



VADODARA GAS LIMITED
REPLIES TO BIDDER'S QUERIES DATED 10/10/2022
TENDER NO.: VGL/CO/C&P-PNG/BD202208P008 DATED 23/09/2022 & TENDER ID: 552687
TENDER SUBJECT: PURCHASE OF DOMESTIC DIAPHRAGM METER ON ARC BASIS FOR A PERIOD OF ONE YEAR

With reference to the above subject tender, replies to bidder's queries have been addressed below:

SL. NO.	REFERENCE OF BIDDING DOCUMENT				BIDDER'S QUERY	VGL's REPLY
	SEC NO.	PAGE NO.	CLAUSE NO.	SUBJECT		
1	SECTION-II	11	1.2-BEC-FINANCIAL	Annual Turnover, Networth and Working Capital	<p>Since PFDB India has been incorporated with the MCA GoI as recently as 25th October 2021 and could have negligible commercial activity in FY 2021, as a standalone 'start-up' registered legal entity, PFDB India does not obviously have any audited financial statements for our previous years.</p> <p>We therefore sincerely request you to accept submissions of previous years financials of our promoting company M/s Pietro Fiorentini S.p.A. Italy which easily qualifies the requirement of the Commercial BEC of referred tender. This will enhance the confidence of Vadodara Gas on the execution of the supply.</p> <p>We request Vadodara Gas to extend complete provision of the start-up clause as defined in the GAZETTE NOTIFICATION NO. D.L-33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY, over the complete tender where "Bid Security/EMD and Prior turnover and prior experience shall not be required for all Start-ups" provision is also mentioned to GoI initiatives.</p> <p>Along with the start-up certificate and financials from parent company, PFDB India will also submit solvency certificate from our bankers (ICICI Bank and HDFC Bank) stating that we have sufficient or more working capital in bank account than the requirement of working capital in the Vadodara Gas referred tender.</p> <p>We would humbly appeal to you to support our initiative efforts and investments towards making India self-reliant in high-quality G1.6 gas meter manufacturing.</p> <p><i>Your promoter company Gail Gas Tender No GAIL GAS/AG/C&P/22/M02/2022-23 has also having the start-up clause applicable for their bid evaluation criteria.</i></p> <p>Grateful if you could help us in accepting the above request and allow us to participate in this tender.</p> <p>Kindly confirm.</p>	Tender Condition Prevails

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2	SECTION-II	11	1.1 AND 1.2 BEC TECHNICAL AND FINANCIAL	Annual Turnover, Networth and Working Capital	<p>We request M/s Vadodara Gas to provide exemption to Start-up in technical as well as financial BEC, subject to matching the technical specification of the product as many of the reputed CGDs are following this practice. Eg: Latest tender of Gail Gas Tender No GAIL GAS/AG/C&P/22/M02/2022-23, snip of the clause is also given below:</p> <p>48 <u>PROVISIONS FOR STARTUP (AS DEFINED IN GAZETTE NOTIFICATION NO. D.L-33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY AND AS AMENDED FROM TIME TO TIME) (FOR APPLICABILITY REFER BDS)</u></p> <p>As mentioned in Section-II, Prior turnover and prior experience shall not be required for all Startups [whether Micro & Small Enterprises (MSEs) or otherwise] subject to their meeting the quality and technical specifications specified in tender document and submission of document specified in Section-II.</p>	Tender Condition Prevails
3	SECTION-II	11	1.1 TECHNICAL CRITERIA	TECHNICAL CRITERIA (AS A SINGLE BIDDER)	<p>Since PFDB India has been incorporated with the MCA GoI as recently as 25th October 2021 and could have negligible commercial activity in FY 2021, We request Vadodara Gas to accept the bid based on technical experience of parent company which holds more than 50% of the paid up share capital of the bidder company or vice versa. Offers of those bidders (not under Consortium arrangement) who themselves do not meet the technical experience criteria as stipulated in BEC and are quoting based on the experience of foreign based another company (parent company) can also be considered. In such case the supporting company should hold more than fifty percent of the paid up share capital of the bidding company or vice versa. This is common BEC criteria for most of the CGD companies. We would humbly appeal to you to support start-up initiative efforts and investments towards making India self-reliant in high-quality G1.6 gas meter manufacturing. We confirm that we will be submitting technical experience criteria documentation of our parent company for the same number as requested in the BEC with proof of execution. We request you to accept the same. VGL's promoter company Gail Gas Tender No 05/51/23VF/GAIL Gas/054M for G1.6 Diaphragm Gas Meters also having same clause. We request you to include the clause inline with your promoter company. Kindly confirm.</p>	Tender Condition Prevails
4	SECTION-II	40	40	PUBLIC PROCUREMENT POLICY FOR MICRO AND SMALL ENTERPRISES (REFER BDS FOR APPLICABILITY OF THIS CLAUSE)	<p>We request to provide the exemption from furnishing bid security/EMD to Start-up firms also along with MSME/NSIC registered firms. Your promoter company Gail Gas Tender No GAIL GAS/AG/C&P/22/M02/2022-23 also having the same clause.</p> <p>Kindly provide your confirmation.</p>	Tender Condition Prevails
5	SCC	89	4	SECURITY DEPOSIT/ PERFORMANCE BANK GUARANTEE	<p>As per the standard industry practice the PBG is normally 3% of the order value. Hence, we request to reduce the PBG from 10% to 3% of the order value.</p>	Tender Condition Prevails
6	SCC	90	7	Term of payment	<p>In Payment term, it is not capped with number of days, request Vadodara Gas to please cap the number of days of making the payment. Kindly confirm that 100% payment will be release within 2 week of supply of the complete lot of the material.</p>	Tender Condition Prevails

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7	SECTION-I	8	11	INVITATION FOR BID	Please clarify whether we need to submit all unpriced bid documents in hard copy or only the four documents mentioned in clause no. 4 of IFB.	Tender Condition Prevails
8	SECTION-IV	80	Inspection and testing		<p>Globally, Calibration and Accuracy Testing is not done at 0.1 Qmax as it the point where the the accuracy of error curve changes from +/- 1.5% to +/- 3%. Hence the better testing point is the next test point which is 0.2 Qmax, at which Globally all labs do the calibration and accuracy testing. Hence we request Vadodara Gas to consider the below points for calibration and accuracy test: - Qmin 0.2 Qmax Qmax</p> <p>Similar clause is followed by other reputed CGDs like-</p> <ol style="list-style-type: none"> 1. CUGL-Tender No. P.014714 G 11031 R008 Dated 03-Jul-2021 2. IGL- Tender No. IGL/ET2/CP/CP16605 Dated 06-Sep-2021 3. HPCL-Tender No. 22000099-HD-10157 Dated 18-May-2022 4. BGL- Tender No MEC/23VX/01/51/D2/T04/SU/6538 Dated 05-Jul-2021 5. IOAGPL- Tender No IOAGPL/TSD/2019/024 Dated 29-Aug-2019 <p>Kindly confirm that test at Qmin, 0.2Qmax, Qmax, shall be acceptable. Below snapshot is from tender documents of one of the CGDs mentioned above</p> <p>over and also complied with at the time of delivery.</p> <p>10.0 INSPECTION AND TESTING</p> <p>Domestic Diaphragm Meters</p> <p>The SUPPLIER shall provide calibration certificate and accuracy of the Domestic Diaphragm Meter for the following flow rates (As per EN 1359 latest edition):</p> <p>Q Max. Q Min. 0.2 Q Max.</p>	Tender Condition Prevails
9	SECTION-IV	82	Tampering test procedure (For the meter using magnetic pulse with MIU/AMR)	Tampering test procedure (For the meter using magnetic pulse with MIU/AMR)	As per the industry practice, we will do magnetic temper alarm and AMR compatibility Test instead of mentioned test steps. Kindly confirm that same shall be acceptable.	Tender Condition Prevails
10	SECTION-IV	86	Datasheet	EN 1359	In tender documents at some places requirement of EN 1359 2006 is mention and at some places it is EN 1359 2017. We understand that both edition 2006 and 2017 will be acceptable. As per European Union Journal, EU implementing decision 2021/1402 dated 25-Aug-2021, reference of the standard EN1359:1998/A1:2006 is still under enforcement.Hence both the standard reference can be accepted. Kindly confirm.	Tender Condition Prevails
11	SECTION-IV	79		PESO is required along with ATEX	As per our understanding, PESO and ATEX are not applicable for a mechanical meter, kindly confirm	Tender Condition Prevails
12	SECTION-IV	80		The Vendor shall provide a calibration certificate and accuracy at MAOP	As per industry practice the calibration of Meters is done at a low pressure, whereas during Leak tightness test the test pressure is 15. times of MAOP (i.e. 0.75 bar)	Tender Condition Prevails



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13	SECTION-IV	83		Marking: Gas Temperature Range	As per EN 1359 standard, We will have ambient temperature range mentioned on Index plate, where as Gas temperature range if different to the ambient temperature range then it needs to be mentioned on Index plate, Kindly confirm.	Tender Condition Prevails
14	SECTION-IV	84		The box containing the individual gas meter shall contain the details of the installation and servicing operating instructions, and the same shall be written in the English language. They shall include all relevant information and the following in particular ü Instruction manual and Test certificates ü Installation, Operation and servicing ü Mounting position & instruction ü The maximum and minimum operating temperatures ü Maximum operating pressure	As per industry practice The information related to installation, servicing and operating instruction are available on Single Meter box. We will provide certificate for the complete lot/ batch along with the invoice, Kindly accept the same.	Tender Condition Prevails
15	SECTION-IV	84	Packing and Shipment	Each gas meter shall be protected with plastic end caps on the inlet and outlet end connections of the gas meters. The meter should be individually packed in a transparent plastic cover (of adequate thickness) to protect the meter from the ingress of dirt and water. The meters are individual boxes and packed in such a way as to prevent movement during transit. The type of packing of each gas meter shall be such that it provides adequate protection against any damage to the meter.	As per government guidelines and environment concern, we avoid the use of plastic. However, we assure you that meter shall be packed appropriately. Also, our meters has ingress protection IP65, which is dustproof and waterproof. Request you to remove the requirement of plastic packing.	Tender Condition Prevails
16	QAP	1	Test Pressure	Test Pressure i.e. (750 mbarg: 1.5 Times MAOP) Test duration: 30 s	During 100 % leak tightness testing complete meter will be immersed in the water, where as during the witness of leak tightness test on sample Meters during TPI, The meter will be immersed inside the water up to Top & Bottom case sealing area,	Tender Condition Prevails



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				after removing any trapped air	kindly confirm	
17	QAP	1	Inspection	100% Inspection by Manufacturer and 2% Inspection by TPIA:	As per industry practice, we request you to accept sample size as 1% for TPI inspection. Kindly confirm that same will be acceptable.	Tender Condition Prevails
18	Datasheet	89	Process Condition	Cyclic Volume-minimum	<p>Cyclic Volume – We request VGL to consider the cyclic volume of the G1.6 Diaphragm Gas Meter as "1.2 Litre or higher" since a 1.2 Litre design has much better "Metrological Stability" with repeatability results (accuracy error) well within the specified range specified in EN 1359. This aspect is progressively critical as the gas meter installation gets older during its lifetime. Cyclic volume of a Gas Meter is the volume of gas corresponding to one full revolution of the moving part(s) inside the meter (working cycle). It is evident from the design and size of Gas Meters with different cyclic volumes that the "wear and tear of moving parts (critical to accuracy of measurement)" in gas meters with lower cyclic volume like 0.52 Ltr or 0.8 Ltr or 0.9 Ltr is much higher in comparison to gas meters with cyclic volument of 1.2 Litre since the number of revolutions is much higher in lower cyclic volume design for an equal volume of gas passed. With duration of time, as the Gas Meters measures cummulatively increasing gas volumes and the number of cummulative revolutions also increases resulting in a much higher wear and tear of the moving parts. This results in higher error values (more than the limits prescribed in the EN1359 standard) and lower metrological stability, lower accuracy, lower reliability and increased problems in repeatability of accurate readings thereby resulting in higher gas losses and loss of revenue to the CGD. With VGL requirement of 20 years meter life, gas meters with lower cyclic volume will give higher errors values in meter reading after few years of their installation resulting in increased gas losses and loss of revenue to VGL. In addition to issues with metrological stability, due to higher number revolutions in lower cyclic volume design gas meters for the same gas volume passed, the moving parts of the internal gas measuring mechanism make higher noise which increases with increase in wear and tear of these parts. Same can be validated with CGDs in India that have experienced many noise related customer complaints with lower cyclic volume gas meters. We request VGL to consider cyclic volume value as 1.2 Ltr only. Kindly confirm.</p>	Tender Condition Prevails
19	7	81	TECHNICAL SPECIFICATI ON – DOMESTIC GAS METERS	All Meters shall have an in-built reverse flow & reverse count restrictor. The end connection shall be protected by Plastic caps.	Comply with reverse count restrictor only, please accept.	<p>Tender Condition Prevails</p> <p>Tender Condition Prevails</p>

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20		80	INSPECTION, TESTING AND QUALITY ASSURANCE	"The Vendor shall provide a calibration certificate and accuracy at MAOP of the Domestic Gas Meter for the	Calibration certificate and accuracy at defined flow rates is carried on sonics	Tender Condition Prevails
				OIML): QMIN - 0.1QMAX - QMAX"	nozzle test bench at pressure ranging between 5 to 15	Tender Condition Prevails
					mbar. The model approval testing is also done at this pressure. Please Accept.	Tender Condition Prevails
21		82	Procedure for	"After the MIU is installed and wired properly on the meter follow	We will do AMR	Tender Condition Prevails
			AMR Compatibility Test	these steps to verify that the AMR is working properly:	compatibility test for 0.2 meter cube, Please Accept.	Tender Condition Prevails
				Check the mechanical index reading and the reading on the MIU or at the Server are the same.		Tender Condition Prevails
				Check the serial number on the meter body, the communication device and server are the same.		Tender Condition Prevails
				Now move the meter index by blowing air or with the help of low-		Tender Condition Prevails
				pressure instrument air for a minimum one-meter cube.		Tender Condition Prevails
				Check the variation on the index, MIU, handheld device and on the server.		Tender Condition Prevails
				If the increments on all the places are same then it is demonstrated		Tender Condition Prevails
				that the communication is established."		Tender Condition Prevails
22		83	Procedure for	"Tamper Alarm will be conducted along with Calibration of test for	Ok as our gas meter has a magnetic index tamper	Tender Condition Prevails
			Tamper Alarm	Accuracy of Registration testing.	alarm will be shown during	Tender Condition Prevails



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			Test	Once the meter passes the calibration test at Qmin, Qmax, and at	the demonstration. Request you to accept the test to be conducted for 0.2 cubic meters of air. Please Confirm.	Tender Condition Prevails
				0.1Qmax flow rate, then the following tests will be conducted on the same apparatus:		Tender Condition Prevails
				Ensure that the communication is established between the MIU of		Tender Condition Prevails
				AMR meter with Bidder's proposed server.		Tender Condition Prevails
				Once the communication is established, bring a magnet (up to 0.2		Tender Condition Prevails
				Tesla) near the meter index and keep it there till at least one-meter cube of air is passed through it. A tamper alarm should be generated and if the alarm is not generated meter shall be considered as technically not qualified. Try to remove the MIU from the meter by breaking the seal on the removal of MIU the system shall generate alarm for the same and if the alarm is not generated meter shall be considered as technically not qualified.		Tender Condition Prevails
				Go back to step (a) again, if required."		Tender Condition Prevails
23				" The box containing the individual gas meter shall contain the details of the installation and servicing operating instructions, and the same shall be written in	Comply, Can you accept soft copy of the instruction manual for storage, handling and installation to save nature and trees? Please Confirm.	Tender Condition Prevails
			PACKING AND SHIPMENT	the English language. They shall include all relevant information and the following in particular:		Tender Condition Prevails



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				Instruction manual and Test certificates		Tender Condition Prevails
				Installation, Operation and servicing		Tender Condition Prevails
				Mounting position & instruction		Tender Condition Prevails
				The maximum and minimum operating temperatures		Tender Condition Prevails
				Maximum operating pressure"		Tender Condition Prevails
24		86	Body:	" $\frac{3}{4}$ " BSPP (M) confirming to ANSI B 1.20.1 End	Please correct from BSP to NPT	Tender Condition Prevails
			End Connections	Connection (In case the end connections are differing bidder to provide suitable adopters of Brass material and	as ANSI B 1.20.1 is referred to the NPT thread. Please Accept.	Tender Condition Prevails
				approved quality to meet the specified end connections)."		Tender Condition Prevails
25			Coating & painting:	Powder coating & epoxy painting	Will provide in Grey color	Tender Condition Prevails
					Powder coating, Please Accept.	Tender Condition Prevails
26		87		5. Flow capacity in SCMh shall be calculated considering	As this is mechanical meter and does not have pressure and	Tender Condition Prevails
				Maximum Operating Pressure & Temperature	temperature compensation in built it is not available in our	Tender Condition Prevails
					meter in offering. Please Accept	Tender Condition Prevails

NOTE: A COPY OF THESE REPLIES TO BIDDER'S QUERIES AS ISSUED ON n-procure &VGL WESITE ALONG WITH SIGN AND SEAL OF THE BIDDER WILL BE REQUIRED TO BE SUBMITTED WITH TECHNO-COMMERCIAL BID AS THIS WILL BE AN INTEGRAL PART OF THE TENDER.