



**Technical Specification for AFFF type Fire Extinguisher**

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## 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.

AFFF (Aqueous film forming foam) type Fire Extinguishers confirming IS: 15683 are useful for Class 'A' & Class 'B' fires involving flammable liquids such as petrol, diesel, liquid Ethyl mercaptan, Paints, Solvents and fats like Grease and Oils. Foam type extinguishers to use stored pressure technology and the squeeze grip mechanism for high power throw of a chemical foam that blankets the flames and cuts off the oxygen supply.

The present document covers the technical specifications for supply of AFFF (Aqueous film forming foam) type Fire Extinguishers confirming IS: 15683:2006 as per the requirement of GGL.

## 2. DEFINITIONS

Definitions of the terms used in this bid 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, having its Corporate Office at 301-304, 3rd floor IT tower 1, Infocity, Gandhinagar, 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 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 addenda / corrigenda published before entering into the contract.

"**Approved**" shall mean approved in writing including subsequent written confirmation of previous verbal approval and 'Approval' means approved in writing including as aforesaid.

"**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/specification cover the minimum specified requirement for the various activities to be carried out by the Supplier toward the supply of AFFF (Aqueous film forming foam) type Fire Extinguishers confirming IS: 15683





### 3.2 Supplier's scope of supply:

#### 3.2.1: Material

1. As per IS: 15683 Specification & Capacity, AFFF Mechanical Foam shall be available in 6 & 9 liters.
2. AFFF shall be approved by BIS with ISI mark CE approved Certificates.
3. AFFF cylinder shall be of welded construction having cold or hot drawn cylindrical portion with hemispherical, ellipsoidal or torispherical ends welded to it or two halves cold or hot drawn and circumferential welded together.
4. All internal and external surface of the body shall be completely epoxy powder coated to minimum 0.050 mm thickness. The thickness of the coating shall be measured as given in IS: 3203.
5. Discharge mechanism shall be controllable.
6. ISI & CE approved Certificates to be supplied with material
7. A suitable pressure gauge shall be fitted to valve assembly or to the cylinder to indicate pressure inside the cylinder.

#### 3.2.2: Certificates:

- Following list of Certificates to be supplied with material.
  - a. A certified copy of BIS: 15683 latest revision license certified to the manufacturer.
  - b. ISI & CE approved Certificates to be supplied with material
  - c. Hydraulic test certificate of the extinguisher
  - d. Guarantee certificate at least for one year

#### 3.2.3: Finishing & Display:

1. The body shall be coated with epoxy powder coating/phosphorylated.
2. The finish shall be in Fire Red Epoxy polyester powder coated.
3. The following details shall be marked on each cylinder.
  - a. Type of Fire extinguisher Word 'Mechanical Foam (Stored Pressure)'
  - b. Manufacturer's name & Trade mark
  - c. Standard Mark (Governed by the provisions of BIS)
  - d. Capacity of the extinguisher in litres
  - e. Word 'Recharge after use'
  - f. The word 'Keep this end up' while using;
  - g. Inspector Stamp
  - h. Month & Year of manufacture and production batch No.
  - i. Letter indicating the suitability of the unit for various class of Fire Rating
  - j. Approval Details
  - k. Test Pressure
  - l. Date of Hydro test (Hard Punch) Instruction (How to apply)
  - m. Purchase Order No. and date
  - n. Working pressure

**3.3: Guarantee:**

1. The supplier shall guarantee the equipment against any defects or failure that may arise due to faulty design, defective material employed or poor workman ship involved on their part for a period of 12 months from the date of delivery of the vessel to the owner.
2. In case of suppliers guarantee being applicable, the supplier shall either arrange to repair the defective parts of the equipment 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.