

ITB GZA-25-01-001 - Framework agreement for water trucking services

Technical Specifications

1. INTRODUCTION

Project HOPE seeks to ensure the provision of safe drinking water at all target clinic sites through emergency water trucking services. In alignment with the Drinking Water standards of Palestine water authority "PWA" and World health organization "WHO", Project HOPE invites qualified private companies to submit quotations for the supply and delivery of drinking water to Middle Area and Khan Younis. This Request for Quotation aims to establish **a framework contract with capable suppliers** who can support water delivery operations during the ongoing emergency period in Gaza strip.

2. SERVICE PROVISION DESCRIPTION

2.1 Water Quality: Suppliers must adhere to the Drinking Water standard of Palestine water authority "PWA" and World health organization "WHO", ensuring that the delivered drinking water is safe for consumption, meeting or exceeding established quality standards.

Key highlighted standard for safe Drinking Water:

TDS: Not more than 250 ppm.

Turbidity: 0 NTU

Free residual chlorine: 0.2-0.5 PPM

Absence total and fecal coliform.

2.2 Water Truck Fleet: Suppliers are required to maintain a fleet of well-maintained water trucks, with each truck equipped with a storage tank of at least 10 cubic meters capacity. The trucks must meet the following specifications to ensure the safety, security, health, and hygiene of the water during transportation and distribution:

- **Tank Material:** The storage tanks must be constructed from food-grade materials, such as **stainless steel** or **high-density polyethylene (HDPE)**, which are resistant to corrosion and do not leach harmful chemicals into the water.
- **Tank Sealing:** The tanks must be securely sealed and equipped with proper vents to prevent contamination during transportation. All entry points must be lockable to prevent unauthorized access and ensure water security.
- **Pump System:** Each truck must be equipped with a **mobile gasoline engine water pump (7.5 HP)**, including all necessary piping and fittings to facilitate the lifting of water to roof storage tanks at heights up to 23 meters.
- **Cleaning and Maintenance:** Trucks must have a regular cleaning and maintenance schedule to ensure the tanks remain free of algae, dirt, and other contaminants. Detailed logs of cleaning and maintenance should be kept and made available upon request.
- **Hygienic Filling and Distribution:** The tanks must be equipped with hygienic filling systems to prevent contamination during the loading and unloading

of water. Distribution taps must be designed for easy cleaning and disinfecting, and the system should allow for water to be dispensed without direct human contact.

- **Safety Standards:** Trucks must comply with all relevant safety standards, including the installation of fire extinguishers, first aid kits, and reflective signage. Drivers should be trained in emergency response and equipped to handle road safety concerns during delivery.
- **Health and Safety Compliance:** The design of the trucks must ensure no risk of water contamination during transportation. This includes secure piping systems, anti-spill mechanisms, and water quality monitoring equipment on board to ensure the continuous safety of drinking water.
- **Distribution Points:** Each truck must be equipped with at least **12 taps** (6 on each side) for water distribution, ensuring that water can be quickly and efficiently dispensed. These taps must be designed for easy use, frequent sanitization, and must prevent backflow contamination.

This revision ensures the trucks meet stringent requirements for safety, security, hygiene, and health during water transportation and distribution.

2.3 **Coordination:** Effective communication and coordination with Project Hope staff are paramount. This includes scheduling and filling of the water trucks to maintain a seamless supply chain.

2.4 **Delivery Capacity:** Suppliers should possess the capacity to promptly deliver safe drinking water to multiple locations within the Middle Area as required, ensuring a reliable and consistent supply.

Proposed target sites:

Governorate	Site Name	GPS Coordinates
Middle Area - Deir el-Balah, and others areas.	Al Tawba Makeshift shelter	31.4189460, 34.3409030
	Al Athar Makeshift shelter	31.4156410, 34.3276370
	Others clinics sites, TBD	N/A
Khan Younis, AL Mawasi, east of Khan Younis and others area	Abo Ismail Akkad Clinic	31.289445, 34.247707
	Others clinics sites, TBD	N/A
Rafah	TBD	N/A
Gaza	TBD	N/A
North of Gaza	TBD	N/A

2.5 **Frequency of Service:** Water trucking services will be required **twice per week** at each clinics site for a period of **48 weeks (One year)**. Suppliers must ensure timely water delivery according to the agreed schedule and meet the specific needs of the community

2.6 **Type of distributions:** Two types of water distribution modalities will be used: first, direct distribution from the water tankers, and second, pumping

water to fill roof storage tanks with a maximum height of 23 meters. In both cases, the equipment must comply with the specified distribution points to ensure efficient service while meeting the required standards.

- 2.7 **Contingency Planning:** Suppliers must have contingency plans in place to address any potential disruptions in the supply chain, ensuring uninterrupted service provision.
- 2.8 **Water Sample Testing:** Regular water sample testing and quality checks should be conducted by authored third party laboratory water test to verify the safety and compliance of the delivered drinking water with established standards. The

Cost of water sample testing will be covered by the supplier.

Water sampling locations: Source of water, Truck tanker, House hold

Types of test:

Chemical test: (Total dissolved solid, PH and residual free chlorine)

Biological test (Fecal and total choreiform)

Physical test: At least Turbidity

Frequency of water test: One full test for 3 Samples per each 16 derived trucks

In addition, the Project Hope field staff will conduct the water quality test in daily bases to ensure the water aligned with standards.

Water contamination responsibilities: The supplier is not responsible for water contamination at the household level; however, they bear full responsibility for ensuring that the water meets the standards of the World Health Organization and the Palestinian Water Authority.

3. Bill of quantities

Item Description	Unit	Quantity	Unit Cost (USD)	Total Cost (USD)
Supply and deliver safe drinking water- distribution <u>directly from tankers</u> in <u>Middle area governorate:</u> TDS Not more than 250 ppm. Free residual chlorine: 0.5 ppm. Free total and fecal coliform. Target Area (Middle Area, Deir Al-Balh and others areas) Capacity Tank not less than 10000 liters.	Cubic meter - M ³	1		
Supply and deliver safe drinking water- distribution <u>Pumping to the water tanks</u> in <u>Middle area governorate:</u> TDS Not more than 250 ppm. Free residual chlorine: 0.5 ppm. Free total and fecal coliform. Target Area (Middle Area, Deir Al-Balh and others areas) Capacity Tank not less than 10000 liters.	Cubic meter - M ³	1		
Supply and deliver safe drinking water- distribution <u>directly from tankers</u> In <u>Khan Yonios governorate:</u> TDS Not more than 250 ppm. Free residual chlorine min 0.5 PPM @ end user. Free total and fecal coliform. Target Area (Khan Younis , Al Mawasi and others areas) Capacity Tank not less than 10000 liters.	Cubic meter- (M ³)	1		
Supply and deliver safe drinking water- distribution <u>Pumping to the water tanks</u> In <u>KhanYonios governorate:</u> TDS Not more than 250 ppm. Free residual chlorine min 0.5 PPM @ end user. Free total and fecal coliform. Target Area (Khan Younis , Al Mawasi and others areas) Capacity Tank not less than 10000 liters.	Cubic meter- (M ³)	1		
Supply and deliver safe drinking water- distribution <u>directly from tankers</u> In <u>Rafah governorate:</u> TDS Not more than 250 ppm. Free residual chlorine min 0.5 PPM @ end user. Free total and fecal coliform. Target Area (Rafah , Al Mawasi and others areas) Capacity Tank not less than 10000 liters.	Cubic meter- (M ³)	1		

Item Description	Unit	Quantity	Unit Cost (USD)	Total Cost (USD)
Supply and deliver safe drinking water- distribution <u>Pumping to the water tanks</u> In <u>Rafah</u> <u>governorate:</u> TDS Not more than 250 ppm. Free residual chlorine min 0.5 PPM @ end user. Free total and fecal coliform. Target Area (Rafah , Al Mawasi and others areas) Capacity Tank not less than 10000 liters.	Cubic meter-(M ³)	1		
Supply and deliver safe drinking water- distribution <u>directly from tankers</u> In <u>North of Gaza</u> <u>governorate:</u> TDS Not more than 250 ppm. Free residual chlorine min 0.5 PPM @ end user. Free total and fecal coliform. Target Area (Jabaliya , Beit lahia and others areas) Capacity Tank not less than 10000 liters.	Cubic meter-(M ³)	1		
Supply and deliver safe drinking water- distribution <u>Pumping to the water tanks</u> In <u>North of Gaza</u> <u>governorate::</u> TDS Not more than 250 ppm. Free residual chlorine min 0.5 PPM @ end user. Free total and fecal coliform. Target Area (Jabaliya , Beit lahia and others areas) Capacity Tank not less than 10000 liters.	Cubic meter-(M ³)	1		
Supply and deliver safe drinking water- distribution <u>directly from tankers</u> In <u>Gaza governorate:</u> TDS Not more than 250 ppm. Free residual chlorine min 0.5 PPM @ end user. Free total and fecal coliform. Target Area (Gaza city and others areas) Capacity Tank not less than 10000 liters.	Cubic meter-(M ³)	1		
Supply and deliver safe drinking water- distribution <u>Pumping to the water tanks</u> In <u>Gaza</u> <u>governorate::</u> TDS Not more than 250 ppm. Free residual chlorine min 0.5 PPM @ end user. Free total and fecal coliform. Target Area (Gaza city and others areas) Capacity Tank not less than 10000 liters.	Cubic meter-(M ³)	1		



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Note: The total amount of the water during the framework agreement don't exceed 20,000.00 cubic meter for all targeted locations.

Estimate quantity not exceed 4500 M3 for Gaza Governorate
Estimate quantity not exceed 4500 M3 for North of Governorate
Estimate quantity not exceed 4500 M3 for Middle Area Governorate
Estimate quantity not exceed 4500 M3 for Khan Younis Governorate
Estimate quantity not exceed 2000 M3 for Rafah Governorate