PROJECT DOCUMENT

<table>
<thead>
<tr>
<th>Submitting Agency:</th>
<th>United Nations Development Programme/Programme of Assistance to the Palestinian People (UNDP/PAPP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Title:</td>
<td>Emergency Water Supply &amp; Rehabilitation Programme</td>
</tr>
<tr>
<td>Sector:</td>
<td>Infrastructure/Job creation/Water</td>
</tr>
<tr>
<td>Themes:</td>
<td>Water</td>
</tr>
<tr>
<td>Objective:</td>
<td>To provide and improve water supply services (in terms of quantity and quality) to the residents of Rafah and Northern Governorates in the Gaza Strip.</td>
</tr>
<tr>
<td>Targeted Beneficiaries:</td>
<td>A total of 140,000 Palestinian Residents of Rafah District, and 100,000 residents of Beit Hanoun, Jabalia camp, Um Nasser in the Gaza Northern Governorate</td>
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<tr>
<td>Implementing Partner:</td>
<td>Direct Execution</td>
</tr>
<tr>
<td>Project Duration:</td>
<td>12 Months</td>
</tr>
<tr>
<td>Funds Requested:</td>
<td>USD 5,424,106</td>
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Introduction

During the last years, the residents of Rafah governorate have suffered dramatically and were among the hardest hit communities of the Gaza Strip, especially during the frequent military incursions that resulted in the destruction of many of the infrastructures facilities including water and wastewater. The current drinking water supply in Rafah Governorate is below the consumer’s demand. Moreover, the quality of supplied water is below the acceptable international WHO standards that apply for drinking water. Access to drinking water in Rafah is constrained due to technical, environmental and institutional limitations. According to Palestinian Water Authority (PWA) statistics, about 25% of the people in Rafah have no access to tap water, and all localities in the governorate suffer from water shortage especially in summer as a result of the inadequate number of water wells that are currently serving the governorate. In addition, residents of the rural areas adjacent to Rafah rely on water sources that are not suitable for human consumption and present a serious health risks for the users.

Similarly, the existing water systems in the Northern Governorate suffer from both inadequate water supply, and deteriorating water quality due to high levels of Nitrates and Chlorides where the concentrations of these two substances have exceeded the WHO drinking water health standards.

In order to improve the current domestic water networks, new water wells and other water facilities are deemed to be constructed to overcome the current deficit in water supply, and improve the quality of drinking water in both, Northern and Rafah governorates.
Project Background

The proposed project is based on the outputs of the Palestinian Water Authority master plan and the Emergency Rafah Water Improvement Project (ERWIP) developed in 2006 as part of the PWA strategy to develop and improve the drinking water quality and supply in the Gaza Strip. The above two plans deal with major aspects of water supply and distribution systems in both regions targeted by the projects. These aspects include two major components; assuring an adequate supply of high quality water and the full optimization of ground water utilization in order to meet the high and long terms demands of water.

The water supply services in Rafah Governorate are among the poorest services in the Gaza Strip due to the very limited availability of water resources and to the very poor water quality. Where as the per capita consumption in the governorate is less than 85 L/C/D and the water quality is poor due to very high concentrations of Chlorides and Nitrates that respectively result from over abstraction of the aquifer and sea water intrusions, in addition to the infiltration of untreated wastewater to the aquifer. After the Israeli disengagement, many wells in the evacuated settlement areas are now available for use for the Residents of Rafah governorate for the first time. These wells are of very good water quality and have a great potential to increase the capacity of the water supply in Rafah Governorate.

Likewise Rafah Governorate, the Northern Governorate residents are suffering from poor water quality. According to the PWA, the Nitrates concentrations in 13 wells have exceeded the WHO standards (70mg/l). The Governorate also suffers from a drinking water deficit due to high levels of demand as a result of the high population growth. Based on the PCBS sources, the current population of the Northern Governorate (281,727) is expected to double and reach the number of (581,900) in 2025. Currently, the water consumption levels are lower than the required level due to limited water facilities. The PWA plan to increase the current level (85-110/c/d) to reach the required level (150 1/c/d) that meets the current and future drinking water demands.

Project Goal

The overall goal of the project is to improve the quality of life and health condition through developing and improving water supply services and facilities in both Rafah and Northern Governorates. The project will target four municipalities in Rafah. These municipalities are Rafah, El Shoka, El Naser and El Fokhary. The project will also serve residents of the poor camps, suburbs and rural areas surrounding the city of Rafah. Moreover, part of these Project activities will drill new wells in the freed settlements’ areas and will rehabilitate the existing recently acquired wells. Furthermore, and for the first time, the project will provide water for the deprived communities of Al-Mawasi. On the whole, the Project will improve the overall management of the water system facilities in the Rafah Governorate.

For the Northern Governorate, the project will develop and improve the capacity of current water facilities for the municipalities of Beit Hanoun, Jabalia, and Um Naser.
**Project Objectives:**

The project aims at achieving the following objectives in the two targeted governorates:

- Improve the accessibility and efficiency of water supply services through the construction of new water facilities and the utilization of the available water resources in both Rafah and the Northern Governorates.
- Utilize the water resources in the settlements and integrate it in to the municipal water networks that serve Rafah Governorate residents.
- Improve the overall public health conditions through developing and improving water facilities that would produce better quality water.

**Project Implementation Plan**

1. Up on approving the project, an agreement between the Palestinian Water Authority and UNDP needs to be finalized through the preparation and negotiation phase.
2. UNDP and the PWA will work together on both tendering and bidding processes following the signing of the agreement.
3. UNDP will carry out the role of the executing agency through out the project activities; therefore UNDP will be in charge of administrating the procurement and financing activities, including the administrating of the respective sub-project contracts.
4. During the implementation and site supervision processes, UNDP will instigate a reporting, follow up, and evaluation mechanisms to guarantee efficient project implementation of the activities.
5. The project activities will not exceed the period of 12 months.
6. Inauguration Ceremony, recognizing donor support, and handing over facility to the beneficiaries.

**Expected End-of-Project Outputs**

- Access and availability of fresh water supply is improved to reach an average of 100-120 l/c/d;
- The public health and hygiene practices are improved as a result of improved water quality;
- The environmental health conditions of 240,000 residents are developed and improved;
- Water infrastructure facilities are developed;
- Management of the limited water resources are enhanced;
- 51,012 working days are generated;
- Socio- economic development of the towns is enhanced.
**Project Description/ Components**

The construction of the Water Networks will involve the following:

### Rafah Governorate

<table>
<thead>
<tr>
<th>Project location Activities</th>
<th>Projects’ Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network reconstruction measures in Tal Central Rafah Pressure zone</td>
<td>1. Install at least seven gates “boundary” valves to isolate the served area.</td>
</tr>
<tr>
<td></td>
<td>2. Pipe replacement &amp; new construction from 4” to 16” (UPVC) of 2,700 meter length.</td>
</tr>
<tr>
<td>Construction of St-18-a tank pumping stations PS10&amp; PS11</td>
<td>1. Construction of St-18-A booster station PS 10. The station consists of three pumps that will provide supply to Shaborra, El Zohour, and western Rafah areas.</td>
</tr>
<tr>
<td></td>
<td>2. Construction of St-18-A booster station PS 11. The station will provide supply to Mosabeh, Kerbat Al Adas, Emirarate neighborhood, Tabat Zarei and Al Bayok districts.</td>
</tr>
<tr>
<td></td>
<td>3. Service building, yards landscaping (3000 m²), boundary walls, generators, controls, PLS, connections and all fittings.</td>
</tr>
<tr>
<td>Construction of On-Line booster stations PS1, PS2, PS3 &amp; PS4</td>
<td>Installation of on-line booster stations with all connections, valves, fittings, PLC, generator and service rooms.</td>
</tr>
<tr>
<td>Construction of two new wells in Central areas in MOR</td>
<td>Drilling of two new wells each of capacity 120m³/h around the St-18-A tank area.</td>
</tr>
</tbody>
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### Northern Governorate

<table>
<thead>
<tr>
<th>Project location Activities</th>
<th>Projects’ Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitation of existing Water Tanks in Jabalia Camp, Um El Nasser, Beit Hanoun, and east of Jabalia.</td>
<td>Rehabilitation of existing wells in the four located areas.</td>
</tr>
<tr>
<td>Construction of new water tank ST-25 (Phase 1) and trunk lines from the existing wells cluster to tank ST-25 &amp; ST-26.</td>
<td>1. Construction of new water tank ST-25 (Phase 1).</td>
</tr>
<tr>
<td></td>
<td>2. Reconfiguration of existing wells cluster of tank ST-25.</td>
</tr>
<tr>
<td></td>
<td>3. Installing trunk lines from existing wells cluster of tank ST-25.</td>
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</tbody>
</table>
Note: all designs for the three projects are ready and available at PWA

Project Budget

<table>
<thead>
<tr>
<th>Rafah Governorate</th>
<th>Budget in USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project location Activities</td>
<td></td>
</tr>
<tr>
<td>Construction of ST-18-A Storage Tank in Rafah Municipality</td>
<td>460,000</td>
</tr>
<tr>
<td>Network reconstruction measures in Tal Central Rafah Pressure zone</td>
<td>210,000</td>
</tr>
<tr>
<td>Construction of St-18-a tank pumping stations PS10&amp; PS11</td>
<td>630,000</td>
</tr>
<tr>
<td>Construction of On-Line booster stations PS1, PS2, PS3 &amp; PS4</td>
<td>500,000</td>
</tr>
<tr>
<td>Construction of two new wells in Central areas in MOR</td>
<td>720,000</td>
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<tr>
<td><strong>Total budget for Rafah Governorate</strong></td>
<td>2,520,000</td>
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<table>
<thead>
<tr>
<th>Northern Governorate</th>
<th>Budget in USD</th>
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</thead>
<tbody>
<tr>
<td>Project location Activities</td>
<td></td>
</tr>
<tr>
<td>Rehabilitation of existing Water Tanks in Jabalia Camp, Um El Nasser, Beit Hanoun, and east of Jabalia.</td>
<td>200,000</td>
</tr>
<tr>
<td>Construction of new water tank ST-25 (Phase 1) and trunk lines from the existing wells cluster to tank ST-25 &amp; ST-26.</td>
<td>1,871,163</td>
</tr>
<tr>
<td><strong>Total Budget for the Northern Governorate</strong></td>
<td>2,071,163</td>
</tr>
<tr>
<td><strong>Total Project Budget</strong></td>
<td><strong>4,591,163</strong></td>
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</tbody>
</table>

Financial Summary

<table>
<thead>
<tr>
<th>Financial Summary</th>
<th>Budget in USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget Items</td>
<td></td>
</tr>
<tr>
<td>Project Manager (2500*12)</td>
<td>30,000</td>
</tr>
<tr>
<td>Administrative assistant (1500*12)</td>
<td>18000</td>
</tr>
<tr>
<td>6 Site Engineers (2000<em>12</em>6)</td>
<td>144000</td>
</tr>
<tr>
<td>Total (Project Staff)</td>
<td>192,000</td>
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<tr>
<td>Construction Costs</td>
<td>4,591,163</td>
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<tr>
<td>Total</td>
<td>4,783,163</td>
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<tr>
<td>Miscellaneous/Contingencies</td>
<td>239,158</td>
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<tr>
<td>Programmable Amount:</td>
<td>5,022,321</td>
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<tr>
<td>UNDP/GMS (8%)</td>
<td>401,785</td>
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<tr>
<td>Total Project Budget</td>
<td>5,424,106</td>
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