GUJARAT GAS

DESIGN AND PROCESS PARAMETERS

FOR INDUSTRIAL METERING SKID

Approved

DESIGN AND PROCESS PARAMETERS

Project Name : Industrial Metering Skid

Revision : 0

1. Confirming Standard : PNGRB Technical Standard, ASME B 31.8 and IGE/TD/13, (Latest Edition)
2. Piping/Filter Standard : ASME B 31.8, API 1104 and ASME Sec.- VIII & IX with (latest addenda)
3. Functional Requirements : IGE/TD/13 and as per agreed MANUFACTURER's Recommendation
4. Class Location : Location Class Four (4) as per PNGRB T4S Standard for CGD networks
5. Design & Operating Data :

Item No.	Description	Throughput , (SCMH) @ 1 barg O/L pressure	Meter Model	Design Pres. (barg)	Design Temp. (Deg. C)	Op. Pres. (barg)	Op. Temp. (Deg. C)
1	250 SCMH (2" x 2")	250	G16	19	65	1 - 5.5	0-50
2			G25	19	65	1 – 5.5	0-50
3			G40	19	65	1 – 5.5	0-50
4			G65	19	65	1 – 5.5	0-50
5	3" x 3" (500 SCMH)	500	G100 / G160	19	65	1 – 5.5	0-50
6	3" x 3" (750 SCMH)	750	G250	19	65	1 – 5.5	0-50
7	4" x 4" (1500 SCMH)	1500	G400	19	65	1 – 5.5	0-50
8	6" x 6" (2000 SCMH)	2000	G650	19	65	1 – 5.5	0-50

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1. Limiting gas Velocity:

- Filter Upstream - Designing of pipeline size before filter, velocity to be considered 20 m/s.
- Filter Downstream - Velocity to be consider 30 m/s

2. Environment Considerations:

All equipment shall be designed for operation, storage & transportation under the following environmental conditions.

Maximum acceptable noise level may be specified as per State/Central pollution board norms.

3. Site Conditions

The entire instrumentation system shall be designed for the following site conditions:

Max. /Min. temperature	:	50 / 0 ° C
Relative Humidity	:	100%
Hazardous Area classification	:	**Zone 1, Gas group IIA / IIB, Temp. Class T3**

4. Typical Gas Composition:

Following Gas composition has been considered for design and engineering of skids:

Typical Gas Composition	
Component	Mole % (v/v)
CH4	92.66%
Nitrogen	0.42%
C2H6	6.32%
C3H8	0.49%
i-C4H10	0.05%
n-C4H10	0.06%

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