

UNOPS

TECHNICAL SPECIFICATIONS

**PROCUREMENT, INSTALLATION, TESTING AND
COMMISSIONING OF INTEGRATED MEDICAL GAS SYSTEM IN
SELECTED HOSPITALS IN ETHIOPIA**

B "FIRE FIGHTING SYSTEM

JANUARY 2025

Fire fighting system Technical specification for MGS plant house

PART 1 - GENERAL

1.1 DESCRIPTION

This section specifies the furnishing and installation of portable fire extinguishers.

1.3 SUBMITTALS

submit the following:

- A. Shop Drawings:
 - 1. plan views showing layout and connections to the required component.
 - 2. Show the methods of fastening the device.
- B. Certification: Two weeks prior to final inspection, submit four copies of the following certifications to the Resident Engineer:
 - 1. Certification that the the portable extinguishers are filled up and the expiry date is appropriately affixed.

2 - PRODUCTS

2.1 MATERIALS

- A. Provide manufacturers data sheet and manuals of the devices and materials
- B. Anchors and fasteners: Bolt type which are most suitable for the specific anchor and fastener installations.

Adopted Codes and Standard:

NFPA 10 , chapter 6 for portable fire extinguisher installation

EXECUTION

3.1 INSTALLATION

- A. Install the devices as inconspicuously as practical.
- B. Make connections as per manufacturers technical drawings.
- C. Protect from dust and dirt during construction period.
- D. Test and commission each component as applicable.

The installation of extinguishers shall be independent whether the building is equipped with automatic sprinkler or other fixed extinguisher means.

Additional extinguishers shall be permitted to be installed to provide more protection.

Fire extinguishers shall be conspicuously located where they are readily accessible and immediately available in the event of fire.

Fire extinguishers shall be installed in locations where they are visible.

Sign or other means used to indicate fire extinguisher shall be visible from the normal path of travel.

Portable fire extinguisher other than wheeled extinguishers shall be installed using any of the following means.

- A. Securely on a hanger intended for the extinguisher
- B. In a bracket incorporating releasing straps or bands supplied by the extinguisher manufacturer.
- C. In a listed bracket incorporating releasing straps or bands approved for such purpose
- D. In approved cabinet or wall recesses.
- E. Hangers and brackets shall not be fabricated in the field.

Installation Height.

- F. Fire extinguishers having a gross weight not exceeding 40 lb (18.14 kg) shall be installed so that the top of the fire extinguisher is not more than 5 ft (1.53 m) above the floor.