



Technical Specification of CO2 Flooding (Cylinder)

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Approved

1. INTRODUCTION:

Gujarat Gas Ltd, a Group Company of Gujarat State Petroleum Corporation Ltd., (State Government undertaking), is in business of distributing Natural Gas to Industrial/Commercial/Non-commercial/Domestic Customers and CNG Stations in various Geographical areas as per Authorization from PNGRB.

The present document covers the technical specifications of CO2 Flooding (Cylinder) confirming IS 7285 part 2(Refer Attached Image in Annexure I).

2. DEFINITIONS

Definitions of the terms used in this document, (unless the context otherwise requires), shall have the same meaning as respectively assigned hereunder.

The "GGL" or "**Company**" or "**Owner**" shall mean GUJARAT GAS LIMITED (GGL), incorporated under company's Act 1956, hereinafter mentioned as "OWNER" which expression shall, unless repugnant to the context or meaning or meaning thereof, include all its successors, administrators, executors and assigns.

The "**Supplier**" shall mean the agreement and all other documents between the company and the supplier for providing the services / materials mentioned herein.

The "**Specification**" shall mean all directions, the various technical specifications, provisions attached and referred to in the Bid documents which pertain to the method and manner of performing the work or works to the quantities and qualities of the work or works and the materials to be furnished under the contract or works or works as may be amplified or modified by the COMPANY during the performance of Contract in order to provide the unforeseen conditions or in the best interests of the work or works. It shall also include the latest edition of relevant standard specifications including all agenda / corrigenda published before entering into the contract.

"**Guarantee**" means the period and other conditions governing the warranty / guarantee in respect of the work as detailed in section hereunder.

"**HSE**" means Health, Safety and Environment.

3. SUPPLIER'S SCOPE OF WORK

3.1 General Scope:

The scope covers the minimum required specification complied by the supplier toward the supply of 45 kg (67 WL) CO2 Flooding Cylinder confirming IS 7285 part 2 with CO₂ cylinder master valve confirming IS 3224:2002 (Refer attached image in Annexure I).

3.2 Supplier's scope of supply:

- 1) Supply of 45 kg (67 WL) CO2 Flooding Cylinder confirming IS 7285 part 2 with CO2 cylinder master valve confirming IS 3224:2002 (Refer attached image in Annexure I). Applicable IS certificates to be submitted at time of delivery.
- 2) Supply of refillable seamless steel gas cylinder filled at 200 bar with minimum 99.5% purity (v/v) Carbon Di-Oxide gas confirming to IS: 15222
- 3) Neck Threads: W 28.8 × 1/14" DIN 477
- 4) Nominal Length (Without cap and without valve): 1520 mm approx.
- 5) Outside diameter: 267 mm & Minimum wall thickness: 6 mm
- 6) Capacity: 45 kg Gas or 67 Water Litre capacity

- 7) Testing Pressure: 340 kg/cm². Testing certificate to be submitted at time of delivery.
- 8) Neck threading shall be as per IS 3224:2022, Type 2 Threads (DIN 477) equivalent to 25E as per EN 629-1
- 9) Net weight & Gross weight respectively: 80 kg & 125 kg
- 10) CO₂ cylinder's Master valve can be operated both way: Electro-Pneumatically & Manually
- 11) Bottom: Concave
- 12) Paint: RED
- 13) Approval certificate from PESO (CCoE) to be provided for cylinder and CO₂ master valve (Solenoid Valve)
- 14) The following details shall be marked on each cylinder
 - Type of Cylinder
 - Manufacturer's name & Manufacturing year not less than 2022
 - Inspector Stamp
 - Fire Rating
 - IS & PESO Approval Details
 - Test Pressure
 - Operating pressure
 - Capacity of cylinder
 - Weight of cylinder
 - Date of Hydro test (Hard Punch)
 - Suitable temperature range
 - Instruction (How to operate)
 - Purchase Order No. and date

3.3: Guarantee:

1. In case of supplier's guarantee being applicable, the supplier shall either arrange to repair the defective parts of the equipment/product at their cost or replace with new components in compensation, free of charge at the earliest and by the quickest possible means. The supplier shall further provide guarantee of 12 months in respect of such parts replaced during guarantee period.

Annexure I

