CZECH REPUBLIC
DEVELOPMENT COOPERATION

Identification Form – Tied Financial Donation

Project Title *(short yet clear)*	***Water treatment plant and potable water distribution,location Douma, Syrian arab republic***	***Project Number*** *(assigned by Embassy)*	
Country	**Syrian arab republic**	***Project Location***	**Douma**
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)*	**8 592 469,- Kč**
In Local Currency	***350 713,- 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)*	**8 592 469,- Kč**
In Local Currency	***350 713,- 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.

Douma is located on the eastern side of the city of Damascus, 18.2km away from the city center. The current population of Douma is about approximately 400,000 people, with a total area of 10km2. It has a group of underground wells that feed water, and one of these wells is the Al-Wahda project, Which consists of two wells close together with a capacity of 15m3/hour each and the well depth is about 100m. Water depth level is about 30m. Water submersible pump depth is about 90m. There is a high water tank with a capacity of 200m3 and 25m hight, but the water contains Clorhine. So the high water tank cannot be used.

The site contains fences and guard room. There is an electrical line exempt from regulation, meaning that electrical power is permanently secured These two wells are close together so that the submersible pump of one can be used if the other fails. Water supply network shouldn't be less than 5 km to secure the needs of city.

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. Hardness (calcium and magnesium salts) and other impurities are removed using a filter material - an ion exchange resin (so-called ionex, katex), which changes the positive cations of compounds in the water, for example Ca2+, Mg2+, etc., into sodium ions Na+. Nitrates are removed from the water using an ion exchange resin, which changes nitrate ions (NO3-) to chloride ions (Cl-). During device regeneration, nitrates are removed from the filter material and flushed into the waste. At the same time, the filtration capabilities of the material are regenerated using the salt solution.

As part of the project, a branch water supply network will be implemented, which will supply the area with hygienically safe drinking water 9 dispensing points will be distributed by direct connection between the submirsible pump and our new station through new network pipe line which is estimated at about 2,500 .m. Depending on the location of the water treatment plant, it is possible to connect a school or medical facility to hygienic potable water.

6. Project Timeframe

Overview of the expected timeframe and related activities

Beginning of project: 04/2024

Design: 05/2024

Manufacturing of water treatment plant (Czech republic): 06-08/2024

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 (water network, faucets)	set of works	1	176 713	176 713
Grand Total Requested from the Czech Republic Official Development Assistance				350 713,- 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	