GUJARAT GAS

SITE ACCEPTANCE TEST PROCEDURE
FOR
NATURAL GAS INDUSTRIAL METERING SKID

Document No.: GGL/TS/SAT/IMS/001

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1 PREFACE

1.1 INTRODUCTION :

This document defines procedure for Site acceptance Test (SAT) to be carried out for Industrial Metering skid (IMS). The purpose of carrying out SAT is to check functionality of entire skid with respect to agreed technical documents & Commissioning.

1.2 SCOPE :

The SAT will confirm the compliance of Industrial Metering skid (IMS) with project specifications.

All the equipment's / instruments/ items shall be installed (as far as possible) for functionality demonstration during SAT. In case some of the items cannot be erected/ installed during SAT, list of such item along with the reason for not installing the same shall be provided before start of SAT.

1.3 REFERENCE DOCUMENTS :

A) FOR _____ SCMH:

Design Documents of Skid		**DOCUMENT No.**
1	P & ID	
2	GA Drawing	
3	Base frame and Foundation Drawing	
4	Canopy Drawing	
5	Painting datasheet	
Datasheet / Drawing of Equipments:		
1	Cartridge Filter	

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:		
1	Pressure Gauge	
2	Differential Pressure Gauge	
3	Ball Valves	
4	Check Valves	
5	Globe Valve	

1.4 ORIENTATION WITNESSES :

All Representatives shall be briefed on operating principles of the Industrial Metering Skid (IMS) package before commencing the SAT.

1.5 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

2 VISUAL INSPECTION OF SKID

2.1 SKID REVIEW :

The skid will be inspected for installation of all the components as per approved P&ID and G.A. Drawing and other related documents listed in section 1.3. Dimensional checking shall be done as per approved G.A. drawing. The Skid will be inspected for proper support with rubber pads/ clamps for the major equipment's/ Instruments and pipes, Blinds (for Drains/ Vent / End Flange), Jumpers Platforms, crossovers .etc.,

Stud & nuts with minimum 2 to 3 threads shall fall beyond the nut on both sides,

Copper jumper plate on each flange joint.

2.2 TEST CERTIFICATE FOR VISUAL INSPECTION :

Upon completion of the visual inspection described in this section, the Test Certificate for Visual Inspection of skid should be dully filled and signed by both parties.

3 FACTORY ACCEPTANCE TEST

3.1 PNEUMATIC LEAK TEST:

Pneumatic leak test is carried out on completely erected skid using compressed air.

1) Keep all valves open. Close either inlet or outlet side pipe with blind flange.
2) Check all drain and vents are in closed position and safety valve inlets and intermediate line ball valves are in open condition.
3) Charge air at 1 Barg from inlet.
4) Slowly increase the pressure by steps of 1 Barg up to 7 Barg.
5) Inspect all flanged joints using soap water for 30 minutes and also inspect for any leakage in all Isolation Valve (Ball, Plug, Globe valves)/ control valve gland, joints, connections, impulse tubing or any other connection or any other part of skid. In case the leakage from skid or its part is noticed, the same shall be attended and corrected.

4 PAINTING :

Painting shall be checked as per Painting procedure, Document No. - ……..

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TEST CERTIFICATE

LEAKAGE TEST OF COMPLETE SKID

Project NATURAL GAS INDUSTRIAL METERING SKID.

Customer M/S. GUJARAT GAS LTD.

PO. NO.

System No. --

Test Pressure: 7.0 Barg.

Test Media : Nitrogen

Duration : 30 minutes

Sr.No.	POINTS INSPECTED	FOUND OK
1	LEAK TEST AT FLANGE JOINTS AND OTHER CONNECTIONS	**YES / NO**

_____ _____ _____

Vendor Representative | TPIA | Customer Representative

DATE:

GUJARAT GAS

TEST CERTIFICATE

ACTION LIST

Project NATURAL GAS INDUTRIAL METERING SKID.

Customer M/S. GUJARAT GAS LTD.

PO. NO.

System No. --

Sr. No.	Description	Action By
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

_____ _____ _____

Vendor Representative | TPIA | Customer Representative

DATE: