall have isolation valve of SS only.	Isolation valves will be provided for all the pressure gauges used in high pressure gas system. However using the same with pressure transmitter will put the entire system under great risk, as human interference is involved, therefore the will not be provided. System vent is provided in case maintenance required.	Tender Conditions prevails
57	VOLUME – II OF II SECTION-II	181 of 220	6.9 INSTRUMENTATION & CONTROLS DESIGN Sub Clause 6.9.11	All pressure gauges and pressure transmitters shall be provided with isolation valves and have accuracy of + or - 1% of FSD and. + or - 0.25% of FSD respectively	Isolation Valve will be provided for all the pressure gauges used in high pressure gas system. However using the same with pressure transmitter will put the entire system under great risk, as human interference is involved, therefore the will not be provided. System vent is provided in case maintenance required.	Tender Conditions prevails

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58	VOLUME – II OF II SECTION-II	181 of 220	6.9 INSTRUMENTATION & CONTROLS DESIGN Sub Clause 6.9.12	Pressure transmitters shall be fixed range type with 2 wire 4 to 20 mA transmitter of piezoresistive suitable for CNG applications except at suction and discharge which is 2 wire smart type 4 to 20 mA transmitter with integral display and IP 67 certified & ex-proof.	Smart Pressure transmitter doesn't serve any special purpose, normal pressure transmitter suitable for CNG application with 4- 20 mA will serve the purpose. Kindly allow.	Tender Conditions prevails
59	VOLUME – II OF II SECTION-II	187 of 220	Clause 7.5 PAINTING (PRIMER & FINISH COAT)	Following primer and finish coats to be applied on the canopy and all structural parts as a minimum	The structure and the canopy will be powder coated, which is superior to painting and priming.	Accepted subject to meeting the Design fitment and Operation criteria of Tender document.
60	VOLUME – II OF II SECTION-II	190 of 220	Clause 12.0 GUARANTEED PARAMETERS - BOOSTER COMPRESSOR, Sr. No. 06	Sound level of enclosure in 75 dB(A)	Bidder request to allow sound level 75 + 3 dB(A) at 1 meter from the enclosure.	Tender Conditions prevails
61	VOLUME – II OF II SECTION-II	199 of 220	15.6 Preferred makes, Sr. No. 3	FLP Switchgear	We request you to add Shyaam switchgears Pvt Ltd, Saai Electrica make for FLP Switchgears	Tender Conditions prevails
62	VOLUME – II OF II SECTION-II	199 of 220	15.6 Preferred makes Sr. No. 8	PLC	Kindly approve ABB make PLC	Accepted subject to meeting the Design fitment and Operation criteria of Tender document.
63	VOLUME – II OF II SECTION-II	200 of 220	15.6 Preferred makes Sr. No. 16	RTDs	Bidder request to approve M/s AN Instruments Pvt. Ltd, Pune techtrol	Tender Conditions prevails
64	VOLUME – II OF II SECTION-II	200 of 220	15.6 Preferred makes Sr. No. 21	On Off ball/ needle valve for CNG application	For high pressure ball/ needle valve kindly approve DK LOK, HYLOK, Dawson- Tech & Astec.	Refer to reply point No 15
65	VOLUME – II OF II SECTION-II	-	15.6 Preferred makes	Instrument isolation valve	Kindly approve Baumer, Precision Mass for needle valve to be used with instruments.	tender condition shall prevail
66	VOLUME – II OF II SECTION-II	199 of 220	15.6 Preferred makes Sr. No. 05	Push Button	Kindly allow to use FCG for Push Button.	Tender Conditions prevails

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67	VOLUME – II OF II SECTION-II	199 of 220	15.6 Preferred makes Sr. No. 09	Gas Detector	Kindly allow to use Ambetronics for Gas Detector.	Refer to reply point No 15
68	VOLUME – II OF II SECTION-II	199 of 220	15.6 Preferred makes Sr. No. 10	Flame Detector	Kindly allow to use Ambetronics for Flame Detector.	Refer to reply point No 15
69	VOLUME – II OF II SECTION-II	200 of 220	15.6 Preferred makes Sr. No. 22	Cable	Kindly allow to use Avocab for cable.	Tender Conditions prevails
70	VOLUME – II OF II SECTION-II	200 of 220	15.6 Preferred makes Sr. No. 24	Air / heat exchanger	Kindly allow to use SOPAN make Air / heat exchanger.	OEM specific design and Make is approved and accepted (if not bought out item) meeting the Design fitment and Operation criteria of Tender document shall be considered.
71	-	-	General	List of Make	PESO is now providing complete approval for integrated machine. It is now not possible to include MAKES as suggested by client. Full package wil be integrated and tested by Third Party agency and then only PESO will give approval for full package. In case any additional MAKE is used for any of the components, revised PESO approval is required to be taken. In view of it, we kindly request you to remove vendor list of individual components from tender	Tender Conditions shall prevail.
72	-	-	-	-	PESO were not giving any approval till 31st January, 2025 as per letter available on PESO website. Due to this, most of the suppliers started applying for renewal recently as there was no clarity on further process. We have recently submitted an application for the renewal of PESO approval for our models. In regards to this, we kindly request you to consider our PESO renewal application for evaluation purpose.	Tender Conditions shall prevail.
73	-	-	-	-	Request you to confirm Central or states wages to be followed?	latest Circular of State Minimum Wages applicable
74	-	-	-	-	In case of installation and commissioning is delayed due to reasons attributed by Client, Bidder request Client to release this payment within max. 60 days from the date of delivery of respective Compressor Package.	Tender Conditions prevails