Temperature Gauge Technical Specification:

Common specifications for all items:

Capillary and Contact Type Temperature Gauge having the following specification:

- a) Make: Mass, Ashcroft, Wika, General Instrument, Micro Process Controls, Millennium Instruments, Care Process, Akvalo, Waree, H-Guru, Odin, Osmadial, Altop, Gluck, Forbes Marshall, AN Instruments or GSECL Approved vendor.
- b) Range: 0 to 150 Deg C, Dial Size: 150 mm, Capillary length: 7.5 Meter.
- c) Case and bezel: Weather proof aluminum case with bezel/SS Snap Action type.
- d) Protection: Weather proof and confirming to IP 65 or better.
- e) Process Connection: 1/2 inch BSP (M), Adjustable throughout the bulb length.
- f) Entry / Mounting: Bottom Entry, Surface Mounting type
- g) Bulb / Stem Length: 270 mm,
- h) Bulb / Stem Dia: as per Item wise specification.
- i) Bulb / Stem Material: SS 316
- j) Capillary Material: SS Capillary Covered with S.S flexible armoring
- k) Movement Material: SS 304, Contact: 02 (Two) no. of normally open contacts (without relay)
- I) Contact Rating: 30W at 220VDC, Contact Action: To be closed on rising of temperature
- m) Contact Setting: Manually throughout the range span independently adjustable
- n) Accuracy: +/- 1.0% FSD.

Item wise additional specifications:

<u>Sr. no-1:</u>

a) Bulb / Stem Dia: 6.0 mm

<u>Sr. no-2:</u>

a) Bulb / Stem Dia: 8.0 mm

<u>Sr. no-3:</u>

a) Bulb / Stem Dia: **10.0 mm**

Pressure Gauge Technical Specification:

General Specifications:

- Make: GSECL Approved vendors / any make supplied to GSECL units / NTPC / SEBs / Power Plant Units
- 2. Type: Direct reading
- 3. Mounting: Local
- 4. Entry position: Bottom
- 5. Dial: Aluminum white background & black numerals
- 6. Case material: Die cast Aluminum
- 7. Enclosure Protection: Weather proof to IP 68
- 8. Window: Shatter proof toughened Glass
- 9. Sensing Element: Bourdon
- 10. Sensing element material: SS316

- 11. Movement material: SS 304
- 12. Wetted parts: SS316
- 13. Accuracy: +/-1% of FSD
- 14. Repeatability: +/-1% of FSD
- 15. Over range protection: 150 % of Span16. Zero & Span adjustment: To be provided
- 17. Pointer type: Micrometer screw for zero adjustment
- 18. Blowout Protection: To be provided
- 19. Joints: Argon Arc welded

Item wise additional specification

- 1. CHLORINATION PLANT DIAPHRAGM SEAL TYPE PRESSURE GAUGE, Range: 0 to 25 kg/cm2
 - Range: 0 to 25 kg/cm2
 - Dial size: 150mm
 - Process Connection: ½" NPT (M)Service: Liquid & Gas Chlorine
 - Diaphragm Seal:
 - 1) Diaphragm seal connection: 1/2" NPT (MXF)
 - 2) Upper housing material: SS3043) Diaphragm material: SS316+PTFE
 - 4) Lower housing material: SS 316 +PTFE
 - 5) Filling liquid: Silicon oil
- 2. BURDON WITH DIAPHRAGM SEAL PRESSURE GAUGE, RANGE: 0-6KG/CM2, DIAL: 150MM, ENTRY: BOTTOM, CONNECTION: 1/2" NPT (M), SEALING MEDIUM: SILICONE OIL.
 - Range: 0 to 6 kg/cm2
 - Dial Size: 150 mm
 - Process Connection: ½" NPT (M)
 - Service: Liquid & Gas Chlorine
 - Diaphragm Seal:
 - 6) Diaphragm seal connection: 1/2" NPT (MXF)
 - 7) Upper housing material: SS304
 - 8) Diaphragm material: SS316+PTFE
 - 9) Lower housing material: SS 316 +PTFE
 - 10) Filling liquid: Silicon oil

3. VACCUM GAUGE, RANGE: -760MM TO 0 MMHG, DIAL SIZE: 6", CONNECTION: 1/2" NPT (M), ACCURACY: +/-1% FSD

Range: -760 MMHG to 0 MMGH

Dial Size: 150mm

Process Connection: ½" NPT (M)
Service: Liquid & Gas Chlorine

• Diaphragm Seal:

11) Diaphragm seal connection: 1/2" NPT (MXF)

12) Upper housing material: SS30413) Diaphragm material: SS316+PTFE14) Lower housing material: SS 316 +PTFE

15) Filling liquid: Silicon oil

4. PRESSURE GAUGE DIAPHRAGM, RANGE: 0 to 500 MMWC, DIAL: 100MM, ENTRY: BOTTOM, CONNECTION: 1/2" NPT (M).

Range: -0 MMWC to 500 MMWC

Dial Size: 100mm

Process Connection: ½" NPT (M)
 Service: Liquid & Gas Chlorine
 Sensing element: Diaphragm
 Upper housing material: SS304
 Diaphragm material: SS316+PTFE

Lower housing material: SS 316 +PTFE

Filling fluid: Silicon oil
 Accuracy: +/- 2% of FSD
 Snubber: To be provided
 Snubber material: SS316

Snubber connection: ½" NPT (MXF)

5. BURDON WITH DIAPHRAGM SEAL PRESSURE GAUGE, RANGE: 0-4KG/CM2, DIAL: 150MM, ENTRY: BOTTOM, CONNECTION: 1/2" NPT (M), SEALING MEDIUM: SILICONE OIL.

Range: 0 to 4 kg/cm2Dial Size: 150 mm

Process Connection: ½" NPT (M)Service: Liquid & Gas Chlorine

• Diaphragm Seal:

16) Diaphragm seal connection: 1/2" NPT (MXF)

17) Upper housing material: SS30418) Diaphragm material: SS316+PTFE19) Lower housing material: SS 316 +PTFE

Filling liquid: Silicon oil

6. PRESSURE GAUGE RANGE 0- 6 KG/ CM SQ. DIAL 150 MM END CONNECTION 1/2 INCH NPT (M) MOUNTING BOTTAM ENTRY.

Range: 0 to 6 kg/cm2Dial Size: 150 mm

• Process Connection: ½" NPT (M)

7. PRESSURE GAUGE,SS BOURDEN TYPE, 0-10KG/CM2,1/2" NPT (M) CONNECTION, BOTTOM ENTRY,100MM DIAL SIZE.

Range: 0 to 10 kg/cm2Dial Size: 100 mm

Process Connection: ½" NPT (M)

8. PRESSURE GAUGE RANGE 0-16 KG/CM2 SIZE 100 MM

Range: 0 to 16 kg/cm2Dial Size: 100 mm

• Process Connection: 1/4" NPT (M)