



UNHCR

United Nations High Commissioner for Refugees
Haut Commissariat des Nations Unies pour les réfugiés

ANNEX A

Technical Specification and General Requirements

1. List of Goods types, sizes and Estimated Annual quantities:

| SN | Type | Size | Estimated Annual Supply Qty | Estimated Annual Maintenance Qty |
|----|------------------|---------|-----------------------------|----------------------------------|
| 1 | Powder | 1 KG | 36 | 36 |
| 2 | Powder | 2 KG | 89 | 89 |
| 3 | Powder | 4.5 KG | 10 | 10 |
| 4 | Powder | 6 KG | 5247 | 247 |
| 5 | Powder | 25 KG | 9 | 9 |
| 6 | Powder | 30 KG | 1 | 1 |
| 7 | Powder | 50 KG | 10 | 10 |
| 8 | Powder Automatic | 6 KG | 23 | 23 |
| 9 | CO2 | 2.5 KG | 30 | 30 |
| 10 | CO2 | 3 KG | 4 | 4 |
| 11 | CO2 | 4 KG | 1 | 1 |
| 12 | CO2 | 5 KG | 38 | 38 |
| 13 | CO2 | 6 KG | 82 | 82 |
| 14 | Water | 6 Ltr | 3 | 3 |
| 15 | FOAM | 9 Lts | 10 | 10 |
| 16 | FOAM | 10 Lts | 4 | 4 |
| 17 | FOAM | 12 Lts | 7 | 7 |
| 15 | FOAM | 25 Lts | 1 | 1 |
| 16 | FOAM | 30 Lts | 22 | 22 |
| 17 | FOAM | 50 Lts | 4 | 4 |
| 18 | Fire Blankets | 1 x 1 m | 10,000 | |

2. Goods Specifications:

2.1 Fire extinguisher 6kg capacity

- Multipurpose Dry Chemical Fire Extinguisher of 6 Kg Capacity.
- Fire Rating 34A-183B.
- Extinguishing Agent ABC 40% Dry Powder.
- Maximum Operating Pressure 18.5 Bar at 60 Deg. C, Test Pressure 30 Bar, Discharge Range 6 to 8 m, Duration of Discharge, 18 to 20 Seconds.
- Approximate Dimensions 520 mm Height X 150 mm Diameter.
- Brass nickel-plated head valve with simple squeeze operation, Steel Cylinder with High quality polyester paint and full vision pressure gauge.
- Fire extinguishers shall be provided with Labels that include all necessary details & information.

- Fire Extinguishers shall be certified to BS EN3, or NFPA, or TUV.
- Fire Extinguishers production date shall be **engraved** on cylinders.
- Delivery date shall be within 1 year of engraved production date.

2.2 Fire Blanket:

- Fire blankets shall be composed of two layers of woven fiberglass fabric and an inner layer of fire-retardant film.
- Fire blankets shall be Certified EN-1869 : 1997 standard for cooking fire suppression

Dimensions of 1mx1m

3. General Maintenance Procedures

- Powder extinguishers are discharged into special draining, dehumidifying and refilling machine where the dampness is exhausted off of them.
- The valves of the extinguishers are cleaned and lubricated, checked for deficiencies, the rubber o-rings are changed at the intersections, the horns are tested to be clear of obstructions, and the hoses inspected for any cuts, cracks, or particles stuffing objecting the clear flow of the extinguishing agent. The parts of the extinguishers are then re-assembled.
- If required, the extinguishers are given a new coat of paint, new labels are affixed on the extinguishers and the extinguishers are marked with a new expiry date.
- All carbon dioxide type fire extinguishers shall undergo a hydrostatic pressure test, to assure that the cylinders are capable to hold the high pressure gas up to 240 bar. This procedure shall be performed once every 5 years period.
- Same for all wheeled type powder extinguishers shall undergo a hydrostatic test.
- CO2 cylinders are maintained by weighing/calibrating them onsite. The cylinders should be refilled if the contents are lessened by 20%.
- Companies must confirm that the type of powder used is 90% Mono-Ammonium phosphate concentration UL-Listed certified TUV fire extinguishing agent.

3.1 Maintenance procedure for Dry Chemical Powder portable fire Extinguisher:

- Take out the CO2 cartridge from extinguisher and ensure intactness of sealing disc.
- Weigh the carbon dioxide cartridge and compare its weight with that stamped on its body.
- If the weight loss of 10% or more is observed, replace it with a fully charged cartridge.
- Check the extinguisher knob for its proper functioning.
- Remove the inner shell and clean port holes of cap.
- Check that the port holes in the cartridge holder are clean.
- Check the powder inside the extinguisher is dry and free from moisture.
- Change the powder if moisture is observed.
- Before re-charging the powder, ensure that the extinguisher is dry.
- Check the condition of the discharge hose. If cuts or scratches are seen, replace the discharge hose immediately.

3.2 Maintenance procedure for mechanical foam portable fire extinguisher:

- Take out the CO2 cartridge from extinguisher and ensure intactness of sealing disc.

- Make up the foam liquid level in extinguisher up to the mark, if it is reduced.
- Weigh the carbon dioxide cartridge and compare its weight with that stamped on its body.
- If the weight loss of 10% or more is observed, replace it with a fully charged cartridge.
- Check the extinguisher knob for its proper functioning.
- Remove the inner shell and clean port holes.
- Check that the port holes in the cartridge holder are clean.
- Check the condition of the discharge hose. If cuts or scratches are seen, replace the discharge hose immediately.

4. Warranty Terms:

Offer should include one year of warranty service starting from delivery date covering any manufacturing defects. Provided warranty should cover the cost of any defective spare part including labor charges.