1. Results and partnerships

3.1 Project Results and Resources Framework

Intended outcome as stated in the country Programme results and resources framework:
Palestine’s infrastructure, and natural and cultural resources are more sustainably used and managed

Project outcome:
PWA and service providers are more effective in management of natural resources, transboundary wastewater and provision of basic services

outcome indicators:
- Mechanisms in place for transboundary wastewater management system (qualitative)
- No of coliform in water resources and water supplies (quantitative - (to be measured during the mobilization phase))
- Capacities of PWA and service providers in integrated wastewater management (qualitative)

Baseline:
- No mechanism in place for transboundary waste water management
- No of coliform present in water resources and water supply systems
- limited capacities for integrated wastewater management systems within the targeted service providers

Target
By 2020
- a draft mechanism for transboundary wastewater management is in place
- No of fecal coliform in water resources and water supplies is decreased substantially (to be measured during the mobilization phase)
- the five targeted communities and service providers have wastewater management systems in place

Applicable MYFF service line: increased access to water and wastewater services

Partnership Strategy: the project will be executed by UNDP/PAPP in coordination with PWA, MoLG and Municipality of Baqa and Nazlat

Project Title and ID (ATLAS Award ID): Trans boundary wastewater management Award 50897

<table>
<thead>
<tr>
<th>Intended Outputs</th>
<th>Output Targets for (years)</th>
<th>Indicative Activities</th>
<th>Responsible Party</th>
<th>Inputs</th>
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<tbody>
<tr>
<td><strong>Output 1:</strong> Residents of Baqa-Alsharqia and 4 Nazlat communities have increased access to environmentally sound municipal wastewater services</td>
<td>2018:</td>
<td>Prepare invitation to bid for local classified contractor in the category A and B</td>
<td>UNDP/PAPP</td>
<td>Qualified local contractors</td>
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<td>16 km of wastewater collection constructed and operational</td>
<td>Evaluate contractors offers and award construction contracts</td>
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<td>Site engineer</td>
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<td>6,000 persons (3,048 male, 2,952 female) living in the project area have access to wastewater services</td>
<td>Supervise implementation of installing 28km wastewater networks, pump stations and other related works</td>
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<td>Quality assurance Engineer</td>
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<td>2019:</td>
<td>Undertake commissioning and handover to the Municipality</td>
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### Output 2:
The Water tariff and revenue collection system for Baqa and Nazlat Municipalities are reviewed, modified and are put in practice

#### Indicators:
- Number of water tariffs reviewed, modified and is in place
- The extent to which the adopted tariff fully covers the cost of operation and maintenance

#### Baseline:
- 2017 (0)
- 2017 (insufficient) The existing tariff is a flat-water tariff and does not include provisions to recover wastewater services

#### 2018:
- Site specific agreement for Baqa Al-Sharqiya is cleared and signed
- 3 water tariff structures reviewed and modified
- Partially: water tariff revised and endorsed to include the full cost of wastewater collection, operation and maintenance and treatment services for long term and 50% for the first three years

#### 2019:
- Largely: new water tariff for the selected communities enforced/applied
- Follow up the discussion with PQA and MoLG regarding the clearance of the site specific agreement of Baqa and the signatory authority
- Review existing water and wastewater revenue collection system
- Review exiting water tariff
- Using participatory approach, propose new tariff to ensure recovery of operational and maintenance of the collection system as well as the cost of treatment in Israel (first three years 50% of the cost and 100% for the long term
- Get the tariff system approved by PWA and MoLG
- Support the enforcement and implementation of the new tariff system

#### UNDP/PAPP
- Tariff expert
- Legal expert
- Wastewater operation and maintenance expert
- Community representatives and working groups

### Output 3:
Training on operation and maintenance, community awareness on water and wastewater management are conducted and municipalities are equipped with necessary tools

#### Indicators:
- Number of participants attended the planned awareness workshops
- Number of municipality technicians trained
- Number of manuals produced

#### 2018:
- 10 community awareness workshops are conducted and attended by 400 participants (men, women and school students)

#### 2019
- 3 training sessions on maintenance and operation are carried out for the technicians of the selected municipalities
- 1 operational and maintenance manual produced
- Organize and conduct 10 community awareness workshops to build consensus on the proposed tariff
- Organize three training sessions on finance, operation and maintenance for the municipality staff in water and wastewater section
- Prepare operational and maintenance manual
- Provide maintenance tools and vehicle

#### UNDP/PAPP
- Qualified trainers
- Public awareness experts
- Community representatives
- Number of maintenance equipment provided

**Baseline:**
- No of awareness activities are conducted in the targeted municipalities since 2014
- Level of community awareness regarding paying for the services is not adequate.
- Lack of trained municipality staff on maintenance and operation
- No manuals for operation or maintenance are available

**Output 4**
Capacity of PWA in managing the transboundary wastewater in general and in possible five locations in the West Bank in particular is enhanced

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
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<tbody>
<tr>
<td>2018</td>
<td>Assessment study and position paper on the transboundary wastewater is prepared</td>
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<tr>
<td>2019</td>
<td>Improved mechanisms and follow up steps with the Israeli side are considered</td>
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<td>Possible 5 measuring instruments (in most critical sites) are installed and transboundary wastewater quantities is measured</td>
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**Provisional activities**
- Identify the critical locations of transboundary wastewater and the needed number of measuring flowmeters (up to five)

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<thead>
<tr>
<th>Stakeholder</th>
<th>Responsibilities</th>
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<tr>
<td>UNDP/PAP</td>
<td>Prepare the TOR for the Study and position paper</td>
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<td>Procure consultancy services to prepare the study</td>
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<td>Conduct a survey that includes wastewater quantities, quality and calculations of related treatment cost</td>
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<td>Together with MoLG, MoF and PWA, prepare a position paper to be used as a bases for discussions with the Israeli side. The paper should include the calculations of the cost of treatment based on treatment prices in Israel and a comparison of the cost with the amount of money deducted by Israel from the PA tax</td>
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<td>Support PWA and MoLG in negotiating improved mechanisms and follow up with Israeli side regarding WW treatment costs and payments.</td>
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- Specialized consultant
- Qualified contractor
- Economist
- Institutional expert
- Identify the necessary site preparation requirements including possible needed infrastructure
- Procure and Install the flow meters (provisional activity)
- Liaise with MoLG, PWA, MoF and the respected municipalities and start the measurement of the wastewater flow