

January 26, 2026
Ref.: 333847**Request for Information - RFI - No. PD25001484**

Dear Sir / Madam,

Re: **Public Tender- RFI No. PD25001484**

Petroleum and Energy Infrastructures Ltd. ("PEI") hereby invites manufactures with relevant experience and expertise ("Participants"), to provide a detailed response to this Request For Information ("RFI") in connection with the provision of Design and Procurement of **HAZMAT & FIRE TRAINING SIMULATOR** – "Procurement").

Participants in this RFI are kindly requested to provide the following at ESHEL Terminal site in Israel (the information:

Manufacturing capabilities of **HAZMAT & FIRE TRAINING SIMULATOR** - accordance to the technical specification described.

Manufacturer **HAZMAT & FIRE TRAINING SIMULATOR** - rigid strut Pump dimensions

List of **HAZMAT & FIRE TRAINING SIMULATOR**_– rigid strut as described, supplied in the last 2 years in accordance with standard.

SPECIFICATION:**HAZMAT & FIRE TRAINING SIMULATOR****(20-Foot Platform-Based Training System)**

1. INTRODUCTION / INVITATION TO RFI

The purpose of this specification is to solicit bids for the supply, delivery, and full operational commissioning of a **Hazmat & Fire Training Simulator** built on a **20-foot platform**. The simulator shall support comprehensive HAZMAT, firefighting, and incident-response training and must meet all technical and safety requirements described herein.

Suppliers must provide complete systems, all associated hardware, user documentation, and training for operation and basic maintenance.



2. SCOPE OF SUPPLY

The successful bidder shall supply a fully integrated Hazmat & Fire Training Simulator, including:

- 20-foot platform-mounted training unit
- Simulation tank and technical control room
- All listed fire, leak, and hazard simulators
- Wireless control system
- Gas detection and safety systems
- Water and smoke delivery systems
- Required electrical, gas, and water connections
- Documentation and operational training
- One 20-liter drum of approved smoke liquid (with MSDS)

Gas bottles are **not** in the scope of this bid.

3. TRAINING APPLICATION REQUIREMENTS

The simulator shall support training for:

- Hazmat PPE training
- Hazmat approach
- Hazmat damage control
- Spill fire response
- Pipe leakage response
- Flange fire response
- Tank leakage
- Pressure relief valve scenarios
- Tactical, attack, procedural training
- Gas detection training
- SCBA training
- PPE training
- Cooling techniques
- Incident management

4. SYSTEM DESIGN REQUIREMENTS

4.1 Platform & Structure

- Entire simulator must fit within a 20-foot container envelope and be transportable via hook-lift system.



- Structure includes:
 - Steel simulation tank
 - Black high-temperature resistant exterior finish (2K finish)
 - Optional color and logo (additional cost)
 - Technical room divided into:
 - Gas Storage Room
 - Technical Control Room
 - Access ladders, railings, and platforms made of galvanized steel
 - Non-slip galvanized platforms inside and outside the tank

4.2 Simulation Tank

- Steel construction with hinged access door
- Painted with high-temperature resistant black paint
- Internal technical space with non-slip galvanized platform

4.3 Technical Rooms

- **Technical Room 1:** Gas storage room for:
 - Gas console
 - Space for two (2) LPG vapor-phase bottles (35 kg max., $\varnothing \leq 35$ cm)
- **Technical Room 2:** Control room housing:
 - Control cabinet with touch-screen HMI
 - Water console
 - Smoke generator
 - Electrical and monitoring systems

5. SAFETY SYSTEM REQUIREMENTS

5.1 Gas Detection System

Mandatory multi-sensor gas detection covering:

- Gas storage room
- Main technical area
- Training area

Actions based on LEL thresholds:

- **>10% LEL:** Fire to low level, max ventilation, audible/visible warning
- **>20% LEL:** Automatic emergency shutdown
- **>35% LEL:** All gas valves closed, gas appliances off, smoke off, all switching voltages off, ventilation off, audible/visual alarm

5.2 Temperature Monitoring System



Four sensors at multiple heights:

Sensor	Location	Max Temp	Emergency Stop
1	Lowest point	60°C (adjustable)	No
2	Mid-level	200°C	Yes
3	Mid-level	200°C	Yes
4	Highest point	500°C	No

System must automatically increase cooling ventilation before emergency stop activation.

5.3 Emergency Stop System

- Two (2) physical emergency stop buttons on the unit
- One (1) emergency stop on wireless controller
- Triggering must:
 - Stop all fires
 - Stop smoke production
 - Stop water leakages
 - Close main gas valves
 - Activate audible/visual alarm

5.4 Audible/Visual Alarm

- Green: normal operation
- Flashing orange + siren: emergency stop or unburnt gas detection (>20% LEL)

5.5 Overpressure Ventilation

- Automatic ventilation in technical room during operation

6. UTILITY CONNECTIONS

- **Electrical:** 400VAC / 32A / 50Hz (CEE connection)
- **Water:** 3/4" connection, 50 L/min at 3 bars
- **Integrated water tank:** Must allow independent training

All water lines must be insulated and automatically drained at shutdown.

7. CONTROL SYSTEM REQUIREMENTS



7.1 Control Cabinet

Must include:

- Main switch
- Start/Stop system controls
- Pilot flame control
- Water pump control (if equipped)
- Emergency stop
- Status indicators
- Touch-screen HMI with access to simulator functions

7.2 Wireless Remote Control

- Two-way radio linked fail-safe connection
- 8-hour continuous runtime per charge
- LED battery indicator
- Charger and mounting bracket included
- Controls:
 - All fire simulators
 - All smoke/leak simulators
 - Emergency stop

8. SIMULATORS & FUNCTIONAL REQUIREMENTS

The system shall include the following core simulators, controllable via the wireless remote system:

8.1 Simulator List (10 total)

1. Flange fire & liquid leakage
2. Spill fire
3. Pressure relief valve fire
4. Tank rupture liquid leakage
5. Tank rupture vapor leakage
6. Tank dome liquid leakage
7. Tank dome vapor leakage
8. Pipe liquid leakage



- 9. Flange liquid leakage
- 10. Flange/gate valve vapor leakage

All materials must be high-temperature-resistant steel or stainless steel as specified.

A detailed description for each simulator -as in Annex A, must be provided in full by the bidder.

Description	Control by the remote	Other way to stop the fire / leakage
Simulator 1 - Flange fire & liquid leakage	Start/Stop of the fire	Yes, by closing the gate valve
Simulator 2 - Spill fire	Low/Medium/High/Stop of the fire	No
Simulator 3 - Pressure relief valve fire	Low/Medium/High/Stop of the fire	No
Simulator 4 – Tank rupture liquid leakage	Start/Stop of the leakage	No
Simulator 5 - Tank rupture vapor leakage	Start/Stop of the smoke	No
Simulator 6 - Tank dome liquid leakage	Start/Stop of the leakage	Yes, by closing the dome valve
Simulator 7 - Tank dome vapor leakage	Start/Stop of the smoke	Yes, by closing the dome valve
Simulator 8 - Pipe liquid leakage	Yes	No
Simulator 9 - Flange liquid leakage	Start/Stop of the leakage	Yes, by closing the gate valve
Simulator 10 – Flange / gate valve vapor leakage	Start/Stop of the leakage	Yes, by closing the gate valve
Smoke generator	Start/Stop of the smoke	No

8.2 Smoke System

- High-capacity smoke generator with density, duration, and heating controls
- 20-liter smoke liquid supply (with MSDS)

8.3 Colored Fluid System



- Four colors (red, yellow, blue, green)
- Food-grade safe dyes
- Manual selection from technical room

8.4 Liquid Leakage Pressure Control

- Manual selection between:
 - Low pressure / low flow
 - High pressure / high flow

8.5 Hazmat Placard System

- Magnetic UN number plates
- NFPA 704 diamond
- Must be interchangeable for scenario variability

8.6 Explosion Training / Gas Detection Trainer

- Portable multi-gas detector simulator (O₂, H₂S, CO, LEL)
- Adjustable alarm levels and intensity
- Must simulate gas cloud detection for realistic scenarios

9. DOCUMENTATION REQUIREMENTS

The supplier must provide the following in **English**:

- Technical manual (operation + minor maintenance)
- As-built drawings
- Smoke liquid MSDS
- Control system documentation
- Simulator configuration documentation

Spare parts list

Warranty and extended warranty

Technical support, supplier/m manufacturer participation in installment and testing of unit

Lead time

General Terms and Conditions

Price



1. Any questions and/or inquiries shall be addressed in writing to Eran Rheinisch by E-mail: purchasebid@pei.co.il, no later than **February 11th, 2026**.

Responses to the RFI shall be submitted, in writing, in English or Hebrew, to the following E-mail address tender1484-25@pei.co.il, **no later than February 25th 2026**.

Upon receiving a response, PEI will initiate a review and may contact the Participants to follow up with additional questions and clarifications, in writing or otherwise, may ask for site visits to facilities erected or operated by the Participant, or carry out professional inquiries regarding any Participant, including by way of contacting third parties. In addition, PEI may hold RFI sessions, either by videoconferencing or meetings which will be held in Israel, whether with all Participants or only with those deemed relevant at PEI's sole discretion. As part of such RFI sessions, the Participants will have the opportunity to present their detailed responses.

This RFI is a preliminary process initiated by PEI's tender committee, solely for the purpose of receiving information and its internal evaluation and consideration, and does not constitute a tender, a bid solicitation, a proposal or a request for proposals in any manner whatsoever. The issuance of this RFI is not intended to guarantee the initiation, execution or the implementation of the Procurement, its scope, its components or any part thereof.

Participation in this RFI shall not provide a Participant with any advantage, or confer upon a Participant any right with respect to the Procurement or any future proceedings which will be conducted with respect thereto, if and to the extent conducted (including the pre-qualification process or the tender process), or be a pre-requisite for participating in such future proceeding. Participating in the RFI shall not constitute or be interpreted as constituting a recognition of a Participant's or any other entity's eligibility, qualification or competence to participate in any such future proceedings, if conducted.

PEI reserves the right not to proceed with this RFI, and may terminate or cancel this RFI or any other proceedings which are conducted with respect thereto, at any time as it shall deemed appropriate and Participants shall have no right of claim against PEI and anyone on its behalf in respect thereof.



Without derogating from the generality of the above, PEI may publish a new Request for Information and/or an invitation to pre-qualify or other proceedings with respect to the Procurement or any part thereof, publish a different Procurement, inviting or not the Participants to take part in such process, or execute the Procurement in any other way deemed appropriate, all subject to and in accordance with applicable law.

PEI may use any information it receives from a Participant or any third party for any purpose it deems fit at its sole discretion, including forming specifications or any other documents, and may transfer any such information to any of its consultants or any person on its behalf. Without derogating from the foregoing or from the discretion granted to PEI, Participants may mark, in a clear, complete and legible manner, information contained in the response which is considered commercially sensitive or of a secret nature, and PEI will, to the extent allowed by law, refrain from disclosing such information. Please note that PEI is not requesting a proposal, detailed plans, marketing material, budgetary information or proprietary information in response to this RFI.

The Participants shall not be entitled to any payment for the information provided by them in this process. All expenses incurred by a Participant or anyone on its behalf shall be borne solely by the Participant.

This RFI is subject to the Israeli law including the Mandatory Tenders Law 5752-1992, Mandatory Tenders Regulations 5753-1993, and the obligation to disclose information in accordance with the provisions of Section 14A thereof. The courts of Jerusalem, Israel shall have exclusive jurisdiction in any and all disputes arising out of or relating to this RFI.

Sincerely,

Procurement & Engagements Department

