Republic of Yemen

Urban Water & Sanitation Project

Terms of Reference for a Pro-Forma Environmental Assessment

Project Background

The Urban Water and Sanitation Project is designed as an Adaptable Program Loan (APL). The total APL Program is estimated at US$230 million, to be implemented in two phases over about 8 years. The International Development Association (IDA) would most likely fund a total of $208 million for the two phases. Parallel financing by other donors is possible, but is still to be identified. Phase I of the APL is expected to be considered for approval by IDA's Board of Directors in May/June, 2002.

Phase I. Phase I of the APL Program is estimated at US$130 million with IDA financing of US$118 million. Works proposed are typical for the water and sanitation sector: water and sewer network rehabilitation; water and sewer network expansion; rehabilitation/expansion of existing wastewater treatment facilities; TA to support sector reform; Project Management Unit (PMU) costs; and equipment upgrading and staff training. Also included are funds to assist the GOY to establish and strengthen the regulator, develop water markets, prepare works related to wastewater re-use, and prepare tender documents for private sector management.

Phase II. Phase II of the APL Program is estimated at US$100 million with IDA financing of US$90 million. Investments to be financed would be similar to those outlined. The overall objective of Phase II would be to make a significant increase in the number of people reached with water and wastewater services, continue the process of sector reform by enlarging it to more geographical areas, strengthen the sector's finances and strengthen the capacity of the regulator established under Phase I.

Each urban center that would like to access funding under the Urban Water Project will be required to perform an EA satisfactory to IDA. The EA will be required to be available for inspection in IDA's InfoShop as well as at least three public places in Yemen.

Proforma TOR for the EAs are shown below.

Terms of Reference

1. Introduction

1.01 The Government of Yemen has a comprehensive strategy and medium investment for the development of water and wastewater services in the City of [insert city name]. Under the Urban Water and Sanitation Project, the [LC name] plans to make the following investments:

[List planned Investments in summary: organized into (i) bulk water supply and treatment; (ii) potable water supply and distribution; and (iii) wastewater treatment and reuse.]

2. Overall Objectives of the EA

2.01 A consultant will be employed to prepare the EA for the planned investments. The EA will be done according to the Table of Contents found in Annex 1 to this TOR.
2.02 While in [city name] the consultant will work with the Project's Project Management Unit (PMU), Government Officials, staff from the Project's engineering consulting firm, as well as World Bank personnel. Office resources will be made available to him by the PMU, including the use of office space, printers, and paper as needed.

2.03 It will be the primary objective of the consultant to ensure that project options under consideration are environmentally sound and sustainable, and performed according to the relevant World Bank Operational Directive OP4.01 for Environmental Assessments. In this context, the consultant will ensure that any environmental consequences are recognized early and taken into account in project feasibility and design. To this end, the consultant will propose environmental improvements into the project in a timely fashion, thereby avoiding, mitigating, or compensating for potentially adverse impacts.

2.04 For example, the consultant will ensure that the following objectives are achieved:

(a) Stakeholders and affected members of society have an overall understanding of present water supply and sanitation conditions and of future requirements. In this context, public consultations on the design, scope and implementation of the project and planned investments will be carried out;

(b) That service levels and standards are commensurate with environmental concerns;

(c) There is a satisfactory environmental assessment and environmental management plan for the investments proposed; and

(d) That proposed investments are least cost solutions, financially and environmentally sustainable, and appropriate to the circumstances.

2.05 While in [city name], the consultant will review the all Development Plans for water and wastewater service, and suggest any immediate changes needed to ensure compliance with OP 4.01. He/she will also organize and attend the first public meeting to be performed under the EMP's public consultation process.

2.06 Before leaving Yemen, the consultant will discuss with the authorities the next steps in the EIA process and indicate possible project components for strengthening environmental capacity under the Urban Water Project. He will also brief the relevant representative in the World Bank Resident Mission on the results and findings of his mission, and present a first draft of the EIA along with a mission report.

3. Proposed Budget

3.01 The proposed budget for the consultant is as follows. All figures are in US dollars:

<table>
<thead>
<tr>
<th>Item</th>
<th>Rate/day</th>
<th>Days</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consultant Fees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per Diem *</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Other Expenses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Includes Hotel, Ground Transportation, Phone Allowance, Tips and Applicable Taxes
3.02 [add if applicable: Mission Expenses and Consultant Fees are based on World Bank per diem rates and the consultant’s standard fees while traveling and in Yemen. Mission dates are according to the schedule in Section 4.]

4. Proposed Schedule

4.01 The consultant will complete the EIA according to the following schedule:

<table>
<thead>
<tr>
<th>Task</th>
<th>Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation</td>
<td>1</td>
</tr>
<tr>
<td>Travel</td>
<td>2</td>
</tr>
<tr>
<td>Completion and Submission of Draft</td>
<td>3</td>
</tr>
<tr>
<td>EIA</td>
<td></td>
</tr>
<tr>
<td>Review of Draft by GoY and WB</td>
<td></td>
</tr>
<tr>
<td>Completion and Submission of Final</td>
<td></td>
</tr>
<tr>
<td>EIA</td>
<td></td>
</tr>
</tbody>
</table>

5. Payment Schedule

5.01 Consultant fees will be paid according to the following schedule:

- 30% upon commencement of the contract
- 20% upon submission of first draft of EIA and mission report
- 35% upon submission of the second draft of EIA & EMP
- 15% upon acceptance of the final EIA & EMP

6. Implementation Arrangements

6.01 The PMU will assume overall responsibility for the screening and implementation of EAs to be completed under the Project. Funding for EAs may come from either GOY resources or Project proceeds. In this context, the Urban Water and Sanitation Project contains adequate resources for this purpose under Component 3 “Engineering and Environmental Consultants, Safeguard Implementation”.

6.02 The PMU will initially propose an environmental and safeguard category for Project financed investments in each urban area. IDA’s MENA Regional Environmental Coordinator will be responsible to review the proposed investments and suggested safeguard rating and, in consultation with IDA’s Task Team for the Project, assign the final rating.

6.03 The PMU will contract with a qualified consultancy firm to carry out Environmental Assessments. The firm must be acceptable to IDA in terms of environmental experience and capacity, and selected according to World Bank procurement guidelines. The PMU will supervise the day-to-day work of the consultant and ensure that the EA is carried out in accordance with this pro-forma Terms of Reference.

6.04 The EA produced by the consultant will be reviewed by IDA and must be found acceptable to IDA before it can be considered final. All accepted EAs will be placed in the World Bank’s InfoShop and will
also be available for public inspection in Yemen. The EA will contain executive summaries in both English and Arabic.
ANNEX: SAMPLE TABLE OF CONTENTS FOR THE EA

1. INTRODUCTION
   1.1 PROJECT BACKGROUND AND OBJECTIVES
   1.2 REPORT SCOPE
   1.3 REPORT STRUCTURE
   1.4 PROJECT LOCATION

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   2.2 INSTITUTIONAL FRAMEWORK
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      2.2.2 Research Institutions
      2.2.3 NGOs and CBOs
   2.3 LEGISLATIVE FRAMEWORK
      2.3.1 General Framework
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    4.2.4 Hydrology
    4.2.5 Air Quality
    4.2.6 Noise

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    4.3.2 Population Forecasts
    4.3.3 Project Area Forecasts
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    4.3.5 Education
    4.3.6 Gender Issues

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    4.4.2 Expenditure

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    4.5.2 Urban Growth Pattern
    4.5.3 Housing and Housing Conditions
    4.5.4 Service Provision
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    5.2.2 Construction Works (Temporary)
    5.2.3 Permanent Impacts
    5.2.4 Operational Impacts
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   5.3.2 Construction Impacts (Temporary)
   5.3.3 Operations Phase

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   5.4.1 Pre Construction
   5.4.2 Construction Phase
   5.4.3 Operations Phase

6. ANALYSIS OF ALTERNATIVES
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   6.2 COLLECTION SYSTEM
   6.3 DISPOSAL
   6.4 TREATMENT WORKS
   6.5 SLUDGE MANAGEMENT

7. ENVIRONMENTAL MANAGEMENT PLAN
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   7.2 CONSULTATION PROGRAM
      7.2.1 Programs
      7.2.2 Affected Population Rights
   7.3 SANITATION PROJECTS
      7.3.1 Pre Construction
      7.3.2 Construction On Site
      7.3.3 Construction: Off Site Facilities
      7.3.4 Construction: Resource Use
      7.3.5 Operations
   7.4 WATER SUPPLY PROJECTS
      7.4.1 Pre-Construction
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   7.5 SUMMARY

8. MONITORING AND IMPLEMENTATION PROGRAM
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      8.1.1 Summary Matrix of Implementation Schedule
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   8.2.1 Site Access
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   8.3.3 Mass Media Campaign
   8.3.4 Survey Implementation and Cost
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   8.4.3 Potential Additional Costs to the Contractor
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