

Tender for Supply of Foam Firefighting Systems for Dangerous Cargo Yard (T/AICT/HSE/01/2025)

Tender Technical Specification

July 2025

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1. GUIDELINE OF TENDER TECHNICAL SPECIFICATIONS

1.1 PREAMBLE

Alexandria International Container Terminal (AICT) operates terminals at Egypt's main commercial ports – Alexandria & Dekheila ports. Located on the Mediterranean Sea, the terminal facilitates both local and international trade activities in the region as the country expands its industrial base. AICT is a member of Hutchison Ports.

1.2 PURPOSE OF A TENDER SPECIFICATIONS

Alexandria International Container Terminals (AICT) is seeking for a highly qualified firefighting system supplier to be responsible for only supplying appropriate needs for DG yard according to CPD requirements in both terminals at Alexandria & Dekheila.

1.3 DEFINITIONS

Company / Purchaser / Owner	: AICT
DKH	: Dekheila Terminal – B98
ALX	: Alexandria Terminal – B71-81
SOW	: Contractor Scope of Work
EMT	: Electrical Metal Tube
FAP	: Fire Alarm Panel
FE	: Fire Extinguisher
FMDS	: Factory Mutual Data Sheet
NFPA	: National Fire Protection Association
FS	: Fire Search

1.4 Language

All documents relating to the bid shall be in English language only.

1.5 VALIDITY of OFFER

Tenders shall keep their offer valid for a period of 90 days from the date of opening technical bid.

1.6 PRE-QUALIFICATION CRITERIA

Shall be based on meeting, the following criteria as mentioned hereunder, bidders must enclose the documentary evidence in support of qualifying requirement as follows along with the part describing qualifications.

Alexandria International Container Terminals (AICT) is looking for contractor to carry out the following (SOW):

- 1) The required items products must comply with relevant international standards such as National Fire Protection Association (NFPA) and/or Underwriters Laboratories (UL) and be suitable for use in marine terminal and industrial environments.
- 2) The supplier shall submit technical data sheets, safety data sheets (SDS), and certificates of conformity for all requested products.
- 3) The supplier must provide a comprehensive technical proposal, including the quantities, packaging, shelf life, and storage requirements of the foam products.
- 4) Upon technical offer approval by AICT, the supplier will be responsible for the transportation and Supply of the Required items both terminals (ALX & DKH).

1.7 Instructions and Condition of Tenders / Bidders

1.1 General condition

All Suppliers are advised to read these instructions carefully prior preparing their tender documents:

- a) These instructions are mandatory conditions of tendering evaluation and any tender which does not follow these instructions will be considered incomplete and shall be disqualified.
- b) The tender shall enclose in sealed envelope addressed, endorsed, and deposited as required by the letter of invitation.

1.2 Contractor Obligation and Responsibilities

- a) Commitment to provide trained and qualified staff to provide the required service (if needed).
- b) Commitment to provide all software or programs for required service (if needed).
- c) The supplier shall be complied with followings:
 - a. Free zone procedures and regulations
 - b. APA regulations
 - c. Environmental regulations inside harbors and container terminals
- d) The supplier must deliver all necessary datasheet and standard demonstrate his job and tasks under his agreement.

1.8 SUBMITTALS

1.8.1 Quality Assurance Submittals

The following submittals are mandatory for evaluation of Supplier, to be included in the technical offer.

- a) Technical data sheets for all supplied products in the scope of this tender.
- b) All supporting documents & certifications for the products.

2. GENERAL TECHNICAL SPECIFICATION

2.1. WORK SITES

The work sites are in two different locations in ALX and DKH terminals.

The scope of Supply to include in both sites:

Foam AFFF AR UL Listed/FM approved.

QTY: 4 for DKH Terminal – 4 For ALX Terminal

- AFFF AR 3% should be used at 3% proportioning (3-part concentrate and 97 parts of water).
- May be used with all water types.
- AFFF AR 3% can be stored as premix when blended with fresh water.



Mobile Foam Unit Stainless Steel UL Listed/FM approved.

QTY: 4 for DKH Terminal – 4 For ALX Terminal

- **Material:** Stainless Steel construction for durability and corrosion resistance.
- **Certification:** UL (Underwriters Laboratories) Listed and FM (Factory Mutual) Approved.
- **Foam Capacity:** 140 Liter.
- **Mobile Design:** Equipped with wheels or a trailer for easy transport to emergency sites.
- **Flow Rate:** High flow rate for rapid foam distribution during fires.
- **Pump Type:** Typically includes a reliable, high-performance pump for foam mixing and discharge.
- **Compatibility:** Compatible with various foam concentrates (Class A, Class B).
- **Control System:** Integrated control systems for ease of operation during emergencies.
- **Safety Features:** Built-in safety mechanisms for pressure relief and overheat protection.
- **Size and Dimensions:** Various sizes to suit different operational requirements.



Foam Monitor UL Listed/FM approved.

QTY: 1 for DKH Terminal – 1 For ALX Terminal

- **Certification:** UL Listed and FM Approved for fire safety standards.
- **Connector:** Supplied with a male 2.5" connector for easy attachment to fire hose reel outlets.
- **Nozzle Design:** Features a nozzle that allows for both straight stream and spray/fog patterns for versatile firefighting.
- **Discharge Control:** The nozzle shapes the discharge jet for efficient fire suppression.
- **Material:** Durable construction designed to withstand high-pressure operations.
- **Flow Rate:** High flow capacity to handle large volumes of foam or water for firefighting.
- **Adjustable Pattern:** Ability to switch between straight stream and fog patterns for different fire scenarios.
- **Rotation:** Typically features horizontal and vertical rotation for precise control and coverage.
- **Corrosion Resistance:** Designed to resist corrosion from foam concentrates and water.
- **Mounting:** Can be mounted on a stationary base or mobile platform for flexible deployment.

- **Operational Range:** Effective at long-range discharge, ideal for large-scale.



Foam Mixer UL Listed/FM approved.

QTY: 1 for DKH Terminal – 1 For ALX Terminal

- **Material:** Constructed from durable stainless steel for corrosion resistance and long-lasting performance.
- **Certification:** UL Listed and FM Approved for safety and reliability.
- **Compatibility:** Suitable for use with all foam concentrates (Class A and Class B).
- **Proportioning Adjustment:** Field-adjustable proportioning settings at 3% and 6% for precise foam mixture control.
- **Design:** Compact and efficient design for easy installation and maintenance.
- **Flow Rate:** Capable of handling high flow rates to ensure optimal foam distribution during firefighting operations.
- **Durability:** Built to withstand harsh environments and pressure fluctuations.
- **Maintenance:** Easy to clean and maintain for continued reliable performance in emergency situations.



Portable Fire Pump

QTY: 1 for DKH Terminal – 1 For ALX Terminal

- Pump Type: High-performance self-priming centrifugal pump for efficient water flow.
- Material: Aluminum pump body, resistant to seawater for enhanced durability in harsh environments.
- Control Panel: User-friendly control panel, easily operable even with gloves for convenience in emergency situations.
- Versatile Applications: Suitable for various fields, including firefighting, flooding, water transfer, and column tests.
- Manufacture: Made in Europe, ensuring high-quality engineering and performance standards.



3. Technical Evaluation Criteria:

Foam AFFF AR 3% Barrel 200 Liter each

Criteria	Weight (%)	Notes
Compliance with required spec (AR 3%)	40%	Must meet international firefighting foam standards
Shelf Life & Storage Requirements	20%	Minimum 5 years shelf life preferred
Certification & Test Reports	20%	UL, EN, or equivalent certifications
Delivery Time & Packaging	10%	Must be delivered in sealed 200L barrels
MSDS & Manufacturer's Warranty	10%	Must include full safety documentation

Stainless Steel Mobile Foam Unit 140 Liter each

Criteria	Weight (%)	Notes
Material & Build Quality (SS)	30%	Stainless steel 304/316 grade
Foam Tank Capacity & Pressure Rating	20%	140L tank, must meet pressure standards
Mobility & Ease of Use	15%	Includes wheels, handles, nozzle control
Accessories Included (hose/nozzle)	15%	List of accessories must be provided
Certification & Warranty	10%	CE, NFPA compliance
Delivery Lead Time	10%	Prefer delivery within 4–6 weeks

Foam Monitor

Criteria	Weight (%)	Notes
Flow Rate & Range	30%	Should meet spec (e.g., 1000 LPM, 30m reach)

Material & Corrosion Resistance	20%	Anti-corrosive material (bronze, SS)
Horizontal & Vertical Movement	15%	Full range for effective foam application
Compatibility with foam system	15%	Must match existing infrastructure
Warranty & Certifications	10%	Prefer NFPA or UL-listed
Delivery Time	10%	Within agreed schedule

Foam Mixer

Criteria	Weight (%)	Notes
Mixing Accuracy	30%	Should maintain consistent 3% foam ratio
Material & Durability	20%	Must withstand chemical exposure
Installation Flexibility	15%	Inline or portable mounting options
Certification & Compliance	15%	CE/UL/ISO preferred
Warranty & Support	10%	Local support & parts availability
Lead Time	10%	Delivery within 30 days

Portable Fire Pump

Criteria	Weight (%)	Notes
Flow Rate & Pressure Output	30%	Minimum flow rate to match foam application
Engine Type & Fuel Efficiency	20%	Diesel or petrol; low consumption preferred
Portability & Weight	15%	Suitable for quick deployment
Certification & Build Quality	15%	NFPA/EN compliance, corrosion-resistant

After-Sales Service & Warranty	10%	1-year minimum warranty
Delivery Lead Time	10%	Within agreed timeline

BOQ

Item	DKH	ALX
Foam AFFF AR 3% Barrel 200 Liter each	4	4
Stainless Steel Mobile Foam Unit 140 Liter each	4	4
Foam Monitor	1	1
Foam Mixer	1	1
Portable Fire Pump	1	1

4. Preparation of Bid

4.1 Documents Comprising the Bid

Each bid shall be in two sealed envelopes:

- a) Part I- Technical Proposal.
- b) Part II- Price Proposal.

The two parts should be in two separate covers, each super-scribed with the name of the Project as well as “Technical Proposal” and “Price Proposal” as the case may be.

4.2. Pricing:

- a) Company Financial Documents.
- b) All prices should be itemized and item price to include all related cost.
- c) AICT operates under free zone laws. Prices to be in CIF terms.
- d) Prices must remain fixed and valid for a period of three (4) months from the date of offer submission.
- e) Prices must be fill in pricing form attached.

4.3. Payment Terms:

- a) Payment will be 30% as an advance payment against LG (with the same offer currency) , 70% after delivery and final acceptance.
- b) A retention of 5% of the total order will be held for a period of one year to cover the warranty period.
- c) Offers quoted in USD or Euro will be paid in EGP according to the Central Bank of Egypt exchange rate at the time of payment.

4.4. Delivery Terms:

- a) Delivery terms shall be CIF (Cost, Insurance, Freight) excluding VAT and customs duties.

4.5. Delivery Schedule:

- a) Suppliers must specify their delivery timeline clearly within their proposal.