CZECH REPUBLIC
DEVELOPMENT COOPERATION

Identification Form – Tied Financial Donation

Project Title *(short yet clear)*	**Distribution and treatment of potable water including solar power plant for the population of Melihaa/Shebaa, Syrian arab Republic**	***Project Number*** *(assigned by Embassy)*	
Country	**Syrian arab republic**	***Project Location***	**Melihaa/Shebaa**
Beginning of Project (month/year)	**04/2024**	***Termination of Project (month/year)***	**10/2024**

1. Requested Funding from the Czech Republic Official Development Assistance	
In CZK *(according to Czech Embassy Exchange Rate)*	**9 781 380,- Kč**
In Local Currency	***399 240,- EUR***

2. Additional Funding from Other Sources (if applicable)	
In CZK *(according to Czech Embassy Exchange Rate)*	
In Local Currency	

3. Total Project Budget	
In CZK *(according to Czech Embassy Exchange Rate)*	**9 731 380,- Kč**
In Local Currency	***399 240,- EUR***

4. Applicant	
Name of Organization	**Damascus Water Supply and Sewerage Authority** ***(DAWSSA)***
Acting By and Through *(name and position)*	**Muhammad Isam Altabaa, General Director**
Telephone Number	+963-2392210, 2392212
Email Address	*dawssa@dawssa.gov.sy*
Fax Number	
Website	

5. Description of Problem, Suggested Intervention and List of Items

Brief description of the current situation which is to be targeted by the earmarked donation, and list of required items covered by the donation.

AL-Maliha/Shebaa is located on the Southern side of the city of Damascus, 12km away from the city center. The current population of Shebaa is about approximately 50,000 people, with a total area of 1.09 km2. There is a high water tank with a capacity of 300m3 and it is hight 13m but it is not suitable for use due to damage. It has a group of underground wells that feed water, and one of these wells is the Center well No. 1, which consists of 2 wells with a capacity of 15m3/hour for each well.

The water depth level of the right well is about 20m, the depth of the well is about 50m. The depth level of water submersible pump is about 33m and the capacity of the water submersible pump is about 30 horsepower.

The water depth level of the left well is about 20m, the depth of the well is about 100m and the depth level of water submersible pump is about 66m and the capacity for submersible pump is about 25 horsepower in good condition. There is an electric generator but there is no fuel to run. Electricity is provided for 5 hours throughout the day. The site contains fence and guard room

The project will address the treatment and hygienic security of water for water sources supplying the water supply system of the Melihaa location. For a long time, the extracted underground water shows, for example, nitrate content, very high hardness and it needs to be hygienically protected, see attached water analyses.

Technologically, the line should address:

- partial reduction of water hardness, reduction of calcium and magnesium content to medium limits
- removal of nitrates
- hygienic protection of water with sodium hypochlorite
- measuring the amount of supplied water

The project will further address the repair of the destroyed reservoir. Due to the constant power outages in the entire locality, it would be advisable to build a solar power plant for permanent pumping of underground water. The solar power plant must have a high output, due to the input of the pump in the well. It is necessary to ensure a constant supply of electricity for washing the filters located in the water treatment plant. Finally, a 2 km backbone water supply with a total of 8 intake points is designed. A water treatment plant, as well as a solar power plant, possibly could be connected to a medical or educational facilities.

The water treatment plant with a capacity of 10 m3/h will be located in a typical container. The modified one will be hygienically secured by dosing the water hypochlorite solution depending on the immediate flow in the pipe.

6. Project Timeframe

Overview of the expected timeframe and related activities

Beginning of project: 04/2024

Design: 05 - 06/2024

Manufacturing of water treatment plant: 07-09/2024

Transport and custom: 09-10/2024

Construction work, water network, assembly, etc.: 10/2024

7. Budget Proposal in CZK

(Funding from the Czech Official Development Assistancequip Only)

Budget Category	Unit Specification	Unit Number	Unit Price (EURO)	Total Costs (EURO)
Design WTP (Water treatment plant + water network)	complex	1	4 000	4 000
Material + technology WTP	set of supplies	1	135 000	135 000
Assembly WTP	set of works	1	23 000	23 000
Transport + Customs WTP	complex	1	12 000	12 000
Construction work + material (akumulation tank, water network, faucets)	set of works	1	157 240	157 240
Solar power plant + assembly	complex	1	68 000	68 000
Grand Total Requested from the Czech Republic Official Development Assistance				399 240,- EUR

8. Final Clauses

Done in (city)	Damascus
Date	
Submitted by (name and position)	**Muhammad Isam Altabaa, General Director**
Telephone	+963-2392210, 2392212
Email	dawssa@dawssa.gov.sy
Signature and Stamp	