

Gasonet		QUALITY ASSURANCE PLAN FOR DOMESTIC DIAPHRAGM GAS METER					Project : City Gas Distribution Project in Rajasthan, HP and Uttarakhand		
S. No.	Characteristics	Type of Check	Quantum of Check	Reference Documents	Acceptance Norms	Format of Record	Scope		Remarks
							Vendor	TPIA / Client	
1	External Leak tightness /	Test Pressure i.e. (750 mbarg: 1.5 Times MAOP) Test duration: 30 s after removing any trapped air	100%	BS EN 1359, Clause No. 6.2.2	Conforming to Tender Technical Specifications and BS EN 1359:1999 +A1:2006 or latest	Manufacturer Inspection Report / Laboratory Test Report in compliance to EN 1359 Latest	Perform	Witness	100% Inspection by Manufacturer and 2% Inspection by TPIA
2	External Soundness Test	-					Perform	Witness	
3	Calibration of test for Accuracy of registration testing	At Qmin Flow rate		BS EN 1359, Clause No. 5.1			Perform	Witness	
		At Qmax Flow rate					Perform	Witness	
		At 0.1Qmax Flow rate					Perform	Witness	
4	Pressure absorption	-		BS EN 1359, Clause No. 5.2			Perform	Witness	
5	Dimensional Inspection	Centre to Centre of end connections		Gasonet technical Specification			Perform	Witness	
		Inlet & Outlet end connection size and threading (3/4" (Male) as per the requirements of NPT standard)					Perform	Witness	
6	Visual inspection	Fascia plate marking					Perform	Witness	
		Powder coating thickness (minimum 40 microns)	Perform		Witness				
		Index reading and arrow marking	Perform		Witness				
		Safety Sticker affixed on meter	Perform		Witness				
		Color and appearance	Perform		Witness				
	Marking and Packing	Perform	Witness						
7	Mechanical & chemical properties of Body Casing		As per manufacturer's MTC		Perform	Witness			
8	Fire resistance - Resistance to high temperature Test	-	BS EN 1359, Clause No. 6.5.5	Perform	Review	Review of Test Certificates by TPIA / Client			
9	Calibration Report for all measuring instruments	-	BS EN 1359, Clause No. 6.5.5	Perform	Review				

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10	AMR Compatibility test	-		Gasonet technical Specification			Perform	Witness	100% Inspection by Manufacturer and 2% Inspection by TPIA

Notes

- 1 The above mentioned testing and acceptance criteria are minimum requirements; however, supplier shall ensure that the product also complies the additional requirements as per technical specifications and data sheets.
- 2 The supplier shall submit their own detailed QAP prepared on the basis of the above for approval of Owner / Owner's representative and TPIA.
- 3 TPIA shall have right to inspect minimum 2% of all manufacturing activities or as specified above.
- 4 TPIA along with Owner / Owner's representative shall review / approve all the documents related to QAP / Quality Manuals Drawings etc. submitted by supplier.
- 5 TPIA shall also review the test certificates submitted by the manufacturer.
- 6 Supplier shall in coordination with sub vendor shall issue detailed production and inspection schedule indicating the dates and the locations to facilitate Owner / Owner's representative to organise Inspection.
- 7 Supplier shall submit meter index format duly signed and stamped.
- 8 TPIA shall review all the reports 100%
- 9 All measuring instruments shall be duly calibrated at the time of inspection.
Calibration certificates of all measuring instruments shall be reviewed by TPIA at the time of inspection, along with Master Calibration Certificate of the measuring instruments from which the instrument is calibrated. The same shall be submitted along with submission of inspection report , and the same shall be traceable to national / international standards. The Master Calibration Certificate shall be checked as a must at the time of inspection and submitted along with the inspection report.
- 10 After satisfactory inspection, TPIA to apply their mark (stamp / sticker / embossing etc.) on each gas meter for testing. TPIA has also to apply their mark with unique identification (e.g. stickers which cannot be removed / embossing / stamp along with details such as batch no., date of manufacture, serial no.) on the outer box / gunny bags carrying the inspected materials after varifying the infoormation mentioned in the Gasonet Technical Tender Specification.
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