



**CNG AND CITY GAS DISTRIBUTION PROJECT
TENDER FOR DOMESTIC AND COMMERCIAL METER
CORRIGENDUM – 1**



**Tender No: 110326/WGI/GGL/02-R0
Dated – 04.08.2011**

Sr. No.	Section / Clause No.	Tender Doc. Page No.	Clause Description	Added / Modified / Deleted														
1	(Vol II of II)	16 of 19	Data Sheet for Commercial Customers Meters– Note 2	Modified as: The Vendor shall provide calibration certificate and accuracy (at 3 points at atmospheric pressure) of the meter for flow rates of Qmin, 0.2 Qmax, Qmax. The model approval should be from FCRI or DVGW or equivalent authorities and / or calibration certificate shall be obtained for Model type from Government of India Weights & Measures Authorities..														
2	(Vol II of II) Data Sheet for Commercial Customers Meters	16 of 19	Note 7: The meter shall have the feature of Temperature Compensation.	Deleted Note 7														
3	(Vol II of II)	15 of 19	Data Sheet for Commercial Customers Meters– Note 2	Modified as: The Vendor shall provide calibration certificate and accuracy (at 3 points at atmospheric pressure) of the meter for flow rates of Qmin, 0.2 Qmax, Qmax. The model approval should be from FCRI or DVGW or equivalent authorities and / or calibration certificate shall be obtained for Model type from Government of India Weights & Measures Authorities..														
4	Clause 2.0 of Annexure -1 to IFB (Vol II of II)	7 of 117	Bidder Qualification Criteria	<p>2.1 The minimum annual turnover achieved by the Bidder as per their audited financial results during any one of the last three financial years should be as below:</p> <table border="1"> <thead> <tr> <th rowspan="2">Item No.</th> <th colspan="2">Minimum Annual Turnover requirement</th> </tr> <tr> <th>For Indian Bidders in Lacs INR</th> <th>For Foreign Bidders in Thousand USD</th> </tr> </thead> <tbody> <tr> <td>1 to 2</td> <td>2.06</td> <td>4.58</td> </tr> <tr> <td>3</td> <td>72.00</td> <td>160.00</td> </tr> <tr> <td>4</td> <td>19.50</td> <td>43.33</td> </tr> </tbody> </table>	Item No.	Minimum Annual Turnover requirement		For Indian Bidders in Lacs INR	For Foreign Bidders in Thousand USD	1 to 2	2.06	4.58	3	72.00	160.00	4	19.50	43.33
Item No.	Minimum Annual Turnover requirement																	
	For Indian Bidders in Lacs INR	For Foreign Bidders in Thousand USD																
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				<p>2.2 Net worth of the Bidder as per the last audited financial statement should be positive.</p> <p>2.3 The minimum working capital of the Bidder as per the last audited financial should be as below:</p> <table border="1"><thead><tr><th rowspan="2">Item No.</th><th colspan="2">Minimum Working Capital requirement</th></tr><tr><th>For Indian Bidders in INR in Lacs</th><th>For Foreign Bidders in USD in Thousand</th></tr></thead><tbody><tr><td>1 to 2</td><td>0.41</td><td>0.92</td></tr><tr><td>3</td><td>14.40</td><td>32.00</td></tr><tr><td>4</td><td>3.90</td><td>8.67</td></tr></tbody></table> <p>If the bidder's working capital is inadequate, the bidder should supplement this with a letter from the bidder's bank, having net worth not less than Rs.100 Crores / US\$ 20.8 million, confirming the availability of the line of credit at least for working capital requirement as mentioned above.</p> <p>Note: In case Bidder quotes for more than one item, the requirement of Annual Turnover and Working Capital shall be on cumulative basis, for the quoted items.</p>	Item No.	Minimum Working Capital requirement		For Indian Bidders in INR in Lacs	For Foreign Bidders in USD in Thousand	1 to 2	0.41	0.92	3	14.40	32.00	4	3.90	8.67
Item No.	Minimum Working Capital requirement																	
	For Indian Bidders in INR in Lacs	For Foreign Bidders in USD in Thousand																
1 to 2	0.41	0.92																
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4	3.90	8.67																

Corrigendum-1 is to be treated as part of the original Tender document and while submitting your offer; Corrigendum-1 shall also be signed, stamped and submitted along with Tender Document.

		CITY GAS DISTRIBUTION PROJECT			
TECHNICAL DATA SHEET FOR DIAPHRAGM TYPE DOMESTIC METER - G1.6					
General	Service	Natural Gas			
	Standard	Approved to EEC and OIML Standard. Note:1			
	Connection Orientation	Left side inlet and Right side outlet type -I quantity as per MR / SOR of tender	Right side inlet and Left side outlet type -II quantity as per MR / SOR of tender		
	Installation	Suitable for Out Door and in-door Installations, tamper proof and corrosion resistance for a life period of 20 years.			
Process Condition	Q max.	2.5 m ³ /hr			
	Q min.	0.016 m ³ /hr			
	Accuracy Class	± 3% (Qmin. to 0.1 Qmax.) , ± 1.5% (0.1 Qmax. to Qmax.) as per EN1359			
	Range Ability	1:150 or better			
	Operating Pressure	21 - 24 mbar (g)			
	Pressure loss	Less than 2 mbar (g)			
	Design Pressure	500 mbar (g)			
	Operating Temperature	0 degree C to 60 degree C			
Body	Case work / body	Casing and Body of steel conforming to ASTM A216 WCB and water proof.			
	Corrosion Protection	All part of the meter shall be corrosion resistant & suitable coating on inside and out side casing.			
	End Connections	3/4" NPT inlet and outlet conforming to ANSI B1.20.1 (incase the end connections are differing, bidder to provide suitable adopter of approved quality to meet the specified end connections).			
	Fire Resistance	As per BS EN 1359:1999/ BS 4161 or Equivalent.			
Index	Max Index Reading	0 0000.000			
	Unit	CM(Cubic Meter)			
	Marking on Index details	GREEN GAS LIMITED			
	Ingress Protection	IP 65 and above			
Internals	Diaphragm	Polyester fabric coated with rubber on either side of equipment for an endurance life cycle of 2000 hrs. as per EN 1359.			
	Other Internals	All meter internals shall be non-metallic to immune from tampering like with magnet.			
Others	Leak testing	Meter pressurized with air at 1.5 MAOP of the meter, immersed in water for observance of leakage.			
	Automatic Meter Reading System.	The gas meter should be compatible for implanting the automatic meter reading system at a later stage by retrofitting an appropriate signal transmitting device, shall be retrofittable pulse transmitter.			
	Noise	Very low, Vendor to specify.			
	Reverse Flow Restrictor	Meter shall be equipped with prevention of reverse rotation of Index.			
	Air Proof ability	No leakage			
	Cyclic Volume	Vendor to furnish			
	Test Period : Leak Testing	Vendor to furnish			
Permissible error	Vendor to furnish				
NOTE:					
1	The meter shall be approved for Design, manufacture, construction, testing and type approval in accordance with the requirement of BS EN 1359:1999 or equivalent and as per the requirement of this data sheet. Dial plate shall be marked with EEC/MID marking upto 3 points.				
2	The Vendor shall provide calibration certificate and accuracy (at 3 points at atmospheric pressure) of the meter for flow rates of Qmin, 0.2 Qmax, Qmax. The model approval should be from FCRI or DVGW or equivalent authorities and / or calibration certificate shall be obtained for Model type from Government of India Weights & Measures Authorities..				
3	<p>The Vendor shall submit, along with the offer, the manufacturing standards, model number, performance curve, approvals of the statutory bodies and technical details of the model offered. The offered meters shall be from approved vendor list of WGI/GGL.</p> <p>a) Dimensional outlet with mounting details with model number, Part list and technical literatures.</p> <p>b) Connection by purchaser.</p> <p>c) Installation, Operation and Maintenance Instruction manual.</p> <p>d) Testing and Inspection Procedure</p> <p>e) Test, Calibration and certificate from statutory bodies.</p> <p>f) Test certificate covering each meter supplied conforming the accuracy of registration in accordance with the requirement of BS EN 1359:99 or equivalent.</p>				
4	End connections shall be provided by plastic caps.				
5	The meters shall be indelibly marked with details of maximum flow, direction of flow ,maximum operating pressure, name of manufacturer, model serial number, date of manufacturing etc along with name of client:GREEN GAS LIMITED.				
6	Deleted				
7	Center to center distance between inlet & outlet connection should be 110 mm.				
8	Flow capacity in SCMh shall be calculated considering maximum outlet pressure & operating Temperature.				
		DATA SHEET FOR DIAPHRAGM TYPE DOMESTIC METER - G1.6		Document No.	Rev.
				11-0326-02-11-02-006	0
				SHEET 1 of 1	

		CITY GAS DISTRIBUTION PROJECT			
TECHNICAL DATA SHEET FOR DIAPHRAGM TYPE COMMERCIAL METER					
General	Service	Natural Gas			
	Standard	Approved to EEC and OIML Standard. Note:1			
	Installation	Suitable for In Door and Out Door Installations, tamper proof and corrosion resistance for a life period of 20 years			
Process Condition	Flow Capacity	Refer Below Table			
	Accuracy Class	±3% (Q min to 0.1 Q max) , ± 1.5% (0.1 Q max to Q max) as per EN 1359.			
	Range Ability	1:150 or better			
	Normal working Pressure	0.3 bar(g)			
	Max.Working Pressure	0.5 bar(g)			
	Design Pressure	1.0 bar (g)			
	Specific Gravity	0.6			
	Cyclic Volume	Vendor to specify.			
	Operating Temperature	0° C to 40 ° C Design 60 ° C			
Body	Case work / body	Suitable for Indoor /Out Door Installations,tamper proof and Corrosion resistance steel.			
	Corrosion Protection	All part of the meter shall be corrosion resistant & suitable coating on inside and out side casing.			
	End Connections	1 1/2" NPT inlet and outlet conforming to ANSI B1.20.1(incase the end connections are differing, bidder to provide suitable adopter of approved quality to meet the specified end connections).			
	Fire Resistance	As per BS EN 1359:1999/ BS 4161or Equivalent.			
Index	Max Index Reading	00000.000 for G4 & G6 Meter & 000000.00 for G10 upto G25 meter.			
	Unit	SCMH			
	Marking on Index details	GREEN GAS LIMITED			
	Ingress Protection	IP 54 and above			
Internals	Diaphragm	Polyester fabric coated with rubber on either side of equipment for an endurance life cycle of 2000 hrs. as per EN 1359.			
	distance connection.	Center to center distance between inlet & outlet connection to be indicated by bidder at the time of bidding.			
	Other Internals	All meter internals shall be non-metallic to prevent from tampering like magnet.			
Others	Leak testing	Meter pressurized with air at 1.5 MAOP of the meter, immersed in water for observance of leakage.			
	Automatic Meter Reading System.	The gas meter should be compatible for implanting the automatic meter reading system at a later stage by retrofitting an appropriate signal transmitting device, shall be retrofittable pulse transmitter.			
	Noise	Very low, Vendor to specify.			
	Test Period : Leak Testing	Very low, Vendor to specify.			
	Reverse Flow Restrictor	Meter shall be provide with a device to prevent the registration of reverse flow.			
NOTE:					
1	The meter shall be approved for Design, manufacture, construction, testing and type approval in accordance with the requirement of BS EN 1359:1999 or equivalent and as per the requirement of this data sheet.				
2	The Vendor shall provide calibration certificate and accuracy (at 3 points at atmospheric pressure) of the meter for flow rates of Qmin, 0.2 Qmax, Qmax. The model approval should be from FCRI or DVGW or equivalent authorities and / or calibration certificate shall be obtained for Model type from Government of India Weights & Measures Authorities..				
3	<p>The Vendor shall submit, along with the offer, the manufacturing standards, model number, performance curve, approvals of the statutory bodies and technical details of the model offered. The offered meters shall be from approved vendor list of WGI/GGL</p> <p>a) Dimensional outlet with mounting details with model number, Part list and technical literatures.</p> <p>b) Connection by purchaser.</p> <p>c) Installation, Operation and Maintenance Instruction manual.</p> <p>d) Testing and Inspection Procedure</p> <p>e) Test, Calibration and certificate from statutory bodies.</p> <p>f) Test certificate covering each meter supplied conforming the accuracy of registration in accordance with the requirement of BS EN 1359:99 or equivalent.</p>				
4	End connections shall be provided by plastic caps.				
5	The meters shall be indelibly marked with details of maximum flow, direction of flow ,maximum operating pressure, name of manufacturer, model serial number, date of manufacturing etc along with name of client: Green Gas Limited.				
6	Flow capacity in SCMH shall be calculated considering maximum outlet pressure & operating Temperature.				
Table for Flow Capacity					
S NO.	Commercial Diaphragm Meter	Flow Capacity	Quantity		
1	G4	144SCMD / 6 SCMH	As per MR/ SOR of Tender		
2	G10	384 SCMD / 16 SCMH			
			DATA SHEET FOR COMMERCIAL METER		Document No.
					Rev.
			11-0326-02-11-02-007		0
			SHEET 1 of 1		