REPUBLIC OF LEBANON

COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

EXPANSION AND UPGRADE OF AL-GHADIR WASTEWATER TREATMENT PLANT PROJECT – PHASE I: DESIGN, BUILD AND OPERATE, INCLUDING TWO NEW SEA OUTFALLS AND INSPECTION & ASSESSMENT OF EXISTING SEA OUTFALLS

Fund: Islamic Development Bank (IsDB)

Tender Documents

Part 1 – Request for Proposal Procedures

August 2026

DAR AL HANDASAH NAZIH TALEB & PARTNERS
Founded 1956
دار الهندسة نزيه طالب وشركاه

ARTELIA

Expansion and Upgrade of Al-Ghadir Wastewater Treatment Plant Project – Phase I: Design, Build and Operate, Including Two New Sea Outfalls and Inspection & Assessment of Existing Sea Outfalls

Summary of Content

PART 1 – REQUEST FOR PROPOSAL PROCEDURES

Section I – Instructions to Proposers (ITP)

Section II – Proposal Data Sheet (PDS)

Section III – Evaluation and Qualification Criteria

Section IV – Proposal Forms

A. Technical Proposal Forms

B. Financial Proposal Forms

Section V – Eligible Countries

Section VI – IsDB Policy on Fraud and Corruption

PART 2 – EMPLOYER'S REQUIREMENTS

Section VII – Employer's Requirements

A. General Requirements for WWTP

B. Performance Specifications for WWTP

C. Control of Performance Levels for WWTP

D. Operation and Maintenance Requirements for WWTP

E. General Technical Specifications: Civil and Building Works

F. General Technical Specifications: Mechanical and Electrical Works

G. Particular Requirements for New Sea Outfall Works

H. Technical Specifications for New Sea Outfall Works

I. Particular Requirements for Existing Sea Outfalls

PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section VIII – General Conditions (GC)

Section IX – Particular Conditions of Contract (PC)

Section X – Contract Forms

PART 4 – DRAWINGS

Section XI – Tender Document Drawings

PART 5 – OTHER INFORMATION

Section XII – Environmental and Social Impact Assessment Study

Section XIII – Design Report for WWTP

Section XIV – Reference Design Report for Jnah Sea Outfall

Section XV – Reference BOQ for Jnah Sea Outfall

QC	Ref: L2401DS / 3954	
	Revision: (04)	Date: August 10, 2026
	Revision: (03)	Date: May 14, 2026
	Revision: (02)	Date: January 28, 2026
	Revision: (01)	Date: May 05, 2025
	Revision: (00)	Date: March 05, 2025
	Signature:	

PART 1 – REQUEST FOR PROPOSAL PROCEDURES

SECTION I – INSTRUCTIONS TO PROPOSERS

Table of Contents

A. GENERAL 3
1. SCOPE OF PROPOSAL 3
2. SOURCE OF FUNDS 4
3. FRAUD AND CORRUPTION 4
4. ELIGIBLE PROPOSERS 4
5. ELIGIBLE MATERIALS, EQUIPMENT, AND SERVICES 7

B. CONTENTS OF RFP DOCUMENT 7
6. SECTIONS OF RFP DOCUMENT 7
7. CLARIFICATION OF RFP DOCUMENT, SITE VISIT, PRE-PROPOSAL MEETING 8
8. AMENDMENT OF RFP DOCUMENT 9
9. COST OF PROPOSALS 9
10. CONTACTING THE EMPLOYER 9
11. LANGUAGE OF PROPOSALS 9

C. PREPARATION OF PROPOSALS 9
12. DOCUMENTS COMPRISING THE PROPOSAL 9
13. LETTER OF PROPOSAL, AND SCHEDULES 11
14. ALTERNATIVE TECHNICAL PROPOSALS 11
15. PROPOSAL PRICES 11
16. PROPOSAL CURRENCIES 12
17. DOCUMENTS ESTABLISHING THE QUALIFICATION OF THE PROPOSER 12
18. DOCUMENTS ESTABLISHING CONFORMITY OF THE WORKS 13
19. SECURING THE PROPOSAL 13
20. PERIOD OF VALIDITY OF PROPOSALS 15
21. FORMAT AND SIGNING OF PROPOSAL 15

D. SUBMISSION OF PROPOSALS 16
22. SUBMISSION, SEALING AND MARKING OF PROPOSALS 16
23. DEADLINE FOR SUBMISSION OF PROPOSALS 17
24. LATE PROPOSALS 17
25. WITHDRAWAL, SUBSTITUTION, AND MODIFICATION OF PROPOSALS 17

E. OPENING OF TECHNICAL PROPOSALS 17
26. OPENING OF TECHNICAL PROPOSALS BY EMPLOYER 17

F. EVALUATION OF PROPOSALS – GENERAL PROVISIONS 18
27. CONFIDENTIALITY 18
28. CLARIFICATION OF PROPOSALS 18
29. DEVIATIONS, RESERVATIONS, AND OMISSIONS 19

G. EVALUATION OF TECHNICAL PARTS OF PROPOSALS 19
30. DETERMINATION OF RESPONSIVENESS 19
31. EVALUATION OF TECHNICAL PARTS 19
32. EVALUATION OF PROPOSER'S QUALIFICATION 20
33. NOTIFICATION OF EVALUATION OF TECHNICAL PARTS 20

H. OPENING OF FINANCIAL PARTS 21
34. PUBLIC OPENING OF FINANCIAL PARTS WHEN BAFO OR NEGOTIATIONS DO NOT APPLY 21
35. OPENING OF FINANCIAL PARTS WHEN BAFO OR NEGOTIATIONS APPLY 21

I. EVALUATION OF FINANCIAL PART 22
36. NONMATERIAL NONCONFORMITIES 22
37. ARITHMETIC CORRECTION 22

38. CONVERSION TO SINGLE CURRENCY 22
39. MARGIN OF PREFERENCE 23
40. EVALUATION PROCESS FINANCIAL PARTS 23
41. ABNORMALLY LOW PROPOSALS 23
42. UNBALANCED OR FRONT LOADED PROPOSALS 23

J. EVALUATION OF COMBINED TECHNICAL AND FINANCIAL PART 24
43. EVALUATION OF COMBINED TECHNICAL AND FINANCIAL PROPOSALS 24
44. BEST AND FINAL OFFER (BAFO) 24
45. PROPOSAL WITH MOST VALUE-FOR-MONEY 24
46. NEGOTIATIONS 24
47. EMPLOYER'S RIGHT TO ACCEPT ANY PROPOSAL, AND TO REJECT ANY OR ALL PROPOSALS 25
48. STANDSTILL PERIOD 25
49. NOTIFICATION OF INTENTION TO AWARD 25

K. AWARD OF CONTRACT 25
50. AWARD CRITERIA 25
51. NOTIFICATION OF AWARD 26
52. DEBRIEFING BY THE EMPLOYER 26
53. SIGNING OF CONTRACT 27
54. PERFORMANCE SECURITY 27
55. PROCUREMENT RELATED COMPLAINT 27

SECTION I – INSTRUCTIONS TO PROPOSERS

A. GENERAL

1. Scope of Proposal

1.1 In connection with the Specific Procurement Notice, Request for Proposals (RFP), specified **in the Proposal Data Sheet (PDS), t**he Employer, as specified in the PDS, issues this Request for Proposals (RFP) Document for the design, build and operation of the Works as specified in Section VII, Employer's Requirements. The name, identification and number of lots (contracts) of this RFP are specified **in the PDS.**

1.2 Unless otherwise stated, throughout this RFP Document definitions and interpretations shall be as prescribed in the Section VIII, General Conditions.

1.3 Throughout this RFP Document:

(a) the term **"in writing"** means communicated in written form (e.g. by mail, e-mail, fax, including if specified **in the PDS**, distributed or received through the electronic-procurement system used by the Employer) with proof of receipt;

(b) if the context so requires, "singular" means "plural" and vice versa;

(c) **"Day"** means calendar day, unless otherwise specified as **"Business Day".** A Business Day is any day that is an official working day of the Beneficiary. It excludes the Beneficiary's official public holidays;

(d) **"Operation Service"** means the operation and maintenance of the Works as provided under the Contract;

(e) "**Works"** refers to Works, subject of this request for proposals document, to be designed and built under the Contract;

(f) **"ES"** means environmental and social (including Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH));

(g) **"Sexual Exploitation and Abuse" "(SEA)"** means the following:

Sexual Exploitation is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;

Sexual Abuse is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;

(h) **"Sexual Harassment" "(SH)"** is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the Contractor's Personnel with other Contractor's or Employer's Personnel;

(i) **"Contractor's Personnel"** is as defined in Sub-Clause 1.1.21 of the General Conditions; and

(j) **"Employer's Personnel"** is as defined in Sub-Clause 1.1.34 of the General Conditions.

2. Source of Funds

2.1 The Beneficiary or Recipient (hereinafter called "Beneficiary") specified **in the PDS** has applied for or received financing (hereinafter called "funds") from the Islamic Development Bank (hereinafter called "IsDB") in an amount specified **in the PDS,** toward the project named **in the PDS.** The Beneficiary intends to apply a portion of the funds to eligible payments under the contract for which this Request for Proposals document is issued.

2.2 Payment by IsDB will be made only at the request of the Beneficiary and upon approval by IsDB in accordance with the terms and conditions of the Financing Agreement. The Financing Agreement prohibits a withdrawal from the Financing account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import is prohibited by a decision of the Organization of the Islamic Cooperation, the League of Arab States and the African Union. No party other than the Beneficiary shall derive any rights from the Financing (or other financing) Agreement or have any claim to the proceeds of the Financing (or other financing).

3. Fraud and Corruption

3.1 IsDB requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section VI.

3.2 In further pursuance of this policy, Proposers shall permit and shall cause their agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit IsDB to inspect all accounts, records and other documents relating to any initial selection process, prequalification process, bid submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by IsDB.

4. Eligible Proposers

4.1 A Proposer may be a firm that is a private entity, a state-owned enterprise or institution subject to **ITP 4.7,** or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. The JV shall nominate a Representative (Lead Member) who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the RFP process and, in the event the JV is awarded the Contract, during contract execution. Unless specified **in the PDS**, there is no limit on the number of members in a JV. If specified in the PDS, the JV may form an SPV to enter into the Contract and the minimum level of total paid up share capital, lock-in periods for members maintaining their shares and extent to which members can dilute their shareholding shall be as specified **in the PDS**.

4.2 A Proposer shall not have a conflict of interest. Any Proposer found to have a conflict of interest shall be disqualified. A Proposer may be considered to have a conflict of interest for the purpose of this RFP process, if the Proposer:

(a) directly or indirectly controls, is controlled by or is under common control with another Proposer; or

(b) receives or has received any direct or indirect subsidy from another Proposer; or

(c) has the same legal representative as another Proposer; or

(d) has a relationship with another Proposer, directly or through common third parties, that puts it in a position to influence the Proposal of another Proposer, or influence the decisions of the Employer regarding this RFP process; or

(e) any of its affiliates participates as a consultant in the preparation of the Employer's Requirements for the Works that are the subject of the Proposal; or

(f) or any of its affiliates has been hired (or is proposed to be hired) by the Employer or Beneficiary as the Employer's Representative for the Contract implementation; or

(g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the **PDS ITP 2.1** that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or

(h) has a close business or family relationship with a professional staff of the Beneficiary (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the RFP Document or specifications of the Contract, and/or the Proposal evaluation process of such Contract; or (ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to IsDB throughout the RFP process and execution of the Contract.

4.3 A firm that is a Proposer (either individually or as a JV member) shall not participate in more than one Proposal, except for permitted alternative Proposals. This includes participation as a subcontractor in other Proposals. Such participation shall result in the disqualification of all Proposals in which the firm is involved. A firm that is not a Proposer or a JV member may participate as a subcontractor in more than one Proposal.

4.4 A Proposer may have the nationality of any country, subject to the restrictions pursuant to **ITP 4.8.** A Proposer shall be deemed to have the nationality of a country if the Proposer is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub-consultants for any part of the Contract including related Services.

4.5 A Proposer that has been sanctioned by IsDB, in accordance with the above ITP 3.1, including in accordance with the Guidelines for Procurement of Goods, Works and Related Services under IsDB Project Financing ("Procurement Guidelines"), shall be ineligible to be prequalified for, initially selected for, bid for, propose for, or be awarded a IsDB-financed contract or benefit from a IsDB-financed contract, financially or otherwise, during such period of time as IsDB shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the PDS.

4.6 Proposers that are government-owned enterprises or institutions in the Beneficiary's Country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to IsDB, that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not dependent on the budget of the Beneficiary's government. To be eligible, a government-owned enterprise or institution shall establish to IsDB's satisfaction, through all relevant documents, including its Charter and other information IsDB may request, that it: (i) is a legal entity separate from the government (ii) does not currently receive substantial subsidies or budget support; (iii) operates like any commercial enterprise, and, inter alia, is not obliged to pass on its surplus to the government, can acquire rights and liabilities, borrow funds and be liable for repayment of its debts, and can be declared bankrupt; and (iv) is not bidding for a contract to be awarded by the department or agency of the government which under their applicable laws or regulations is the reporting or supervisory authority of the enterprise or has the ability to exercise influence or control over the enterprise or institution.

4.7 A Proposer shall not be under suspension from submitting proposals by the Employer as the result of the operation of a Bid or Proposal–Securing Declaration.

4.8 Firms and individuals may be ineligible if so, indicated in Section V and:

(a) as a matter of law or official regulations, the Beneficiary's country prohibits commercial relations with that country, provided that IsDB is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or

(b) by the Boycott Regulation Organization of the Islamic Cooperation, the League of Arab States and the African Union, the Beneficiary's country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country

When the procurement is implemented across jurisdictional boundaries (and more than one country is a Beneficiary, and is involved in the procurement), then exclusion of a firm or individual on the basis of **ITP 4.8 (a)** above by any country may be applied to that procurement across other countries involved, if the IsDB and the Beneficiaries involved in the procurement agree.

4.9 A Proposer shall provide such documentary evidence of eligibility satisfactory to the Employer, as the Employer shall reasonably request.

4.10 Successful Proposers, i.e. Prequalified Contractors, shall be reviewed and subject to onboarding Customer Due Diligence. Only Proposers presenting satisfactory Compliance Due Diligence shall be qualified to pursue the selection process and to complete the attached IsDB AML/CFT /KYC Questionnaire/Form for further Compliance Due Diligence in accordance with IsDB Policy on Anti-Money Laundering (AML), Countering the Financing of Terrorism (CFT) and Know Your Customer (KYC) approved on 19/12/2019 through BED Resolution IsDB/BED/15/12/019/(333)/80.

Definitions:

"Compliance Policy": IsDB Policy on Anti-Money Laundering (AML), Countering the Financing of Terrorism (CFT) and Know Your Customer (KYC) approved on 19/12/2019 through BED Resolution IsDB/BED/15/12/019/(333)/80.

"Customer Due Diligence (CDD) / **Compliance Due Diligence":** means an onboarding process of conducting research, analysis and review aimed at knowing the customer (Know Your Customer/KYC) and understanding risks - including but not limited to Money Laundering/Terrorist Financing (ML/TF), tax evasion, sanctions, crime, integrity - dealing with the customer may pose, in accordance with IsDB Compliance Policy.

"Money laundering": means acquisition, possession. use or conversion or transfer proceeds of crime, for the purpose of concealing or disguising the illicit origin of the property, as defined in the IsDB Compliance Policy.

"Terrorist Financing: generally, means the offence stipulated by Article 2 of the 1999 International Convention for the Suppression of the Financing of Terrorism, as defined in the IsDB Compliance Policy.

4.11 **"IsDB AML/CFT/KYC/Questionnaire/Form"**: see Attachment/ Annex.

5. Eligible Materials, Equipment, and Services

5.1 The materials, equipment and services to be supplied under the Contract and financed by IsDB may have their origin in any country subject to the restrictions specified in Section V, Eligible Countries. At the Employer's request, Proposers may be required to provide evidence of the origin of materials, equipment and services.

B. CONTENTS OF RFP DOCUMENT

6. Sections of RFP Document

6.1 The RFP Document consists of Parts 1, 2, and 3, which include all the sections indicated below, and should be read in conjunction with any Addenda issued in accordance with **ITP 8**:

PART 1 Request for Proposal Procedures

Section I - Instructions to Proposers (ITP)
Section II - Proposal Data Sheet (PDS)
Section III - Evaluation and Qualification Criteria
Section IV - Proposal Forms
Section V - Eligible Countries
Section VI - IsDB Policy-Corrupt and Fraudulent Practices

PART 2 Employer's Requirements

Section VII - Employer's Requirements

PART 3 Conditions of Contract and Contract Forms

Section VIII - General Conditions

Section IX - Particular Conditions

Section X - Contract Forms

6.2 The Specific Procurement Notice, Notice of Request for Proposals (RFP) issued by the Employer, is not part of this RFP Document.

6.3 Unless obtained directly from the Employer, the Employer is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre-Proposal meeting (if any), or Addenda to the RFP Document in accordance with **ITP 8**. In case of any contradiction, documents obtained directly from the Employer shall prevail.

6.4 The Proposer is expected to examine all instructions, forms, terms, and specifications in the RFP Document and to furnish with its Proposal all information or documentation as is required by the RFP Document.

7. Clarification of RFP Document, Site Visit, Pre-Proposal Meeting

7.1 A Proposer requiring any clarification of the RFP Document shall contact the Employer in writing at the Employer's address specified **in the PDS** or raise its enquiries during the pre-Proposal meeting if provided for in accordance with **ITP 7.4**. The Employer will respond to any request for clarification, provided that such request is received prior to the deadline for submission of Proposals within a period specified **in the PDS.** The Employer shall forward copies of its response to all Proposers who have acquired the RFP Document in accordance with **ITP 6.3**, including a description of the inquiry but without identifying its source. If so, specified **in the PDS**, the Employer shall also promptly publish its response at the web page identified **in the PDS**. Should the Employer deem it necessary to amend the RFP Document as a result of a request for clarification, it shall do so following the procedure under **ITP 8**.

7.2 The Proposer is advised to visit and examine the Site of the Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Proposal and entering into a contract. The costs of visiting the site shall be at the Proposer's own expense.

7.3 The Proposer and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Proposer, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

7.4 The Proposer's designated representative is invited to attend a pre-Proposal meeting and/or a site visit, if provided for **in the PDS**. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage. Nonattendance at the pre-Proposal meeting will not be a cause for disqualification of a Proposer.

7.5 The Proposer is requested to submit any questions in writing, to reach the Employer not later than one week before the meeting.

7.6 Minutes of the pre-Proposal meeting, including the text of the questions raised without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Proposers who have acquired the RFP Document in accordance with **ITP 6.3**. Any modification to the RFP Document that may become necessary as a result of the pre-Proposal meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to **ITP 8** and not through the minutes of the pre-Proposal meeting.

8. Amendment of RFP Document

8.1 At any time prior to the deadline for submission of Proposals, the Employer may amend the RFP Document by issuing addenda.

8.2 Any addendum issued shall be part of the RFP Document and shall be communicated in writing to all who have obtained the RFP Document from the Employer in accordance with **ITP 6.3.** The Employer shall also promptly publish the addendum on the Employer's web page in accordance with **ITP 7.1.**

8.3 To give prospective Proposers reasonable time in which to take an addendum into account in preparing their Proposals, the Employer may, at its discretion, extend the deadline for the submission of Proposals, pursuant to **ITP 23.2.**

9. Cost of Proposals

9.1 The Proposer shall bear all costs associated with the preparation and submission of its Proposal, and the Employer will in no case be responsible or liable for those costs.

10. Contacting the Employer

10.1 From the time of Proposal opening to the time of Contract award, if any Proposer wishes to contact the Employer on any matter related to the Proposal, it should do so in writing.

10.2 If a Proposer tries to directly influence the Employer or otherwise interfere in the Proposal evaluation process and the Contract award decision, its Proposal may be rejected.

11. Language of Proposals

11.1 Unless otherwise specified **in the PDS**, the Proposal prepared by the Proposer and all correspondence and documents related to the Proposal exchanged by the Proposer and the Employer shall be written in the English Language, or, **if the PDS** so provides, in either one of two languages specified there. Any printed literature furnished by the Proposer as part of its Proposal may be in a language not specified **in the PDS,** as long as such literature is accompanied by a translation of its pertinent passages into the language of the Proposal, in which case, for purposes of interpretation of the Proposal, the translation shall govern.

C. PREPARATION OF PROPOSALS

12. Documents Comprising the Proposal

12.1 The Proposal shall comprise two Parts, namely the Technical Part and the Financial Part. These two Parts shall be submitted simultaneously in two separate sealed envelopes (single-stage, two-envelope RFP process). One envelope shall contain only information relating to the Technical Part and the other, only information relating to the Financial Part. These two envelopes shall be enclosed in a separate sealed outer envelope marked "Original Proposal".

12.2 The Technical Part of the Proposal submitted by the Proposer shall comprise the following:

(a) **Letter of Proposal** - Technical Part, prepared in accordance with **ITP 13;**

(b) **Security**: Proposal Security or Proposal-Securing declaration, in accordance with **ITP 19;**

(c) alternative technical proposals in accordance with **ITP 14**;

(d) written confirmation authorizing the signatory of the Proposal to commit the Proposer, in accordance with **ITP 21.1;**

(e) documentary evidence that the proposer continues to be eligible and qualified to perform the contract if its Proposal is accepted;

(f) documentary evidence in accordance with **ITP 18** that the Works offered by the Proposer conform to the RFP Document;

(g) method statements, equipment, personnel, schedule and any other information as stipulated in Section IV, Proposal Forms;

(h) Details of any departures in their Technical Part from the RFP documents;

(i) in the case of a technical proposal submitted by a JV, JV agreement, or letter of intent to enter into a JV including a draft agreement, indicating at least the parts of the Works to be executed by the respective partners;

(j) list of subcontractors, in accordance with **ITP 18.3**; and

(k) any other document required **in the PDS.**

12.3 The Financial Part of the Proposal submitted by the Proposer shall comprise the following:

(a) **Letter of Proposal -** Financial Part prepared in accordance with **ITP 13**;

(b) **Schedule of Rates and Prices (if any):** completed in accordance with **ITP 15** and **ITP 16**;

(c) **Alternative Proposal – Financial Part:** if permissible in accordance with **ITP 14**;

(d) **Financial Disclosure:** The Proposer shall furnish in the Letter of Proposal information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Proposal; and

(e) **Other:** any other document required **in the PDS**.

12.4 The Technical Part shall not include any financial information related to the Proposal price. Where material financial information related to the Proposal price is contained in the Technical Part, the Proposal shall be declared non-responsive.

12.5 The Proposer shall furnish in the Letter of Proposal: Technical Part three names of the potential Dispute Adjudication Board (DAB) members and attach their curriculum vitae. The list of potential DAB members proposed by the Employer (Contract Data 20.3) and by the Proposer (Letter of Proposal) shall be subject to Bank's No-objection.

13. Letter of Proposal, and Schedules

13.1 The Proposer shall complete the Letter of Proposal – Technical Part and Letter of Proposal - Financial Part using the relevant forms furnished in Section IV, Proposal Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under **ITP 21.3**. All blank spaces shall be filled in with the information requested.

14. Alternative Technical Proposals

14.1 Alternative Proposal - Technical Part: the Proposer wishing to offer alternative technical Proposal shall (i) document that the proposed technical alternatives are to the benefit of the Employer, that they fulfill the principal objectives of the contract, and that they meet the basic performance and technical criteria specified in the RFP Documents; and (ii) further provide all information necessary for a complete technical evaluation of the alternative by the Employer, including as relevant drawings, design calculations, technical specifications, and proposed construction methodology and other relevant details.

14.2 Alternative Proposal - Financial Part: The Proposer submitting alternative technical Proposal shall provide all information necessary for a complete financial evaluation of the alternative by the Employer, including breakdown of prices relevant to the offered technical alternative and in the manner and detail called for in the Schedule of Rates and Prices (if any) included in Section IV – Proposal Forms.

14.3 Only the technical alternatives, if any, of the Proposer with the Most Advantageous Proposal conforming to the basic performance and technical criteria specified in the RFP Documents shall be considered by the Employer.

15. Proposal Prices

15.1 Unless otherwise **specified in the PDS,** Proposers shall quote for the entire Works and Operation Service on a "single responsibility" basis such that the total lump sum Proposal price, subject to any adjustments in accordance with the Contract, covers all the Contractor's obligations mentioned in or to be reasonably inferred from the RFP Document in respect of the design, manufacture, including procurement and subcontracting (if any), delivery, construction and completion of the Works and operation and maintenance of the Works as set out in the Conditions. This includes all requirements under the Contractor's responsibilities for testing, pre-commissioning and commissioning (as applicable) of the Works and, where so required by the RFP Document, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the RFP Document, all in accordance with the requirements of the General Conditions.

15.2 Proposers shall give a breakdown of the prices in the manner and detail called for in the Schedule of Priced Activities and Sub-activities included in Section IV, Proposal Forms with further breakdown prices for sub activities, as appropriate. The total of the prices of the items in the Schedule of Priced Activities is the Proposer's offer to complete the works on a "single responsibility" basis. The cost of any items that the Proposer may have omitted is deemed to be included in the price of other items in the Schedule of Priced Activities and Sub-activities and will not be paid for separately by the Employer.

15.3 The prices shall be either fixed or adjustable as specified **in the PDS**.

15.4 In the case of **Fixed Price**, prices quoted by the Proposer shall be fixed during the Proposer's performance of the contract and not subject to variation on any account. A Proposal submitted with an adjustable price quotation will be treated as non-responsive and rejected.

15.5 In the case of **Adjustable Price**, prices quoted by the Proposer shall be subject to adjustment during performance of the contract to reflect changes in the cost elements in accordance with the procedures specified in the corresponding Appendix to the Contract Agreement. A Proposal submitted with a fixed price quotation will not be rejected, but the price adjustment will be treated as zero. Proposers are required to indicate the source of labor and material indices in the corresponding Form in Section IV, Proposal Forms.

15.6 If so, indicated in **ITP 1.1**, Proposals are being invited for individual lots (contracts) or for any combination of lots (packages). Proposers wishing to offer any price reduction (discount) for the award of more than one Contract shall specify in their Letter of Proposal the price reductions applicable to each package, or alternatively, to individual Contracts within the package, and the manner in which the price reductions will apply. **However, discounts on the condition of award of more than one contract will not be considered for Proposal evaluation purpose.**

15.7 Proposers wishing to offer any unconditional discount shall specify in their Letter of Proposal the offered discounts and the manner in which price discounts will apply.

15.8 All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 28 days prior to the deadline for submission of Proposals, shall be included in the Proposal price submitted by the Proposer.

16. Proposal Currencies

16.1 The currency (ies) of the Proposal and the currency (ies) of payments shall be the same and shall be as specified **in the PDS**.

16.2 Proposers may be required by the Employer to justify, to the Employer's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the Schedule of Priced Activities and Sub-activities and shown in the Schedule of Adjustment Data in the Appendix to the Proposal are reasonable, in which case a detailed breakdown of the foreign currency requirements shall be provided by Proposers.

17. Documents Establishing the Qualification of the Proposer

17.1 In accordance with Section III, Evaluation and Qualification Criteria, to establish that the Proposer continues to meet the qualification criteria used at the time of Initial Selection the Proposer shall provide updated information on any assessed aspect that changed from that time including on Sexual Exploitation and Abuse (SEA) / Sexual Harassment (SH) disqualification status.

17.2 If a margin of preference applies as specified in accordance with **ITP 39.1**, Proposers, individually or in joint ventures, applying for eligibility for preference shall supply all information required to satisfy the criteria for eligibility specified in accordance with **ITP 39.1**.

17.3 Any change in the structure or formation of a Proposer after being initially selected and invited to submit Proposals (including, in the case of a JV, any change in the structure or formation of any member and also including any change in any Specialized Subcontractor) shall be subject to the written approval of the Employer prior to the deadline for submission of Proposals. Such approval shall be denied if (i) a Proposer proposes to associate with a disqualified Proposer or in case of a disqualified joint venture, any of its members; (ii) as a consequence of the change, the Proposer no longer substantially meets the qualification criteria set forth in the Initial Selection Documents Section or (iii) no longer continues to be in the list of Initially Selected Proposers as a result of the Employer's re-evaluation of the Application in accordance with criteria specified in the Initial Selection Documents; or (iv) in the opinion of the Employer, the change may result in a substantial reduction in competition. Any such change should be submitted to the Employer not later than fourteen (14) days after the Notice of Request for Proposals.

18. Documents Establishing Conformity of the Works

18.1 Pursuant to **ITP 12.2 (f),** the Proposer shall furnish, as part of its Proposal, documents establishing the conformity to the RFP Documents of the Works that the Proposer proposes to design, and build under the Contract.

18.2 The documentary evidence of the conformity of the Works and Operation Service with the RFP documents may be in the form of literature, drawings and data, and shall include:

(a) the documents specified in Section IV (Proposal Forms)- Technical Proposal;

(b) detailed description of the essential technical and functional / performance characteristics of the proposed Works, in response to the Employer's Requirements.

(c) adequate evidence demonstrating the substantial responsiveness of the Works and the Operation Service to the Employer's Requirements. Proposers shall note that standards for workmanship, materials and equipment designated by the Employer in the RFP Document are intended to be descriptive (establishing standards of quality and performance) only and not restrictive. The Proposer may substitute alternative standards, in its technical proposal, provided that it demonstrates to the Employer's satisfaction that the substitutions are substantially equivalent or superior to the standards designated in the Performance / Functional requirements specified by the Employer.

18.3 The Proposer shall be responsible for ensuring that any proposed subcontractor complies with the requirements of **ITP 4**, and that any Works to be provided by the subcontractor comply with the requirements of **ITP 5** and **ITP 18.1.**

19. Securing the Proposal

19.1 The Proposer shall furnish as part of its Proposal, either a Proposal-Securing Declaration or a Proposal Security as specified **in the PDS**, in original form and, in the case of a Proposal Security, in the amount and currency specified **in the PDS**.

19.2 A Proposal-Securing Declaration shall use the form included in Section IV, Proposal Forms.

19.3 If a Proposal Security is specified pursuant to **ITP 19.1**, the Proposal security shall be a demand guarantee in any of the following forms at the Proposer's option:

(a) an unconditional guarantee issued by a bank or a non-bank financial institution (such as an insurance, bonding or surety company);

(b) an irrevocable letter of credit;

(c) a cashier's or certified check; or

(d) another security indicated in the **PDS**,

from a reputable source from an eligible country. If an unconditional guarantee is issued by a non-bank financial institution located outside the Employer's Country the issuing non-bank financial institution shall have a correspondent financial institution located in the Employer's Country to make it enforceable unless the Employer has agreed in writing, prior to Proposal submission, that a correspondent financial institution is not required.

19.4 In the case of a bank guarantee, the Proposal Security shall be submitted either using the Proposal Security Form included in Section IV, Proposal Forms or in another substantially similar format approved by the Employer prior to Proposal submission. In either case, the form must include the complete name of the Proposer. The Proposal Security shall be valid for twenty-eight days (28) beyond the original date of expiry of the Proposal validity, or beyond any extended date if requested under **ITP 20.2.**

19.5 If a Proposal Security or a Proposal-Securing Declaration is specified pursuant to **ITP 19.1**, any Proposal not accompanied by a substantially responsive Proposal Security or Proposal-Securing Declaration shall be rejected by the Employer as non-responsive.

19.6 If a Proposal Security is specified in accordance with **ITP 19.1**, the Proposal Security of the successful Proposer shall be returned as promptly as possible once the successful Proposer has signed the Contract and furnished the required Performance Security, and if required in the **PDS**, the Environmental and Social (ES) Performance Security.

19.7 The Proposal Security may be forfeited:

(a) if a Proposer withdraws its Proposal prior to the expiry date of the Proposal validity specified by the Proposer on the Letter of Proposal or any extended date provided by the Proposer; or

(b) if the successful Proposer fails to**:**

(i) sign the Contract in accordance with **ITP 53**; or

(ii) furnish a Performance Security and if required in the PDS, the Environmental and Social (ES) Performance Security, in accordance with **ITP 54**.

19.8 The Proposal Security or the Proposal-Securing Declaration of a JV shall be in the name of the JV that submits the Proposal. If the JV has not been legally constituted into a legally enforceable JV at the time of submission of Proposals, the Proposal Security or the Proposal-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in **ITP 4.1.**

19.9 If a Proposal Security is not required **in the PDS**, and:

a. if a Proposer withdraws its Proposal prior to the expiry date of the Proposal validity specified by the Proposer on the Letter of Proposal or any extended date provided by the Proposer; or

b. if the successful Proposer fails to:

(i) sign the Contract in accordance with **ITP 53;** or

(ii) furnish a performance security and if required in the PDS, the Environmental and Social (ES) Performance Security, in accordance with **ITP 54**,

the Employer may, if provided for in the **PDS**, declare the Proposer disqualified to be awarded a contract by the Employer for a period of time as stated in the **PDS**.

20. Period of Validity of Proposals

20.1 Proposals shall remain valid until the date specified **in the PDS** or any extended date if amended by the Employer in accordance with ITP 8. A Proposal that is not valid until the date specified **in the PDS,** or any extended date if amended by the Employer in accordance with ITP 8, shall be rejected by the Employer as nonresponsive.

20.2 In exceptional circumstances, prior to the date of expiry of the Proposal validity, the Employer may request that the Proposers extend the date of validity until a specified date. The request and the responses to the request shall be made in writing. A Proposer may refuse the request without risking execution of the Proposal-Securing Declaration or forfeiting the Proposal Security. Except as provided in **ITP 20.3**, a Proposer agreeing to the request will not be required or permitted to modify its Proposal, but will be required to ensure that the Proposal Security is extended for a correspondingly longer period, pursuant to **ITP 19.4**.

20.3 In the case of fixed price contracts, if the award is delayed by a period exceeding fifty-six (56) days beyond the date of expiry of the Proposal validity specified in accordance with ITP 20.1, the contract price will be adjusted as specified **in the PDS**. Proposal evaluation will be based on the Proposal prices without taking into consideration the above correction.

21. Format and Signing of Proposal

21.1 The original and all copies of the Proposal, each consisting of the documents listed in **ITP 12**, shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Proposer. The authorization must be in writing as specified **in the PDS**, and included in the Proposal pursuant to **ITP 12.2(d).** The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Proposal where entries or amendments have been made shall be signed or initialed by the person signing the Proposal.

21.2 In case the Proposer is a JV, the Proposal shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.

21.3 The Proposal shall contain no interlineations, erasures, or overwriting, except to correct errors made by the Proposer, in which case such corrections shall be initialed by the person or persons signing the Proposal.

21.4 The Proposer shall furnish in the Proposal Submission Form (Section IV) information regarding commissions or gratuities, if any, paid or to be paid to agents relating to this procurement and to the execution of the Contract should the Proposer be successful.

D. SUBMISSION OF PROPOSALS

22. Submission, Sealing and Marking of Proposals

22.1 Unless the **PDS** states that Proposals are to be submitted electronically the following procedures shall apply.

a. The Proposer shall deliver the Proposal in two separate, sealed envelopes. One envelope containing the Technical Part and the other the Financial Part. These two envelopes shall be enclosed in a sealed outer envelope and clearly marked "Proposal - Original".

b. In addition, the Proposer shall prepare copies of the Proposal, in the number specified **in the PDS**. Copies of the Technical Part shall be placed in a separate sealed envelope marked "Copies: Technical Part". Copies of the Financial Part shall be placed in a separate sealed envelope marked "Copies: Financial Part". The Proposer shall place both of these envelopes in a separate, sealed outer envelope marked "Proposal - Copies". In the event of any discrepancy between the original and the copies, the original shall prevail.

c. If alternative Proposals are permitted in accordance with **ITP 14**, the alternative Proposals shall be submitted as follows: the original of the alternative Proposal Technical Part shall be placed in a sealed envelope marked "Alternative Proposal – Technical Part" and the Financial Part shall be placed in a sealed envelope marked "Alternative Proposal – Financial Part" and these two separate sealed envelopes then enclosed within a sealed outer envelope marked "Alternative Proposal – Original", the copies of the alternative Proposal will be placed in separate sealed envelopes marked "Alternative Proposal – Copies Of Technical Part", and "Alternative Proposal – Copies Of Financial Part" and enclosed in a separate sealed outer envelope marked "Alternative Proposal - Copies"

22.2 The inner and outer envelopes shall:

a. bear the name and address of the Proposer;

b. be addressed to the Employer, at the address given **in the PDS** for **ITP 23.1**; and

c. bear the Contract(s) name, the Invitation for Proposals (RFP) title and number, as specified **in the PDS** for **ITP 1.1**, and the statement "Do Not Open Before [time and date]," to be completed with the time and date specified **in the PDS** for **ITP 23.1**.

22.3 If the outer envelope is not sealed and marked as required by **ITP 22.1** and **ITP 22.2,** the Employer will assume no responsibility for the Proposal's misplacement or premature opening.

23. Deadline for Submission of Proposals

23.1 Proposals must be received by the Employer at the address specified, and no later than the time and date specified, **in the PDS**. Proposers have the option of submitting their Proposals electronically if specified **in the PDS**.

23.2 The Employer may, at its discretion, extend the deadline for submission of Proposals by amending the RFP Documents in accordance with **ITP 8.3**, in which case all rights and obligations of the Employer and Proposers will thereafter be subject to the deadline as extended.

24. Late Proposals

24.1 The Employer shall not consider any Proposal that arrives after the deadline for submission of Proposals, in accordance with **ITP 23.** Any Proposal received by the Employer after the deadline for submission of Proposals shall be declared late, rejected, and returned unopened to the Proposer.

25. Withdrawal, Substitution, and Modification of Proposals

25.1 A Proposer may withdraw, substitute, or modify its Proposal after it has been submitted, and before the deadline for submission of proposals, by sending a written notice, duly signed by an authorized representative, including a copy of the authorization in accordance with **ITP 21.2,** (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Proposal must accompany the respective written notice. All notices must be:

(a) prepared and submitted in accordance with **ITP 21** and **ITP 22** (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked "Withdrawal," "Substitution," "Modification;" and

(b) received by the Employer prior to the deadline prescribed for submission of Proposals, in accordance with **ITP 23**.

E. OPENING OF TECHNICAL PROPOSALS

26. Opening of Technical Proposals by Employer

26.1 Except as in the cases specified in **ITP 24** and **ITP 25**, the Employer shall conduct the Proposal opening in public, in the presence of Proposers` designated representatives and anyone who chooses to attend, and at the address, date and time specified **in the PDS**. Any specific electronic Proposal opening procedures, if permitted, shall be as specified **in the PDS**.

26.2 First, the written notice of withdrawal in the envelopes marked "Withdrawal" shall be opened and read out and the envelope with the corresponding Proposal shall not be opened but returned to the Proposer. No Proposal withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Proposal opening.

26.3 Next, envelopes marked "Substitution" shall be opened and read out and exchanged with the corresponding Technical Proposal being substituted, and the substituted Proposal shall not be opened, but returned to the Proposer. No Proposal substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Proposal opening.

26.4 Envelopes marked "Modification" shall be opened and read out with the corresponding Proposal. No Proposal modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Proposal opening.

26.5 Next, all other envelopes marked "Technical Part" shall be opened one at a time. All envelopes marked "Financial Part" shall remain sealed and kept by the Employer in safe custody until they are opened, at a later public opening, following the evaluation of the Technical Part of the Proposals. On opening the Technical Part envelopes, the Employer shall read out: the name of the Proposer and whether there is a modification; the presence or absence of a Proposal security or a Proposal-Securing Declaration; and other details as the Employer, at its discretion, may consider appropriate.

26.6 Only Technical Parts of Proposals and Alternative Proposal - Technical Parts that are opened and read out at Proposal opening shall be considered further. At the Proposal opening the Employer shall neither discuss the merits of any Proposal nor reject any Proposal (except for late Proposals, in accordance with **ITP 24.1**.

26.7 The Employer shall prepare a record of the Technical Parts of public opening that shall include, as a minimum: the name of the Proposer and whether there is a withdrawal, substitution, or modification. The Proposers' representatives who are present shall be requested to sign the record. The omission of a Proposer's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Proposers who submitted Proposals in time, and posted online when electronic procurement is permitted

F. EVALUATION OF PROPOSALS – GENERAL PROVISIONS

27. Confidentiality

27.1 Information relating to the evaluation of the Technical Part shall not be disclosed to Proposers or any other persons not officially concerned with the RFP process until the Notification of evaluation of the Technical Part in accordance with **ITP 33.** Information relating to the evaluation of the Financial Part, the evaluation of combined Technical Part and Financial Part, and the recommendation of contract award shall not be disclosed to Proposers or any other persons not officially concerned with such process until the Notification of Intention to Award the Contract is transmitted to Proposers in accordance with **ITP 49.1**.

27.2 Any effort by a Proposer to influence the Employer in the evaluation of the Proposals may result in the rejection of its Proposal.

27.3 Notwithstanding **ITP 27.1 and ITP 27.2**, from the time of Proposal opening to the time of Contract award, if any Proposer wishes to contact the Employer on any matter related to the RFP process, it should do so in writing.

28. Clarification of Proposals

28.1 To assist in the examination, evaluation, and comparison of the Proposals, and qualification of the Proposers, the Employer may, at its discretion, ask any Proposer for a clarification of its Proposal. Any clarification submitted by a Proposer that is not in response to a request by the Employer shall not be considered. The Employer's request for clarification and the response shall be in writing.

28.2 If a Proposer does not provide clarifications of its Proposal by the date and time set in the Employer's request for clarification, its Proposal may be rejected.

29. Deviations, Reservations, and Omissions

29.1 During the evaluation of Proposals, the following definitions apply:

a. "Deviation" is a departure from the requirements specified in the RFP document;

b. "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the RFP document; and

c. "Omission" is the failure to submit part or all of the information or documentation required in the RFP document.

G. EVALUATION OF TECHNICAL PARTS OF PROPOSALS

30. Determination of Responsiveness

30.1 The Employer will examine the Technical Parts, including any alternatives submitted by Proposers, to determine whether they are complete, have been properly signed, and are generally in order.

30.2 The Employer's determination of a Technical Part's substantial responsiveness is to be based on the contents of the Proposal itself. For purposes of this determination, a substantially responsive Proposal is one that materially conforms to the requirements of the RFP Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:

a. if accepted, would:

(i) affect in any substantial way the scope, quality, or performance of the Works specified in the Contract; or

(ii) limit in any substantial way, inconsistent with the RFP Document, the Employer's rights or the Proposer's obligations under the proposed Contract; or

b. if rectified, would unfairly affect the competitive position of other Proposers presenting substantially responsive Proposals.

.

30.3 Provided that a Technical Part is substantially responsive, the Employer may waive any nonmaterial nonconformity in the Proposal.

30.4 Provided that a Proposal is substantially responsive, the Employer may request that the Proposer submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Proposal related to documentation requirements.

31. Evaluation of Technical Parts

31.1 The Employer's evaluation of technical proposals will be carried out as specified in Section III, Evaluation and Qualification Criteria.

31.2 The scores to be given to technical factors and sub factors are specified in the **PDS**.

32. Evaluation of Proposer's Qualification

32.1 The Employer shall determine to its satisfaction that, on the basis of updated documentary evidence submitted in accordance with **ITP 12.2 (e),** and Section III- Evaluation and Qualification Criteria, the Proposer continues to be qualified to satisfactorily perform the Contract.

32.2 Prior to Contract award, the Employer will verify that the successful Proposer (including each member of a JV) is not disqualified by the Bank due to noncompliance with contractual SEA/SH prevention and response obligations. The Employer will conduct the same verification for each subcontractor proposed by the successful Proposer. If any proposed subcontractor does not meet the requirement, the Employer will require the Proposer to propose a replacement subcontractor.

32.3 Only Proposals that are both substantially responsive to the RFP document and are qualified shall have their envelopes marked "FINANCIAL PART" opened at the second public opening.

33. Notification of evaluation of Technical Parts

33.1 Following the completion of the evaluation of the Technical Parts of Proposals, the Employer shall make the following notifications:

(a) Notify in writing those Proposers whose Proposals were considered substantially non-responsive to the requirements in the RFP, advising them of the following information:

(i) the grounds on which their Technical Part has been considered to be non-responsive;

(ii) their envelope marked "Financial Part" will be returned to them unopened after the completion of the Proposal evaluation process and the signing of the Contract;

(b) simultaneously, notify in writing those Proposers whose Proposals were considered substantially responsive to the requirements in the RFP, advising them that their Proposal has been evaluated as substantially responsive to the RFP; and

(c) notify all Proposers in accordance with one of the following two options:

(i) Option 1: when **BAFO or negotiations is not to be applied,** the date, time and location of the public opening of the envelopes marked 'Financial Part", or;

(ii) Option 2: when BAFO or negotiations apply as specified **in the PDS ITP 44** and **ITP 46** respectively, that: (i) the envelopes marked 'Financial Part' will not be opened in public, but in the presence of a Probity Assurance Provider appointed by the Employer, and that (ii) the announcement of the names of the Proposers whose Financial Parts will be opened and the total Proposal prices will be deferred to the time that the Notification of Intention to Award the contract is issued.

H. OPENING OF FINANCIAL PARTS

34. Public Opening of Financial Parts when BAFO or negotiations do not apply

34.1 When BAFO or negotiations do not apply as specified **in the PDS**, the Financial Parts will be opened in public by the Employer in the presence of Proposers, or their designated representatives, and anyone else who chooses to attend. The opening date shall be no less than ten (10) Business Days from the date of notification of the results of the technical evaluation, described in **ITP 33.1**. However, if the Employer receives a complaint on the results of the technical evaluation within the ten (10) Business Days, the opening date shall be subject to **ITP 55.1**. Each envelope marked "Financial Part" shall be inspected to confirm that it has remained sealed and unopened. These envelopes shall then be opened by the Employer. The Employer shall read out the names of each Proposer, the technical score, the total Proposal prices, per lot (contract) if applicable, including any discounts, and any other details as the Employer may consider appropriate. Only discounts read out at the public opening shall be considered for evaluation. The Letter of Proposal - Financial Part and the Price Schedules are to be initialed by representatives of the Employer attending the public opening in the manner specified in the **PDS**.

34.2 The Employer shall prepare a record of the Financial Part of the Proposal opening that shall include, as a minimum:

(a) the name of the Proposers whose Financial Part was opened;

(b) the Proposal prices, per lot (contract) if applicable, including any discounts.

34.3 The Proposers whose envelopes marked "Financial Part" have been opened, or their representatives who are present, shall be requested to sign the record. The omission of a Proposer's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Proposers.

35. Opening of Financial Parts when BAFO or negotiations apply

35.1 When, **as specified in the PDS**, BAFO or negotiations apply the Financial Parts will not be opened in public and will be opened in the presence of a Probity Assurance Provider appointed by the Employer.

35.2 At the opening each of the envelopes marked "Financial Part" shall be inspected to confirm that they have remained sealed and unopened. These envelopes shall then be opened by the Employer. The Employer shall record the names of each Proposer, and the total Proposal prices and any other details as the Employer may consider appropriate. The Letter of Proposal - Financial Part and the Price Schedules are to be initialed by a representative of the Employer attending the public opening and by the Probity Assurance Provider.

35.3 The Employer shall prepare a record of the opening of the Financial Part envelopes that shall include, as a minimum:

(a) the name of the Proposers whose Financial Part was opened;

(b) the Proposal prices including any discounts. And

(c) the Probity Assurance Provider's report of the opening of the Financial Part.

35.4 The Probity Assurance Provider shall sign the record. The contents of the envelopes marked 'Financial Part' and the record of the opening shall be kept in safe custody by the Employer and not disclosed to anyone until the time of the transmission of the Notice of Intention to Award the contract.

I. EVALUATION OF FINANCIAL PART

36. Nonmaterial Nonconformities

36.1 Provided that a Proposal is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Proposal Price. To this effect, the Proposal Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component by adding the average price of the item or component quoted by substantially responsive Proposers. If the price of the item or component cannot be derived from the price of other substantially responsive Proposers, the Employer shall use its best estimate.

37. Arithmetic Correction

37.1 The Employer shall correct arithmetical errors on the following basis:

(a) **Priced Sub-activity Schedule:** where there are errors between the total of the amounts given under the column for Sub-activity Price and the amount given under the total for the Sub-activity, the former shall prevail, and the latter will be corrected accordingly;

(b) **Priced Activity Schedule:** where there are errors between the total of the amounts given under the column for the Activity Price and the amount given under the total price of Activities, the former shall prevail, and the latter will be corrected accordingly;

(c) where there are errors between the total of the amounts in the Priced Sub-activity Schedule and the corresponding amount in the Priced Activity Schedule, the former shall prevail, and the latter will be corrected accordingly;

(d) **Grand Summary:** where there are errors between the total price of Activities in the Schedule of Priced Activities and the amount given in Grand Summary, the former shall prevail, and the latter will be corrected accordingly; and

(e) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) to (d) above.

37.2 A Proposer shall be requested to accept the correction of arithmetical errors. Failure to accept the correction in accordance with **ITP 37.1** shall result in the rejection of the Proposal.

38. Conversion to Single Currency

38.1 For evaluation and comparison purposes, the currency (ies) of the Proposal shall be converted into a single currency as specified **in the PDS.**

39. Margin of Preference

39.1 Unless otherwise specified **in the PDS,** a margin of preference shall not apply.

40. Evaluation Process Financial Parts

40.1 To evaluate each Proposal's Financial Part, the Employer shall consider the following:

(a) the Proposal price, excluding provisional sums and the provision, if any, for contingencies in the Priced Activity Schedules;

(b) price adjustment for correction of arithmetic errors in accordance with **ITP 37.1**;

(c) price adjustment due to discounts offered in accordance with **ITP 15.7**;

(d) price adjustment due to quantifiable nonmaterial nonconformities in accordance with **ITP 36.1**;

(e) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with **ITP 38.1**; and

(f) the additional evaluation factors indicated in the PDS and detailed in Section III, Evaluation and Qualification Criteria.

40.2 If price adjustment is allowed in accordance with **ITP 15.5**, the estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Proposal evaluation.

40.3 If this RFP allows Proposers to quote separate prices for different lots (contracts), each lot will be evaluated separately to determine the combination of proposals offering the most Value-for-Money using the methodology specified in Section III, Evaluation and Qualification Criteria. **Discounts that are conditional on the award of more than one lot, or slice shall not be considered for proposal evaluation.**

41. Abnormally Low Proposals

41.1 An Abnormally Low Proposal is one where the Proposal price, in combination with other elements of the Proposal, appears so low that it raises material concerns as to the capability of the Proposer to perform the Contract for the offered Proposal Price.

41.2 In the event of identification of a potentially Abnormally Low Proposal, the Employer shall seek written clarifications from the Proposer, including detailed price analyses of its Proposal price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the RFP Document.

41.3 After evaluation of the price analyses, in the event that the Employer determines that the Proposer has failed to demonstrate its capability to perform the Contract for the offered Proposal Price, the Employer shall reject the Proposal.

42. Unbalanced or Front-Loaded Proposals

42.1 If the Proposal that is evaluated as the lowest evaluated cost is, in the Employer's opinion, seriously unbalanced or front loaded the Employer may require the Proposer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Proposal prices with the scope of the Works, proposed methodology, schedule and any other requirements of the RFP Document.

42.2 After the evaluation of the information and detailed price analyses presented by the Proposer, the Employer may:

(a) accept the Proposal, or

(b) if appropriate, require that the total amount of the Performance Security be increased, at the expense of the Proposer, to a level not exceeding twenty percent (20%) of the Contract Price; or

(c) reject the Proposal.

J. EVALUATION OF COMBINED TECHNICAL AND FINANCIAL PART

43. Evaluation of Combined Technical and Financial Proposals

43.1 The Employer's evaluation of responsive Proposals will take into account technical factors, in addition to cost factors in accordance with Section III –Evaluation and Qualification Criteria. The weight to be assigned for the technical factors and cost, is specified **in the PDS**. The Employer will rank the proposals based on the evaluated proposal score (B).

44. Best and Final Offer (BAFO)

44.1 After completion of the combined technical and financial evaluation of proposals, if **specified in the PDS**, the Employer may invite those Proposers to submit their BAFOs. The procedure for submitting BAFOs will be **specified in the PDS**. BAFO is a final opportunity for Proposers to improve their Proposals without changing the specified business function and performance requirements in accordance with the invitation to Submit Combined Technical and Financial Proposals. Proposers are not obliged to submit a BAFO. Where BAFO is used there will be no negotiation after BAFO.

44.2 BAFO will apply a two-envelope procurement process. The submission of BAFOs, opening of the Technical Parts and Financial Parts and the evaluation of Proposals will follow the procedures described for the Technical, Financial and Combined evaluation above, as appropriate.

45. Proposal with Most Value-for-Money

45.1 The Proposal offering the Most Value-for Money is the Proposal of the Proposer that meets the Qualification Criteria, and whose Proposal has been determined to be:

(a) substantially responsive to the RFP; and

(b) the best evaluated Proposal i.e. the highest scoring Proposal, in the combined technical and financial evaluation.

46. Negotiations

46.1 If specified **in the PDS**, the Employer may conduct negotiations following the evaluation of Proposals and before the final contract award. The procedure of the negotiations will be **specified in the PDS**.

46.2 Negotiations shall be held in the presence of Probity Assurance Provider appointed by the Employer.

46.3 Negotiations may address any aspect of the contract so long as they do not change the specified business function and performance requirements.

46.4 The Employer may negotiate first with the Proposer that has the Proposal offering the Most Value-for-Money. If the negotiations are unsuccessful the Employer may negotiate with the Proposer that has the next best Most Value-for-Money Proposal, and so on down the list until a successful negotiated outcome is achieved. Alternatively, the Employer may negotiate simultaneously with the first and second ranked Proposers.

47. Employer's Right to Accept Any Proposal, and to Reject Any or All Proposals

47.1 The Employer reserves the right to accept or reject any Proposal, and to annul the RFP process and reject all Proposals at any time prior to contract award, without thereby incurring any liability to Proposers. In case of annulment, all Proposals submitted and specifically, Proposal securities shall be promptly returned to the Proposers.

48. Standstill Period

48.1 The Contract shall not be awarded earlier than the expiry of the Standstill Period. The Standstill Period shall be ten (10) Business Days unless extended in accordance with **ITP 52**. The Standstill Period commences the day after the date the Employer has transmitted to each Proposer the Notification of Intention to Award the Contract. Where only one Proposal is submitted, or if this contract is in response to an emergency situation recognized by IsDB, the Standstill Period shall not apply.

49. Notification of Intention to Award

49.1 The Employer shall send to each Proposer (that has not already been notified that it has been unsuccessful) the Notification of Intention to Award the Contract to the successful Proposer. The Notification of Intention to Award shall contain, at a minimum, the following information:

(a) the name and address of the Proposer submitting the successful Proposal;

(b) the Contract price of the successful Proposal;

(c) the total combined score of the successful Proposal;

(d) the names of all Proposers who submitted Proposals, and their proposal prices as readout and as evaluated prices and technical scores;

(e) a statement of the reason(s) the Proposal (of the unsuccessful Proposer to whom the notification is addressed) was unsuccessful;

(f) the expiry date of the Standstill Period; and

(g) instructions on how to request a debriefing or submit a complaint during the standstill period.

K. AWARD OF CONTRACT

50. Award Criteria

50.1 Subject to **ITP 47.1**, the Employer shall award the Contract to the Proposer with the Proposal offering the Most Value-for-Money, provided that the Proposer is determined to be eligible and qualified to perform the Contract satisfactorily.

51. Notification of Award

51.1 Prior to the date of expiry of the Proposal validity and upon expiry of the Standstill Period, specified in **ITP 48.1** or any extension thereof, and, upon satisfactorily addressing any complaint that has been filed within the Standstill Period, the Employer shall notify the successful Proposer, in writing, that its Proposal has been accepted. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Employer will pay the Supplier in consideration of the execution of the Contract (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price").

51.2 Within ten (10) Business days after the date of transmission of the Letter of Acceptance, the Employer shall publish the Contract Award Notice which shall contain, at a minimum, the following information:

(a) name and address of the Employer;

(b) name and reference number of the contract being awarded, and the selection method used;

(c) names of all Proposers that submitted Proposals, and their proposal prices as read out at Proposal opening, and as evaluated;

(d) name of Proposers whose Proposals were rejected and the reasons for their rejection;

(e) the name of the successful Proposer, the final total contract price, the contract duration and a summary of its scope; and

(f) successful Proposer's Beneficial Ownership Disclosure Form.

51.3 The Contract Award Notice shall be published in UNDB online or Dg Market website in addition to IsDB's external website and on the Employer's website if available.

51.4 Until a formal contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.

52. Debriefing by the Employer

52.1 On receipt of the Employer's Notification of Intention to Award referred to in **ITP 49**, an unsuccessful Proposer has three (3) Business Days to make a written request to the Employer for a debriefing. The Employer shall provide a debriefing to all unsuccessful Proposers whose request is received within this deadline.

52.2 Where a request for debriefing is received within the deadline, the Employer shall provide a debriefing within five (5) Business Days, unless the Employer decides, for justifiable reasons, to provide the debriefing outside this timeframe. In that case, the standstill period shall automatically be extended until five (5) Business Days after such debriefing is provided. If more than one debriefing is so delayed, the standstill period shall not end earlier than five (5) Business Days after the last debriefing takes place. The Employer shall promptly inform, by the quickest means available, all Proposers of the extended standstill period.

52.3 Where a request for debriefing is received by the Employer later than the three (3)-Business Day deadline, the Employer should provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of Public Notice of Award of contract. Requests for debriefing received outside the three (3)-day deadline shall not lead to extension of the standstill period.

52.4 Debriefings of unsuccessful Proposers may be done in writing or verbally. The Proposer shall bear their own costs of attending such a debriefing meeting.

53. Signing of Contract

53.1 The Employer shall send the successful Proposer the Contract Agreement and a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form shall be submitted within eight (8) Business Days of receiving this request.

53.2 The successful Proposer shall sign, date and return to the Employer, the Contract Agreement within twenty-eight (28) days of it receipt.

53.3 If permitted in the PDS and the Proposer has requested to form an SPV, the Contract shall be signed with the SPV. The Proposer shall provide within twenty-eight (26) days of receipt of the Letter of Acceptance from the Employer a certified copy of its constituent documents and evidence of its shareholding structure including the articles of association and shareholder agreement (if any).

54. Performance Security

54.1 Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the Employer, the successful Proposer shall furnish the performance security and, if specified in the **PDS**, the ES Performance Security, in accordance with the General Conditions, subject to **ITP 42.2 (b),** using for that purpose the Performance Security and ES Security Forms included in Section X, Contract Forms, or another form acceptable to the Employer. If the performance security furnished by the successful Proposer is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Proposer to be acceptable to the Employer. A foreign institution providing a bond shall have a correspondent financial institution located in the Employer's Country, unless the Employer has agreed in writing that a correspondent financial institution is not required.

54.2 Failure of the successful Proposer to submit the above-mentioned Performance Security and if required in the PDS, the Environmental and Social (ES) Performance Security, or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Proposal security. In that event the Employer may award the Contract to the Proposer with the next Most Value-for-Money Proposal.

55. Procurement Related Complaint

55.1 The procedures for making a Procurement-related Complaint are as specified in the **PDS**.

SECTION II – PROPOSAL DATA SHEET (PDS)

The following specific data for the proposed Works shall complement, supplement, or amend the provisions in the Instructions to Proposers (ITP). Whenever there is a conflict, the provisions herein shall prevail over those in ITP.

ITP REFERENCE	DESCRIPTION
A. GENERAL	
ITP 1.1	The reference number of the Request for Proposals is: TBD The Employer is: The Council for Development and Reconstruction (CDR) The name of the RFP or RFP/MC is: Expansion and Upgrade of Al-Ghadir Wastewater Treatment Plant Project – Phase I: Design, Build and Operate, including Two New Sea Outfalls and Inspection & Assessment of Existing Sea Outfalls. The number and identification of lots (contracts) comprising this RFP is: One Lot. The works under this lot include: a. the design, construction, commissioning, operation and maintenance of the upgraded Ghadir Wastewater Treatment Plant; b. the design, construction and operation of two new sea outfalls, namely Jnah (PS2-Sultan Ibrahim) Sea Outfall (Reference Design Provided) and Ramlet El Bayda (M1) Sea Outfall (Performance-Based Design); and c. the inspection, survey, condition assessment and rehabilitation recommendation of the two existing Ghadir sea outfalls.
ITP 1.3	Add paragraph k) "initially selected" means prequalified and "initial selection" means prequalification.
ITP 1.3 (a)	Electronic procurement is not applicable.
ITP 2.1	The Beneficiary is: The Republic of Lebanon represented by The Council for Development and Reconstruction (CDR)
ITP 2.1	Financing Agreement amount: 87,500,000 USD The name of the Project is: Expansion and Upgrade of Al-Ghadir Wastewater Treatment Plant Project – Phase I: Design, Build and Operate, Including Two New Sea Outfalls and Inspection & Assessment of Existing Sea Outfalls.
ITP 4.1	The Proposer shall have been selected in a preceding pre-qualification procedure. Maximum number of members in the JV shall be: Two (2)
ITP 4.3	The Proposer is permitted to form an SPV (Special Purpose Vehicle): No
ITP 4.5	A list of debarred firms and individuals is available on the IsDB's external website HTTP://WWW.ISDB.ORG/
ITP 4.8 (a)	Foreign companies have to submit a certificate issued by the Ministry of Economy and Trade stating that the company status is not in conflict with the Law of the Boycott of Israel issued on 23/06/1955 as proof of eligibility.

B. RFP DOCUMENT	
ITP 6.1	The contents of this RFP document, in addition to Part 1, Part 2 and Part 3, also include Part 4 and Part 5: The complete contents of this RFP document are the following. **Part 1 – Request for Proposal Procedures** Section I – Instructions to Proposers (ITP) Section II – Proposal Data Sheet (PDS) Section III – Evaluation and Qualification Criteria Section IV – Proposal Forms Section V – Eligible Countries Section VI – IsDB Policy on Fraud and Corruption **Part 2 – Employer's Requirements** Section VII – Employer's Requirements **Part 3 – Conditions of Contract and Contract Forms** Section VIII – General Conditions (GC) Section IX – Particular Conditions of Contract (PC) Section X – Contract Forms **Part 4 – Drawings** Section XI – Tender Document Drawings **Part 5 – Other Information** Section XII – Environmental and Social Impact Assessment Study Section XIII – Design Report for WWTP Section XIV– Reference Design Report for Jnah Sea Outfall. Section XV – Reference BOQ for Jnah Sea Outfall **Notes:** 1- The Tender Document Drawings include, in addition to the WWTP drawings, **reference** drawings for the Jnah Sea Outfall and **preliminary concept** drawings for the Ramlet El Bayda Sea Outfall. 2- The **reference** drawings for the Jnah Sea Outfall include available detailed design drawings, while the **preliminary concept** drawings for the Ramlet El Bayda Sea Outfall include available short conceptual drawings for which no reliance may be placed. The reference drawings and the preliminary concept drawings are provided for information and reference purposes only, and shall not relieve the Contractor from full design responsibility. 3- The Design Report for the Jnah Sea Outfall is provided as reference documentation to establish minimum hydraulic, marine and environmental design criteria applicable to both sea outfalls. 4- The Reference BOQ for Jnah Sea Outfall contains specific available information and data that can be used for a better understanding and estimation of the expected required works. 5- The above provided documents related to the Jnah Sea Outfall shall be used as **reference** for preparing the design documents related to the Ramlet El Bayda Sea Outfall. 6- In respect of the Ramlet El Bayda Sea Outfall, the Employer has not provided bathymetric, geotechnical or metocean investigation data. The Proposer shall include in its Proposal the methodology and cost for undertaking all necessary marine surveys and investigations required for the detailed design.

	7- "Existing Sea Outfalls" means the existing Ghadir WWTP marine outfalls, including the main pumping sea outfall (DN 1200, approx. 2,600 m) and the emergency sea outfall (DN 1500, approx. 500 m), for which inspection, survey and condition assessment services are required under the Contract, for both existing sea outfalls
ITP 7.1	For **Clarification of Proposal purposes** only, the Employer's address is: The Council for Development and Reconstruction (CDR) Tenders Department Tallet Al-Serail, Beirut, Lebanon Phone: +961 1 980 096 Fax: +961 1 981 252 / +961 1 981 253 Requests for clarification should be received by the Employer no later than: twenty-eight (28) days prior to the deadline for the submission of tenders, in writing or by fax. The Employer will respond in writing to such requests for clarification of the tender documents which it receives no later than fourteen (14) days prior to the deadline for the submission of tenders.
ITP 7.1	Web page: Not Used
ITP 7.4	A Pre-Proposal meeting shall not take place. A site visit conducted by the Employer shall be organized. Date: To be notified later Time: To be notified later Place: Sites of "Expansion and Upgrade of Al-Ghadir Wastewater Treatment Plant Project – Phase I: Design, Build and Operate, Including Two New Sea Outfalls and Inspection & Assessment of Existing Sea Outfalls" The participation to the site visit is mandatory. The site visit shall include, in addition to the existing and new WWTP and existing two sea outfall locations, access to onshore and offshore alignments associated with both new sea outfalls. Proposers shall be deemed to have inspected marine access constraints, seabed exposure, wave conditions, shoreline constraints, and urban interface conditions. No claim arising from marine or coastal conditions shall be entertained.
ITP 8.2	The Employer shall publish the addendum in the same manner the Tender documents were initially published.
C. PREPARATION OF PROPOSALS	
ITP 11.1	The language of the Proposal is: English All correspondence exchange shall be in English language. Language for translation of supporting documents and printed literature is: English or Arabic
ITP 12.2	The Proposer shall submit with its Technical Proposal the following additional documents: All documents listed below shall apply to the full scope of the Works as defined in this RFP, including the Wastewater Treatment Plant, the two existing sea outfalls, the Jnah Sea Outfall and the Ramlet El Bayda Sea Outfall, unless otherwise specified.

	A. Technical Proposal Standard Forms 1. Letter of Proposal – Technical Part 2. Proposal Security Form 3. Power of Attorney – *certified by a notary* 4. Joint Venture Agreement – *if applicable, certified by a notary* 5. Confirmation of Pre-Qualification Information Form 6. Attestation of Site Visit 7. Addendums – *if any* 8. Deviations – Not Applicable 9. Schedule of Guaranteed Performances 10. Tender Design* 11. Operation and Maintenance Statement 12. Proposed Training Program 13. Proposed Program of Works 14. Tenderer's Staff Organization Chart 15. CVs of Key Staff 16. Proposed Subcontractors** 17. Environmental Management Plan 18. Technical Schedules 19. Manufacturer's Brochures and Documentation 20. Construction Management Strategy 21. Design Build Method Statements for Key Construction Activities 22. Sustainable Procurement Proposal 23. Code of Conduct for Contractor's Personnel (ES) Form 24. Operation Service Proposals 25. Contractor's Equipment 26. Risk Assessment and Proposed Management Plan 27. Environmental and Social Performance Declaration 28. Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment Performance Declaration 29. Current Contract Commitments / Works in Progress 30. IsDB Group AML/CFT & KYC Questionnaire/Form (*) Tender Design for Jnah Sea Outfall: The drawings included in the RFP document, Part 4 (Section XI) and the Design Report and the BOQ included in Part 5 (Sections XIV and XV), are reference drawings, design report and BOQ and are given for information only - Contractor to verify.

Tender Design for Ramlet El Bayda Sea Outfall: The drawings included in the RFP Document, Part 4, Section XI are preliminary concept drawings and are given for information only. The Contractor shall assume full responsibility for conducting all required surveys and investigations and for the complete detailed design of the outfall. No reliance may be placed on preliminary drawings for purposes of claims or variations.

(**): Concerning the list of **Proposed Subcontractors,** the Proposer offer shall include:

- The proposal of a specialized sub-contractor for the soil treatment works (including deep dynamic compaction) of the project with previous experience similar to the required geotechnical works in the project (at least 2 similar projects with similar soil treatment works)
- The proposal of any specialized marine subcontractor (unless the bidder himself has the relevant experience) for offshore investigations and sea outfall onshore and offshore works. The proposed subcontractor shall provide evidence of relevant marine experience. Relevant experience shall include at least one sea outfall project, similar to the sea outfalls works included in this project (Certificates and contracts for the references should be submitted*).
- A Letter of Intent from the specialized sub-contractors confirming their participation in the Tender.

(*): A copy of the contract signed with the bidder and a copy of a certificate issued by the private or public authority that awarded the project and/or signed the contract, stating the location, date, type and value of works that the bidder executed or participated in its execution. The said certificate should also state the contractual role of the bidder during the execution of the said works, in addition to the name and address of the consultant supervising the works, where applicable, and the employer who supervised the works or whom the works were executed on his behalf. This certificate shall be valid only if it mentions that the project has been provisionally accepted or if it is attached to the provisional acceptance certificate.

In addition to the above forms, the Technical Proposal shall also include:

1- Certificate of registration of the Bidder issued by the Lebanese Directorate of Added Tax, in case the Bidder is registered, or a certification of non-registration in case the Bidder is not registered. In this case the Bidder is committed to its price, even if they become registered during the execution of the contract.

2- Declaration listing all the owners of the economic right أصحاب الحق الاقتصادي as per Form M18 issued by the Ministry of Finance (النموذج م١٨ الصادر عن وزارة المالية) with copies of their: identification cards (ID / Passport).

3- The Bidder shall submit a declaration stating, that as stipulated in Article (5) of the Lebanese Banking Secrecy Law dated 3/9/1956 and as stipulated in the decision of the Lebanese Council of Ministries no.4 dated 28/4/2020, the Contractor agrees to lift banking secrecy over the bank account used to deposit or transfer public funds related to this Contract.

4- A statement issued by the municipality within which the Bidder's main office is located, as per the address specified in the Commercial Registry, stating that the Bidder has paid the full due imposed municipal fees.

	5- A legal record of the authorized signatory dated no more than 3 months before the original bid submission date, free from any judgment (سجل عدلي). 6- The bidding documents stamped and signed. 7- For Lebanese bidders, certificate of quittance issued by the National Social Security Fund or valid certificate to participate in public procurement process. Its validity extending beyond the bid opening date. The bidder must be registered with NSSF, and any statement that includes an unregistered institution will be rejected. 8- Official information regarding any current litigation in which the bidder is involved. 9- Certificate of the registration of the company issued by the Ministry of Finance. 10- Legally certified copies of original documents, defining the constitution or legal status, place of registration and principal place of business, the founders, members, stakeholders, authorized signatories, capital, the directors and ongoing contracts. 11- Receipt of purchase of the Tender documents.
ITP 12.3	The Proposer shall submit with its Financial Proposal the following additional documents: 1. Letter of Proposal – Financial Part 2. Price Schedules
ITP 14.1	Tenderers are only allowed to submit one (1) alternative tender. Only the Alternative Tender of the lowest Tenderer will be opened and analyzed.
ITP 15.3	The prices quoted by the Proposer shall be subject to adjustment during the performance of the Build to Operate phase in accordance with the Conditions of Contract.
ITP 15.5	Price Adjustment Formulas and Source Indexes shall be as mentioned in Sub-Clause 13.8 of Part 3 – Section IX – Particular Conditions (PC); Part B: Special Provisions.
ITP 15.8	Proposers must quote all components of the overall price in the "Price Schedules", inclusive of all duties, taxes and other levies payable by the Tenderers under this Tender and Works, or for any other cause, and applicable as of the date twenty-eight (28) days prior to the deadline of submission of Tender. No payment will be made for items which have not been priced; such items will be deemed to be covered by other items on the Price Schedule. The overall price shall include all costs associated with the expansion and upgrade of Al-Ghadir WWTP, the inspection and assessment of the two Ghadir existing outfalls, the Jnah new Sea Outfall and the Ramlet El Bayda new Sea Outfall, including but not limited to marine surveys, seabed investigations, modeling, environmental studies, permitting, respecting regulations impact, detailed design, offshore installation, protection works, testing, commissioning and operation and maintenance during the Operation Period.
ITP 16.1	The currency (ies) of the Proposal and the payment currency(ies) shall be in: United States Dollars (USD)
ITP 17.1	Prequalified Tenderers are required to update the relevant information used for Prequalification to confirm that they continue to comply with the qualification criteria and shall verify that the information previously provided is still valid and correct.

	A specific written statement shall be included in the Tender where the Tenderer either (a) confirms that all information provided during the Prequalification is valid, or (b) indicates the data that has been modified. A Tenderer may be disqualified if they no longer meet the qualification requirements at the time of Contract award. The Prequalification of a joint venture does not prequalify any of its partners individually or as a partner in any other joint venture or association.
ITP 19	A *Proposal Security* shall be required. A Proposal-Securing Declaration shall not be required. The Proposal Security shall be in the form of a bank guarantee issued by a Lebanese bank or by a foreign bank through its correspondent in Lebanon. The amount and currency of the Proposal Security shall be: One million five hundred thousand USD (1,500,000.00 USD)
ITP 19.3 (d)	Other types of acceptable securities: None
ITP 20.1	The Proposal shall be valid for a period of one hundred and eighty (180) days.
ITP 20.4	The bid validity will be automatically extended in the event of freezing the procedures for a specified period by the objective committee with the provision of Chapter 7 of Law 244 of the Public Procurement Law in Lebanon dated 29/7/2021, for a period of time equivalent to the period of freezing and the bidder shall extend accordingly the period of validity of his bid security.
ITP 21.1	The written confirmation of authorization to sign on behalf of the Proposer shall consist of: Power of Attorney (PoA), duly authenticated by a notary.

D. SUBMISSION OF PROPOSALS	
ITP 22.1 (b)	In addition to the original of the Proposal, the number of copies is: One (1) copy
ITP 22.2 (a)	The outer envelope shall not bear the name or the address of the Proposer
ITP 22.1 & ITP 23.1	Proposers shall not have the option of submitting their Proposals electronically.
ITP 23.1	For **Proposal submission purposes** only, the Employer's address is: The Council for Development and Reconstruction (CDR) Tenders Department Tallet Al-Serail, Beirut, Lebanon The deadline for submission of Tenders is as stated in the Invitation to Bid, unless extended pursuant to ITP 23.2.
E. OPENING OF TECHNICAL PARTS OF PROPOSALS	
ITP 26.1	The Proposal opening shall take place at: Tenders Department The Council for Development and Reconstruction (CDR) Tallet Al-Serail, Beirut, Lebanon At the time and date stated in the Invitation to Bid, unless extended pursuant to ITP 23.2.
G. EVALUATION OF TECHNICAL PARTS OF PROPOSALS	
ITP 31.2	In evaluating the Proposals, the Employer will consider the following elements, which will form the general basis for the point system as indicated hereafter: 1) Evidence, that the proposed process and the relevant outline design, calculations, description, diagrams, drawings and other information to be submitted demonstrate the adequacy of the Tenderer's Proposal and the achievement of the specified performance criteria; 2) evidence, that the list of major items of equipment and plant and other information to be submitted demonstrate the adequacy of the Tenderer's Proposal and the achievement of the Works in accordance with the Employer's Requirements, and that this equipment and Plant provide adequate reliability, adaptability and working life, as well as a moderate degree of operational skill and maintenance input required to achieve optimum performance; 3) evidence, that the type and number of tools, appliances, vehicles and spare parts to be offered demonstrates the sufficiency for the proper operation and maintenance of the Works; 4) evidence, that adequate post construction services for the offered equipment for the Wastewater Treatment Plant and for the two new Sea Outfalls can be provided and that the type of spare parts, chemicals and major consumables necessary to properly operate and to maintain the Wastewater Treatment Plant are either locally available in Lebanon or can easily be made available in Lebanon through local agents;

5) Evidence, that the proposed Subcontractors and Suppliers and the list of construction equipment demonstrate the adequacy of the Tenderer's Proposal and the achievement of the Works in accordance with the Employer's Requirements within the given Time for Completion;

   To be noted that the capabilities of the specialized subcontractor concerning the Soil Treatment Works (including deep dynamic compaction) and sea outfalls will be evaluated during bid evaluation. Should any specialized subcontractor be determined to be unacceptable, the Tender will not be rejected, but the Tenderer will be required to substitute with an acceptable subcontractor without any change to the Tender Price.

6) evidence, that the outline program demonstrates that construction, testing and commissioning of the Works can be accomplished within the given Time for Completion;

7) evidence, that the proposed outline statement of the work methods demonstrates the adequacy of the Tenderer's Proposal and the achievement of the Works in accordance with the Employer's Requirements within the given Time for Completion;

8) evidence, that the proposed management and staff organization chart and the number and qualification of staff demonstrate the adequacy of the Tenderer's Proposal and the achievement of the Works in accordance with the Employer's Requirements within the given Time for Completion;

9) evidence, that the proposal for operation and maintenance as well as staff training demonstrates the adequacy of the Tenderer's Proposal in order to achieve optimum performance of the process and a long-term reliability of the Wastewater Treatment Plant and the two new Sea Outfalls.

On the basis of the elements indicated here-above, the Employer will then prepare a table evaluating the Technical Offers for the various criteria as follows:

No.	Criterion / Sub-Criterion for Evaluation	Max. No. of Points
Criterion 1. Proposed Process of the WWTP – Max 30 pts		
Adequacy of process, reliability, adaptability and flexibility, previous examples, level of noise, automation, odour control and quality of by-products. Process shall be complete for Phase I and Phase II.		
1.1	Adequacy of treatment process to meet effluent guarantees (BOD, COD, TSS, N, P)	7
1.2	Reliability — standby equipment, redundancy, fault tolerance	5
1.3	Adaptability and flexibility for variable loads & Phase II expansion	4
1.4	Supporting Documents for Previous reference examples of identical/similar processes	4
1.5	Noise levels and mitigation	2
1.6	Automation level and SCADA architecture	3
1.7	Odour control concept and treated-air concentration values	2

1.8	Quality of by-products (sludge, biogas, energy recovery)	3
	Subtotal – Criterion 1 (Max 30 pts)	**30**
Criterion 2. Outline Design of the WWTP – Max 20 pts		
Completeness of submission, calculations, drawings, diagrams, site layout, plant arrangement, soil treatment, access to process units, impact, appearance, architectural aspects. Design shall be complete for Phase I and Phase II.		
2.1	Completeness of design submission (calc notes, drawings, diagrams)	4
2.2	Quality of process & hydraulic calculations	3
2.3	Site layout, plant arrangement, traffic and access	4
2.4	Soil treatment design (incl. deep dynamic compaction)	3
2.5	Access for operation and maintenance to all process units	2
2.6	Visual / environmental impact and integration, architectural and landscaping aspects (Stone Cladding, Brick Roof, Plantation…)	4
	Subtotal – Criterion 2 (Max 20 pts)	**20**
Criterion 3. Outline Design for Both New Sea Outfalls – Max 5 pts		
Completeness of submission, calculations, drawings, diagrams, hydraulic adequacy, stability and protection, discharge philosophy, integration with pumping stations, investigation methodology, site layout (Jnah + Ramlet El Bayda).		
3.1	Completeness — drawings, calc notes, diagrams (both outfalls)	1
3.2	Hydraulic adequacy and diffuser design (computer modelling)	1
3.3	Stability, burial depth, weighting and protection	1
3.4	Marine investigation methodology (esp. Ramlet El Bayda)	1
3.5	Integration with pumping stations and discharge philosophy	1
	Subtotal – Criterion 3 (Max 5 pts)	**5**
Criterion 4. Offered Equipment, Materials and Plant – Max 20 pts		
Conformity with Employer's Requirements, capacity, quality, reliability, life expectancy, parts, post-construction services (for WWTP and both new Sea Outfalls).		
4.1	Conformity of major equipment with Employer's Requirements	5
4.2	Equipment capacity, quality, brand reputation	4
4.3	Reliability and design life expectancy	4

4.4	Spare parts strategy and availability in Lebanon / via local agents	3
4.5	Post-construction services for WWTP and sea outfalls	4
	Subtotal – Criterion 4 (Max 20 pts)	**20**
Criterion 5. Proposed Construction and Testing Methods – Max 10 pts		
Overall planning, outline programme, method statement, construction equipment, management, staff organisation, flooding protection, foundations, installation methodology of new Sea Outfalls.		
5.1	Overall planning and outline programme — completion within Time	2
5.2	Method statements for key construction activities	2
5.3	Construction equipment list — adequacy & availability	1
5.4	Construction site management & staff organisation	1
5.5	Flooding protection and foundation works	1
5.6	Installation methodology for new Sea Outfalls (offshore works)	2
5.7	Health and Safety considerations	1
	Subtotal – Criterion 5 (Max 10 pts)	**10**
Criterion 6. Operation, Maintenance and Staff Training – Max 15 pts		
For WWTP with the existing two sea outfalls and both new Sea Outfalls — completeness of submission, experience, method statement, organisation, maintenance schedule, man-power input, staff level and skills (incl. inspection regime, diffuser maintenance, sea bed monitoring, emergency overflow procedures).		
6.1	Completeness of O&M submission	2
6.2	Supporting Documents for Operator's experience on similar WWTP (>10,000 m^3/d)	3
6.3	O&M method statement and organisation chart	3
6.4	Preventive & corrective maintenance schedule	2
6.5	Man-power input — staff levels and skills	2
6.6	Sea outfalls inspection regime, diffuser maintenance, seabed monitoring, emergency overflow procedures	2
6.7	Staff training programme (initial + refresher)	1
	Subtotal – Criterion 6 (Max 15 pts)	**15**
	TOTAL TECHNICAL SCORE (out of 100)	**100**

For such Tenders, which have previously been determined to be substantially responsive pursuant to Clause 23 and which have reached a minimum of 75 points in the technical evaluation pursuant to Sub-Clause 24.1(d), the financial offers will be opened.

<table>
<tr><th colspan="2">H. OPENING OF FINANCIAL PARTS</th></tr>
<tr><td>ITP 34.1</td><td>The Letter of Proposal and Price Schedules shall be initialed by members of the Evaluation Committee of the Employer conducting Proposal opening. Each Proposal shall be numbered, any modification to the unit or total price shall be initialed by the Representatives of the Employer.</td></tr>
<tr><th colspan="2">I. EVALUATION OF FINANCIAL PART</th></tr>
<tr><td>ITP 38.1</td><td>The currency that shall be used for Proposal evaluation and comparison purposes to convert at the selling exchange rate all Proposal prices expressed in various currencies into a single currency is: United States Dollars (USD)</td></tr>
<tr><th colspan="2">J. COMBINED EVALUATION OF TECHNICAL AND FINANCIAL PART</th></tr>
<tr><td>ITP 43.1</td><td>The Evaluated Tender Price is composed of the Tender Price for Design and Build (WWTP, the existing two (2) sea outfalls and the two (2) new Sea Outfalls) plus the Tender Price for Provisional Sums for Dayworks and Spare Parts plus the Net Present Value of the Price for operation and maintenance (WWTP, the two (2) existing outfalls and two (2) new Sea Outfalls) over a 15-year period.
The expected flow for each year during the 15-year operation period is estimated as shown in the table hereafter. The Price for 15-year operation period shall be calculated on the base of this estimate. This estimate is for the purpose of the tendering process only, and no claims from the Contractor will be accepted if the real flows are different to the estimated flows.
The Net Present Value of the Price for Operation Service Period shall be calculated as the Net Present Value of each yearly price for the 15-year operation period, at 5% discount rate. (The term "discount rate" does here not refer to any price reduction, but is the rate used for the NPV calculation).
Table – Expected WWTP flows during the 15-year operation period (m^3/year)
<table>
<tr><th>Year</th><th>Annual flow (m^3/year)</th></tr>
<tr><td>2029</td><td>90,759,873</td></tr>
<tr><td>2030</td><td>92,370,468</td></tr>
<tr><td>2031</td><td>93,324,090</td></tr>
<tr><td>2032</td><td>94,168,881</td></tr>
<tr><td>2033</td><td>94,903,558</td></tr>
<tr><td>2034</td><td>95,531,486</td></tr>
<tr><td>2035</td><td>96,053,756</td></tr>
<tr><td>2036</td><td>96,419,540</td></tr>
<tr><td>2037</td><td>96,759,825</td></tr>
<tr><td>2038</td><td>97,074,000</td></tr>
<tr><td>2039</td><td>97,362,908</td></tr>
<tr><td>2040</td><td>97,623,235</td></tr>
<tr><td>2041</td><td>98,879,002</td></tr>
<tr><td>2042</td><td>100,128,286</td></tr>
<tr><td>2043</td><td>101,376,048</td></tr>
</table></td></tr>
</table>

ITP 44	BAFO: Does not apply
ITP 45.1	Replace the entire text of ITP 45.1 with the following: "The Proposal offering the Most Value-for-Money, and therefore the winning Proposal to be awarded the Contract, is the Proposal of the Proposer that meets the Qualification Criteria, and whose Proposal has been determined to be: a. substantially responsive to the RFP; b. has achieved the minimum required score of 75 points in the technical evaluation; and c. offers the lowest Evaluated Tender Price (as calculated in accordance with PDS ITP 43.1)." *Note: Technical and financial scores will not be combined using weights. The technical score serves strictly as a qualifying threshold, and the winning bid shall be the one that has usefully passed the technical evaluation and offers the lowest evaluated tender price.*
ITP 46	Negotiation: Does not apply
K. AWARD OF CONTRACT	
ITP 48	The Contract shall not be awarded earlier than the expiry of the standstill period. The standstill period shall be ten (10) business days unless extended. The standstill period commences the day after the date the Client has published his intention to award. Upon expiry of the standstill period, specified in the notification of intention to award or any extension thereof and upon satisfactorily addressing any complaint that has been filed with the standstill period, the Client shall send a request to the successful bidder to sign the draft negotiated contract within fifteen (15) business days from the date of receipt of such notification.
ITP 51.1	Prior to expiration of the period of bid validity, the Employer shall publish the notification of Intention to Award the Contract to the successful bidder on the CDR's web page **WWW.CDR.GOV.LB** and on the Public Procurement Authority webpage **WWW.PPA.GOV.LB**. The notification of intention to award shall contain, at a minimum, the following information: (a) The name and address of the bidder who presented the best proposal (b) The bid price of the successful proposal (c) The expiry of the standstill period. And instruction or how to request a debriefing and/or submit a complaint during the standstill period. The Employer shall promptly respond in writing to any unsuccessful bidder who, after notification of award requests in writing the grounds on which its bid was not selected or any other information related to the names and evaluated prices of other bidders
ITP 51.3	The Contract Award Notice shall be published in the Public Procurement Authority Page WWW.PPA.GOV.LB and the Employer's website WWW.CDR.GOV.LB
ITP 53.1	The successful Bidder shall submit an official document issued by the Lebanese Ministry of Economy and Trade proving that foreign companies: "Partnership Limited by Shares (La Société en Commandite par Actions)", شركة توصية مساهمة or Stock Companies (شركة مقفلة) or their branches in Lebanon are registered in the Ministry of Economy and Trade. This document should be submitted before signing the Contract to the awarded bidder (if applicable).

ITP 55.1	The procedures for making a procurement - related complaint should be as described in Chapter 7 “Procedure of Complaint” of Law 244 of Public Procurement in Lebanon dated 29/7/2021 الفصل السابع "إجراءات الاعتراض" في قانون الشراء العام في لبنان تاريخ ٢٠٢١/٧/٢٩ (Translated as: Chapter Seven 'Objection Procedures' in the Public Procurement Law in Lebanon, Law 244 of Public Procurement in Lebanon dated 29/7/2021)

Table of Contents

A. TECHNICAL PART 43
1. QUALIFICATION 43
2. EVALUATION OF TECHNICAL PART (ITP 31) 44

B. FINANCIAL PART 44
1. MARGIN OF PREFERENCE 44
2. EVALUATION OF FINANCIAL PART (ITP 40.1(F)) 44

C. COMBINED EVALUATION OF TECHNICAL AND FINANCIAL PARTS 44
1. COMBINED EVALUATION 44

D. MULTIPLE CONTRACTS (ITP 40.3) 44

SECTION III – EVALUATION AND QUALIFICATION CRITERIA

A. TECHNICAL PART

1. Qualification

1.1. Update of Information

The Proposer and any subcontractors shall meet or continue to meet the criteria used at the time of initial selection. Furthermore, the Proposer shall also confirm its capacity to execute Sea Outfall works, including offshore investigations, hydraulic modeling and submarine pipeline installation, assessment and surveys of existing sea outfalls either directly or through a proposed subcontractor.

1.2 Financial Resources

The financial resources of the Proposers have been evaluated during the Prequalification Evaluation. Proposers who failed to demonstrate access to, or availability of the financial resources required, were disqualified during the initial selection.

1.3 Contractor's Representative and Key Personnel

The Proposer must demonstrate that it will have a suitably qualified Contractor's Representative and sufficient suitably qualified Key Personnel as described in the Employer's Requirements Section VII – A: General Requirements. The Proposer shall provide details of the Contractor's Representative and such other Key Personnel that the Proposer considers appropriate, together with their academic qualifications and work experience. The Proposer shall complete the relevant Forms in Section IV, Proposal Forms.

1.4 Equipment

The Proposer shall provide its strategy for acquiring and maintaining the key equipment that may be needed to perform the Contract.

The Proposer shall provide further details of proposed items of equipment using the relevant Form in Section IV.

The listed equipment shall include all equipment necessary for completing the works including testing and commissioning and O&M of the WWTP, soil treatment and sea outfalls inspection and construction. Concerning the sea outfall inspection and construction, the Proposer shall include, as a minimum, evidence of availability of the following construction equipment (It is only indicative, the Contractor may mobilize a different spread, provided that it enables the completion of the works according to the design):

- Crawler and/or wheeled cranes (Land based) with sufficient long arm and capacity
- Crawler excavator with long arm, capable of reaching important depth, to be loaded on barge, suitable to operate a hydraulic single or twin head cutter for rock excavation / cutting
- Flat barge/Crane barge: the excavator for the trenching shall be installed on a barge, with or without cranes. To operate properly, the barge shall have a maximum draught ≤1m to reach a near shore position for the excavation at the shore approach
- Tug boat with anchor handling possibility, from towing the strings to the sinking position
- Fully equipped diving barge
- Auxiliary Tugboat/s or Service boat/s with auxiliary towing capacity for assistance during towing and sinking
- Rubber dinghy

- Fixed hull or split barge (towed or self-propelled) for the transportation of the backfill material (granular material, rip-rap and rocks) to site for the installation
- Subsea trenchers/cutters
- Monitoring, measurement & control systems for subsea positioning (Metrology, sensors, …)
- Geotechnical drilling rigs
- Bathymetric survey equipment
- Soil sampling and CPT rigs
- Underwater tools and divers equipment for jointing, alignment, and final - connection at the diffuser section (ROVs (Remotely Operated Vehicles), Diver support system, Underwater welding/cutting tools
- Marine inspection and survey equipment (ROVs, Diving equipment, Sonars…)

1.5 Subcontractors

Any Specialized Sub-contractor identified at the time of the initial selection shall continue to meet the applicable requirements.

Any other additional subcontractors for the following activities/ sub-activities must meet the following minimum criteria:

[Activity/Sub-activity No.]	**Description of** *[List Activity/Sub-activity]*	**Minimum Criteria to be met**
1. Soil Treatment	WWTP soil treatment (including deep dynamic compaction)	Two (2) previous similar projects
2. Sea Outfalls	Onshore and offshore construction of the 2 sea outfalls	One (1) previous similar project

2. Evaluation of Technical Part (ITP 31)

Refer to Section II – Proposal Data Sheet (PDS); G. Evaluation of Technical Part.

B. FINANCIAL PART

1. Margin of Preference

Not Applicable.

2. Evaluation of Financial Part (ITP 40.1(f))

Refer to Section II – Proposal Data Sheet (PDS); I. Evaluation of Financial Parts.

C. COMBINED EVALUATION OF TECHNICAL AND FINANCIAL PARTS

1. Combined Evaluation

Refer to Section II – Proposal Data Sheet (PDS); J. Combined Evaluation of Technical and Financial Parts.

D. MULTIPLE CONTRACTS (ITP 40.3)

Not Applicable.

SECTION IV – PROPOSAL FORMS

Table of Forms

A- TECHNICAL PROPOSAL STANDARD FORMS

1. Letter of Proposal – Technical Part
2. Proposal Security Form
3. Power of Attorney Form – *certified by a notary*
4. Joint Venture Agreement – *if applicable, certified by a notary*
5. Confirmation of Pre-Qualification Information Form
6. Attestation of Site Visit
7. Addendums – *if any*
8. Deviations – Not Applicable
9. Schedule of Guaranteed Performances
10. Tender Design
11. Operation and Maintenance Statement
12. Proposed Training Program
13. Proposed Program of Works
14. Tenderer's Staff Organization Chart
15. CVs of Key Staff
16. Proposed Sub-Contractors
17. Environmental Management Plan
18. Technical Schedules
19. Manufacturer's Brochures and Documentation
20. Construction Management Strategy
21. Design Build Method Statements for Key Construction Activities
22. Sustainable Procurement Proposal
23. Code of Conduct for Contractor's Personnel (Es) Form
24. Operation Service Proposals
25. Contractor's Equipment
26. Risk Assessment and Proposed Management Plan
27. Environmental And Social Performance Declaration
28. Sexual Exploitation and Abuse (Sea) And/or Sexual Harassment Performance Declaration
29. Current Contract Commitments / Works in Progress
30. IsDB Group AML/CFT & KYC Questionnaire/Form

B- FINANCIAL PROPOSAL STANDARD FORMS

1. Letter of Proposal – Financial Part
2. Price Schedules

SECTION IV – PROPOSAL FORMS

A. TECHNICAL PROPOSAL STANDARD FORMS

SECTION IV – PROPOSAL FORMS

1. Letter of Proposal – Technical Part

INSTRUCTIONS TO PROPOSERS

INSTRUCTIONS TO PROPOSERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Proposal in the first envelope "TECHNICAL PART".

The Proposer must prepare the Letter of Proposal on stationery with its letterhead clearly showing the Proposer's complete name and business address.

Note: *All italicized text in black font is to help Proposers in preparing this form and Proposers shall delete it from the final document.*

Date of this Proposal submission: *[insert date (as day, month and year) of Proposal submission]*

RFP No.: *[insert number of RFP process]*

Request for Proposal No.: *[insert identification]*

Alternative No.: *[insert identification No if this is a Proposal for an alternative]*

To: *[Employer insert:* ***name and address of Employer****]*

Dear Sir or Madam:

We, the undersigned Proposer, hereby submit our Proposal, in two parts, namely:

(a) the Technical Part, and

(b) The Financial Part.

Having examined the RFP Documents, including any Addenda issued in accordance with **ITP 8**, we, the undersigned, offer to provide the Works and Operation Service to _____, in full conformity with the said RFP Documents, Addenda and memorandum.

We undertake, if our Proposal is accepted, to commence the Works and achieve Completion within the respective times stated in the RFP Documents.

We hereby certify that we, including any subcontractors or manufacturers for any part of the contract, meet the eligibility requirements and have no conflict of interest in accordance with **ITP 4.**

We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, have not been declared ineligible by IsDB, under the Employer's country laws or official regulations or by an act of compliance with a decision of the Organization of the Islamic Cooperation, the League of Arab States and the African Union;

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption.

State-owned enterprise or institution: *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution]* / *[We are a state-owned enterprise or institution but meet the requirements of* ***ITP 4.6****]*;

Potential DAB Members: We hereby propose the following three persons, whose curriculum vitae are attached, as potential DAB members:

Name	Address
1. ……	……
2. ……	……
3. ……	……

We agree to abide by this Proposal, which, in accordance with **ITP 12** and **ITP 13**, consists of this letter (Letter of Proposal Technical Part) and enclosures until *[insert day, month and year in accordance with ITP 20.1*], and it shall remain binding upon us and may be accepted by you at any time on or before this date.

Until the formal final Contract is prepared and executed between us, this Proposal, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us.

_____

Name of the Proposer: **[insert complete name of the Proposer]*

_____

Name of the person duly authorized to sign the Proposal on behalf of the Proposer: ** *[insert complete name of person duly authorized to sign the Proposal]*

_____

Title of the person signing the Proposal: *[insert complete title of the person signing the Proposal]*

_____

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

_____

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

*: In the case of the Proposal submitted by a Joint Venture specify the name of the Joint Venture as Proposer.

**: Person signing the Proposal shall have the power of attorney given by the Proposer. The power of attorney shall be attached with the Proposal Schedules.

ENCLOSURE(S):

SECTION IV – PROPOSAL FORMS

2. Proposal Security Form

To: Council for Development and Reconstruction
Tallet Al-Serail
P.O.Box 11/3170
Beirut, Lebanon

WHEREAS, [Name of Bidder] (hereinafter called "the Bidder") has submitted his bid dated [Date] for the [Name of Project] (hereinafter called "the Bid").

BY THIS GUARANTEE we [Name of Bank] of [Name of Country] having our registered office at _____ (hereinafter called "the Bank") are bound unto the Council for Development and Reconstruction (hereinafter called "the Employer") in the sum of _____US$ for which payment well and truly to be made to the said Employer the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of _____ 202 __

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws his Bid during the period of bid validity specified in the Letter of Bid; or
2. If the Bidder having been notified of the acceptance of his Bid by the Employer during the period of bid validity:
    a. fails or refuses to execute the Contract Agreement; or
    b. fails or refuses to furnish or to increase the Performance security, or
    c. refuses to accept the correction of the errors in his Bid,

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand, the Employer will note that the amount claimed by him is due to him as a result of the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date 208 days after the deadline for submission of bids or as it may be extended by the Employer at any time prior to this date, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK _____

IN THE CAPACITY OF _____

WITNESS _____ SEAL _____

_____(Signature, Name, and Address)

(The bid/Proposal security submitted by the bidder shall be in strict conformance with the above sample form. Any alternate form/text would result in the rejection of the bid)

3. Power of Attorney Form

The representative of the moral person that will be declared successful bidder has the necessary prerogatives to carry out any legal proceeding or measure in connection with the tender, and that said representative should submit for this purpose an official document proving that he is the holder of such prerogatives, namely when the act is of disposal nature such as to waive, to release, to cash, to disclaim and to acknowledge, provided that said document is **not older than three months** from the date of the tender/proposal submission.

SECTION IV – PROPOSAL FORMS

4. Joint Venture or Consortium Agreement

"Joint Venture Agreement" (to be completed and signed by each partner of the bidder and attached to the technical proposal)

This agreement is made the ___day of _____ 202_, by and between:

_____ (hereinafter called _____), a company organized under the laws of _____, with its principal office at _____, and its address at _____, hereinafter called _____of the first part,

and
_____ (hereinafter called _____), a company organized under the laws of _____, with its principal office at _____, and its address at _____, hereinafter called _____of the second part,
The first and the second party together are hereinafter referred to as "the Parties'.

WHEREAS the Council for Development and Reconstruction, representing the Government of Lebanon, hereinafter called "the CDR" has invited the Parties to submit a proposal for the execution of the following project:

_____
_____ (hereinafter called "the Project")

WHEREAS the Parties wish to enter into a Joint Venture Agreement in order to be prequalified by the CDR to tender for the Project and, if successful, to execute the Project under a Contract to be awarded by the CDR, hereinafter called "the Contract";

THE PARTIES HERETO AGREE TO FORM A JOINT VENTURE UNDER THE FOLLOWING TERMS AND CONDITIONS:

1 ESTABLISHMENT OF THE JOINT VENTURE

The Parties hereby agree to constitute themselves as a Joint Venture under the name of _____, hereinafter called "the Joint Venture".

The Joint Venture shall have its offices at the following address:

_____

_____

The objective of the Joint Venture shall be to execute the Project in accordance with all terms and conditions of a Contract to be signed with the CDR. The Joint Venture shall comply with all laws and regulations relevant to the establishment and operation of joint ventures in Lebanon and shall be certified by the relevant public notary.

2 LIABILITY

2.1 Notwithstanding any other conditions contained in this joint venture agreement or in any other agreement between the Parties, each of the Parties hereby commits itself to be jointly and severally liable towards the CDR as well as towards any and all CO-contractors and/or subcontractors for the proper execution of all obligations of the Joint Venture in relation to the Contract to be signed with the CDR for the execution of the Project.

2.2 The Parties shall keep each other, both during and after the term of this joint venture agreement, fully indemnified against all losses and damages resulting from gross negligence or breach of contract of one party or their personnel or agents in relation to this agreement as well as to all contracts to be executed by the Joint Venture.

3 REPRESENTATION

For the purpose of this joint venture agreement, the Joint Venture shall be represented by the first party hereto _____ who is hereby authorized by the second party to act on behalf of the Parties of this Joint Venture in all matters related to the submission of the Tender, the negotiation and signing of the Contract with the CDR, the execution of the Project, including but not limited to the invoicing and receipt of payments, the execution of subcontracts, the incurring of liabilities and receipt of instructions on behalf of all partners of the Joint Venture in relation to the Contract with CDR during the entire execution period of the said Contract.

[Note: the level of authority delegated to the leading party must be determined by the JV Partners. If restrictions apply, supplementary "powers of attorney" must be provided to the leading partner prior to signing of the Contract.]

The Parties shall keep the CDR informed at all times of all details concerning the Joint Venture and its authorized representatives.

4 REVENUE DISTRIBUTION

The total payments to the joint venture shall be distributed between the Parties according to the following proportions:

First Party	----------%
Second Party	----------%
----------	----------%

The local taxes calculation shall be based on the above-mentioned percentages.

5 EXCLUSIVITY

The Parties shall exclusively work together in connection with the Project. Each party hereto agrees that it has no interest whatsoever directly or indirectly, in any other proposal which may be submitted to the CDR with respect to the execution of the Project.

6 OBLIGATION TO TENDER

The Parties shall fill in and submit to the CDR their relevant prequalification file documents, and if jointly qualified, they shall tender for the Project as a Joint Venture. If the Contract for the execution of the Project is awarded to the Joint Venture, they shall jointly execute the Project under their joint and several responsibilities in accordance with the applicable terms and conditions of contract.

7 DURATION

7.1 This joint venture agreement shall enter in to force and effect as of the date first written above.

7.2 This joint venture agreement shall expire if the Joint Venture's tender is rejected or in case the Contract is awarded to another bidder.

7.3 In case the Contract is awarded to the Joint Venture, this joint venture agreement shall remain in force until all obligations of the Parties under the Contract have been fulfilled and each of the Parties have honored its obligations towards the other.

8 RIGHTS OF CDR

All rights stipulated in this joint venture agreement in favor of the CDR shall be honored by the Parties as if the CDR were a direct beneficiary of this agreement. Consequently, the Parties hereto acknowledge the right of the CDR to act directly on the basis of this agreement against all or any of the Parties hereof.

9 SETTLEMENT OF DISPUTES

The parties shall use their best efforts to settle amicably all disputes arising out of or in connection with this joint venture agreement or the interpretation thereof.

[Note: choose one of the Alternatives and delete the rest]

Alternative 1: Any dispute between the Parties as to the matters arising pursuant to this agreement which cannot be settled amicably within thirty (30) days after receipt by one party of the other party's request for such amicable settlement may be submitted by either party to the competent Court in the Republic of Lebanon. Lebanese law shall apply to the interpretation of this agreement.

Alternative 2: Any dispute between the Parties as to the matters arising pursuant to this agreement which cannot be settled amicably within thirty (30) days after receipt by one party of the other party's request for such amicable settlement may be submitted by either party to arbitration for final settlement in accordance with the procedures applicable under the Laws of the Republic of Lebanon.

Alternative 3: Any dispute between the Parties as to the matters arising pursuant to this agreement which cannot be settled amicably within thirty (30) days after receipt by one party of the other party's request for such amicable settlement shall be finally settled by either party under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules.

Alternative 4: Any other alternative of JV Partners acceptable to CDR

The Parties hereto have caused this agreement to be executed in three copies, one for each party and one for the CDR, by their duly authorized officers on the date first above written

FOR AND ON BEHALF OF	FOR AND ON BEHALF OF
FIRST PARTY	SECOND PARTY
NAME:	NAME:
TITLE:	TITLE:
SIGNATURE:	SIGNATURE:
STAMP:	STAMP:

SECTION IV – PROPOSAL FORMS

5. Confirmation of Prequalification Information Form

Publication reference:	Tender No. [Insert reference]
Name of Contract:	Expansion and Upgrade of Al-Ghadir Wastewater Treatment Plant Project – Phase I: Design, Build and Operate, Including Two New Sea Outfalls and Inspection & Assessment of Existing Sea Outfalls
	[Insert place and date]
To:	Council for Development and Reconstruction Tallet El Serail P.O. Box 11-3170 Beirut, Lebanon

We, the undersigned, hereby:
[The Tenderer shall delete the one of the two statements hereafter which does not apply]

confirm that all information provided in the pre-qualification documents for this contract is still valid and correct and that we continue to comply with the qualification criteria as set in the pre-qualification documents.

We fully understand that a Tenderer may be disqualified if he no longer meets the qualification requirements at the time of contract award.

inform you that the following information concerning our firm(s) has been modified compared with the information given in our pre-qualification application:

[refer to the Application Forms in the pre-qualification documents]

……

……

……

……

……

……

We fully understand that a Tenderer may be disqualified if he no longer meets the qualification requirements at the time of contract award.

Authorized signature:

Name and title of signatory: *[insert name and title of authorized person]*

Name of Firm: *[Insert name of Tenderer]*

Stamp of the firm/company:

6. Attestation of Site Visit

[Form to be filled by Contractor]

We, the undersigned of **[Contractor Name]**, confirm that we attended the **mandatory site visit** for the **Expansion and Upgrade of Al-Ghadir Wastewater Treatment Plant Project– Phase I: Design, Build and Operate, Including Two Sea Outfalls and Inspection & Assessment of Existing Sea Outfalls** on **[Date]**.

Representative(s) present:

- Name: _____
- Designation: _____

Signature: _____

Name: _____

Date: _____

7. Addendums

"INTENTIONALLY LEFT BLANK"

8. Deviations – Not Applicable

"INTENTIONALLY LEFT BLANK"

9. Schedule of Guaranteed Performances

Table of Contents

A- WWTP 60
A.1 GUARANTEES REGARDING THE CAPACITY OF THE INSTALLATION 60
A.1.1 WASTEWATER TREATMENT 60
A.1.2 GRIT TREATMENT 60
A.1.3 GREASE TREATMENT 60
A.2 GUARANTEES CONCERNING DISCHARGED EFFLUENT 60
A.3 GUARANTEES CONCERNING SLUDGE PRODUCTION 61
A.4 GUARANTEES CONCERNING SLUDGE TREATMENT 61
A.4.1 CAPACITY OF SLUDGE WORKSHOP 61
A.4.2 DRIED SOLIDS OF DEWATERED SLUDGE 61
A.5 GUARANTEES CONCERNING BIOGAS PRODUCTION 61
A.5.1 BIOGAS PRODUCTION – PHASE I 61
A.6 GUARANTEES CONCERNING THE QUALITY OF WASTE 61
A.6.1 SCREENING REJECTS 61
A.6.2 GRIT 61
A.7 GUARANTEES CONCERNING AIR QUALITY 61
A.7.1 WORKING AREAS 61
A.7.2 OUTLET FROM THE ODOR CONTROL SYSTEM AND AT THE EDGE OF THE PROPERTY 62
A.8 GUARANTEES CONCERNING NOISE LEVELS (*) 62
A.8.1 IN PREMISES 62
A.8.2 AT THE EDGE OF THE PROPERTY 62
A.9 GUARANTEES CONCERNING PERFORMANCE LEVELS FOR PARTICULAR STRUCTURES 62
A.9.1 SLUDGE THICKENING 62
A.9.2 SLUDGE DEWATERING 62
A.9.3 GREASE TREATMENT 62
A.10 GUARANTEED CONSUMPTION 63
A.11 GUARANTEED BIOGAS PRODUCTION AND POWER GENERATION 64
A.12 GUARANTEES CONCERNING THE RELIABILITY OF OPERATION 64
A.13 GUARANTEES CONCERNING WORKING LIFE 64

B- JNAH SEA OUTFALL 66
B.1 HYDRAULIC CONVEYANCE CAPACITY 66
B.2 DIFFUSER HYDRAULIC PERFORMANCE 66
B.3 MARINE STRUCTURAL STABILITY 66
B.4 ENVIRONMENTAL COMPLIANCE 66
B.5 DESIGN LIFE 67

C- RAMLET EL BAYDA SEA OUTFALL 68
C.1 HYDRAULIC CONVEYANCE CAPACITY 68
C.2 MARINE INVESTIGATION AND DESIGN BASIS 68
C.3 DIFFUSER HYDRAULIC PERFORMANCE 68
C.4 MARINE STRUCTURAL STABILITY 68
C.5 ENVIRONMENTAL COMPLIANCE 69
C.6 DESIGN LIFE 69

A- WWTP

The Contractor guarantees that the plant will meet the following performances:

[all dotted lines to be completed by the Tenderer]:

A.1 GUARANTEES REGARDING THE CAPACITY OF THE INSTALLATION

A.1.1 Wastewater Treatment

Loads for the situation:

Parameter	Unit	Design loads (dry weather)	Design loads (wet weather)
BOD	kg/d	101,685	106,852
COD	kg/d	197,721	210,122
TSS	kg/d	127,107	135,890
TKN	kg/d	20,337	21,887
TP	kg/d	2,825	3,009
Volume	m^3/d	282,459	334,129
Peak flow rate	m^3/s	4.53	5.13
Duration of the period	days/year	300	65

A.1.2 Grit Treatment

Estimation of the grit to be washed for the **high season** situation:

Produced by the treatment plant	5.01	m^3/day at design load
Guaranteed washing capacity	……..	m^3/h

A.1.3 Grease Treatment

Capacities for the situation:

Daily load	77,130	kg COD/day at design load
Annual load	28,152	T/year

A.2 GUARANTEES CONCERNING DISCHARGED EFFLUENT

The guaranteed performances are valid for a load lower than or equal to the design loads, within the range of guaranteed performances as defined in the Performance Specifications.

After Primary Treatment:

Parameter	Unit	Maximum Concentration
BOD	mg/l	……..
TSS	mg/l	……..

After secondary treatment:

Parameter	Unit	Maximum Concentration
BOD	mg/l	……..
COD	mg/l	……..
TSS	mg/l	……..
NH_4^+	mg/l	……..
TN	mg/l	……..
Total Coliforms (37 °C)	MPN/100 mL	……..

A.3 GUARANTEES CONCERNING SLUDGE PRODUCTION

The Contractor undertakes to ensure that sludge production shall not exceed the following values for the situation:

At design load (low season)	……	kg of DS/day
At design load (high season)	……	kg of DS/day

The sludge production is calculated with the following formulae, valid for all loads within the range of guaranteed performances:

Chosen pollution parameter(s)……

Calculation formula……

A.4 GUARANTEES CONCERNING SLUDGE TREATMENT

A.4.1 Capacity of Sludge Workshop

The Contractor guarantees that the installation described in his contract is capable of treating all the sludge produced at design load in **high season**, with the sludge workshop working for no more than:

……h/day

and ……days/week

A.4.2 Dried Solids of Dewatered Sludge

After dewatering, the minimum guaranteed dried solids of the sludge is ……. % for a polymer dose of ……. kg/t of DS. (prior to lime stabilization)

A.5 GUARANTEES CONCERNING BIOGAS PRODUCTION

A.5.1 Biogas Production – Phase I

Biogas production from primary sludge, phase I is……..…. m^3/day per m^3 of raw sewage.

A.6 GUARANTEES CONCERNING THE QUALITY OF WASTE

A.6.1 Screening Rejects

After compaction, the guaranteed minimum dried solids of screening rejects are …. %.

A.6.2 Grit

After thorough washing, the guaranteed maximum concentration of organic matter in grit is …. %.

The minimum concentration of dried solids of dewatered grit is …… %.

A.7 GUARANTEES CONCERNING AIR QUALITY

A.7.1 Working Areas

Parameter	Guaranteed maximum concentrations in technical equipment rooms (mg/Nm³ of air)	Guaranteed maximum concentrations in staff areas (including the laboratory) (mg/Nm³ of air)
H_2S	……	……
RSH	……	
NH_3	……	……
RNH_2	……	……
Aldehyde and Keton	……	……

A.7.2 Outlet from the Odor Control System and at the Edge of the Property

The guaranteed maximum concentrations on leaving the odor treatment system are:

H_2S	……	mg/Nm³ of air
RSH	……	mg/Nm³ of air
NH_3	……	mg/Nm³ of air
RNH	……	mg/Nm³ of air

A.8 GUARANTEES CONCERNING NOISE LEVELS (*)

A.8.1 In Premises

The guaranteed maximum noise level (**) in the equipment rooms is	……	dB
The guaranteed maximum noise level in the staff areas is	……	dB
(*) : The noise shall be measured in compliance with applicable EN and ISO standards		
(**) : Maximum noise level is equivalent to the sound power emitted by all equipment in normal operating conditions		

A.8.2 At the Edge of the Property

The guaranteed maximum noise level at the edge of the property is:

The guaranteed maximum noise level during the day	……	dB
The guaranteed maximum noise level during the night	……	dB

A.9 GUARANTEES CONCERNING PERFORMANCE LEVELS FOR PARTICULAR STRUCTURES

A.9.1 Sludge Thickening

The guaranteed minimum SS capture rate for the sludge thickening is ……. %.

A.9.2 Sludge Dewatering

The guaranteed minimum SS capture rate for the dewatering devise is …… %.

A.9.3 Grease Treatment

The guaranteed minimum efficiency of biological grease treatment is …… % on dissolved COD and …… % on HEM.

A.10 GUARANTEED CONSUMPTION

a) The Contractor guarantees the following maximum consumption levels for the design load situation. For the fuel consumption for the prime and standby power generator(s), the Tenderer shall estimate the consumption based on 4 hours of electrical power outage per day.

Consumables	Daily consumption with design load (low season)	Daily consumption with design load (high season)	Formula used to calculate consumption
Electricity (kWh/day)			
▪ WW lifting	.....	.....	.....
▪ Screenings/De-gritting	.....	.....	.....
▪ Primary Sedimentation	.....	.....	.....
▪ Sludge Treatment	.....	.....	.....
▪ Sludge Digestion	.....	.....	.....
▪ Treated Effluent Discharge	.....	.....	.....
▪ Odor Treatment	.....	.....	.....
▪ General items	.....	.....	.....
Fuel (liter/day)			
▪ Diesel generator	.....	.....	.....
Water treatment (kg/day)			
▪ Ferric chloride	.....	.....	.....
▪ Anionic polymer	.....	.....	.....
▪ Other …….	.....	.....	.....
Sludge treatment (kg/day)			
▪ Polymers	.....	.....	.....
▪ Other …….	.....	.....	.....
Odor Treatment (kg/day)			
▪ Nutrients	.....	.....	.....
▪ Other …….	.....	.....	.....
Drinking water (m3/day)	.....	.....	.....
Other consumables – specify (unit to specify)	.....	.....	.....

A.11 GUARANTEED BIOGAS PRODUCTION AND POWER GENERATION

The Contractor guarantees the following minimum biogas production in m^3/d and related power generation in kwh/d:

- The biogas produced from the anaerobic process they will be utilized by Combined Heat-Power (CHP) engines is: …… m^3/d,
- The power generated from the biogas via the CHP engines is: …… kWh/d

A.12 GUARANTEES CONCERNING THE RELIABILITY OF OPERATION

The Contractor guarantees that the annual frequency of the following events shall be no more than the values indicated:

Discharge from plant above standards	……days/year
Sludge dryness below guaranteed value	……days/year
Waste treatment not in conformity with requirements (screenings, grease, sand)	……days/year
Downgraded ventilation in operating areas (staff safety).	……days/year
Downgraded biogas production	……days/year
Odor treatment not in conformity	……days/year

A.13 GUARANTEES CONCERNING WORKING LIFE

The Contractor guarantees the following values for the working life of the equipment.

Type of guarantee	Duration of guarantee
Water retaining structures	……..
Protection of metal surfaces	……..
Paintwork	……..
Ultra- and microfiltration membranes (where applicable)	……..
Biofiltration media (where applicable)	……..

The Contractor guarantees the following service life classes and corresponding service life hours in accordance with Annex A of BS EN 12255-1:

Equipment type	Guaranteed service life class	Guaranteed service life (hours)	Standard reference
ARCHEMDEDIAN SCREW PUMPS - Bearings, Gears and Motors	……..	……..	ANSI/HI14.6
PRELIMINARY TREATMENT - Mechanical equipment for screening, grit and grease removal	……..	……..	BS EN 12255-3
- Air supplying systems of air lift.	……..	……..	BS EN 12255-3
PRIMARY SEDIMENTATION - Scrapper and rake	……..	……..	BS EN 12255-4
- Rotating axis mounted on ball bearings, intermediate bearings and gears	……..	……..	BS EN 12255-4
- Wheel drives, electrical motors	……..	……..	BS EN 12255-4
- Lifting equipment	……..	……..	BS EN 12255-4
SLUDGE TREATMENT - Motors - Heaters - Mixers	……..	……..	BS EN 12255-8

Equipment type	Guaranteed service life class	Guaranteed service life (hours)	Standard reference
- Gears and bearings of pumps, compressors, scrappers, mixers, dewatering equipment or similar	……..	……..	BS EN 12255-8
ODOR CONTROL Bio-trickling filter fans and pumps	……..	……..	BS EN 12255-9
Aluminum Covers	……..	……..	BS EN 1090
Genset – Diesel	……..	……..	BS EN 8528
Genset – Methane	……..	……..	BS EN 24252

B- JNAH SEA OUTFALL

The Bidder shall complete all dotted lines with its proposed guaranteed values.
The offered values shall comply with or exceed the minimum required performance criteria.

B.1 HYDRAULIC CONVEYANCE CAPACITY

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value	Unit
B1.1	Design Discharge Peak Flow	≥1.50	.....	m^3/s
B1.2	No Surcharge at Design Flow	Required	.....	Yes/No
B1.3	Maximum Internal Flow Velocity	≤ 2.5	.....	m/s
B1.4	Maximum Head Loss	Within hydraulic limits ensuring discharging the required pipelines flows.	.....	m
B1.5	Pipe Nominal Pressure	> 1.5 Functioning Pressure, >= 6 bars	.....	bars

B.2 DIFFUSER HYDRAULIC PERFORMANCE

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value	Unit
B2.1	Minimum Initial Dilution Ratio	≥ 1:50	.....	—
B2.2	Flow Distribution Uniformity	±10% maximum deviation	.....	%
B2.3	Maximum Backpressure at Interface	≤ 0.5	.....	bar

B.3 MARINE STRUCTURAL STABILITY

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value	Unit
B3.1	Design Wave Return Period	≥ 1 in 50 years	.....	—
B3.2	Significant Wave Height (Hs, 50-year)	≥ 7.1	.....	m
B3.3	Stability Safety Factor (Sliding)	≥ 1.50	.....	—
B3.4	Stability Safety Factor (Flotation)	≥ 1.20	.....	—
B3.5	Maximum Long-Term Settlement	≤ 50	.....	mm
B3.6	Seismic Stability	Compliant with Lebanese Code	.....	Yes/No

Notes

- The Contractor subscribes to limit wave height values beyond which outfall works are suspended
- The Contractor guaranties a minimum burial of the top of the pipe and weights of 1.0 m in water depths shallower then 9 m
- All diffuser ports shall be at a nominal height exceeding 0.8 m above the seabed.

B.4 ENVIRONMENTAL COMPLIANCE

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value
B4.1	Compliance with National Discharge Standards	Mandatory	.....
B4.2	No Shoreline Contamination under Design Flow	Required	.....

B.5 DESIGN LIFE

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value	Unit
B5.1	Structural Design Life, including: corrosion resistance, pressure resistance, internal and external abrasion, weighting elements, hydrodynamic stability.	≥ 50	……....	years

C- RAMLET EL BAYDA SEA OUTFALL

The Bidder shall complete all dotted lines with its proposed guaranteed values. The offered values shall comply with or exceed the minimum required performance criteria. For the Ramlet El Bayda Sea Outfall, the Contractor shall conduct all required marine investigations necessary to achieve the guaranteed performances. Failure to meet the guaranteed performances shall be subject to the provisions of the Contract relating to performance damages and remedial measures.

C.1 HYDRAULIC CONVEYANCE CAPACITY

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value	Unit
C1.1	Design Discharge Flow	≥ 0.50	.....	m^3/s
C1.2	No Surcharge at Design Flow	Required	.....	Yes/No
C1.3	Maximum Internal Flow Velocity	≤ 2.5	.....	m/s
C1.4	Maximum Head Loss	Within hydraulic limits ensuring discharging the required pipelines flows.	.....	m
B1.5	Pipe Nominal Pressure	> 1.5 Functioning Pressure, >= 6bars	.....	bars

C.2 MARINE INVESTIGATION AND DESIGN BASIS

No.	Parameter	Minimum Required Performance	Bidder's Commitment
C2.1	Bathymetric Survey	Mandatory prior to detailed design	.....
C2.2	Geotechnical Investigation	Sufficient boreholes & testing	.....
C2.3	Metocean Assessment	Establish design wave & current criteria	.....
C2.4	Final Alignment Optimization	Based on verified seabed conditions	.....

C.3 DIFFUSER HYDRAULIC PERFORMANCE

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value	Unit
C3.1	Minimum Initial Dilution Ratio	≥ 1:50	.....	—
C3.2	Flow Distribution Uniformity	±10% maximum deviation	.....	%
B2.3	Maximum Backpressure at Interface	≤ 0.5	.....	bar

C.4 MARINE STRUCTURAL STABILITY

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value	Unit
C4.1	Design Wave Return Period	≥ 1 in 50 years	.....	—
B4.2	Significant Wave Height (Hs, 50-year)	≥ 7.1	.....	m
C4.3	Stability Safety Factor (Sliding)	≥ 1.50	.....	—
C4.4	Stability Safety Factor (Flotation)	≥ 1.20	.....	—
C4.5	Maximum Long-Term Settlement	≤ 50	.....	mm
C4.6	Seismic Stability	Compliant with Lebanese Code	.....	Yes/No

Notes:

- The Contractor subscribes to limit wave height values beyond which outfall works are suspended.
- The Contractor guaranties a minimum burial of the top of the pipe and weights of 1.0 m in water depths shallower then 9 m.
- All diffuser ports shall be at a nominal height exceeding 0.8 m above the seabed.

C.5 ENVIRONMENTAL COMPLIANCE

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value
C5.1	Compliance with National Discharge Standards	Mandatory	……..
C5.2	No Shoreline Impact under Design Flow	Required	……..

C.6 DESIGN LIFE

No.	Parameter	Minimum Required Performance	Bidder's Guaranteed Value	Unit
C6.1	Structural Design Life	≥ 50	……	years
C6.2	Corrosion Protection Design Life, including: Corrosion resistance, Pressure resistance, Internal and external abrasion, weighting elements, Hydrodynamic stability.	≥ 50	……	years

10. Tender Design

A- WWTP

The Tenderer shall provide a profound and detailed design report in his tender. The design report shall be based on Conventional Activated Sludge Process (CAS) and give details and justifications for the proposed treatment process design parameters, structural design, foundation methods and overall layout. The Tender Design shall at least include:

- Description and justification of design criteria and assumptions
- Description of standards and codes of practice used for calculations
- Detailed and clearly explained design calculations
- Detailed description of proposed facilities
- Detailed explanation on the provision of extension
- Characteristics of main mechanical and electrical equipment items
- Description of telemetry systems
- Description of measures taken to ensure the reliable operation of the plant, including a HAZOP analysis.
- Description of the performances under various operating conditions
- Description and design calculations of structural design
- Description and design calculations of foundation methods
- Description of building services
- Description of architecture and landscaping
- Description of work methods to be used in the implementation

The Tender shall include drawings with sufficient detail for the easy understanding of the proposed works. Architectural and landscaping drawings, including perspectives, shall be submitted for the appreciation of the quality of the architectural design.

The Tenderer shall also include a plan showing his proposed lay-out for temporary installation and works.

B- NEW SEA OUTFALLS

(Jnah Sea Outfall and Ramlet El Bayda Sea Outfall)

The Tenderer shall provide a detailed design report in his tender for both the Jnah Sea Outfall and the Ramlet El Bayda Sea Outfall.

The design report shall be based on the marine design criteria defined in the Tender Documents and shall give full details and justifications for the proposed hydraulic design, structural stability, foundation and seabed protection methods, diffuser configuration and overall alignment. The design report shall cover also the needed onshore works.

The Tender Design shall at least include:

- Description and justification of marine design criteria and assumptions
- Description of standards and codes of practice used for marine hydraulic calculations and submarine pipeline design

- Hydraulic design calculations for onshore and offshore pipeline sizing, head loss, velocity and backpressure
- Description of the needed onshore works
- Description and justification of diffuser configuration, port sizing, spacing and hydraulic performance
- Hydraulic modeling demonstrating compliance with required dilution ratio and environmental standards
- Description of proposed alignment and justification of discharge depth
- Description of marine stability design including wave loading, current effects and buoyancy considerations, justification of burial depth and trenching, stabilization methodology
- Structural design calculations including stability against sliding, flotation and overturning
- Description of corrosion protection system and materials selection
- Description of connection works at pumping station and manholes interface
- Description of measures taken to ensure reliability and durability of the marine system and appropriate performances under various operating conditions, including peak discharge
- Description of the proposed bathymetric, geotechnical, geological and metocean investigations to be conducted (especially for Ramlet El Bayda Sea Outfall), including explanation of how verified marine investigation data will be incorporated into the final design
- Description of work methods to be used in offshore installation, including marine logistics and safety measures
- Description of compliance with national wastewater discharge and coastal water quality standards, including:
  - Detailed explanation of hydraulic dispersion modeling and environmental impact mitigation
  - Description of measures to prevent shoreline contamination
  - Description of marine environmental mitigation measures during offshore construction, including turbidity control and habitat protection
  - Description of spill prevention and emergency response procedures for marine works
- Description of marine environmental monitoring during commissioning and operation
- The Tender design shall include drawings with sufficient details for easy understanding of the proposed onshore and offshore works, including:
  - Plan and profile drawings of proposed onshore and offshore pipelines alignment
  - Typical cross-sections of burial and stabilization works
  - Diffuser arrangement drawings
  - Typical and specific details at manholes and connections with existing structures, pipelines, …

To be underlined that the reference drawings for Jnah Sea Outfall and preliminary concept drawings for Ramlet El Bayda sea outfall are provided in the tender documents for information and reference purpose only and they shall not relieve the Contractor from full design responsibility (Refer to Notes in Section II-B. RFP Document)

The Tenderer shall also include a plan showing his proposed layout for temporary installations (especially marine equipment and accessories) and onshore and offshore works, including staging areas, marine access points and construction sequence.

C- EXISTING SEA OUTFALLS

(Two (2) Existing Ghadir Sea Outfalls)

The Tenderer shall provide a detailed report in his tender for the existing two (2) sea outfalls of the Ghadir WWTP. These two existing outfalls include: the main pumping sea outfall (DN 1200, approx. 2,600 m) and the emergency sea outfall (DN 1500, approx. 500 m), for which inspection, survey and condition assessment services are required under the Contract

The report shall include:

- proposed inspection techniques (ROV, divers, sonar, CCTV, etc.)
- methodology for internal inspection
- methodology for external marine survey
- access and safety procedures
- environmental protection measures
- proposed reporting format
- identification of risks and constraints

11. Operation and Maintenance Method Statement

The Tenderer shall provide a profound and detailed Operation and Maintenance method statement in his tender for the Treatment Plant and for each of the two New Sea Outfalls. The method statement shall at least include:

- Description of the organization of the O&M activities, including staffing
- Quality control system and HSE system for the O&M activities
- Organization and means for performance monitoring
- Preventive and Corrective Actions Plan
- Reporting activities
- Performance Measurement Sheets and Procedures
- Content, schedule and organization of the O&M training

12. Proposed Training Program

With reference to the Employer's Requirements, the Tenderer shall submit the outline of the required training program for the Employer's personnel.

This training program is a preliminary program developed later during the Design and Build Period.

Further, information shall be given about the proposed personnel for planning and performing of the training program. In case the training program will be subcontracted, relevant information shall be presented about the proposed Subcontractor.

All costs related to the above elements shall be included by the Tenderer in the appropriate item in the Price Schedules.

13. Proposed Program of Works

The Tenderer shall here insert a separate memorandum with charts showing details of his proposed program, from the Commencement Date, in respect to elapsed time in months for all significant operations, periods and milestones. Details should include but not necessarily be limited to:

a) Preparation of Final Design;

b) Periods for design and Engineer's approval

c) Periods for investigations and surveys;

d) Period required for mobilization after receipt of the Notice of Commencement Date;

e) The portions of the Site required from time to time;

f) Periods required for establishing Contractor's office, workshops and the Engineer's office and laboratory, as appropriate;

g) Periods of occupation of Contractor's site areas;

h) Relationship and timing of each operation to other operations within the Contract;

i) Division into sections and the section-wise taking over by the Employer;

j) Trial operation period

k) Commissioning test

l) Delivery to Site and installation of Plant and Materials;

m) Test on completion;

n) Clearance of Site and demobilization.

The proposed program shall be based on the requirements given in the Employer's Requirements.

14. Tenderer's Staff Organization Chart

The Tenderer is requested to illustrate his organization for the project, comprising site staff, design staff, home office back-up, support staff etc. (including Sub-contractors) and to draw a comprehensive organization chart showing the individual functions, name of person assigned as responsible, and name(s) of other persons assigned to that function, specifying the Treatment Plant works and the Sea Outfall works.

15. CVs of Key Staff

The Tenderer is requested to provide CVs of key staff using the form shown on the page below.

Curriculum Vitae

Proposed role in the project:

1. **Family name:**

2. **First names:**

3. **Date of birth:**

4. **Nationality:**

5. **Civil status:**

6. **Education:**

Institution [Date from – Date to]	Degree(s) or Diploma(s) obtained

7. **Language skills:** Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing

8. **Membership of professional bodies:**

9. **Other skills:** (e.g. Computer literacy, etc.)

10. **Present position:**

11. **Years within the firm:**

12. **Key qualifications:** (Relevant to the project)

13. **Professional experience**

Date [From – To]	Location	Company	Position	Description

14. **Other relevant information** (e.g. Publications)

16. Proposed Sub-Contractors

For soil treatment works (deep dynamic compaction) and for sea outfalls works and where the Tenderer intends to use Subcontractors for critical components of the works or for work contents in excess of 10% of the value of the whole works, the Tenderer shall enter in this Schedule a list of major items and approximate percentage of the works for which he proposes to use Subcontractors, together with the name, address and place of registration of the proposed Subcontractors:

Element of Work to be Subcontracted	Item Ref. to Price Schedules	Percentage of Works	Name, Address and Place of Registration of Subcontractor

The Tenderer shall also enter a statement of similar works previously executed by the proposed Subcontractors, including description, location and value of work, year completed and name and address of the Employer/Engineer. Notwithstanding such information the Tenderer, if awarded the Contract, shall remain entirely and solely responsible for the satisfactory completion of the Works.

17. Environmental Management Plan

In order to address potential environmental impacts associated with the construction of the Works and the Operation and Maintenance of the Works as outlined in the Tender Documents, the Tenderer shall submit an outline of his proposed EMP, applicable for onshore and offshore works, protecting also especially the marine environment.

The EMP shall include, but should not necessarily be limited, to the following:

- Solid waste disposal of all construction material and disposal sites for excess and waste materials in an environmentally safe manner; the material should be recycled to the extent possible and where this is not possible, it should be disposed of away from the Site in a suitable landfill within 20 km;
- Liquid waste management related to potential spills of combustibles and chemicals used during the construction in an environmentally safe manner away from the Site;
- Minimize equipment impacts related to the use of heavy machinery in relation to human health and the general environment. This includes minimizing potential damage on the vegetation, noise emissions, dust and accidental spills of combustibles which may lead to the contamination of potable water;
- Minimize equipment and works impact on the marine flora and fauna in the project area. To minimize also the impact on the navigation and marine traffic and the impact on the touristic activities.
- Take into consideration, especially for the sea outfalls works the concerned environmental international and national regulations (Mediterranean Action Plan (MAP-UNDP, especially MAP-TRS), United Nations Environmental Program (UNEP-WHO), Draft Standard Practice Documents (SPD-CDR-MEW-MoE, especially SPD 11), …)
- Sanitary waste disposal for all human waste at the offices and construction camp in an environmentally safe manner (e.g., chemical latrines);
- Quarries and borrow pits, the Tenderer shall describe from where he will extract the materials and which measures he will take in order to minimize the environmental impact during and after the construction period.
- Company’s environmental policy, including any details of certification or accreditation

Once the successful Tenderer is selected, he shall as Contractor meet the requirements of the relevant environmental authorities and obtain the required approvals.

All costs related to the above elements shall be included by the Tenderer in the appropriate item in the Price Schedule.

المنطقة والتاريخ

جانب وزارة البيئة

الموضوع:	تعهد بالالتزام بخطة الإدارة البيئية الخاصة بتقرير تقييم الأثر البيئي العائد لمشروع..... – قضاء .....– محافظة .....
المرجع:	- تقرير تقييم الأثر البيئي العائد لمشروع ..... والمسجّل في وزارة البيئة تحت الرقم .....تاريخ..... - كتاب وزارة البيئة رقم ..... تاريخ.....

إنا الموقع أدناه، السيّد _____، بصفتي مدير عام شركة _____، أتعهد بتنفيذ جميع بنود خطة الإدارة البيئية الخاصة بتقرير تقييم الأثر البيئي الذي قام بإعداده الفريق الإستشاري في شركة _____، بصيغتها الموافق عليها من قبل وزارة البيئة وذلك خلال أعمال الإنشاء والتشغيل والتفكيك، بما في ذلك تقديم التقارير الدورية إلى وزارة البيئة، والمحددة كل .....أشهر.

وانني أتعهّد أن جميع المعلومات التي زودت بها وزارة البيئة هي معلومات صحيحة ودقيقة، وتعكس الواقع الحقيقي لطبيعة المشروع الذي اقوم به؛ كما أتعهد بالتعاطي مع أي أثر بيئي لم يذكر في تقرير تقييم الأثر البيئي او تم تقديره خطأ ولكن تبيّن وجوده خلال أعمال الإنشاء والتشغيل والتفكيك.

كما وأتعهّد بتقديم كل المساعدة والمعلومات والمستندات الضرورية التي من شأنها تسهيل مهمة وزارة البيئة في الرقابة اللاحقة وبالأخص مراقبة حسن تطبيق خطة الإدارة البيئية المشار اليه أعلاه.

وأتعهّد أيضاً بالالتزام بجميع القوانين والأنظمة المرعية الإجراء، لا سيّما القوانين والأنظمة البيئية التالية:

- القانون رقم ٦٤ تاريخ ١٩٨٨/٨/١٢ (المحافظة على البيئة ضد التلوّث من النفايات الضارة والمواد الخطرة)
- القانون رقم ٤٤٤ تاريخ ٢٠٠٢/٧/٢٩ (حماية البيئة)
- المرسوم رقم ٨٦٣٣ تاريخ ٢٠١٢/٨/٧ (أصول تقييم الأثر البيئي)
- قرار وزير البيئة رقم ١/٥٢ تاريخ ١٩٩٦/٧/٢٩ (تحديد المواصفات والنسب الخاصّة للحدّ من تلوّث الهواء والمياه والتربة)
- قرار وزير البيئة رقم ١/٨ تاريخ ٢٠٠١/١٢/٣٠ (المواصفات والمعايير المتعلّقة بملوّثات الهواء والنفايات السائلة المتولّدة عن المؤسسات المصنّفة ومحطّات معالجة المياه المبتذلة)

وانني أقرّ بأن مسؤولية وزارة البيئة محصورة بإبداء موقفها من تقرير تقييم الأثر البيئي، وبالتالي فإن وزارة البيئة لا تتحمّل اية مسؤولية او تبعية قانونية أو مادية قد تنشأ عن أي عمل أو أية مطالبة أو ملاحقة أو مخالفة تتعلّق بتصرفاتي.

كما أعي أن عدم التزامي بهذا التعهّد يعرضني للمسؤوليات والعقوبات المنصوص عليها في الباب السادس من القانون ٢٠٠٢/٤٤٤ والمواد الثامنة والحادية عشرة والخامسة عشرة من المرسوم ٢٠١٢/٨٦٣٣.

وتفضلوا بقبول فائق الشكر والاحترام
السيّد _____(المدير العام)

18. Technical Schedules

Table Of Contents

1. INTRODUCTION 85

A. WWTP **85**

A.1. PROCESS INFORMATION 85
A.2. SEWERAGE PUMPS (PRIMARY EFFLUENT) 87
A.3. FINE SCREENS 87
A.4. SCREW CONVEYORS AND SCREW PUMPS 88
A.5. SCREENING PRESS AND WASHING SYSTEM 89
A.6. GRIT AND GREASE CHAMBER SYSTEM 90
A.7. GRIT CLASSIFYING SYSTEM 91
A.8. GRIT WASHING SYSTEM 92
A.9. AIR BLOWERS FOR GRIT REMOVAL TANKS 93
A.10. MIXERS 94
A.11. PRIMARY SEDIMENTATION 95
A.12. PRIMARY SLUDGE TRANSFER PUMPS 95
A.13. GRAVITY THICKENING EQUIPMENT FOR PRIMARY SLUDGE 96
A.14. SLUDGE SCREEN FOR PRIMARY SLUDGE 97
A.15. MIXER FOR BUFFER TANK (PRIMARY SLUDGE) 97
A.16. ANAEROBIC DIGESTER EQUIPMENT 98
A.17. DEWATERING EQUIPMENT 100
A.18. POLYMER EQUIPMENT 101
A.19. DOSING PUMPS 101
A.20. MISCELLANEOUS PUMPS 102
A.21. VENTILATION EQUIPMENT 103
A.22. AIR COMPRESSORS 104
A.23. CONVEYING EQUIPMENT 105
A.24. LIME FEEDING SYSTEM (FOR SLUDGE STABILIZATION) 106
A.25. BIO TRICKLING FILTER FOR ODOR TREATMENT 107
A.26. PIPES 108
A.27. INSTRUMENTATION EQUIPMENT 108
A.28. DIESEL GENERATORS 109
A.29. BIOGAS GENERATORS 109
A.30. MV CELLS 110
A.31. MV/LV TRANSFORMER 111
A.32. LOW VOLTAGE MCC 111
A.33. SERVERS PANEL 112
A.34. SERVERS HARDWARE AND SOFTWARE 113
A.35. WORKSTATIONS HARDWARE AND SOFTWARE 114
A.36. PRINTERS 114
A.37. PLC PANEL AND CONTROL HARDWARE 115
A.38. SPARE PARTS 116

B JNAH SEA OUTFALL **117**

B.1. ONSHORE TIE-IN WORKS AND APPURTENANCES 117
B.2. SUBMARINE PIPELINE (OFFSHORE) – PIPE DATA 117
B.3. DIFFUSER SYSTEM 118
B.4. STABILIZATION / PROTECTION / BURIAL WORKS 118
B.5. MONITORING 118
B.6. SEA OUTFALL SPARE PARTS AND SPECIAL TOOLS 119

C RAMLET ELBAYDA SEA OUTFALL **120**

C.1. ONSHORE TIE-IN WORKS AND APPURTENANCES 120

C.2. SUBMARINE PIPELINE (OFFSHORE) – PIPE DATA 120
C.3. DIFFUSER SYSTEM 121
C.4. STABILIZATION / PROTECTION / BURIAL WORKS 121
C.5. MONITORING 121
C.6. SEA OUTFALL SPARE PARTS AND SPECIAL TOOLS 122

D GHADIR EXISTING TWO (2) SEA OUTFALLS- SURVEY, INSPECTION AND ASSESSMENT 123

D.1. EXTERNAL INSPECTION 123
D.2. INTERNAL INSPECTION 123
D.3. CORROSION / CATHODIC PROTECTION 123
D.4. HYDRAULIC / HEAD ASSESSMENT 123

1. INTRODUCTION

The Tenderer shall fill in the Technical Schedules and include them in his Tender. The schedules given hereafter may not cover all the items and equipment that the Tenderer intends to install, or may cover items or equipment that the Tenderer does not intend to install. The Tenderer should in such cases adjust or create Schedules for additional equipment and exclude Schedules that are not relevant, so that all major equipment items are described in the Schedules.

In addition to the WWTP items, the Tenderer shall fill in and submit Technical Schedules for each of the two (2) sea outfall systems (Jnah Sea Outfall and Ramlet El Bayda Sea Outfall), including onshore/offshore pipelines, diffusers, protection and stabilization works, valves and appurtenances, monitoring and instrumentation, and all accessories required for complete operation and maintenance.

A. WWTP

A.1. Process Information

The Tenderer shall submit the process information listed below for every process unit included in the Tender for the WWTP at design load conditions. The schedules below are indicative only and should be adapted by the Tenderer to suit his process. The schedules should as a minimum indicate the values of the compulsory design parameters stated in the Employer's Requirements, the main dimensions, the number of parallel units, the kinetics coefficients for biological treatment and all other design parameters used.

Archimedean Screw Pumps	Unit	Information
Number of Pumps	No	
Capacity	m^3/s	
Flight length	m	
Touch point – chute point	M	
Filling point – chute point	M	
Chute point level	M	
Filling point level	M	
Touch point level	m	
Angle of inclination	Degrees	
Power supply	V / Hz	
Ambient temperature min	°C	
max	°C	
Screw Pump Body		
Screw Pump diameter	mm	
Tube diameter	mm	
Pitch	mm	
Flight length	mm	
Length of tube	mm	
Thickness of screw blades	mm	
Wall thickness of tube	mm	
Material of flight		
Material of tube		
Side rail		
Length	mm	
Thickness	mm	
Material		
Cast-in trough		
Length	mm	
Thickness	mm	
Material		

Archimedean Screw Pumps	Unit	Information
Screw pump bearings		
Upper bearing type		
Design life time upper bearing	hr	
Material upper bearing housing		
Shaft material		
Lower bearing type		
Design life time lower bearing	hr	
Material lower bearing housing		
Shaft material		
Material bushing		
Gearbox		
Type		
Nominal power	kw	
Speed	RPM	
Efficiency class		
Service factor on Pshaft		
Reduction ratio		
Type of lubrication		
Electric Motor		
Type		
Power installed	kw	
Speed	RPM	
Phase/Voltage	V	
Frequency	Hz	
Starting type		
Efficiency full load	%	
Protection class	IP	
Insulation class		
Secondary coupling		
Type		
Nominal torque	Nm	
Surface Protection		

Grit and Grease Chambers	Unit	Information
Number of Chambers	No	
Length of Chambers	m	
Width of Grit Chambers	m	
Width of Grease Chambers	m	
Maximum water depth	m	
Total area of Grit Chambers	m^2	
Total area of Grease Chambers	m^2	
Total volume of Grit Chambers	m^3	
Total volume of Grease Chambers	m^3	
Retention time total volume at peak hour flow	minutes	
Retention time total volume at peak hour flow in downgraded operation	minutes	
Hydraulic Surface Load Total Surface at peak hour flow	m/h	
Hydraulic Surface Load Total Surface at peak hour flow in downgraded operation	m/h	

Distribution Chamber	Unit	Information
Number of weirs	No	
Total length of weirs	m	
Hydraulic head above weir at peak hour flow	m	

Aeration process for the grit tank	Unit	Information
Number of blowers		
Unit capacity per blower	Nm^3/h	
Total air requirement	Nm^3/h	

A.2. Sewerage Pumps (Primary Effluent)

The Tenderer shall submit the information listed below for every **sewage pump** included in the Tender.

(Submersible Dry Type) Sewage Pumps	Unit	Information
Name of manufacturer of pump		
Type of pump and impeller type		
Capacity	m^3/h	
Head	m	
Efficiency of pump at duty point	%	
Nominal rotating speed	r/min	
Effluent pipe diameter	mm	
Input power on shaft	kW	
Required NPSH	m	
Passing granulated diameter	mm	
Type of bearings and seals		
Noise	dB (1m)	
Main operation loads	kg	
Shaft output	kW	
Power factor, lagging		
Rating of capacitors, if necessary		
Weight	kg	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.3. Fine Screens

The Tenderer shall submit the information listed below for each **fine screen** included in the Tender.

Fine Screens	Unit	Information
Name of manufacturer		
Production year		
Type specification		
Number of units		
Width	m	
Clear bar spacing	mm	
Bar thickness	mm	
Maximum capacity	m^3/h	
Maximum velocity	m/s	
Installation angle	°	
Hydraulic head loss at peak dry weather flow	m	
Weight	kg	
Primer painting: type / thickness	/ µm	

Fine Screens	Unit	Information
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.4. Screw Conveyors and Screw Pumps

The Tenderer shall submit the information listed below for every **screw conveyor and screw pump** included in the Tender.

Screw Conveyors / Screw Pumps	Unit	Information
Spiral type:		
Name of manufacturer		
Production year		
Type specification		
Spiral Diameter	m	
Nominal Rotational speed	r/min	
Conveyer length	m	
Maximum capacity	m^3/h	
Max conveyed solid diameter	mm	
Weight	kg	
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.5. Screening Press and Washing System

The Tenderer shall submit the information listed below for the **screening press and washing system** included in the Tender.

Screening Washing and Press	Unit	Information
Name of manufacturer		
Production year		
Type specification		
Diameter	m	
Weight	kg	
Maximum capacity	m^3/h	
Nominal Rotational speed	r/min	
Length of conveyor	m	
Length of wash zone	m	
Length of press zone	m	
Amount of flush water for wash zone	l/s	
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Dry matter content in pressed material	%DM	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.6. Grit and Grease Chamber System

The Tenderer shall submit the information listed below for the **grit and grease chamber system** included in the Tender.

Grit And Grease Chamber Equipment	Unit	Information
Name of manufacturer		
Production year		
Type specification		
Weight	kg	
Maximum Capacity	m^3/h	
Bridge length	m	
Bridge width	m	
Bridge speed	m/min	
Input and output ports diameters	mm	
Main operation loads	kg	
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.7. Grit Classifying System

The Tenderer shall submit the information listed below for the **grit classifying system** included in the Tender.

Grit Classifying Equipment	Unit	Information
Name of manufacturer		
Production year		
Type specification		
Diameter	m	
Maximum capacity	m^3/h	
>0.2mm grit removing efficiency	%	
Water content of overflowing materials	%	
Installation angle	°	
Weight	kg	
Screw (rotational) speed	rpm	
Length of screw	m	
Main operation loads	kg	
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.8. Grit Washing System

The Tenderer shall submit the information listed below for the **grit washing system** included in the Tender.

Grit Washing Equipment	Unit	Information
Name of manufacturer		
Production year		
Type specification		
Diameter	m	
Maximum capacity	m^3/h	
Organic matter content in washed grit	% of DM	
Conveyors (rotational) speed	rpm	
Length of conveyor	m	
Length of draining zone	m	
Amount of flush water	l/s	
Main operation loads	kg	
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.9. Air Blowers for Grit Removal Tanks

The Tenderer shall submit the information listed below for each **air blower** included in the Tender.

Air Blowers	Unit	Information
Name of manufacturer of blower		
Production year		
Quantity		
Type and specifications		
Capacity	Nm^3/h	
Head	mbar	
Efficiency at duty point	%	
Nominal rotational speed	r/min	
Input and output diameters		
Input power on shaft	kW	
Shaft output	kW	
Weight	kg	
Noise	dB (A)	
Power factor, lagging		
Rating of capacitors, if necessary		
Pressure increasing curve	Bars	
Input flow curve	m^3/min	
Absorbed power curve	kW	
Main operation loads	kg	
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.10. Mixers

The Tenderer shall submit the information listed below for every **mixer** included in the Tender.

Mixers	Unit	Information
Name of manufacturer of mixer		
Production year		
Type / specification		
Type of propeller		
Input power on shaft	kW	
Shaft output	kW	
Type of bearings and seals		
Shaft diameter	mm	
Shaft length	m	
Rotation speed	rpm	
Thrust bearing	kN	
Radial bearing	kN	
Weight	kg	
Power factor, lagging		
Rating of capacitors if necessary		
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.11. Primary Sedimentation

The Tenderer shall submit the information listed below for the **primary sedimentation** included in the Tender.

Primary sedimentation	Unit	Information
Lamellar sedimentation tank		
Volume of the tank	m^3	
Model of blade		
Hazen velocity	m/h	
Model of lamellar		
Lamellar angle	°	
Lamellar spacing	mm	
Lamellar height	m	
Maximum velocity	m/s	
Driving motor:		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.12. Primary Sludge Transfer Pumps

Primary Sludge Pumps	Unit	Information
Name of manufacturer of pump		
Type of pump		
Capacity	m^3/h	
Head	m	
Efficiency of pump at duty point	%	
Nominal rotating speed	r/min	
Effluent pipe diameter	mm	
Input power on shaft	kW	
Required NPSH (if applicable)	m	
Type of bearings and seals		
Noise	dB (1m)	
Main operation loads	kg	
Shaft output	kW	
Power factor, lagging		
Rating of capacitors, if necessary		
Weight	kg	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.13. Gravity Thickening Equipment for Primary Sludge

The Tenderer shall submit the information listed below for the **thickening equipment** included in the Tender.

Gravity Thickening tanks	Unit	Information
Name of manufacturer		
Production year		
Quantity		
Diameter	m	
Type specification		
Weight	kg	
Model of scrapers		
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.14. Sludge Screen for Primary Sludge

The Tenderer shall submit the information listed below for the **sludge screen** included in the Tender.

Sludge Screen for Thickened Primary Sludge	Unit	Information
Name of manufacturer		
Production year		
Quantity		
Type		Self-cleaning continuous fine screen
Mesh	mm	3
Model	kg	
Dimensions		
Discharge height	mm	
Screen Angle	Degree	
Material		
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.15. Mixer for Buffer Tank (Primary Sludge)

The Tenderer shall submit the information listed below for the **buffer tank mixer** included in the Tender.

Mixer for Buffer Tank (Primary Sludge)	Unit	Information
Name of manufacturer		
Tank diameter and Height	m x m	
Quantity		
Mixer Type		
Shaft Length	mm	
Shaft Material		
Model	kg	
Motor Power	kW	
Speed	RPM	

A.16. Anaerobic Digester Equipment

The Tenderer shall submit the information listed below for the **dewatering equipment** included in the Tender.

Anaerobic Digester Equipment	Unit	Information
Digester Diameter	m	
Digester Height	m	
Type		
Quantity		
Thickened Sludge Transfer Pumps		
Type of pump		
Capacity	m^3/h	
Head	m	
Efficiency of pump at duty point	%	
Nominal rotating speed	r/min	
Effluent pipe diameter	mm	
Input power on shaft	kW	
Required NPSH (if applicable)	m	
Type of bearings and seals		
Noise	dB (1m)	
Main operation loads	kg	
Shaft output	kW	
Power factor, lagging		
Rating of capacitors, if necessary		
Weight	kg	
Digested Sludge Transfer Pumps		
Type of pump		
Capacity	m^3/h	
Head	m	
Efficiency of pump at duty point	%	
Nominal rotating speed	r/min	
Effluent pipe diameter	mm	
Input power on shaft	kW	
Required NPSH (if applicable)	m	
Type of bearings and seals		
Noise	dB (1m)	
Main operation loads	kg	
Shaft output	kW	
Power factor, lagging		
Rating of capacitors, if necessary		
Weight	kg	
Mixer		
Name of manufacturer		
Tank diameter and Height	m x m	
Quantity		
Mixer Type		
Shaft Length	mm	
Shaft Material		
Model	kg	
Motor Power	kW	
Speed	RPM	
Biogas Transfer Blower		
Name of manufacturer of blower		
Production year		
Quantity		

Anaerobic Digester Equipment	Unit	Information
Type and specifications		
Capacity	Nm^3/h	
Head	mbar	
Efficiency at duty point	%	
Nominal rotational speed	r/min	
Input and output diameters		
Input power on shaft	kW	
Shaft output	kW	
Weight	kg	
Noise	dB (A)	
Power factor, lagging		
Rating of capacitors, if necessary		
Pressure increasing curve	Bars	
Input flow curve	m^3/min	
Absorbed power curve	kW	
Main operation loads	kg	
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	
Digester Heating		
Type		
Manufacturer		
Model		
Quantity		
Heating temperature	°C	
Power	kW	
Material		
Flame Arrester (Enclosed)		
Manufacturer		
Model		
Height		
Type		
Type of insulation lining		
Fully Automatic Operation (Y/N)		
Fume retention time	sec	
Other Equipment *(Contractor to list)*		

A.17. Dewatering Equipment

The Tenderer shall submit the information listed below for the **dewatering equipment** included in the Tender.

Dewatering Equipment	Unit	Information
Name of manufacturer		
Model		
Production year		
Number of dewatering lines		
Type and specifications of pre-dewatering units		
Number of pre-dewatering units		
Capacity of pre-dewatering equipment per line	kg DM/h	
Type specification of dewatering units		
Number of dewatering units		
Capacity of dewatering equipment per line	kg DM/h	
Maximum capacity of dry matter dewatered to 28% per dewatering line after lime addition	kg DM/h	
Power consumption per ton dry matter dewatered and stabilized to 28%	kWh	
Control systems		
Consumption of wash water	m^3/h	
Supply pressure for wash water	Bar	

A.18. Polymer Equipment

The Tenderer shall submit the information listed below for the **polymer equipment** included in the Tender.

Polymer Equipment	Unit	Information
Name of manufacturer		
Production year		
Type and specifications of polymer equipment		
Storage volume for dry powder	kg	
Preparation capacity dry powder	kg/h	
Preparation volume for stock solution	m3	
Mixer speed for stock solution	rpm	
Concentration of stock solution	%	
Volume for dosing solution	m3	
Mixer speed for dosing solution	rpm	
Concentration of dosing solution	%	
Name of manufacturer of dosing pump		
Type and specifications for dosing pump		
Number of dosing pumps		
Capacity of dosing pump	l/h	
Control systems		
Maximum capacity of dry powder as dosing solution	kg/h	
Power consumption per kg dry powder	kWh	

A.19. Dosing Pumps

The Tenderer shall submit the information listed below for each **dosing pump** included in the Tender.

Dosing Pumps	Unit	Information
Name of manufacturer of pump		
Type of pump		
Capacity	l/s	
Head	m	
Efficiency of pump at duty point	%	
Outlet pipe diameter	mm	
Accuracy of dosing regarding flow rate	%	
Accuracy of dosing regarding linearity	%	
Repeatability of calibration	%	
Noise	dB (1m)	
Weight	kg	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.20. Miscellaneous Pumps

The Tenderer shall submit the information listed below for each **miscellaneous pump** included in the Tender.

Miscellaneous Pumps	Unit	Information
Name of manufacturer of pump		
Type of pump and impeller type		
Capacity	m^3/h	
Head	m	
Efficiency of pump at duty point	%	
Nominal rotating speed	r/min	
Outlet pipe diameter	mm	
Input power on shaft	kW	
Required NPSH	m	
Type of bearings and seals		
Noise	dB (1m)	
Shaft output	kW	
Power factor, lagging		
Rating of capacitors, if necessary		
Weight	kg	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotating speed	r/min	
Efficiency	%	

A.21. Ventilation Equipment

The Tenderer shall submit the information listed below for **ventilation equipment** included in the Tender.

Ventilation Equipment	Unit	Information
Name of manufacturer		
Type of ventilator		
Inlet air flow	m³/h	
Outlet air flow	m³/h	
Pressure difference	kPa	
Efficiency	%	
Nominal rotating speed	r/min	
Type of bearings and seals		
Noise	dB (1m)	
Weight	kg	
Main operation loads	kg	
Primer painting: type / thickness	µm	
Intermediate painting coats: type / thickness	µm	
Aeration ducts specifications		
Air velocity in ducts	m/s	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotating speed	r/min	
Efficiency	%	

A.22. Air Compressors

The Tenderer shall submit the information listed below for each **air compressor** included in the Tender.

Air Compressors	Unit	Information
Name of manufacturer of compressor		
Production year		
Type and specifications		
Capacity	Nm^3/h	
Head	mbar	
Efficiency at duty point	%	
Nominal rotational speed	r/min	
Input and output diameters		
Input power on shaft	kW	
Shaft output	kW	
Weight	kg	
Noise	dB (A)	
Power factor, lagging		
Rating of capacitors, if necessary		
Pressure increasing curve	Bars	
Input flow curve	m^3/min	
Absorbed power curve	kW	
Main operation loads	kg	
Primer painting: type / thickness	/ µm	
Intermediate painting coats: type / thickness	/ µm	
Driving motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotational speed	r/min	
Efficiency	%	

A.23. Conveying Equipment

The Tenderer shall submit the information listed below for **conveying equipment** included in the Tender.

Conveying Equipment	Unit	Information
Name of manufacturer		
Type of equipment		
Hoisting capacity	t	
Lifting height	m	
Rail distance	m	
Hoisting speed	m/min	
Traveling speed	m/min	
Steel cable specification		
Steel rail model		
Brake type		
Power supply method		
Primer painting: type / thickness	µm	
Intermediate painting coats: type / thickness	µm	
Type of bearings and seals		
Noise	dB (1m)	
Weight	kg	
Main operation loads	kg	
Travelling motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotating speed	r/min	
Efficiency	%	
Hoisting motor:		
Model		
Manufacturer		
Weight	kg	
Rated power	kW	
Rated voltage	V	
Protective grade	IP	
Insulation grade		
Nominal rotating speed	r/min	
Efficiency	%	

A.24. Lime Feeding System (for sludge stabilization)

The Tenderer shall submit the information listed below for the chemical scrubber odor treatment system included in the Tender.

Lime Feeder System	Unit	Information
Name of manufacturer of system		
Type / specification		
Production year		
Storage Silo		
Material of Construction/Internal Finish/External Finish		
Storage capacity	m^3	
Autonomy	day	
Lime throughput	m^3/h	
Slurry concentration (up to)	%	
Feeder Speed (Variable of Fixed)		
Mixing Tank		
Volume	m^3	
Material of Construction/Internal Finish/External Finish		
Mixer shaft/impeller material		
Transfer pump capacity/head	m^3/h, h	
Power		
Silo Fill Panel	kW	
Motor Starter Panel	kW	
Piping Material		
Instruments air		
Water		
Slurry		
Solution		
Process / Utility requirements		
Mixing Water	m^3/h	
Instruments Air	m^3/h	

A.25. Bio Trickling Filter for Odor Treatment

The Tenderer shall submit the information listed below for the **chemical scrubber odor** treatment **system** included in the Tender.

Biological Deodorization System	Unit	Information
Name of manufacturer of system		
Type / specification		
Production year		
Type / specification of towers		
Towers dimensions		
Type of filling material		
Filling material exchange area	m^2/m^3	
Filling material height	m	
Filling material maximum head losses	mmWC	
Type / specification of sprinklers		
Life time of sprinklers	year	
Type / specification of mist eliminator		
Type / specification of HDPE tank with stirrer		
Type / specification of flow rate meter / accumulating meter		
Recirculation Pumps		
Pump Flow	m^3/hr	
Pump Head	m	
Quantity		
Manufacturer		
Model		
Supply Fans		
Capacity	m^3/hr	
Head	mbar	
Quantity		
Material of Construction		
Primer painting: type / thickness	µm	
Intermediate painting coats: type / thickness	µm	
Weight	kg	
Main operation loads	kg	
Instruments		
Contractor to list		
Auxiliary equipment *(Contractor to list)*		

A.26. Pipes

The Tenderer shall submit the information listed below for every **type of pipe** included in the Tender.

Pipes	Unit	Information
Proposed mounting area (above or below ground)		
Name of manufacturer of pipe		
Pipe type		
Range of diameters		
Life time for pipe	Year	
Fittings for pipe		
Name of manufacturer of fitting		
Life time for fitting	Year	

A.27. Instrumentation Equipment

The Tenderer shall submit the information listed below for the **instrumentation equipment** included in the Tender.

Instrumentation Equipment	Type	Information
Type specification of:		
Panels and boards		
Isolators		
Circuit breakers		
Pressure transducers		
Dissolved oxygen meters		
Gas detectors and measurers		
Redox potential measurers		
pH and rH measurers		
Ultrasonic level meters		
Ultrasonic flow meters		
Venturi flow meter		
Portable air flow meters		
Electromagnetic flow meters		
Sludge level meters, if used		
Sludge density meters		
Samplers		
Head loss sensor		
Level electrodes, if used		
Level switches, if used		
For each of this equipment shall be given at least:		
Equipment No.		
Transmitter		
Model No.		
Manufacturer		
Performances		
Sampling mode		
Output		
Precision		
Sensitivity		
Repeatability		
Power Supply		
Display		
Protection Grade		
Probe		
Measuring Scope		

Instrumentation Equipment	Type	Information
Measuring Precision		
Length of Special Cable		
Installation		

A.28. Diesel Generators

The Tenderer shall submit the information listed below for the **Diesel Generators** included in the Tender.

Description	Unit	Information
DIESEL GENERATORS GENERAL:		
Manufacturer/type		
Overall dimensions (h x w x d)	mm	
Total weight	kg	
DIESEL ENGINE:		
Manufacturer/type of the engine		
Manufacturer/type of the speed governor		
Rated power	KW	
Number and arrangement of cylinders		
Total cylinder capacity		
Nominal speed	rpm	
Starting system		
Turbo charged		
Fuel consumption:		
at 100% load	l/kWh	
at 110% load	l/kWh	
at 75% load	l/kWh	
at 50% load	l/kWh	
Capacity of daily fuel tank	l	
Capacity of main storage fuel tank	m^3	
Capacity of lubricating oil tank	l	
Oil consumption per 24 hours	l/day	
AC GENERATOR:		
Type		
Capacity		
Voltage / Phase	V / phase	
Frequency	Hz	
Insulation Class		
Heating Class		
Protection of enclosure		
Excitation and Voltage regulator type		
Noise	dB (1m)	

A.29. Biogas Generators

The Tenderer shall submit the information listed below for the Gas Generators included in the Tender.

Description	Unit	Information
BIOGAS GENERATOR GENERAL:		
Manufacturer/type		
Overall dimensions (h x w x d)	mm	
Total weight	kg	
DIESEL ENGINE:		
Manufacturer/type of the engine		
Manufacturer/type of the speed governor		
Rated power	KW	
Number and arrangement of cylinders		
Total cylinder capacity	l	

Description	Unit	Information
Nominal speed	rpm	
Starting system		
Turbo charged		
Fuel consumption:		
at 100% load	m^3/h	
at 110% load	m^3/h	
at 75% load	m^3/h	
at 50% load	m^3/h	
Capacity of daily fuel tank	l	
Capacity of main storage fuel tank	m^3	
Capacity of lubricating oil tank	l/day	
Oil consumption per 24 hours	m^3	
AC GENERATOR:		
Type		
Capacity		
Voltage / Phase	V / phase	
Frequency	Hz	
Insulation Class		
Heating Class		
Protection of enclosure		
Excitation and Voltage regulator type		
Noise	dB (1m)	

A.30. MV Cells

The Tenderer shall submit the information listed below for the **MV Cells** included in the Tender.

Description	Unit	Information
MV Cells		
GENERAL:		
Manufacturer and trademark		
Overall dimensions (h x w x d)	mm	
Total weight	kg	
SWITCHGEARS:		
Total of Switchgears:		
ELECTRICAL CARACTERISTICS:		
Network rated voltage	kV	
Rated frequency	Hz	
Neutral system		
Switchgear type		
Insulation		
Insulation voltage	Ur (kV)	
Withstand voltage	Ud (kV)	
Impulse withstand voltage	Up (kV)	
Rated short-time withstand current	Ik (kA) / td (s)	
Rated peak withstand current	Ip	
Partition class	Class	
Internal arc withstands current	kA	
Panel manufacturing material		
Coating		
Protection degree of external enclosure	IP	

A.31. MV/LV Transformer

The Tenderer shall submit the information listed below for the **MV/LV Transformer** included in the Tender.

Description	Unit	Information
MV Cells		
GENERAL:		
Manufacturer and trademark		
Overall dimensions (h x w x d)	mm	
Total weight	kg	
TYPE OF TRANSFORMER:		
Type		
Refrigeration system		
Refrigerant liquid		
Type of construction		
ELECTRICAL CARACTERISTICS:		
Transformer type		
Rated apparent power	kVA	
Primary voltage	kV	
Rated frequency	Hz	
Secondary voltage (no load)	V	
Secondary voltage (on load)	V	
Voltage tolerance	%	
Primary insulation voltage	kV	
Secondary insulation voltage	kV	
Primary rated current	A	
Secondary rated current	A	
Short circuit impedance	%	
Efficiency at 50% load	%	
Efficiency at 75% load	%	
Efficiency at 100% load	%	
Oil / Wending temperature rise	°C	
Noise level (at 1m)	dB(A)	

A.32. Low Voltage MCC

The Tenderer shall submit the information listed below for the **Low Voltage MCC** included in the Tender.

Description	Unit	Information
MV Cells		
GENERAL:		
Manufacturer and trademark		
Overall dimensions (h x w x d)	mm	
Total weight	kg	
ELECTRICAL CARACTERISTICS:		
Rated voltage of main supply	V	
Rated frequency	Hz	
Neutral system		
Assigned insulation voltage	V	
Dielectric test voltage	V	
Lightning impulse insulation level	kV	
Rated short-time withstand current	Ik (kA) / td (s)	
Rated peak withstand current	kA	
Arc-proof assembly	kA	
Protection devices coordination		

Description	Unit	Information
CONSTRUCTION CARACTERISTICS:		
Arrangement		
Accessibility for operation and maintenance		
Panel manufacturing material		
Color		
Coating		
Protection degree of panel	IP	
Protection degree of life parts	IP	

A.33. Servers Panel

The Tenderer shall submit the information listed below for the **Servers Panel** included in the Tender.

Description	Unit	Information
Servers Panel		
GENERAL:		
Manufacturer and trademark		
STANDARDS:		
Dimensions of mechanical structures	Inch	
MAIN CARACTERISTICS:		
Optical fibers connection		
Optical fibers connection box	No / Type	
Voltage supply: AC safe voltage		
Rated voltage	VAC	
Neutral system		
Supply source		
Voltage supply for switches: DC safe voltage		
Rated voltage		
Supply source	VDC	
Power supply (s)	N°	
Output current of each power supply		
CONSTRUCTION CARACTERISTICS:	A	
Type of construction		
Devices arrangement		
Door		
High of rack		
Frame	U	
Height x length x depth		
Total weight	mm	
Accessibility for operation and maintenance	kG	
Panel manufacturing material		
Color		
Coating		
Cables access		
Protection degree of panel	IP	
Protection degree of life parts	IP	

A.34. Servers Hardware and Software

The Tenderer shall submit the information listed below for the **Servers Hardware and Software** included in the Tender.

Description	Unit	Information
Servers Hardware and Software		
HARDWARE:		
No of servers	No	
Manufacturer and trademark		
Voltage	VAC	
Frequency	Hz	
CPU	GHz	
SDRAM	Gb	
Video card	Mb	
OS hard disks		
Data hard disks		
CD/DVD reader/writer	Yes / No	
Communication ports	Type	
Dimensions: height x length x depth	mm	
Weight	kG	
Installation	High size	
SOFTWARE:		
OS		
Scada software license		
Antivirus		
HMI:		
Screen	inch	
Active-matrix resolution		
Pixel pitch		
Response time	ms	
Keyboard	Yes / No	
Connectivity	Type	
Voltage	V	
Frequency	Hz	
Dimensions: height x length x depth	mm	
Weight	kG	
Installation	High size	

A.35. Workstations Hardware and Software

The Tenderer shall submit the information listed below for the **Workstations Hardware and Software** included in the Tender.

Description	Unit	Information
Workstations Hardware and Software		
HARDWARE:		
No of workstations	No	
Manufacturer and trademark		
Voltage	VAC	
Frequency	Hz	
CPU	GHz	
SDRAM	Gb	
Video card	Mb	
Outputs	Type	
Hard disks	Gb	
CD/DVD reader/writer	Yes / No	
Communication ports	Type	
Dimensions: height x length x depth	mm	
SOFTWARE:		
OS		
Scada software license		
PLC programming software		
Antivirus		
Other software	inch	
SCREENS:		
No of screens	No	
Manufacturer and trademark		
Viewable image size	inch	
Maximum resolution		
Pixel pitch		
Color depth		
Contrast ratio		
Response time	ms	
Connectivity	Type	
Voltage	VAC	
Frequency	Hz	

A.36. Printers

The Tenderer shall submit the information listed below for the **Printers** included in the Tender.

Description	Unit	Information
Printers		
CHARACTERISTICS:		
No of printers	No	
Manufacturer and trademark		
Type		
Resolution	dpi	
Paper size	A	
Speed	ppm	
Memory	Mb	
Paper output	Sheets	
Connectivity	Type	
Voltage	VAC	
Frequency	Hz	

A.37. PLC Panel and Control Hardware

The Tenderer shall submit the information listed below for the **PLC Panel and Control Hardware** included in the Tender.

Description	Unit	Information
PLC Panel and Control Hardware		
GENERAL:		
Manufacturer of control hardware		
SUPPLY VOLTAGE: **Voltage supply for control system: AC safe voltage**	VAC	
Rated voltage of auxiliary supply		
Neutral system		
Supply source		
Voltage supply for control system: DC safe voltage	VDC	
Rated voltage		
Supply source	N°	
Power supply (s)		
Output current of each power supply	A	
MAIN COMPONENT CARACTERISTICS:		
Type of construction		
Optical fibers connection		
Optical fibers connection box	No / Type	
HARDWARE OF CONTROL SYSTEM:		
Racks		
Power supplies	No Slots	
CPUs	VDC	
Sockets RJ45		
Ethernet communication cards		
Distributed I/O system		
Racks		
Power supplies		
Ethernet RIO		
Digital inputs cards		
Digital outputs cards		
Analog inputs cards		
Analog outputs cards		
Switch ethernet		
Electrical network analyzer and meters communications		
Modbus TCP / RTU gateway		
Modbus splitter boxes		
VFDs communications		
Modbus TCP / RTU gateway		
Modbus splitter boxes		
Process control communication switches		
Switches Ethernet / MM optical fibers		
Managed switch	YES /	
Ports Ethernet 10/100TX	No	
Ports Ethernet 100FX Multimode	No	
Auxiliary supply voltage	VDC	
Installation		
Managed switch		

Description	Unit	Information
CONSTRUCTION CARACTERISTICS:		
Height x length x depth		
Weight	mm	
Accessibility for operation and maintenance	kG	
Panel manufacturing material		
Color		
Coating		
Protection degree of panel		
Protection degree of life parts	IP	
Outgoing cables access	IP	

A.38. Spare Parts

The Tenderer shall submit the information for the total reference box procedures for Tender Evaluation purposes in Price Schedules Appendix II, a list of Spare Parts for a three (3) years operation period after the 2 years of Operation Service Period, for his proposed equipment, with prices in the table below

Item	Description	Quantity

B JNAH SEA OUTFALL

B.1. Onshore Tie-In Works and Appurtenances

Description	Unit	Information
Design daily flow	(m^3/s)	
Pipe material (HDPE / GRP / GRE / other)		
Outside diameter	(mm)	
Inside diameter	(mm)	
Wall thickness / SDR (if HDPE)	(mm)	
Pressure rating / PN	(bar)	
Allowable ovality / manufacturing standard		
Jointing method (butt fusion / couplers / laminations / other)		
Tie-in chamber type and dimensions		

B.2. Submarine Pipeline (Offshore) – Pipe Data

Description	Unit	Information
Design flow	(m^3/s)	
Pipe material (HDPE / GRP / GRE / other)		
Outside diameter	(mm)	
Inside diameter	(mm)	
Wall thickness / SDR (if HDPE)	(mm)	
Pressure rating / PN	(bar)	
Allowable ovality / manufacturing standard		
Jointing method (butt fusion / couplers / laminations / other)		
Total offshore length	(m)	
Maximum installation depth	(m)	
Minimum cover / burial depth (m) or justification if non-buried	(m)	
External protection concept (burial / rock armor / concrete mattresses / ballast)		
Buoyancy check summary (empty/partially full/full)		
Design life	(years)	
Service temperature range		
Abrasion/scour protection concept		
Bends: number / radius / material / method of fabrication		
Tees / Y-pieces (if any): type / size / rating		
Reducers: type / size		
Flanges / adapters: type / material / coating		
Anchor blocks / thrust restraint system: type / design basis		
Transition pieces (onshore to offshore): type / corrosion protection		
Penetrations / crossings (if any): method statement summary		
Markers / marine warning system (if required by authority)		

B.3. Diffuser System

Description	Unit	Information
Diffuser type (multiport / staged / other)		
Diffuser length	(m)	
Number of ports	(No.)	
Port diameter	(mm)	
Port spacing	(m)	
Port angle	(deg)	
Port elevation above seabed	(m)	
Check devices on ports (yes/no, type)		
Jet velocity at design flow	(m/s)	
Flow distribution uniformity	(% deviation)	
Materials (diffuser pipe + nozzles)		
Anti-clogging provisions		
Maintenance/cleaning philosophy		
Demonstration of dilution ratio compliance (summary reference to model)		

B.4. Stabilization / Protection / Burial Works

Description	Unit	Information
Burial method (trenching / jetting / dredging / none with justification)		
Side slopes / trench dimensions (typical)		
Backfill type (native / imported / graded)		
Rock armor: grading / thickness / extent (if used)		
Concrete mattresses: type / thickness / extent (if used)		
Ballast: type / spacing / weight (if used)		
Scour protection approach at diffuser zone		
Shore crossing protection method (if applicable)		
Post-installation survey scope (as-built bathymetry)		

B.5. Monitoring

Description	Unit	Information
Environmental monitoring equipment (if proposed): turbidity / water quality sampling arrangement		

B.6. Sea Outfall Spare Parts and Special Tools

The Tenderer shall submit the information for the total reference box procedures for Tender Evaluation purposes in Price Schedules Appendix II, a list of Spare Parts for a three (3) years operation period after the 2 years of Operation Service Period, for his proposed equipment, with prices in the table below.

Description	Unit	Information
Critical spares list (valves, actuators, sensors, fittings, diffuser nozzles, adapters)		
Minimum quantities and storage conditions		
Special tools required (fusion tools, lifting frames, ROV tooling, torque tools)		
Recommended inspection consumables		
Lead times and supplier details		

The above schedules are indicative only and shall be completed and adapted by the Tenderer to suit his proposed sea outfall designs. The schedules shall, as a minimum, include all compulsory design parameters and criteria stated in the Tender Documents, and shall cover all major components required for complete design, construction, testing, commissioning, operation and maintenance of both sea outfall systems.

C RAMLET ELBAYDA SEA OUTFALL

C.1. Onshore Tie-In Works and Appurtenances

Description	Unit	Information
Design daily flow	(m^3/s)	
Pipe material (HDPE / GRP / GRE / other)		
Outside diameter	(mm)	
Inside diameter	(mm)	
Wall thickness / SDR (if HDPE)	(mm)	
Pressure rating / PN	(bar)	
Allowable ovality / manufacturing standard		
Jointing method (butt fusion / couplers / laminations / other)		
Tie-in chamber type and dimensions		

C.2. Submarine Pipeline (Offshore) – Pipe Data

Description	Unit	Information
Design flow	(m^3/s)	
Pipe material (HDPE / GRP / GRE / other)		
Outside diameter	(mm)	
Inside diameter	(mm)	
Wall thickness / SDR (if HDPE)	(mm)	
Pressure rating / PN	(bar)	
Allowable ovality / manufacturing standard		
Jointing method (butt fusion / couplers / laminations / other)		
Total offshore length	(m)	
Maximum installation depth	(m)	
Minimum cover / burial depth (m) or justification if non-buried	(m)	
External protection concept (burial / rock armor / concrete mattresses / ballast)		
Buoyancy check summary (empty/partially full/full)		
Design life	(years)	
Service temperature range		
Abrasion/scour protection concept		
Bends: number / radius / material / method of fabrication		
Tees / Y-pieces (if any): type / size / rating		
Reducers: type / size		
Flanges / adapters: type / material / coating		
Anchor blocks / thrust restraint system: type / design basis		
Transition pieces (onshore to offshore): type / corrosion protection		
Penetrations / crossings (if any): method statement summary		
Markers / marine warning system (if required by authority)		

C.3. Diffuser System

Description	Unit	Data
Diffuser type (multiport / staged / other)		
Diffuser length	(m)	
Number of ports	(No.)	
Port diameter	(mm)	
Port spacing	(m)	
Port angle	(deg)	
Port elevation above seabed	(m)	
Check devices on ports (yes/no, type)		
Jet velocity at design flow	(m/s)	
Flow distribution uniformity	(% deviation)	
Materials (diffuser pipe + nozzles)		
Anti-clogging provisions		
Maintenance/cleaning philosophy		
Demonstration of dilution ratio compliance (summary reference to model)		

C.4. Stabilization / Protection / Burial Works

Description	Unit	Information
Burial method (trenching / jetting / dredging / none with justification)		
Side slopes / trench dimensions (typical)		
Backfill type (native / imported / graded)		
Rock armor: grading / thickness / extent (if used)		
Concrete mattresses: type / thickness / extent (if used)		
Ballast: type / spacing / weight (if used)		
Scour protection approach at diffuser zone		
Shore crossing protection method (if applicable)		
Post-installation survey scope (as-built bathymetry)		

C.5. Monitoring

Description	Unit	Information
Environmental monitoring equipment (if proposed): turbidity / water quality sampling arrangement		

C.6. Sea Outfall Spare Parts and Special Tools

The Tenderer shall submit the information for the total reference box procedures for Tender Evaluation purposes in Price Schedules Appendix II, a list of Spare Parts for a three (3) years operation period after the 2 years of Operation Service Period, for his proposed equipment, with prices in the table below.

Description	Unit	Information
Critical spares list (valves, actuators, sensors, fittings, diffuser nozzles, adapters)		
Minimum quantities and storage conditions		
Special tools required (fusion tools, lifting frames, ROV tooling, torque tools)		
Recommended inspection consumables		
Lead times and supplier details		

The above schedules are indicative only and shall be completed and adapted by the Tenderer to suit his proposed sea outfall designs. The schedules shall, as a minimum, include all compulsory design parameters and criteria stated in the Tender Documents, and shall cover all major components required for complete design, construction, testing, commissioning, operation and maintenance of both sea outfall systems.

D GHADIR EXISTING TWO (2) SEA OUTFALLS- SURVEY, INSPECTION AND ASSESSMENT

D.1. External Inspection

Description	Unit	Information
Inspection method (ROV/divers)		
Survey techniques (sonar, etc.)		
Video recording	Yes/No	
Bathymetry update	Yes/No	
Profile survey method		

D.2. Internal Inspection

Description	Unit	Information
Inspection method		
Access points		
CCTV/Robotic system		
Deposit Assessment method		
Profile survey method		

D.3. Corrosion / Cathodic Protection

Description	Unit	Information
Inspection method		
Thickness measurement method		
CP system assessment		

D.4. Hydraulic / Head Assessment

Description	Unit	Information
Head measurement method		

19. Manufacturer's Brochures and Documentation

The Tenderer may provide manufacturer's brochures and documentation relating to the project.

20. Construction Management Strategy

The Proposer shall submit a construction management strategy which addresses as a minimum:

(a) organizational arrangements for the construction management including: team structure, roles and responsibilities, interface arrangements, approval procedures and quality assurance arrangements;

(b) subcontractor selection and management;

(c) proposals for training all personnel attending site;

(d) stakeholder engagement;

(e) obtaining and managing consents, permits and approvals;

(f) execution of Permanent Works and Temporary Works including Site establishment;

(g) site setup proposals including access, accommodation, welfare facilities, arrangement for plant and storage of material in particular those involving waste and hazardous materials;

(h) construction phasing proposals including sequence of work and management of conflicting activities;

(i) ensuring that geotechnical investigations or other advance works meet the ES requirements;

(j) risk management approach for geotechnical and subsurface aspects of the Works;

(k) quality management system including a draft of the quality management plan;

(l) sustainability aspects demonstrating the Proposer's approach and commitment to sustainable construction practices (e.g. energy efficiency, reduction of wastages, material reduction and sources of materials etc.);

(m) preparation, approval and implementation of the Contractor's environmental and social management plan;

(n) preparation, approval and implementation of the Contractor's health and safety manual;

(o) grievance redress mechanisms;

(p) reporting arrangements, including topics (that include ES) and timescales in accordance with the Particular Conditions Special Provisions Sub-Clause 4.21;

(q) arrangements for testing upon completion of the works;

(r) arrangements for completion of Design-Build, including completion of as-built documents, preparation of operation and maintenance manuals, and any other relevant aspects; and

(s) additional aspects as stated in the Employer's Requirements.

(t) [modify/include any other relevant information, as appropriate.]

21. Design Build Method Statements for Key Construction Activities

The Proposer shall provide its method statements for addressing the following risks and carrying out the following construction activities. Each method statement shall describe the proposed approach, the level of staffing and experience, the safe system of work, and the equipment or materials to be used to manage risk or activity in accordance with the Employer's Requirements.

[The Employer shall identify the key risks/ construction activities:

Examples:

- *foundation excavation;*
- *erection of steel structures;*
- *prevention of Sexual Exploitation, and Abuse (SEA);*
- *management of traffic including construction traffic*

22. Sustainable Procurement Proposal

***Note to Proposer**: In addition to submitting the **required** ES Management Strategies and Implementation Plans, the Proposer shall provide its proposal to demonstrate how additional sustainable procurement requirements, if any, specified in Section VII- Employer's Requirements would be addressed. The Proposer shall also provide its proposal, if any, for exceeding the sustainable procurement requirements.*

Note to the Proposer:
The minimum content of the Code of Conduct form as set out by the Employer shall not be substantially modified. However, the Proposer may add requirements as appropriate, including to take into account Contract-specific issues/risks.
The Proposer shall initial and submit the Code of Conduct form as part of its proposal.

23. Code of Conduct for Contractor's Personnel

We are the Contractor, [*enter name of Contractor*]. We have signed a contract with [*enter name of Employer*] for [*enter description of the Works*]. These Works will be carried out at [*enter the Site and other locations where the Works will be carried out*]. Our contract requires us to implement measures to address environmental and social risks related to the Works, including the risks of sexual exploitation, sexual abuse and sexual harassment.

This Code of Conduct is part of our measures to deal with environmental and social risks related to the Works. It applies to all our staff, laborers and other employees at the Works Site or other places where the Works are being carried out. It also applies to the personnel of each subcontractor and any other personnel assisting us in the execution of the Works. All such persons are referred to as "**Contractor's Personnel"** and are subject to this Code of Conduct.

This Code of Conduct identifies the behavior that we require from all Contractor's Personnel.

Our workplace is an environment where unsafe, offensive, abusive or violent behavior will not be tolerated and where all persons should feel comfortable raising issues or concerns without fear of retaliation.

Required Conduct

Contractor's Personnel shall:

1. carry out his/her duties competently and diligently;
2. comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Contractor's Personnel and any other person;
3. maintain a safe working environment including by:
    a. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
    b. wearing required personal protective equipment;
    c. using appropriate measures relating to chemical, physical and biological substances and agents; and
    d. following applicable emergency operating procedures.
4. report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to his/her life or health;
5. treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
6. not engage in any form of Sexual Harassment, which means unwelcome sexual advances, requests for sexual favors, and other unwanted verbal or physical conduct of a sexual nature with other Contractor's or Employer's Personnel;
7. not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;

8. not engage in Sexual Abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
9. not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
10. complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH);
11. report violations of this Code of Conduct; and
12. not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Employer, or who makes use of the grievance mechanism for Contractor's Personnel or the project's Grievance Redress Mechanism. .

Raising Concerns

If any person observes behavior that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

1. Contact [*enter name of the Contractor's Social Expert with relevant experience in handling sexual exploitation, sexual abuse and sexual harassment cases, or if such person is not required under the Contract, another individual designated by the Contractor to handle these matters*] in writing at this address [ ] or by telephone at [ ] or in person at [ ]; or
2. Call [ ] to reach the Contractor's hotline *(if any)* and leave a message.

The person's identity will be kept confidential, unless reporting of allegations is mandated by the country law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take seriously all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behavior prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

Consequences Of Violating the Code of Conduct

Any violation of this Code of Conduct by Contractor's Personnel may result in serious consequences, up to and including termination and possible referral to legal authorities.

FOR CONTRACTOR'S PERSONNEL:

I have received a copy of this Code of Conduct written in a language that I comprehend. I understand that if I have any questions about this Code of Conduct, I can contact *[enter name of Contractor's contact person with relevant experience]* requesting an explanation.

Name of Contractor's Personnel: [insert name]

Signature: _____

Date: (day month year): _____

Countersignature of authorized representative of the Contractor:

Signature: _____

Date: (day month year): _____

ATTACHMENT 1: Behaviors constituting Sexual Exploitation and Abuse (SEA) and behaviors constituting Sexual Harassment (SH)

ATTACHMENT 1 TO THE CODE OF CONDUCT FORM

BEHAVIORS CONSTITUTING SEXUAL EXPLOITATION AND ABUSE (SEA) AND BEHAVIORS CONSTITUTING SEXUAL HARASSMENT (SH)

The following non-exhaustive list is intended to illustrate types of prohibited behaviors.

(1) **Examples of sexual exploitation and abuse** include, but are not limited to:

- A Contractor's Personnel tells a member of the community that he/she can get them jobs related to the work site (e.g. cooking and cleaning) in exchange for sex.
- A Contractor's Personnel that is connecting electricity input to households says that he can connect women headed households to the grid in exchange for sex.
- A Contractor's Personnel rapes, or otherwise sexually assaults a member of the community.
- A Contractor's Personnel denies a person access to the Site unless he/she performs a sexual favor.
- A Contractor's Personnel tells a person applying for employment under the Contract that he/she will only hire him/her if he/she has sex with him/her.

(2) **Examples of sexual harassment in a work context**

- Contractor's Personnel comment on the appearance of another Contractor's Personnel (either positive or negative) and sexual desirability.
- When a Contractor's Personnel complains about comments made by another Contractor's Personnel on his/her appearance, the other Contractor's Personnel comment that he/she is "asking for it" because of how he/she dresses.
- Unwelcome touching of a Contractor's or Employer's Personnel by another Contractor's Personnel.
- A Contractor's Personnel tells another Contractor's Personnel that he/she will get him/her a salary raise, or promotion if he/she sends him/her naked photographs of himself/herself.

24. Operation Service Proposals

The Proposer shall set out a detailed plan for the Operation Service which shall address the following:

(a) Organization and key personnel

(b) Operations proposals

(c) Preventative and reactive maintenance

(d) Monitoring water/wastewater quality and flows

(e) The operational systems to be developed, including details of any standards to be adopted or followed for example with respect to managing environmental and social risks during operation

(f) Training of Contractor's Personnel

(g) Asset replacement

(h) Preparation of required documents and manuals

(i) Quality assurance

(j) Hand-back arrangements

(k) Emergency Preparedness and Response Plan

(l) Reporting arrangements, including the appropriate topics (that include ES) and timescales in accordance with the Particular Conditions of Contract Sub-Clause 4.21

*(m) [*insert *any other relevant information, as may be appropriate.]*

25. Contractor's Equipment

The Proposer shall set out its strategy for obtaining or accessing the key equipment necessary to execute the Works in accordance with the Design Build Works Program. In the strategy, the Proposer shall specify the manufacturer, capacity, model, power rating, age and maintenance condition, and how it will ensure that the equipment is maintained in accordance with manufacturer's specifications for the duration of the Contract. The Proposer shall specify whether it will own, lease, rent or specially manufacture the key equipment.

A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Proposer.

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment ☐ Owned ☐ Rented ☐ Leased ☐ Specially manufactured	

Omit the following information for equipment owned by the Proposer.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

26. Risk Assessment and Proposed Management Plan

The Proposer should submit a risk register identifying the hazards anticipated during the implementation of the contract.

For the key hazards ranked by impact, the risk register shall include a description of the hazard, an assessment of the potential impact on health and safety, environment, cost, program or other, and the proposed mitigation strategy for each hazard.

*[**Note to the Proposer**: (i) As required in PDS 12.2 (k), also include method statement, management strategies and implementation plans and innovations, to manage cyber security risks; (ii) if there are assessed supply chain risks, the risk assessment and proposed management plans, must include proposed supply chain risks management plans.]*

SECTION IV – PROPOSAL FORMS

27. Environmental and Social Performance Declaration

The following table shall be filled in for the Proposer and for JVs, each member of the Joint Venture and each Specialized Subcontractor

Proposer's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Member's or Specialized Subcontractor's Name: *[insert full name]*

RFP No. and title: *[insert RFP number and title]*

Page *[insert page number]* of *[insert total number]* pages

Environmental and Social Performance Declaration in accordance with Section III, Qualification Criteria, and Requirements of the Initial Selection document			
☐ **No suspension or termination of contract**: An employer has not suspended or terminated a contract and/or called the performance security for a contract for reasons related to Environmental or Social (ES) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 2.5. ☐ **Declaration of suspension or termination of contract**: The following contract(s) has/have been suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental or Social (ES) performance since the date specified in Section III, Qualification Criteria, and Requirements, Sub-Factor 2.5. Details are described below:			
Year	**Suspended or terminated portion of contract**	**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and US$ equivalent)**
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Reason(s) for suspension or termination: *[indicate main reason(s) e.g. gender-based violence; sexual exploitation or sexual abuse breaches]*	*[insert amount]*
[insert year]	*[insert amount and percentage]*	Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Reason(s) for suspension or termination: *[indicate main reason(s)]*	*[insert amount]*
…	…	*[list all applicable contracts]*	…
Performance Security called by an employer(s) for reasons related to ES performance			
Year		**Contract Identification**	**Total Contract Amount (current value, currency, exchange rate and US$ equivalent)**
[insert year]		Contract Identification: *[indicate complete contract name/ number, and any other identification]* Name of Employer: *[insert full name]* Address of Employer: *[insert street/city/country]* Reason(s) for calling of performance security: *[indicate main reason(s) e.g. gender-based violence; sexual exploitation or sexual abuse breaches]*	*[insert amount]*

28. Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment Performance Declaration

[The following table shall be filled in by the Proposer, each member of a Joint Venture and each subcontractor proposed by the Proposer]

Proposer's Name: *[insert full name]*
Date: *[insert day, month, year]*
Joint Venture Member's or Subcontractor's Name: *[insert full name]*
RFP No. and title: *[insert RFP number and title]*
Page *[insert page number]* of *[insert total number]* pages

SEA and/or SH Declaration in Accordance with Section III, Qualification Criteria, and Requirements
We: ☐ (a) have not been subject to disqualification by IsDB for non-compliance with SEA/ SH obligations ☐ (b) are subject to disqualification by IsDB for non-compliance with SEA/ SH obligations ☐ (c) had been subject to disqualification by IsDB for non-compliance with SEA/ SH obligations. An arbitral award on the disqualification case has been made in our favor. ☐ (d) had been subject to disqualification by IsDB for non-compliance with SEA/ SH obligations for a period of two years. We have subsequently demonstrated that we have adequate capacity and commitment to comply with SEA/ SH obligations. ☐ (e) had been subject to disqualification by IsDB for non-compliance with SEA/ SH obligations for a period of two years. We have attached evidence demonstrating that we have adequate capacity and commitment to comply with SEA/ SH obligations. *[The following table shall be filled in by the Proposer, each member of a Joint Venture and each subcontractor proposed by the Proposer]*
[*If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]*
[If (d) or (e) above are applicable, provide the following information:]
Period of disqualification: From: _____ to: _____
If previously provided on another IsDB financed works contract, details of evidence that demonstrated adequate capacity and commitment to comply with SEA/ SH obligations (**as per (d) above)** Name of Employer: _____ Name of Project: _____ Contract description: _____ Brief summary of evidence provided: _____ _____ Contact Information: (Tel, email, name of contact person): _____ _____
As an alternative to the evidence under (d), other evidence demonstrating adequate capacity and commitment to comply with SEA/ SH obligations (**as per (e) above)** *[attach details as appropriate].*

29. Current Contract Commitments / Works in Progress

Proposers and each partner to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Name of contract	Employer, contact address/tel/fax	Value of outstanding work (current US$ equivalent)	Estimated completion date	Average monthly invoicing over last six months (US$/month)
1.				
2.				
3.				
4.				
5.				
etc.				

30. IsDB Group AML/CFT & KYC Questionnaire/Form

SECTION IV – PROPOSAL FORMS

IsDB Group[1] AML & KYC Questionnaire (Non-Financial Institutions)

The following questions are intended to assist the Members of the Islamic Development Bank Group (*hereinafter referred to as" IDBG*") in their respective customers due diligence. It seeks to collate and document information on the Anti-Money Laundering & Financing of Terrorism Policies & Procedures implemented by their respective customers, professional intermediaries, correspondent banks, consultants and non-governmental organizations.

1. GENERAL INFORMATION

1.1 General Entity Information

Name of the institution	
Country of incorporation or registration	
Registration / License Number	
Legal Form *(for example, Public Limited Company, Joint Stock Company, Partnership,* limited or unlimited liability etc.)	
Address of Head Office	
Website addresses	
Main activities	
Telephone	
Fax	
Name	
Email Address	

1.2 Ownership Structure

1.2.1 What is the authorized and issued share capital of your institution?

Authorized Capital:

Issued Share Capital:

1.2.2 Name of persons or any legal entity who owns or control more than 10% of the shares of your institution.

1.2.3 Are the shares of the institution divided in to several classes? | YES | NO | N/A |

If yes, list the classes of shares (whether ordinary, preferred, bearer or registered shares):

1.2.4 Is your institution publicly traded? | YES | NO | N/A |

1.2.5 If your answer is "Yes," please list Exchange & Symbol of your institution.

1.2.6 Does your Entity have branches or subsidiaries? If so, does this questionnaire apply also to your Branches/subsidiaries?

1.2.7 Have there been any significant changes in ownership (exceeding 25%) over the last five years? If yes, please provide details.

1 Each of the Islamic Development Bank (IsDB), Islamic Corporation for the Insurance of Investment and Export Credit (ICIEC), Islamic Corporation for the Development of the Private Sector (ICD), and International Islamic Trade Finance Corporation (ITFC); is a supra-national, inter-governmental self-regulated of international financial institutions established under its respective Articles of Agreements, having their headquarters in Jeddah, Kingdom of Saudi Arabia (all together are refer to as IsDB Group).

2. ANTI-MONEY LAUNDERING & FINANCING TERRORISM CONTROLS (AML/CFT)

I. ***General AML Policies, Practices and Procedures***	YES	NO	N/A
1. Are there laws / regulations designed to prevent and deal with money laundering and terrorist financing in the country of incorporation of your company or institution? If yes, please list the names of the relevant laws:			
2. Has your institution developed written policies and procedures to prevent detect and report suspicious transactions/terrorist financing activities?			
3. Does your AML/CFT policy meet the requirement of local laws and the FATF standards?			
4. Does these laws and regulations prohibit your institution from conducting business with or on behalf shell companies.			
5. Is your AML/CFT policy approved by the board of your institution or by a senior committee?			
6. Does your policy require you to identify the source of your customers' funds or income?			
7. Does your institution collect information regarding its customers' business activities and assess its customers' AML policies or practices?			
8. Is your institution subject to the supervision of any regulatory authority? If yes, please give the name of the supervisory/regulatory authority.			
9. Please give the name of the authority to which you must report in case of a suspicion of money laundering and terrorist financing:			
10. In addition to inspections by the government supervisors/regulators, does your institution have an internal audit function or other independent third party that assesses AML policies and practices on a regular basis?			
11. Does your Entity have an established Anti-bribery and corruption Policy (If yes, please provide a copy)			
12. Does your institution have policies to cover relationships with Politically Exposed Persons (PEPs), their families and close associates?			
13. Does your institution have appropriate record retention procedures pursuant to applicable laws? 14. If yes, please state the period of time for which records are kept.			

II. ***Risk Assessment***	YES	NO	N/A
15. Does your institution have a risk-based assessment of customer base and their transactions?			
16. Does your institution determine the appropriate level of enhanced due diligence necessary for those categories of customers and transactions that your institution has reason to believe pose a heightened risk of illicit activities?			
III. ***Know Your Customer, Due Diligence and Enhanced Due Diligence***	YES	NO	N/A
17. Does your institution require the verification of identification information for all customers and counterparties (individuals or entities) at the establishment of the relationship? (such as; name, nationality, address, telephone number, occupation, age/date of birth, number and type of valid official identification, as well as the name of the country/state that issued it)?			
18. Does your institution have procedures to establish a record for each new customer that contains their respective identification documents and 'Know Your Customer' information?			
19. Does your customer identification program require that enhanced due diligence be conducted regarding certain customers that may present a heightened level of money laundering and terrorist financing risk to your institution, such as international private banking and correspondent banking customers, or customers from high-risk money laundering and terrorist financing jurisdictions?			
20. Does your institution have a periodic process to review and, where appropriate, update high-risk customer information?			
IV. Reportable Transactions and Prevention and Detection of Transactions with Illegally Obtained Funds	YES	NO	N/A
21. Does your institution have policies or practices for the identification and reporting of transactions that are required to be reported to the authorities?			
V. ***Transaction Monitoring***			
22. Does your institution have a monitoring program for unusual and potentially suspicious activities that could expose your institution to any ML/FT risks.			
23. Does your institution filter payments against relevant United Nations sanctions lists?			
VI. ***AML Training***	YES	NO	N/A
24. Does your Institution provide AML/CTF/Sanctions & Embargoes training to relevant employees that includes: • Identification and reporting of transactions that must be reported to government authorities.			
• Examples of different forms of money laundering involving the institution's products and services. • International, national, and internal policies to prevent money laundering. If yes, how frequent are these trainings?			

25. Does your institution retain records of its training sessions including attendance records and relevant training materials used?			
26. Does your institution have policies to communicate new AML/CTF/Sanctions & Embargoes related laws or changes to existing AML/CTF/Sanctions & Embargoes related policies or practices to relevant employees?			
27. Does your Institution employ third parties to carry out some of the AML/CFT/ Sanctions & Embargoes functions of the institution? If YES Kindly answer below question.			

VI. Additional Information/documents

Please attach the following documents along with this form:

- License /Certificate of Registration;
- By-law / Articles of Association.
- AML / CFT / KYC Policy / Guidelines;
- List of Shareholders / owners and their respective shareholding percentage
- List of Board of Directors (or Trustees) including their nationalities & shareholders they represent
- List of Management Team indicating their respective positions and the number of years of service.
- Annual Report & Financial Statement.

I hereby confirm that the statements given above are true and correct. I also confirm that I am authorized to complete this document.

Name: _____ Signature: _____

Title: _____

Date: _____ Official Seal

(P.S. Please ensure that this form is fully filled, duly signed and stamped in order to complete the required onboarding processes).

B. Financial Proposal Standard Forms

SECTION IV – PROPOSAL FORMS

1. Letter of Proposal – Financial Part

INSTRUCTIONS TO PROPOSERS

INSTRUCTIONS TO PROPOSERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Proposal in the second envelope "FINANCIAL PART".

The Proposer must prepare the Letter of Proposal on stationery with its letterhead clearly showing the Proposer's complete name and business address.

Note: All italicized text in black font is to help Proposers in preparing this form and Proposers shall delete it from the final document.

Date of this Proposal submission: *[insert date (as day, month and year) of Proposal submission]*

RFP No.: *[insert number of RFP process]*

Request for Proposal No.: *[insert identification]*

Alternative No.: *[insert identification No if this is a Proposal for an alternative]*

To: *[Employer insert:* ***name and address of Employer****]*

Dear Sir or Madam:

We, the undersigned Proposer, hereby submit the second part of our Proposal, the Financial Part

Having examined the RFP Documents including any Addenda issued in accordance with **ITP 8**, we, the undersigned, offer to provide the Works and Operation Service to _____, in full conformity with the said RFP Documents, Addenda and memorandum for the total Proposal Price, excluding any discounts offered below is

(a) *[Insert one of the options below as appropriate]*

Option 1, in case of one lot: Total price is: *[insert the total price of the Proposal in words and figures, indicating the various amounts and the respective currencies]*;

Or

Option 2, in case of multiple lots: (a) Total price of each lot *[insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]*; and (b) Total price of all lots (sum of all lots) *[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies]*;

The discounts offered and the methodology for their application is:

(i) The discounts offered are: *[Specify in detail each discount offered]*

(ii) The exact method of calculations to determine the net price after application of discounts is shown below: *[Specify in detail the method that shall be used to apply the discounts]*;

If our Proposal is accepted, we undertake to provide an advance payment security and a Performance Security *[and an Environmental and Social (ES) Performance Security.* ***Delete if not applicable****]* in the form, in the amounts, and within the times specified in the RFP Documents.

We agree to abide by this Proposal, which, in accordance with **ITP 12** and **ITP 13**, consists of this letter and the enclosures listed below, until [insert day, month and year in accordance with ITP 20.1], and it shall remain binding upon us and may be accepted by you at any time on or before this date.

Commissions, gratuities and fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the RFP process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*.

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

Until the formal final Contract is prepared and executed between us, this Proposal, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us.

_____

Name of the Proposer: **[insert complete name of the Proposer]*

_____

Name of the person duly authorized to sign the Proposal on behalf of the Proposer: ** *[insert complete name of person duly authorized to sign the Proposal]*

_____

Title of the person signing the Proposal: *[insert complete title of the person signing the Proposal]*

_____

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

_____

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

*: In the case of the Proposal submitted by a Joint Venture specify the name of the Joint Venture as Proposer.

**: Person signing the Proposal shall have the power of attorney given by the Proposer. The power of attorney shall be attached with the Proposal Schedules.

ENCLOSURE(S):

2. Price Schedules

Table of Contents

1. PREAMBLE TO PRICE SCHEDULES 147

2. SUMMARY OF PRICE SCHEDULES 150

2.1. DESIGN AND BUILD PERIOD 150
2.2. OPERATION SERVICE PERIOD ESTIMATED FOR A PERIOD OF 2 YEARS 150
2.3. PROVISIONAL SUMS 150
2.4. SUMMARY BILL INCLUDING LOCAL TAXES 151

3. DETAILED PRICE SCHEDULES 152

PRICE SCHEDULE N° I – GENERAL WORKS 152
PRICE SCHEDULE N° II.2 - CIVIL ENGINEERING AND BUILDING WORKS 153
PRICE SCHEDULE N° II.3 - MECHANICAL WORKS 155
PRICE SCHEDULE N° II.4 - ELECTRICAL WORKS 157
PRICE SCHEDULE N° II.5 - SCADA WORKS 159
PRICE SCHEDULE N° II.6 - LANDSCAPING WORKS 159
PRICE SCHEDULE N° III.1 - PRELIMINARY ITEMS 160
PRICE SCHEDULE N° III.2 - ONSHORE WORKS 160
PRICE SCHEDULE N° III.3 - OFFSHORE WORKS 161
PRICE SCHEDULE N° IV.1 - PRELIMINARY ITEMS 162
PRICE SCHEDULE N° IV.2 - ONSHORE WORKS 162
PRICE SCHEDULE N° IV.3 - OFFSHORE WORKS 163
PRICE SCHEDULE N° V.1 - PRELIMINARY ITEMS 164
PRICE SCHEDULE N° V.2 - SURVEY, INSPECTION AND REPORTING 164
PRICE SCHEDULE N° VI.1- OPERATION SERVICE PERIOD FOR WWTP (EXISTING AND EXTENSION) 166
PRICE SCHEDULE N° VI.2- OPERATION SERVICE PERIOD FOR NEW SEA OUTFALLS 167

PROVISIONAL SUMS 168

PRICE SCHEDULES - APPENDIX I: DAY WORK SCHEDULE A - LABOR 169
PRICE SCHEDULES - APPENDIX I: DAY WORK SCHEDULE B - MATERIALS 169
PRICE SCHEDULES - APPENDIX I: DAY WORK SCHEDULE C - CONTRACTOR'S EQUIPMENT 170
PRICE SCHEDULES - APPENDIX II: LIST OF SPARE PARTS 172
PRICE SCHEDULES - APPENDIX III: NET PRESENT VALUE (NPV) TABLE 173

1. PREAMBLE TO PRICE SCHEDULES

1. The Price Schedules shall be read in conjunction with the other documents forming part of this Contract. The Price Schedules shall be submitted also on electronic format.
2. The total amount of the Price Schedules shall be carried to the Letter of Proposal.
3. Notwithstanding any limits which may be implied by the wording of the individual activities and/or the explanations in this Preamble, it is to be clearly understood that the amounts entered in the Price Schedules are to be for the work finished, complete in every respect; and will be deemed to have taken full account of all requirements and obligations including all related standards and regulations especially those required by Lebanese Civil Aviation Authority and the concerned Beirut Airport Authorities, and those required by Ministry of Civil Works, especially the Directorate General of Land and Maritime Transport and Lebanese Army, whether expressed or implied, covered by all parts of this Contract and to have priced the activities herein accordingly. The amounts must therefore include for temporary works, all incidental and contingent expenses and risks of every kind necessary to design, build, complete and maintain the whole of the Works in accordance with the Contract. Unless separate items are provided in the Price Schedules, full allowance shall be made in the sums stated for all costs involved. The prices shown in the price schedules shall include all customs, import duties, levies but **exclusive of income tax on foreign companies, stamp duties and VAT on income tax on foreign companies and stamp duties** for a proper evaluation.
4. It will be assumed that any activity or item left without a price entered against it, has the price of that activity or item included elsewhere in the Price Schedules. After the award of contract, no alteration will be made to the Price Schedules to rectify any "un-priced" activities or items.
5. Contractor to note also that all extra costs related to works located where archeological remains are suspected (Ancient wall or others), shall be included in the Contractor Prices:
    - Full coordination with the DGA (Directorate General of Antiquities) concerning the potential archeological sites prior and during construction works including all necessary and administrative steps and measures to be taken as well as the related costs to all the delays resulting from these steps and measures.
    - All costs related to All trial pits necessary to locate existing services and to determine ground condition and to localize the potential archeological sites.
    - All necessary measures taken to protect potential archeological remains and sites, taking all necessary precautions, use of hand and non-destructive tools for excavation, cleaning of excavation surfaces, cleaning of archeological remains, storing in approved locations and protecting items designated to remain, disposing off excavated and resulted materials to approved dumping areas and all other related works, all as specified and approved by the DGA and to the satisfaction of the Engineer.
6. Preliminary Items: Interim payments for items in the Preliminaries Schedule will be made according to progress of Works.
7. The Employer may, under Clause 13 [*Variations and Adjustments*] of the Conditions of Contract, omit certain Principal Activities if he considers it necessary to adjust the scope of Works to come within budgetary constraints or resulting from site constraints. The Contractor shall be aware of this possibility and shall ensure that any such variation by the Employer does not, in any way, affect the pricing of the retained activities.

8. The following abbreviations are used:

l.s.	=	lump sum
P.S.	=	Provisional Sum
T	=	ton
Kg	=	kilogram
mg	=	milligram
mm	=	millimeter
h or hr	=	Hour
m^3	=	cubic meter
d or day	=	day
dB	=	decibel
Nm3	=	Normal cubic meter

9. The prices stated in the Price Schedules shall exclude **income tax on foreign companies, stamp duties and VAT on income tax on foreign companies and stamp duties** and shall include all customs duties, import taxes, business taxes, income and other taxes that may be levied on Goods and services according to the laws and regulations being in force in the Republic of Lebanon on the date 28 days prior to the date of submission of the Tenders.

10. **Prices Schedule, No. 7 – Operation Service Period,** has to be quoted in fixed and variable fees. Fixed fees have to be quoted in lump sums per month, variable fees in lump sums/m^3 of treated wastewater and variable fees in lump sum/m^3 of discharged water flow through each of the two new sea outfall pipes. These variable fees per m^3 would be fixed irrespective of variations to take place in incoming flows. If the bidder adds items in the schedule, he has to specify clearly if the item has to be considered as fixed or variable fee. The Tender Price for Operation Service Period shall be calculated on the base of estimated flows for the Operation Service Period, in accordance with the flow projection described in the Employer's Requirements, as an agglomerate of the low and high season flows. Payments will, however, be made based on the basis of the actual flows received and fully treated in the wastewater treatment plant during the Operation Service Period and the flow fully discharged through each of the two new sea outfalls, when required in emergency over flow cases and/or when required by the Client. Costs for consumption of energy, chemicals and other consumables shall be calculated using the values indicated in the Schedule of Guaranteed Performances. For the fuel consumption for the standby power generator(s), the Tenderer shall make his estimate based on 4 hours of electrical power outage per day and 50km path length for the evacuation of wastes. The following unit prices shall be used:

    - Fuel: 0.82 US$/liter
    - Electricity: 0.27 US$/kWh

    To be noted that, for the execution phase, the unit rates defined by the bidders in items 7V.5, 7V.6 and 7V.8 shall be increased or decreased (Prorata) depending on the changes in the fuel/electricity legal prices and the length of transportation path for the evacuation of wastes, as occurring at the "Build" phase.

11. **Price Schedules, Appendix I, Day work**. Additional work consists of a set of specific interventions to add new characteristics to the Project, in response to new characteristics and considerations. Additional quantities will be defined by the Employer and paid with the unit price for output products and estimated quantities included in the price schedule for day works in appendix I. For the execution of additional works, the Employer shall issue a work order. A sum for overhead charges and profit shall be applied as a percentage of the amount of Plant, Materials and Services indicated in the schedule. The percentage rate shall be stated in the appropriate schedule and in the Appendix to tender sub-clause 13.5.

12. **Price Schedules, Appendix II, Spare parts**. During the Operation Service Period, the cost of the spare parts shall be invoiced under item No 7.2 of Price Schedule n°7. At the end of the Operation Service Period, the Contractor shall provide to the Employer the Spare parts under Price Schedules – Appendix II, which shall be invoiced accordingly.
13. **Price Schedules, Appendix III, Net Present Value (NPV) Table.** The NPV Table shall be filled by the tenderer, showing the analysis of the net present value for the capital and the operation service costs for Phase 1 project works, along 15 years,

2. SUMMARY OF PRICE SCHEDULES

2.1. Design and Build Period

SUMMARY OF PRICE SCHEDULES FOR DESIGN AND BUILD		
Schedule	**Description**	**US$ ($)**
I	GENERAL WORKS	
II	WWTP (EXISTING AND EXTENSION)	
II-1	Preliminary Items	
II-2	Civil Engineering and Building Works	
II-3	Mechanical Works	
II-4	Electrical Works	
II-5	SCADA Works	
II-6	Landscaping Works	
III	JNAH (PS2) NEW SEA OUTFALL	
III-1	Preliminary Items	
III-2	Onshore Works	
III-3	Offshore Works	
IV	RAMLET EL-BAYDA (M1) NEW SEA OUTFALL	
IV-1	Preliminary Items	
IV-2	Onshore Works	
IV-3	Offshore Works	
V	GHADIR TWO (2) EXISTING SEA OUTFALLS- INSPECTION, SURVEY AND ASSESSMENT	
V-1	Preliminary Items	
V-2	Survey, Inspection and Reporting	
	TOTAL FOR DESIGN AND BUILD	

2.2. Operation Service Period estimated for a period of 2 years

SUMMARY OF SCHEDULES FOR OPERATION SERVICE PERIOD					
Schedule	**Description**	**Unit rate**	**Unit**	**Provisional quantity**	**US$ ($)**
VI	OPERATION SERVICE PERIOD				
VI.1	OPERATION SERVICE FOR WWTP (EXISTING AND EXTENSION)				
VI.1-F	Fixed operating costs remuneration F		$/month	24 months	
VI.1-V	Variable operating costs remuneration V		$/m3	183,130,341 m3	
VI.2	OPERATION SERVICE FOR NEW SEA OUTFALLS				
VI.2-F.1	Fixed operating cost for Jnah (PS2) New Sea Outfall		$/month	24 months	
VI.2-F.2	Fixed operating cost for Ramlet El-Bayda (M1) New Sea Outfall		$/month	24 months	
	TOTAL OPERATION SERVICE PERIOD				

2.3. Provisional Sums

SUMMARY OF SCHEDULES FOR PROVISIONAL SUMS – Appendices I & II		
Schedule No	**Description**	**US$ ($)**
Appendix I-A	Daywork – Labour	
Appendix I-B	Daywork – Materials	
Appendix I-C	Daywork - Contractor's Equipment	
Appendix II	Spare Parts (Three years period)	
	TOTAL PROVISIONAL SUMS	

2.4. Summary Bill Including Local Taxes

CONTRACT AMOUNT INCLUDING LOCAL TAXES			
Item	**Description**	**Rate**	**Price US$ ($)**
A	Total for Design and Build		
B	Total Operation Service Period		
C	Total Provisional Sums		
D=A+B+C	TOTAL CONTRACT AMOUNT exclusive of local taxes and VAT		
E	Share of Foreign Partner(s)	% of D	
F	Share of Local Partner(s)	% of D	
G	Withholding tax on Foreign Partner(s)	2.25% of E	
H	Stamp duties	0.8% of D	
J=G+H	TOTAL LOCAL TAXES		
K	VAT on Local Taxes	11% of J	
L=D+J+K	GRAND TOTAL OF CONTRACT AMOUNT inclusive of local taxes and VAT		

Note: The following taxes are financed by CDR:

- The withholding tax on foreign companies shall be deducted from each invoice
- The stamp duties: 0.4% shall be paid directly by the company/JV to the Ministry of Finance within a period of five (5) working days and shall be reimbursed by the Client upon submission of the relevant invoice; and the remaining 0.4% shall be deducted from each invoice.

3. DETAILED PRICE SCHEDULES

I. GENERAL

Price Schedule N° I – General Works

Item No	Description	Unit	Price ($)
I.1	Establishment and subsequent removal at the end of the project of the Contractor's offices, accommodation and yards. The facilities shall comprise, the main Contractor's office, accommodation, and yard required for the Ghadir WWTP works and all ancillary offices, accommodation facilities and yards required for the sea outfalls works.	l.s.	
I.2	Maintenance and utilities Contractor's offices	l.s.	
I.3	Provision and subsequent removal at the end of the project of all facilities for the Engineer as specified. This item shall include the main Engineer's facilities for the Ghadir WWTP works and all auxiliary facilities required for the sea outfalls works.	l.s.	
I.4	All required Insurances	l.s.	
I.5	Performance Security	l.s.	
I.6	Allow for complying with Health and Safety at Work regulations	l.s.	
I.7	Preparation of Environmental Management Plan and compliance with its provisions (EMP)	l.s.	
I.8	Preparation of Quality Assurance and Quality Control Plan and compliance with the QC/QA requirements	l.s.	

II. WWTP

Price Schedule N° II.1 - Preliminary Items

Item No	Description	Unit	Price ($)
II.1.1	Mobilisation cost including Site preparation	l.s.	
II.1.2	All needed surveys and investigations studies during design and execution phases and obtaining of approvals and permissions prior to the commencement of construction.	l.s.	
II.1.3	Geotechnical Investigations for the new constructions in the existing WWTP site, in the New WWTP site and for the Access Road Bridge Crossing and U-Shaped RWs, Including coring in all type of soil and rocks (min 8 numbers, min 18m depth each), PLT test, samples laboratory and site tests, reports….	l.s	
II.1.4	Detailed Engineering Design for all plant works	l.s	
II.1.5	Construction and shop drawings and documents	l.s	
II.1.6	Preparation and submission of "As-built" Drawings	l.s.	
II.1.7	Preparation and submission of Operation and Maintenance documents and manuals	l.s.	
II.1.8	Pre-Commissioning Testing and adjustment period	l.s.	
II.1.9	Commissioning Testing including trial operation period, performance tests and commissioning certificate	l.s.	
II.1.10	Demobilisation	l.s.	
II.1.11	Any others Preliminary items not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c)	l.s. l.s. l.s	
	Total Items II.1 to be carried to SUMMARY		

SECTION IV – PROPOSAL FORMS

Price Schedule N° II.2 - Civil Engineering and Building Works

Item No	Description	Unit	Price ($)
II.2.1	Site Clearance and Demolitions in the Existing WWTP Site, including: Clearing, grubbing, grading, levelling, demolition/disposal of existing structures, rearrangement/disposal of materials and equipment, …	l.s.	
II.2. 2	Earth Works in the New WWTP Site Including: Clearing, grubbing, grading, levelling, excavation, backfilling with engineering fills (Imported and excavated) till the final finishing ground level and needed retaining reinforced concrete walls and related drainage works	l.s.	
II.2.3	Soil Treatment Including Deep Dynamic Compaction Works in the New WWTP Site (area phase 1), according to the required levels and depths	l.s.	
II.2.4	Inlet Flow Measurement, including: All needed earthworks, concrete works and finishing/metallic works	l.s	
II.2.5	Existing Screw Pumps Lifting Station and Related Screw Pumps Motors and MCC Building: Rehabilitation and Extension of Existing Constructions, including: All needed earthworks, concrete works and finishing/metallic works	l.s.	
II.2.6	Preliminary Treatment Screens: Rehabilitation of Existing Constructions including: All needed concrete works and finishing/metallic works	l.s.	
II.2.7	Grit and Grease Removal (Aerated Degritting Tanks, Grit Classifiers and related Air Blower Building): Rehabilitation and extension of existing structures and construction of a new air blower building replacing the existing building in other location, including: All needed earthworks, concrete works and finishing/metallic works	l.s.	
II.2.8	Existing Main Pumping Station: Refurbishment of Exterior Concrete and Civil Works, Including Replacement of reinforced concrete roof parapet and finishing works	l.s.	
II.2.9	New Primary Sedimentation Tanks, including: All needed earthworks, concrete works and finishing/metallic works	l.s.	
II.2.10	New Interim Lifting Station and Valve Chamber and Flowmeter Chamber, including: All needed earthworks, concrete works and finishing/metallic works	l.s.	
II.2.11	New Three Primary Sludge Gravity Thickeners, including: All needed earthworks, concrete works and finishing/metallic works	l.s.	
II.2.12	New One Buffer Tank I (Following Sludge Thickening), Including: All needed earthworks, concrete works and finishing/metallic works	l.s.	
II.2.13	New Thickened Sludge Pumps and Screens Building	l.s	
II.2.14	New Two Anaerobic Sludge Digesters and Access Structure, Comprising Stair Case and Lift, including: All needed earthworks, concrete works and finishing/metallic works	l.s	
II.2.15	New One Buffer Tank III, (Prior to Dewatering), Including: All needed earthworks, concrete works and finishing/metallic works	l.s	
II.2.16	New Pumps and Blowers Building for Anaerobic Digester, including: All needed earthworks, concrete works and finishing/metallic works	l.s	
II.2.17	New CHP Building and Gas Storage Sphere, including: All needed earthworks, concrete works and finishing/metallic works	l.s	
II.2.18	New Sludge Dewatering Building	l.s	
II.2.19	New Sludge Storage Silos, including: All needed earthworks, concrete works and finishing/metallic works.	l.s.	
II.2.20	New Odour Control Unit 1 in the Existing WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works.	l.s.	
II.2.21	New Odour Control Unit 2, in the New WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works.	l.s.	
II.2.22	New Aluminium Flat Covers for Odor Control in the Existing WWTP Structures and for Phase 1 Structures in the New WWTP Site, including all needed fixation works.	l.s.	

Item No	Description	Unit	Price ($)
II.2.23	New Administration Building 1 in the Existing WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s.	
II.2.24	New Administration Building 2 in the New WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s.	
II.2.25	New Accommodation Building in the New WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s.	
II.2.26	New Workshop and Storage Building in the Existing WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s.	
II.2.27	New Main Store Building in the New WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s.	
II.2.28	New Chemicals Building, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s	
II.2.29	New Guard House in the New WTTP Site, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s.	
II.2.30	New Power Supply Building 1 (Transformers, Generators, Control...) in the Existing WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s.	
II.2.31	New Power Supply Building 2 (Transformers, Generators, Control...) in the New WWTP Site, including: All needed earthworks, concrete works and finishing/metallic works and furniture.	l.s.	
II.2.32	Existing Transformers and Generators Building: Civil Works Rehabilitation and Replacement of Existing Exterior Storage Fuel Tanks	l.s.	
II.2.33	Any other civil engineering and building works not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c) d)	l.s. l.s. l.s. l.s.	
	Total Items II.2 to be carried to SUMMARY		

Price Schedule N° II.3 - Mechanical Works

Item No	Description	Unit	Price ($)
II.3.1	Site Inspection and Site Assessment Report	l.s	
II.3.2	Mechanical Works for New Inlet Flow Measurement and Related Accessories	l.s.	
II.3.3	Existing Screw Pumps Lifting Station and Related Screw Pumps Motors and MCC Building: Mechanical Works for Rehabilitation and Extension of Existing Constructions, including: New Archimedean screw pumps, penstocks, valves, piping, stop logs, extension of overhead crane, existing pumps refurbishment, new firefighting equipment, new HVAC equipment, …	l.s.	
II.3.4	Preliminary Treatment Screens: Mechanical Works for Rehabilitation of Existing Constructions, including: Refurbishment of existing coarse screens, new automatic fine screens, compacting conveyors and belts, sluice gates, stop logs, …	l.s	
II.3.5	Grit and Grease Removal (Aerated Degritting Tanks, Grit Classifiers and related Air Blower Building): Mechanical Works for Rehabilitation and Extension of Existing Structures and for a New Air Blower Building Replacing the Existing Building, Including: Refurbishment of existing equipment of the aerated degritting tanks (Bridge, scraper, air lift pump, air flow motors and mixers), new ditto equipment for the extension tanks part, new vortex pumps, new sand grid classifiers, new one air blower, removal and reinstallation of existing blowers in the new blower room, new firefighting equipment, new HVAC equipment, …	l.s.	
II.3.6	Existing Main Pumping Station: Mechanical Rehabilitation Works, including: Replacement of whole ventilation and related ducting system, refurbishment of existing pumps, instruments and pipes and accessories, provide new pump, instruments and new pipes, accessories and weirs, new firefighting equipment, new HVAC equipment, ...	l.s.	
II.3.7	New Primary Sedimentation Tanks: New Mechanical Works, Including: Bridge, scraper, scum removal, …	l.s.	
II.3.8	New Primary Sludge Pumps and Related Pipes, Valves and Accessories (Pumping towards primary sludge thickeners), …	l.s.	
II.3.9	New Three Primary Sludge Gravity Thickeners: New Mechanical Equipment for Phase 1	l.s	
II.3.10	New Primary Buffer Tank I (Following Sludge Thickening): New Mechanical Equipment for Phase 1	l.s	
II.3.11	New Thickened Sludge Pumps and Screens Building: New Mechanical Works for Phase 1, Including: Primary Sludge Screens, Progressive cavity pumps (Pumping to Buffer Tank I, then to Anaerobic Digesters), firefighting equipment, HVAC equipment, …	l.s.	
II.3.12	New Two Anaerobic Sludge Digester s and Access Structure, Comprising Stair Case and Lift: New Mechanical Equipment for Phase 1	l.s.	
II.3.13	One Buffer Tank III (Prior to Dewatering): New Mechanical Equipment for Phase 1.	l.s.	
II.3.14	New Pumps and Blowers Building for Anaerobic Digesters: New Mechanical Works for Phase 1, Including: Pumps and blowers and related pipe work, valves and accessories, firefighting equipment, HVAC equipment, …	l.s.	
II.3.15	New CHP Building and Gas Storage Sphere: New Mechanical Works for Phase 1, Including: Two CHP Engines, firefighting equipment, HVAC equipment, …	l.s.	
II.3.16	New Gas Flaring Station	l.s.	

Item No	Description	Unit	Price ($)
II.3.17	New Sludge Dewatering Building: New Mechanical Works for Phase 1, Including: Sludge Dewatering and Lime Treatment Equipment, comprising: Plumbing, pumps, centrifuges, belt conveyors, mixers, bins, pipework, valves, firefighting equipment, HVAC equipment, …	l.s.	
II.3.18	New Sludge Storage Silos: New Mechanical Equipment for Phase 1	l.s.	
II.3.19	New Odor Control Unit 1 in the Existing WWTP site: New Mechanical Works for Phase 1, Including: Biological trickling filter with structural media, firefighting equipment, HVAC equipment, …	l.s.	
II.3.20	New Odor Control Unit 2 in the new WWTP Site: New Mechanical Works for Phase 1, Including: Biological trickling filter with structural media, firefighting equipment, HVAC equipment, …	l.s.	
II.3.21	New Administration Building 1, in the Existing WWTP Site: New Mechanical Works, including laboratory equipment and complete sanitary, plumbing and drainage systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.22	New Administration Building 2, in the New WWTP Site: New Mechanical Works, including complete sanitary, plumbing and drainage systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.23	New Accommodation Building (In the New WWTP Site): New Mechanical Works, including complete sanitary, plumbing and drainage systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.24	New Workshop and Storage Building in the Existing WWTP Site: New Equipment and Tools and Installation of Complete Sanitary, Plumbing and Drainage Systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.25	New Main Store Building in the New WWTP Site: New Mechanical Works, including complete sanitary, plumbing and drainage systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.26	New Chemical Building in the New WWTP Site: New Mechanical Works, including complete sanitary, plumbing and drainage systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.27	New Guard House (In the New WWTP Site): New Mechanical Works, including complete sanitary, plumbing and drainage systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.28	New Power Supply Buildings 1 (Transformers, Generators, Control...) in the Existing WWTP Site: New Mechanical Works Including complete sanitary, plumbing and drainage systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.29	New Power Supply Building 2 (Transformers, Generators, Control...) in the New WWTP Sites: New Mechanical Works, including complete sanitary, plumbing and drainage systems, firefighting equipment, HVAC equipment, ….	l.s.	
II.3.30	Existing Transformers and Generators Building: New Mechanical Works. Including complete sanitary, plumbing and drainage systems, new firefighting equipment, new HVAC equipment, ….	l.s.	
II.3.31	Plant Internal Infrastructure Works for Phase 1: Sewage Network, Potable Waterlines and Industrial Water Lines for the New Structures, in Existing WWTP Site and New WWTP Site	l.s.	
II.3.32	Process Wastewater and Sludge Pipework for Phase 1, inside each of Existing and New WWTP sites and Connections Between the Two WWTPs sites, comprising Highway Crossing, Including: Pipes, fittings, valves, couplings, manholes, …	l.s.	
II.3.33	Site Wash water Pressurized System for Existing WWTP Site.	l.s.	
II.3.34	Site Wash water Pressurized System for New WWTP Site-Phase 1	l.s.	
II.3.35	Factory testing	l.s.	
II.3.36	Optional Item - New Primary Sedimentation Tanks Equipment, including: Lamella tube settler, supports, fixing accessories, …	l.s.	

Item No	Description	Unit	Price ($)
II.3.37	Any other mechanical engineering works not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c) d)	 l.s. l.s. l.s l.s	
	Total Items II.3 to be carried to SUMMARY		

Price Schedule N° II.4 - Electrical Works

Item No	Description	Unit	Price ($)
II.4.1	Electrical survey, test, inspection and assessment report.	l.s.	
II.4.2	Electrical Works for New Inlet Flow Measurement	l.s	
II.4.3	Existing Screw Pumps Lifting Station and related Screw Pumps Motors and MCC Building: Electric Works for the Rehabilitation and Extension of Existing Constructions	l.s.	
II.4.4	Preliminary Treatment Screens: New Electrical System for the Rehabilitation of Existing Constructions	l.s.	
II.4.5	Grit and Grease Removal (Aerated Degritting Tanks, Grit Classifiers and related Air Blower Building): Electrical Works for the Rehabilitation and extension of Existing Structures and construction of a New Air Blower Building Replacing the Existing Building	l.s	
II.4.6	Existing Main Pumping Station: Electrical Rehabilitation Works	l.s.	
II.4.7	New Interim Lifting Station: New Building Electrical Works	l.s.	
II.4.8	New Thickened Sludge Pumps and Screens Building: New Electrical Works for Phase 1.	l.s.	
II.4.9	New Two Anaerobic Sludge Digesters and Access Structure Comprising Stair Case and Lift: New Electrical Works for Phase 1	l.s.	
II.4.10	New Pumps and Blowers Building for Anaerobic Digester: New Electrical Works for Phase 1	l.s.	
II.4.11	New CHP Building and Gas Storage Sphere: New Electrical Work for Phase 1.	l.s.	
II.4.12	New Sludge Dewatering Building: New Electrical Works for Phase 1.	l.s.	
II.4.13	New Odor Control Unit 1 in The Existing WWTP Site: New Electrical Works for Phase 1.	l.s.	
II.4.14	New Odor Control Unit 2 in The New WWTP Site: New Electrical Works for Phase 1.	l.s.	
II.4.15	New Administration Building 1 in the Existing WWTP Site: New Building Electrical Works	l.s.	
II.4.16	New Administration Building 2 in the New WWTP Site: New Building Electrical Works	l.s.	
II.4.17	New Accommodation Building (In the New WWTP Site): New Building Electrical Works	l.s.	
II.4.18	New Workshop and Storage Building in the Existing WWTP Site: New Building Electrical Works	l.s.	
II.4.19	New Main Store Building in the New WWTP Site: New Building Electrical Works	l.s.	
II.4.20	New Chemicals Storage Building (In the New WWTP Site): New Building Electrical Works	l.s.	
II.4.21	New Guard House (In the New WWTP Site): New Building Electrical Works	l.s.	

Item No	Description	Unit	Price ($)
II.4.22	New Power Supply Building 1 (Transformers, Generators, Control...) in the Existing WWTP Site: New Building Electrical Works	l.s.	
II.4.23	New Power Supply Building 2 (Transformers, Generators, Control...) in the New WWTP Site: New Building Electrical Works	l.s.	
II.4.24	Existing Transformers and Generators Building: Electrical Works for Building Rehabilitation	l.s.	
II.4.25	Medium Voltage (MV) Switch Gear and Cabling for Existing WWTP Site	l.s	
II.4.26	Medium Voltage (MV) Switch Gear and Cabling for New WWTP Site	l.s	
II.4.27	Transformers (MV/LV) and Related Equipment for Existing WWTP Site	l.s.	
II.4.28	Transformers (MV/LV) and Related Equipment for New WWTP Site	l.s.	
II.4.29	Prime Power (PRP) Diesel Generators and Related Equipment for Existing WWTP Site	l.s.	
II.4.30	Prime Power (PRP) Diesel Generators and Related Equipment for New WWTP Site	l.s.	
II.4.31	Panel boards in the Existing WWTP Site, Including: VFD, MDB, MCC, Power Factor panels, Sub-panel boards.	l.s.	
II.4.32	Panel boards in the New WWTP Site, Including: VFD, MDB, MCC, Power Factor panels, Sub-panel boards.	l.s.	
II.4.33	LV Power Cabling and Cable Support Systems in the Existing WWTP Site.	l.s.	
II.4.34	LV Power Cabling and Cable Support Systems in the New WWTP Site.	l.s.	
II.4.35	Earthing And Lightning Systems for All the Plants Structures.	l.s.	
II.4.36	New Exterior Lighting for Roads and Yards in The New and Existing WWTP Sites and for the Access Road between WWTP Sites and Rehabilitation of the Existing Lighting.	l.s.	
II.4.37	New Security/Control Systems and Maintenance of Existing Security/Control System (Cameras, Cables, Monitoring Softwares, …)	l.s.	
II.4.38	Fire Detection and Fire Alarms for The Plant and Buildings	l.s.	
II.4.39	Telephone and switch board systems	l.s.	
II.4.40	Batteries and Battery Charger Systems.	l.s.	
II.4.41	Factory testing	l.s.	
II.4.42	Any other electrical item not described above, but deemed necessary to complete the works. Tenderer to detail: a) b) c) d)	 l.s. l;s. l.s l.s	
	Total Items II.4 to be carried to SUMMARY		

Price Schedule N° II.5 - SCADA Works

Item No	Description	Unit	Price ($)
II.5	**New SCADA Systems Including all Instrumentation and Control Works**	**l.s.**	
II.5.1	Process instruments	l.s.	
II.5.2	Instrumentation cables (Not Mentioned in Other Schedules Items)	l.s.	
II.5.3	Programable Logical Controllers (Hot Redundant PLCs)	l.s.	
II.5.4	Remote terminal Units (RTU)	l.s.	
II.5.5	Hardware equipment and software material	l.s.	
II.5.6	Mimic Panels	l.s.	
II.5.7	Plant Monitoring and SCADA Control System	l.s.	
II.5.8	Upstream Effluent Pumping Station Communication Network	l.s.	
II.5.9	Any other SCADA item not described above, but deemed necessary to complete the works. Tenderer to detail: a) b) c) d)	 l.s. l.s. l.s l.s	
	Total Items II.5 to be carried to SUMMARY		

Price Schedule N° II.6 - Landscaping Works

Item No	Description	Unit	Price ($)
II.6.1	Earthworks for Landscaping (Green Area) in the New and Existing WWTPs Sites	l.s.	
II.6.2	Irrigation Network in the New and Existing WWTPs Sites	l.s.	
II.6.3	Planting of Trees, Lawns and Flowers in the New and Existing WWTPs Sites	l.s.	
II.6.4	Gravel Areas in the New and Existing WWTPs Sites	l.s.	
II.6.5	New Site Access Paved Road, with a New Bridge Crossing the Main Road, Linking the Existing WWTP Plant Site to the New WWTP Site. Including all needed earth works, concrete works, road construction, finishing works and drainage works	l.s.	
II.6.6	New Internal Paved Roads and Parking Structures in The New and Existing WWTPs Sites Including all needed earth works, concrete works, road construction, finishing works and drainage works (Till the sea in the new WWTP site)	l.s.	
II.6.7	Rehabilitation of the Existing Internal Paved Roads, Parking Structure and Miscellaneous Finishing Works (Sidewalks, concrete curbs, steel grills and covers, uncovered parking area, …	l.s.	
II.6.8	New Permanent Fence and Access Gate for The New WWTP Site, including all needed earth works. concrete works, steel works, mesh, final closure works of the landfill cell 2A (Fill materials, geotextile, geomembrane, …), …	l.s.	
II.6.9	Any other landscaping item not described above, but deemed necessary to complete the works. Tenderer to detail: a) b)	 l.s. l.s.	
	Total Items II.6 to be carried to SUMMARY:		

III.JNAH NEW SEA OUTFALL

Price Schedule N° III.1 - Preliminary Items

Item No	Description	Unit	Price ($)
III.1.1	Mobilisation cost for onshore and offshore works including Site preparation, sign boards, special temporary facilities and environmental measures for offshore works, the wastewater diversion works when needed for the execution works.	l.s.	
III.1.2	All needed onshore and offshore topographic and marine surveys and investigations studies during design and execution phases, including obtaining of approvals and permissions prior to the commencement of construction.	l.s.	
III.1.3	Onshore and Offshore Geotechnical Investigations for the installation of the sea outfall pipelines and the related constructions.	l.s	
III.1.4	Detailed Engineering Design for all sea outfall onshore and offshore works	l.s	
III.1.5	Construction and shop drawings and documents	l.s	
III.1.6	Preparation and submission of "As-built" Drawings	l.s.	
III.1.7	Preparation and submission of Operation and Maintenance documents and manuals	l.s.	
III.1.8	Pre-Commissioning Testing and adjustment period	l.s.	
III.1.9	Commissioning Testing including trial operation period, performance tests and commissioning certificate	l.s.	
III.1.10	Demobilisation	l.s.	
III.1.11	Any others Preliminary items not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c)	l.s. l.s. l.s	
	Total Items III.1 to be carried to SUMMARY		

Price Schedule N° III.2 - Onshore Works

Item No	Description	Unit	Price ($)
III.2.1	Site clearance and preparation works related to the installation of the onshore pipeline (between BH-02 and BH-03), including: clearing, grubbing, demolition (including disposal) at the box culvert connection, removal of existing pipes (between BH-02 and the box culvert), cleaning of existing box culvert.	l.s.	
III.2. 2	Complete Installation of Onshore sewer pipelines HDPE, 800mm diameter, to be installed buried, exposed (encased) or mostly inside an existing culvert, between MH-02 (upstream the box culvert) and MH-03 (pressurized sea shore manhole), including: Excavation, Supply, installation and testing of HDPE pipes and fittings, backfilling (Bedding, engineering fills, …)	l.s.	
III.2.3	Construction of reinforced concrete works for: Manholes (MH-02, MH-03), pipes encasement (between the box culvert and MH-03), concrete repair for the box culvert at the upstream connection and at the end. These reinforced concrete works shall include but not limited to: concrete, steel reinforcement, concrete benching, coal tar epoxy paint, waterproofing membrane, heavy duty frame and cover, aluminium ladder/steps, excavation, backfilling, repair materials, …	l.s	

Item No	Description	Unit	Price ($)
III.2.4	Asphalt reinstatement works, where affected by the execution activities especially between manhole MH-02 and the box culvert, including asphalt removal, subbase, basecourse, asphalt reinstatement layers.	l.s.	
III.2.5	Any other onshore works not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c) d)	 l.s. l.s. l.s. l.s.	
	Total Items III.2 to be carried to SUMMARY		

Price Schedule N° III.3 - Offshore Works

Item No	Description	Unit	Price ($)
III.3.1	Site Clearance and Demolitions in the works Sites, including: Clearing, grubbing, grading, levelling.	l.s.	
III.3. 2	Earth Works Including: Excavation, backfilling and rock protection with gravel bedding and surround and filter (Imported and excavated)	l.s.	
III.3. 3	Complete supply, installation and testing of offshore sewer pipelines including: - HDPE pipes and fittings excluding diffusers section - HDPE pipes and fittings and risers for diffusers sections - HDPE bends and Tees connecting the pipes and risers to the diffusers, and for the pipe end	l.s.	
III.3.3	Construction and installation of reinforced concrete elements for the stabilization of the sea outfall pipeline (Jumpers, collars, mattress, port protection, …) including all the needed materials (Concrete, steel reinforcement, steel for the mattress, neoprene pads, …	l.s	
III.3.4	Supply, installation and testing of diffusers and Duckbill valves (reinforced neoprene)	l.s.	
III.3.5	Any other offshore works not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c) d)	 l.s. l.s. l.s. l.s.	
	Total Items III.3 to be carried to SUMMARY		

IV. RAMLET EL-BAYDA NEW SEA OUTFALL

Price Schedule N° IV.1 - Preliminary Items

Item No	Description	Unit	Price ($)
IV.1.1	Mobilisation cost for onshore and offshore works including Site preparation, sign boards, special temporary facilities and environmental measures for offshore works, the wastewater diversion works when needed for the works execution.	l.s.	
IV.1.2	All needed onshore and offshore topographic and marine surveys and investigations studies during design and execution phases, including obtaining of approvals and permissions prior to the commencement of construction.	l.s.	
IV.1.3	Onshore and Offshore Geotechnical Investigations for the installation of the sea outfall pipelines and the related constructions.	l.s	
IV.1.4	Detailed Engineering Design for all sea outfall onshore and offshore works	l.s	
IV.1.5	Construction and shop drawings and documents	l.s	
IV.1.6	Preparation and submission of "As-built" Drawings	l.s.	
IV.1.7	Preparation and submission of Operation and Maintenance documents and manuals	l.s.	
IV.1.8	Pre-Commissioning Testing and adjustment period	l.s.	
IV.1.9	Commissioning Testing including trial operation period, performance tests and commissioning certificate	l.s.	
IV.1.10	Demobilisation	l.s.	
IV.1.11	Any others Preliminary items not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c)	l.s. l.s. l.s	
	Total Items IV.1 to be carried to SUMMARY		

Price Schedule N° IV.2 - Onshore Works

Item No	Description	Unit	Price ($)
IV.2.1	Site clearance and preparation works related to the installation of the onshore pipeline (between M1 and M7), including: clearing, grubbing, demolition (including disposal) and removal of existing pipes at the location of the collection manhole M1.	l.s.	
IV.2. 2	Complete Installation of Onshore sewer pipelines GRP, 800mm diameter, starting from the collection manhole M1 till M7 (pressurized sea shore manhole), including: Excavation, Supply, installation and testing of GRP pipes and fittings, backfilling (Bedding, engineering fills, …)	l.s.	
IV.2.3	Construction of reinforced concrete works for: Manholes (M1, M2, M3, M4, M5, M6 and M7), pipes encasement (where the cover above the pipe crown level is less than the minimum required depth, or more than the maximum required depth). These reinforced concrete works shall include but not limited to: concrete, steel reinforcement, concrete benching, coal tar epoxy paint, waterproofing membrane, heavy duty frame and cover, aluminium ladder/steps, excavation, backfilling, repair materials, …	l.s	

Item No	Description	Unit	Price ($)
IV.2.4	Asphalt reinstatement works where affected by the execution activities, especially between manholes M1 and M7, including asphalt removal, subbase, basecourse, asphalt reinstatement layers.	l.s.	
IV.2.5	Any other onshore works not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c) d)	 l.s. l.s. l.s. l.s.	
	Total Items IV.2 to be carried to SUMMARY		

Price Schedule N° IV.3 - Offshore Works

Item No	Description	Unit	Price ($)
IV.3.1	Site Clearance and Demolitions in the works Sites, including: Clearing, grubbing, grading, levelling.	l.s.	
IV.3. 2	Earth Works Including: excavation, backfilling and rock protection with gravel bedding and surround and filter (Imported and excavated)	l.s.	
IV.3. 2	Complete supply, installation and testing of offshore sewer pipelines (diameter not less than 600mm), including: - HDPE pipes and fittings excluding diffusers section. - HDPE pipes and fittings and risers for diffusers sections. - HDPE bends and Tees connecting the pipes and risers to the diffusers, and for the pipe end.	l.s.	
IV.3.3	Construction and installation of reinforced concrete elements for the stabilization of the sea outfall pipeline (Jumpers, collars, mattress, port protection, …) including all the needed materials (Concrete, steel reinforcement, steel for the mattress, neoprene pads, …	l.s	
IV.3.4	Supply, installation and testing of diffusers and Duckbill valves (reinforced neoprene)	l.s.	
IV.3.5	Any other offshore works not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c) d)	 l.s. l.s. l.s. l.s.	
	Total Items IV.3 to be carried to SUMMARY		

V. GHADIR TWO (2) EXISTING SEA OUTFALLS- INSPECTION, SURVEY AND ASSESSMENT

Price Schedule N° V.1 - Preliminary Items

Item No	Description	Unit	Price ($)
V.1.1	Mobilisation cost for onshore and offshore inspection, survey and assessment works including site preparation, special temporary facilities and marine vessels and equipment and environmental measures for offshore works, the wastewater diversion works when needed and all needed logistics, …	l.s.	
V.1.2	Inception report for all onshore and offshore inspection, survey and assessment works, related to the existing two sea outfalls, including: Method statements, work plan and schedule, …	l.s	
V.1.3	Demobilisation	l.s.	
V.1.4	Any others Preliminary items not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c)	l.s. l.s. l.s	
	Total Items V.1 to be carried to SUMMARY		

Price Schedule N° V.2 – Survey, Inspection and Reporting

Item No	Description	Unit	Price ($)
V.2.1	External and internal pipelines inspection and onshore and sea bed surveys of DN1200 sea outfall (2,600m) and related protection structures, including: GPS, CCTV, side scan sonar, bathymetric survey, underwater ROV video inspection, advanced robotic crawler for inspection inside pipelines, removal and reinstallation/replacement of risers/diffusers for sea outfall pipeline access, …	l.s.	
V.2.2	External and internal pipelines inspection and onshore and sea bed surveys of DN1500 sea outfall (500m) and related protection structure, including: GPS, CCTV, side scan sonar, bathymetric survey, underwater ROV video inspection, advanced robotic crawler for inspection inside pipelines, removal and reinstallation/replacement of risers/diffusers for sea outfall pipeline access, …	l.s.	
V.2. 3	Excavate trial pits in the sea bed for covered pipelines portions (Minimum7), to expose and examine the buried portions condition. The number of trial pits shall be determined as required to adequately assess the condition of the buried pipes.		
V.2. 4	Collect, compile, and organize all video recordings and photographic documentation for the two existing outfalls.	l.s.	
V.2.5	Measurement of the water head at each sea outfall pipeline termination prior to removing the end plugs	l.s	
V.2.6	Corrosion/Cathodic protection system inspection including provision of the needed electrical equipment and thickness measurements for both existing outfalls	l.s.	
V.2.7	Condition assessment report for both existing outfalls including: Inspection details, deposit assessment and mapping, other inspections assessment, assessment results, drawings (Layouts, updated onshore topographic survey, updated bathymetric survey, pipelines profiles, …), …	l.s.	

Item No	Description	Unit	Price ($)
V.2.8	Rehabilitation recommendations report for both existing outfalls, including: Alternatives, list of proposed works, drawings cost estimations for each proposed alternative, …	l.s.	
V.2.9	Any other survey, inspection and reporting works not described above, but deemed necessary for the satisfactory completion of the works. Tenderer to detail: a) b) c) d)	 l.s. l.s. l.s. l.s.	
	Total Items V.2 to be carried to SUMMARY		

VI. OPERATION SERVICE PERIOD

Price Schedule N° VI.1– Operation Service Period for WWTP (Existing and Extension)

No.	Description	Unit	Unit Rate ($)
Fixed Operating Costs			
VI.1-F.1	O&M Staff, fixed part	month	
VI.1-F.2	Maintenance, spare parts, wear and tear parts for O&M period, including consumable (Oil Grease, etc), fixed part	month	
VI.1-F.3	Utilities and other costs, fixed part	month	
VI.1-F.4	Chemical consumption, fixed part	month	
VI.1-F.5	Electricity consumption, fixed part	month	
VI.1-F.6	Fuel consumption (Based on 4 hours Electricity cut-off per day), fixed part	month	
VI.1-F.7	Water analyses, laboratory, fixed part	month	
VI.1-F.8	Evacuation of wastes, fixed part	month	
VI.1-F.9	Training	month	
VI.1-F.10	Any other O&M item not described above, but deemed necessary to operate and maintain the works. Tenderer to detail: a) b)	month	
	Total Fixed Operating Costs VI.1-F $/month		

Variable Operating Costs			
No.	**Description**	**Unit**	**Unit Rate ($)**
VI.1-V.1	O&M Staff, variable part	m^3	
VI.1-V.2	Maintenance, spare parts, wear and tear parts for O&M period, including consumable (Oil Grease, etc), variable part	m^3	
VI.1-V.3	Utilities and other costs, variable part	m^3	
VI.1-V.4	Chemical consumption, variable part	m^3	
VII.1-V.5	Electricity consumption, variable part	m^3	
VI.1-V.6	Fuel consumption (Based on 4 hours Electricity cut-off per day), variable part	m^3	
VI.1-V.7	Water analyses, laboratory, variable part	m^3	
VI.1-V.8	Evacuation of wastes, variable part, (for 50km, shorter path length)	m^3	
VI.1-V.9	Training	m^3	
VI.1-V.10	Any other O&M item not described above, but deemed necessary to operate and maintain the works. Tenderer to detail: a) b)	m^3	
	Total Variable Operating Costs VI.1-V $/m³		

Price Schedule N° VI.2– Operation Service Period for New Sea Outfalls

No.	Description	Unit	Unit Rate ($)
Only Fixed Operating Costs			
Fixed maintenance and operation costs for each of the two sea outfalls, ensuring appropriate performance for discharging the designed flow, whenever needed as overflow or when required by the Client, including all needed manpower, equipment, spare parts, wear and tear parts, consumable, … *Note: The two sea outfalls are overflow pipes operating under emergency conditions; the flow is infrequent and intermittent.*			
VI.2-F.1	Fixed maintenance and operation cost for Jnah (PS2) sea outfall,	month	
VI.2-F.2	Fixed maintenance and operation cost for Ramlet El Bayda (M1) sea outfall,	month	
	Total Fixed Operating Costs VI.2-F $/month		

PROVISIONAL SUMS

Price Schedules - Appendix I: Daywork Schedule A - Labor

No.	Description	Unit	Provisional Quantity	Unit Rate ($)	Amount ($)
	Civil Engineering				
A.1	Working ganger	hr	400		
A.2	Craftsman (joiner/steel fixer and the like)	hr	800		
A.3	Semi-skilled workman (plant operator / pipelayer and the like)	hr	2000		
A4	Skilled archeologist		1000		
A.5	Labourer	hr	5000		
	Mechanical/Electrical				
A.6	Technician/Engineer	hr	400		
A.7	Electrician/Fitter	hr	200		
	Offshore works				
A.8	Commercial Diver	hr	100		
A.9	Dive Technician	hr	100		
A.10	Rescue Diver	hr	100		
				Total Cost for Labourer	
			Tenderer's Percentage on price of Dayworks Labourer (Sub-clause 13.5)	%	
				Total Appendix I.A to be carried to SUMMARY (Including percentage on total cost)	

Price Schedules - Appendix I: Daywork Schedule B - Materials

No.	Description	Unit	Provisional Quantity	Unit Rate ($)	Amount ($)
B.1	Provisional Sum for Materials and Equipment	PS	1	700,000	700,000
				Total Cost for Materials	700,000
			Tenderer's Percentage on price of Dayworks Materials (Sub-clause 13.5)	%	
				Total Appendix I.B to be carried to SUMMARY (Including percentage on total cost)	

Price Schedules - Appendix I: Daywork Schedule C - Contractor's Equipment

The equipment's shall be eligible for use under the Republic of Lebanon conditions and laws.

No.	Description	Unit	Provisional Quantity	Unit Rate ($)	Amount ($)
C.1	Air compressor up to 14 m^3/min, including hoses free air delivery 7kg/cm^2	hr	160		
C.2	Concrete mixer, closed drum with hopper wet capacity up to 200 litres.	hr	80		
C.3	Vibrator poker air (excluding compressor).	hr	120		
C.4a	Crane, crawler mounted, maximum safe working load: Up to 36 tonnes	hr	80		
C.4b	Up to 75 tonnes	hr	40		
C.5a	Concrete skip for crane, struck capacity: Up to 0.6 m^3	hr	40		
C.5b	Up to 1.2 m^3	hr	40		
C.6a	Dumper, 2-wheel drive, makers rated payload: Up to 1500 kg	hr	200		
C.6b	Up to 5000 kg	hr	200		
C.7	Rear dump truck, makers rated payload up to 17 tonnes	hr	40		
C.8	Articulated dump truck, makers rated payload up to 18.5 tonnes	hr	40		
C.9a	Excavator mounted percussion breaker, unit weight less cradle: Up to 100 kg	hr	40		
C.9b	Up to 1,000 kg	hr	40		
C.10a	Excavator, hydraulic full circle slew, crawler or wheel mounted with single equipment, makers rated nominal weight: Up to 2 tonnes	hr	40		
C.10b	Up to 14 tonnes	hr	40		
C.10c	Up to 21 tonnes	hr	120		
C.10d	Up to 30 tonnes	hr	40		
C.10e	Up to 55 tonnes	hr	40		
C.11	Excavator, hydraulic, offset or centre post, half circle slew, wheeled dual purpose back hoe/loader, makers rated loader bucket capacity up to 1.0 m^3	hr	200		
C.12	Work Barge	hr	50		
C.13	Marine Crane	hr	50		
C.14	Ballasting Equipment	hr	50		
C.15	Excavator on Barge	hr	50		
			Sub-Total to be carried to next page		

No.	Description	Unit	Provisional Quantity	Unit Rate ($)	Amount ($)
C.12a	Generating set, nominal rating				
	Up to 10 kVA	hr	60		
C.12b	Up to 25 kVA	hr	60		
C.13a	Transformer, stationary, (air cooled nominal rating:	hr	60		
	Up to 10 kVA				
C.13b	Up to 25 kVA	hr	60		
C.14a	Lorry, maximum gross vehicle weight:				
	Up to 12 tonnes	hr	40		
C.14b	Up to 17 tonnes	hr	40		
C.14c	Up to 30 tonnes	hr	40		
C.15a	Lorry, tipper, maximum gross vehicle weight:	hr	80		
	Up to 12 tonnes				
C.15b	Up to 17 tonnes	hr	40		
C.15c	Up to 30 tonnes	hr	40		
C.16a	Van or pick-up. Carrying capacity:				
	Up to 1 tonne	hr	80		
C.16b	Up to 2 tonnes	hr	80		
C.17	Vibration rammer, nominal weight:				
	Up to 60 kg	hr	40		
C.18a	Vibrating plate compactor, nominal weight:				
	Up to 80 kg	hr	80		
C.18b	Up to 150 kg	hr	80		
C.19	Pneumatic tools: Breaker including steels	hr	120		
				Total Cost for Equipment	
	Tenderer's Percentage on price of Dayworks Labourer (Sub-clause 13.5)		%		
				Total Appendix I.C to be carried to SUMMARY (Including percentage on total cost)	

Price Schedules - Appendix II: List of Spare Parts

With reference to the Employer's Requirements, the Tenderer shall include as part of his Tender Price a priced list of spare parts for a three (3) years operation period after the 2 years of Operation Service Period, which he suggests to be included in the Contract.

LIST OF SPARE PARTS (Provisional Sum)				
Item	**Description**	**Quantity**	**Unit Rate**	**Amount ($)**
II.1				
II.2				
II.3				
II.4				
II.5				
II.6				
II.7				
II.8				
II.9				
II.10				
II.11				
II.12				
	TOTAL Appendix II - SPARE PARTS to be carried to SUMMARY			

Price Schedules - Appendix III: Net Present Value (NPV) Table

- This NPV Analysis is for the Price of the Operation & Maintenance of Phase I of the project which is mandatory.
- All Tenderers shall use the table format below to allow ease of comparison of Tenders. Where an item is not required, insert zero (0). Do not leave blank.
- Care must be taken to ensure the capital costs entered below are the same as in the Schedule of Prices.

NPV TABLE FOR AL-GHADIR WWTP - PHASE I: DESIGN, BUILD AND OPERATE, INCLUDING SEA OUTFALLS																	
ITEM	REFERENCES TO SCHEDULE OF PRICES	NPV															
		CAPITAL COST	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15
I	GENERAL WORKS																
	Sub-Total																
II	WWTP (EXISTING AND EXTENSION)																
II-1	Preliminary Items																
	Sub-Total																
II-2	Civil Engineering and Building Works																
	Sub-Total																
II-3	Mechanical Works																
	Sub-Total																
II-4	Electrical Works																
	Sub-Total																
II-5	SCADA Works																
	Sub-Total																
II-6	Landscaping Works																
	Sub-Total																
III	JNAH NEW SEA OUTFALL																
III-1	Preliminary Items																
	Sub-Total																

NPV TABLE FOR AL-GHADIR WWTP - PHASE I: DESIGN, BUILD AND OPERATE, INCLUDING SEA OUTFALLS																	
ITEM	REFERENCES TO SCHEDULE OF PRICES	NPV															
		CAPITAL COST	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15
III-2	Onshore Works																
	Sub-Total																
III-3	Offshore Works																
	Sub-Total																
IV	RAMLET EL-BAYDA NEW SEA OUTFALL																
IV-1	Preliminary Items																
	Sub-Total																
IV-2	Onshore Works																
	Sub-Total																
IV-3	Offshore Works																
	Sub-Total																
V	GHADIR TWO (2) EXISTING SEA OUTFALLS- INSPECTION, SURVEY AND ASSESSMENT																
V-1	Preliminary Items																
	Sub-Total																
V-2	Survey, inspection and reporting																
	Sub-Total																
VI	OPERATION SERVICE PERIOD																
VI.1	Operation Service Period for WWTP (Existing and Extension)																
VI.1-F	Fixed Operating Cost																
	O&M Staff, fixed part.																
	Maintenance, spare parts, wear and tear parts for O&M period, including consumable (Oil Grease, etc), fixed part.																

NPV TABLE FOR AL-GHADIR WWTP - PHASE I: DESIGN, BUILD AND OPERATE, INCLUDING SEA OUTFALLS																	
ITEM	**REFERENCES TO SCHEDULE OF PRICES**	**NPV**															
		CAPITAL COST	**Yr 1**	**Yr 2**	**Yr 3**	**Yr 4**	**Yr 5**	**Yr 6**	**Yr 7**	**Yr 8**	**Yr 9**	**Yr 10**	**Yr 11**	**Yr 12**	**Yr 13**	**Yr 14**	**Yr 15**
	Utilities and other costs, fixed part.																
	Chemical consumption, fixed part.																
	Electricity consumption, fixed part.																
	Fuel consumption (Based on 4 hours Electricity shortage per day), fixed part																
	Water analyses, laboratory, fixed part.																
	Evacuation of wastes, fixed part.																
	Training.																
	Any other O&M item not described above, but deemed necessary to operate and maintain the works. Tenderer to detail.																
	Sub-Total																
VI.1-V	**Variable Operating Cost**																
	O&M Staff, variable part.																
	Maintenance, spare parts, wear and tear parts for O&M period, including consumable (Oil Grease, etc), variable part.																
	Utilities and other costs, variable part.																
	Chemical consumption, variable part.																
	Electricity consumption, variable part.																
	Fuel consumption (Based on 4 hours Electricity shortage per day), variable part.																
	Water analyses, laboratory, variable part.																
	Evacuation of wastes, variable part.																
	Training.																
	Any other O&M item not described above, but deemed necessary to operate and maintain the works. Tenderer to detail.																
	Sub-Total																

NPV TABLE FOR AL-GHADIR WWTP - PHASE I: DESIGN, BUILD AND OPERATE, INCLUDING SEA OUTFALLS																	
ITEM	REFERENCES TO SCHEDULE OF PRICES	NPV															
		CAPITAL COST	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15
VI.2	Operation Service Period for the New Sea Outfalls																
VI.2-F.1	Operation Service Period for Jnah New Sea Outfall																
	Sub-Total																
VI.2-F.2	Operation Service Period for Ramlet El-Bayda New Sea Outfall																
	Sub-Total																
	GRAND TOTAL																
	NPV at discount rate of 5%																

Notes:

1. For simplicity of NPV analysis, prices per complete bill are mentioned
2. Provide separate priced list of spare parts
3. Consider the costs of minor spares in year 1, 3, 6 and 9, 12, and 15
4. Consider the costs of major spares in year 5, 10 and 15 only.
5. Tenderers may be required to submit evidence of the life of the spares.
6. Use a standard rate of USD 0.27 per kW-Hr.
7. Inflation need not be considered as all sums are reduced to present day values
8. Costs are in USD
9. The NPV may be calculated according to the following equation: NPV = Cost/(1+r) n; r = discount rate; n = number of years
10. Consider NPV analysis at discount rate of 5%
11. Consider a revenue of 0.23 USD/m3 of treated wastewater (indicative value for bid evaluation only)
12. Consider full capacity of the plant since year 1

SECTION V – ELIGIBLE COUNTRIES

Eligibility for Procurement of Goods, Works and Related Services under IsDB Project Financing

1. In accordance with Para 1.8.1 of the Procurement Policy of the Guidelines for Procurement of Goods, Works and Related Services under Islamic Development Bank Project Financing, (April 2019 edition, amended from time to time),, it is a fundamental policy of IsDB that the Goods, Works and related services provided by the Contractor, and its associates and sub-contractors, shall be in strict compliance with the Boycott Regulations of the Organization of the Islamic Cooperation, the League of Arab States and the African Union. The Beneficiary shall advise prospective Proposers that bids will only be considered from Firms that are not subject to these Boycott Regulations. The Proposer shall provide a letter of oath to that effect.

   The eligibility of a Firm will be determined during the evaluation process. In cases where Firms withhold information to evade disqualification on account of the eligibility requirement, the Beneficiary will have the right to cancel the contract at any time and also to penalize such Firm and claim compensation for losses incurred, as a consequence thereof, by the Beneficiary and/or IsDB. IsDB reserves the right not to honor any contract if the supplier or contractor involved is found to be ineligible based on the eligibility requirement stated therein.

   For the purpose of eligibility, a Member Country (MC) Firm shall comply with all of the following:

   i. *it is established or incorporated in a IsDB MC;*
   ii. *its principal place of business is located in a IsDB MC; and*
   iii. *it is more than 50% beneficially owned by a firm or firms in one or more MC (which firm or firms must also qualify as to nationality) and/or citizens of such MC.*

   For the purpose of eligibility, a domestic firm of a MC is defined as follows:

   i. *it is established or incorporated in the MC where the Works are to be carried out and/or where the Goods are to be delivered;*
   ii. *its principal place of business is located in the Beneficiary MC; and*
   iii. *it is more than 50% beneficially owned by a firm or firms in the Beneficiary MC (which firm or firms must also qualify as to nationality) and/or citizens of such MC.*

2. In reference to ITP 4.8 and ITP 5.1, for the information of the Proposers, at the present time firms, goods and services from the following countries are excluded from this RFP process:

   Under **ITP 4.8(a)** and **ITP 5.1**: *[insert a list of the countries following approval by IsDB to apply the restriction or state "none"].*

   Under **ITP 4.8(b)** and **ITP 5.1**: *[insert a list of the countries following approval by IsDB to apply the restriction or state "none"]*

SECTION VI – FRAUD AND CORRUPTION

(Section VI shall not be modified)

1. PURPOSE

1.1 IsDB's Anti-Corruption Guidelines on Preventing and Combating Fraud and Corruption in IsDB Group-Financed Activities and this annex apply with respect to procurement under IsDB Project Financing operations.

2. REQUIREMENTS

2.1 IsDB requires that all beneficiaries of IsDB financing; bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of IsDB-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, IsDB:

a. defines, for the purposes of this provision, the terms set forth below as follows:

i. "Corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

ii. "Fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;

iii. "Collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

iv. "Coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

v. "Obstructive practice" is:

(a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a IsDB investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(b) acts intended to materially impede the exercise of IsDB's inspection and audit rights provided for under paragraph 2.2 e. below.

b. Rejects a proposal for award if IsDB determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring mis-procurement, if IsDB determines at any time that representatives of the Beneficiary or of a recipient of any part of the proceeds of the Financing engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Beneficiary having taken timely and appropriate action satisfactory to IsDB to address such practices when they occur, including by failing to inform IsDB in a timely manner at the time they knew of the practices;

d. Pursuant to IsDB's Anti-Corruption Guidelines, and in accordance with IsDB's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a IsDB-financed contract, financially or in any other manner;[2] (ii) to be a nominated[3] sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a IsDB-financed contract; and (iii) to receive the proceeds of any Financing made by IsDB or otherwise to participate further in the preparation or implementation of any IsDB-financed project;

e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a IsDB Financing, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents, personnel, permit IsDB to inspect[4] all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by IsDB.

2 For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

3 A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Beneficiary.

4 Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by IsDB or persons appointed by IsDB to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.