

**SPECIMEN COPY
HYDROTEST PROCEDURE
FOR
NATURAL GAS INDUSTRIAL METERING SKID-110 MBAR**

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1 INTRODUCTION :

This document defines procedure for Hydrostatic test to be carried out Industrial Metering skid (IMS).

2 SCOPE :

All the filter/Valves/equipment / instrument/ items/spools shall be hydrostatic tested as per approved QAP.

3 REFERENCE DOCUMENTS :

A) FOR _____ SCM (As per PO)

Design Documents of Skid		DOCUMENT No.
1	P & ID	
2	GA Drawing	
3	Base frame and Foundation Drawing	
4	Canopy Drawing	
5	Painting datasheet	

B) COMMON DOCUMENTS :

Design Documents of Skid		DOCUMENT No.
1	Quality assurance plan - Mechanical Items	
2	Quality assurance plan-Instrumentation Equipment	
3	Material Test certificate, Radiography test report, Hydro-test certificate	
Datasheet / Drawing of Equipments:		
4	Pressure Gauge	
5	Ball Valves	

4 HYDROSTATIC TEST :

4.1 Flanged end valves:

1. All the flanged end valves shall be pre hydro tested at vendor's place as per the QAP of Valves.

4.2 Valves:

1. Hydrotest of the brass valves shall be carried out as per EN 331 by ball valve supplier at pressure 5-7 barg

4.3 Pipe spools:

1. Hydrostatic Test is carried out on each pipe spool during stage inspection of the skid. This inspection is witnessed by TPIA.
2. Hydro test is done by pressurizing each pipe spool using water.
3. For 150# piping, hydro test is done at minimum – 28.5 Barg.
4. Total duration of hydro test is 240 minutes.
5. Line pressure & line temperature are recorded initially, after every 30 minutes & at the end of hydro test.
6. During holding period, there shall not be any pressure drop noticed.
7. At the end of hydro test, Test certificate is signed by both TPIA & Vendor representatives.
8. After completion of hydro static test, piping shall be thoroughly drained & cleaned.

5 TEST CERTIFICATES:

Upon completion of the tests mentioned in this document, Test Certificate should be filled with the results and signed/stamped by representatives of all the parties-VENDOR and TPI/Client

TEST CERTIFICATE

HYDROTEST TEST

Project NATURAL GAS INDUSTRIAL METERING SKID.

Customer M/S. GUJARAT GAS LTD.

PO. NO.

System No. --

No pressure loss/drop shall be observed after accounting for temperature variation.

Vendor

TPIA

Customer

Representative

Representative

DATE: