

Bihar Urban Development Investment Program - Project 1

(ADB Loan No. 2861-IND)

DOCUMENT

For

Prequalification of Bidders

For Procurement

Of

Works of Rehabilitation/ Construction of Bhagalpur Water Supply System for 24X7 Service, and Operation and Maintenance of Entire System

Issued on: **15 November 2012**

Invitation for Prequalification No.: **BUDIP/PQ/BWS/01**

ICB No.: **BH/WS//01**

Employer: Bihar Urban Infrastructure Development Corporation Ltd, Government of Bihar

Country: India

Preface

This Prequalification Document (PQD) has been prepared by **Bihar Urban Infrastructure Development Corporation Ltd, Government of Bihar** and is based on the Standard Procurement Document for the Prequalification of Bidders (SPQD) issued by the Asian Development Bank dated **September 2010**.

ADB's SPQD has the structure and the provisions of the Master Procurement Document entitled "Prequalification Documents for Procurement of Works", prepared by multilateral development banks and other public international financial institutions except where ADB-specific considerations have required a change.

Summary Description

PART 1. APPLICATION PROCEDURES

Section I. Instructions to Applicants (ITA) ----- 1-1

This section specifies the procedures to be followed by Applicants in the preparation and submission of their Applications for Prequalification (AFP). Information is also provided on opening and evaluation of AFPs. **Section I. contains provisions that are to be used without modification.**

Section II. Application Data Sheet (ADS) ----- 2-1

This section consists of provisions that are specific to each prequalification and supplement the information or requirements included in Section I. Instructions to Applicants.

Section III. Qualification Criteria (QLC) ----- 3-1

This section contains the criteria and methods to be used to evaluate applications.

Section IV. Application Forms (APF) ----- 4-1

This section contains the Application Submission Sheet and all the forms required to be submitted with the Application.

Section V. Eligible Countries (ELC) ----- 5-1

This section contains a list of eligible countries.

PART 2. REQUIREMENTS

Section VI. Scope of Contract (SOC) ----- 6-1

This section includes a summary description of the scope of contract and additional information on major contract components, major quantities, required construction methods, and the contract implementation period of the Contract subject of this prequalification exercise.

PART 1 – Application Procedures

Section I. Instructions to Applicants

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General

- 1. Scope of Application**

1.1 In connection with the Invitation for Prequalification indicated in Section II, Application Data Sheet (ADS), the Employer, as defined in the ADS, issues this Prequalification Document to applicants interested in bidding for the works described in Section VI, Scope of Contract. The number of contracts and the name and identification of each contract as well as the International Competitive Bidding (ICB) number corresponding to this prequalification, are provided in the ADS.
- 2. Source of Funds**

2.1 The Borrower or Recipient (hereinafter called "Borrower") indicated in the ADS has applied for or received financing (hereinafter called "funds") from the Asian Development Bank (hereinafter called "the ADB") towards the cost of the project named in the ADS. The Borrower intends to apply a portion of the funds to eligible payments under the contract resulting from the bidding for which this prequalification is conducted (hereinafter called "the Contract").

2.2 Payments by the ADB will be made only at the request of the Borrower and upon approval by the ADB in accordance with the terms and conditions of the financing agreement between the Borrower and the ADB (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that Loan Agreement. No party other than the Borrower shall derive any rights from the Loan Agreement or have any claim to the funds.
- 3. Corrupt Practices**

3.1 ADB's Anticorruption Policy requires borrowers (including beneficiaries of ADB-financed activity), as well as bidders, suppliers, and contractors under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the ADB:

 - (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) "coercive practice" means 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;
 - (iv) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.
 - (b) will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent,

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- engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract; and
- (c) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the borrower or of a beneficiary of ADB-financing engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the borrower having taken timely and appropriate action satisfactory to ADB to remedy the situation; and
 - (d) will sanction a firm or an individual, at any time, in accordance with ADB's Anticorruption Policy and Integrity Principles and Guidelines (both as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate in ADB-financed or ADB-administered activities or to benefit from an ADB-financed or ADB-administered contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive or other prohibited practices.
- 4. Eligible Applicants**
- 4.1 An Applicant shall be a private or government-owned legal entity, subject to ITA Sub-Clause 4.6, or any combination of them with a formal intent to enter into an agreement or under an existing agreement in the form of a Joint Venture (JV). In the case of a JV,
 - (a) all partners to the JV shall be jointly and severally liable; and
 - (b) a JV shall nominate a representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the prequalification process and, in the event the JV is prequalified, during the bidding process, and in the event the JV is awarded the Contract, during contract execution.
 - 4.2 An Applicant, and all partners constituting the Applicant, shall have the nationality of an eligible country, in accordance with Section V, Eligible Countries. An Applicant shall be deemed to have the nationality of a country if the Applicant is a national of that country; or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country.
 - 4.3 The above requirement shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.
 - 4.4 ADB considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations, and that such conflict of interest may contribute to or constitute a prohibited practice under ADB's Anticorruption Policy. In pursuance of ADB's Anticorruption Policy's requirement that Borrowers (including beneficiaries of ADB-financed activity), as well as bidders, suppliers, and contractors under ADB-financed contracts, observe the highest standard of ethics. ADB will take appropriate actions to manage such conflicts of interest which may include rejecting a proposal for award if it determines that a conflict of interest has flawed the integrity of any

procurement process. At the time of bidding, bidders may be considered to be in a conflict of interest with one or more parties if they, including but not limited to:

- (a) have controlling shareholders in common; or
- (b) receive or have received any direct or indirect subsidy from any of them; or
- (c) have the same legal representative for purposes of their Application; or
- (d) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or to influence the bid of another Applicant in the subsequent bidding process or influence the decisions of the Employer regarding this prequalification process; or
- (e) participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of this prequalification. Where a firm, or a firm from the same economic or financial group, in addition to consulting, also has the capability to manufacture or supply goods or to construct works, that firm, or a firm from the same economic or financial group, may not normally be a supplier of goods or works, if it provided consulting services for the contract corresponding to this prequalification, unless it can be demonstrated that there is no significant degree of common ownership, influence or control.

- 4.5 A firm shall not be eligible to participate in any procurement activities under an ADB-financed or ADB-supported project while under sanction by ADB pursuant to its Anticorruption Policy (see ITB 3), whether such sanction was directly imposed by ADB, or imposed by ADB pursuant to the Agreement for Mutual Enforcement of Debarment Decisions. A bid from a sanctioned or cross-debarred firm will be rejected.
- 4.6 Government-owned enterprises in the Employer's country shall be eligible only if they can establish that they are legally and financially autonomous, and operate under commercial law, and that they are not in any way dependent agencies of the Employer.
- 4.7 Applicants shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.

**5. Eligible
Materials,
Equipment and
Services**

- 5.1 The materials, equipment and services to be supplied under the Contract and financed by ADB shall have as their country of origin an eligible country of ADB (see Section V, Eligible Countries).

Contents of Prequalification Document

**6. Sections of the
Prequalification
Document**

- 6.1 The Prequalification Document consists of Parts 1 and 2 which include all the sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITA Clause 8.

PART 1 Prequalification Procedures

- Section I. Instructions to Applicants (ITA)
- Section II. Application Data Sheet (ADS)
- Section III. Qualification Criteria (QLC)
- Section IV. Application Forms (APF)
- Section V. Eligible Countries (ELC)

PART 2 Requirements

- Section VI. Scope of Contract

- 6.2 The “Invitation for Prequalification” issued by the Employer is not part of the Prequalification Document.
- 6.3 The Employer accepts no responsibility for the completeness of the Prequalification Document and its addenda unless they were obtained directly from the Employer.
- 6.4 The Applicant is expected to examine all instructions, forms, and terms in the Prequalification Document and to furnish all information or documentation required by the Prequalification Document.

7. Clarification of Prequalification Document

- 7.1 A prospective Applicant requiring any clarification of the Prequalification Document shall contact the Employer in writing at the Employer’s address indicated in the ADS. The Employer will respond in writing to any request for clarification provided that such request is received no later than fourteen (14) days prior to the deadline for submission of Applications. The Employer shall forward copies of its response to all Applicants who have acquired the Prequalification Document directly from the Employer including a description of the inquiry but without identifying its source. Should the Employer deem it necessary to amend the Prequalification Document as a result of a request for clarification, it shall do so following the procedure under ITA Clause 8 and in accordance with the provisions of Sub-Clause 17.2.

8. Amendment of Prequalification Document

- 8.1 At any time prior to the deadline for submission of Applications, the Employer may amend the Prequalification Document by issuing addenda.
- 8.2 Any addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all who have obtained the Prequalification Document directly from the Employer.
- 8.3 To give prospective Applicants reasonable time in which to take an addendum into account in preparing their Applications, the Employer may, at its discretion, extend the deadline for the submission of applications.

Preparation of Applications**9. Cost of Applications**

- 9.1 The Applicant shall bear all costs associated with the preparation and submission of its application, and the Employer shall in no case be responsible or liable for those costs, regardless of the conduct or

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- outcome of the prequalification process.
- 10. Language of Application** 10.1 The application, as well as all correspondence and documents relating to the prequalification exchanged by the Applicant and the Employer, shall be written in the English language. Supporting documents and printed literature that are part of the application may be in another language, provided they are accompanied by an accurate translation of the relevant passages into the English language, in which case, for purposes of interpretation of the application, the translation shall govern.
- 11. Documents Comprising the Application** 11.1 The Application shall comprise the following:
- (a) Application Submission Sheet, in accordance with ITA Clause 12;
 - (b) written confirmation authorizing the signatory of the application to commit the Applicant, in accordance with ITA Sub-Clause 15.3;
 - (c) documentary evidence establishing the Applicant's eligibility to prequalify, in accordance with ITA Clause 13;
 - (d) documentary evidence establishing the Applicant's qualifications, in accordance with ITA Clause 14; and
 - (e) any other document required as specified in the ADS.
- 12. Application Submission Sheet** 12.1 The Applicant shall prepare an Application Submission Sheet using the form furnished in Section IV, Application Forms. This form must be completed without any alteration to its format.
- 13. Documents Establishing the Eligibility of the Applicant** 13.1 To establish its eligibility in accordance with ITA Clause 4, the Applicant shall complete the eligibility declarations in the Application Submission Sheet and Forms ELI 1.1 and 1.2, included in Section IV, Application Forms.
- 14. Documents Establishing the Qualifications of the Applicant** 14.1 To establish its qualifications to perform the contract in accordance with Section III, Qualification Criteria, the Applicant shall provide the information requested in the corresponding Information Sheets included in Section IV, Application Forms.
- 15. Signing of the Application and Number of Copies** 15.1 The Applicant shall prepare one original of the documents comprising the application as described in ITA Clause 11 and clearly mark it "ORIGINAL". The original of the application shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Applicant.
- 15.2 The Applicant shall submit copies of the signed original application, in the number specified in the ADS, and clearly mark them "COPY". In the event of any discrepancy between the original and the copies, the original shall prevail.
- 15.3 The requirements regarding the legal instrument evidencing the authorization to represent and sign on behalf of the Applicant shall be as specified in the ADS. Applications submitted by an existing or
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intended JV shall include an undertaking signed by all partners

- (a) stating that all partners shall be jointly and severally liable, and
- (b) nominating a Representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the prequalification process and, in the event the JV is prequalified, during the bidding process, and in the event the JV is awarded the Contract, during contract execution.

Submission of Applications

- 16. Sealing and Marking of Applications**
- 16.1 The Applicant shall enclose the original and the copies of the application in a sealed envelope which shall
- (a) bear the name and address of the Applicant;
 - (b) be addressed to the Employer, in accordance with ITA 17.1; and
 - (c) bear the specific identification of this prequalification process indicated in the ADS 1.1.
- 16.2 If the envelope is not sealed and marked as required, the Employer will assume no responsibility for the misplacement of the application.
- 17. Deadline for Submission of Applications**
- 17.1 Applications shall be received by the Employer at the address and no later than the deadline indicated in the ADS.
- 17.2 The Employer may, at its discretion, extend the deadline for the submission of Applications by amending the Prequalification Document in accordance with ITA Clause 8, in which case all rights and obligations of the Employer and the Applicants subject to the previous deadline shall thereafter be subject to the deadline as extended.
- 18. Late Applications**
- 18.1 The Employer reserves the right to accept or reject late Applications.
- 19. Opening of Applications**
- 19.1 The Employer shall prepare a record of the opening of Applications that shall include, as a minimum, the name of the Applicant. A copy of the record shall be distributed to all Applicants.

Evaluation of Applications

- 20. Confidentiality**
- 20.1 Information relating to the evaluation of Applications, and recommendation for prequalification, shall not be disclosed to Applicants or any other persons not officially concerned with such process until the notification of prequalification is made to all Applicants.
- 20.2 From the deadline for submission of Applications to the time of notification of the results of the prequalification in accordance with ITA Clause 28, if any Applicant wishes to contact the Employer on any matter related to the prequalification process, it may do so in writing.
- 21. Clarification of Applications**
- 21.1 To assist in the evaluation of Applications, the Employer may, at its discretion, ask any Applicant for a clarification of its application which shall be submitted within a stated reasonable period of time. Any request for clarification and all clarifications shall be in writing.

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| | 21.2 | If an Applicant does not provide clarifications of the information requested by the date and time set in the Employer's request for clarification, its Application may be rejected. |
| 22. Responsiveness of Applications | 22.1 | The Employer may reject any Application which is not responsive to the requirements of the Prequalification Document. |
| 23. Margin of Preference | 23.1 | If so indicated in the ADS, a margin of preference shall apply in the bidding process resulting from this prequalification. |
| 24. Subcontractors | 24.1 | Applicants shall state in the Application Submission Sheet whether they intend to subcontract parts or elements of the Works. |
| | 24.2 | If an Applicant intends to subcontract any of the key activities listed in Section III, Qualification Criteria, Criteria 4.2(b), then such key activities and the proposed subcontractors (Specialist Subcontractors) shall be clearly identified in Section IV, Application Forms, Forms ELI-1.2 and EXP-4.2(b). Such Specialist Subcontractor(s) shall meet the corresponding qualification requirements specified in Section III, Qualification Criteria. At the time of bidding, the Bidder shall use in its bid only Specialist Subcontractor(s) prequalified during the prequalification exercise. |
| | 24.3 | Unless otherwise specified in the ADS, the Employer does not intend to execute certain specific parts of the Works by subcontractors selected in advance by the Employer (Nominated Subcontractors). |

Prequalification of Applicants

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| 25. Evaluation of Applications | 25.1 | The Employer shall use the criteria and methods defined in Section III, Qualification Criteria to evaluate the qualifications of the Applicants and proposed subcontractors. |
| | 25.2 | Only the qualifications of proposed subcontractors that have been identified in the Application pursuant to ITA 24.2 will be considered in the evaluation of an Applicant. However, the general experience and financial resources of subcontractors may not be added to those of the Applicant for purposes of prequalification of the Applicant. |
| | 25.3 | Unless otherwise indicated in the ADS, this prequalification shall be for a single contract. |
| 26. Employer's Right to Accept or Reject Applications | 26.1 | The Employer reserves the right to accept or reject any Application, and to annul the prequalification process and reject all applications at any time, without thereby incurring any liability to Applicants |
| 27. Prequalification of Applicants | 27.1 | All Applicants, including their proposed subcontractors, whose applications have been determined to be substantially responsive to the requirements of the Prequalification Document and who have met or exceeded the specified criteria shall be prequalified by the |

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- Employer.
- 28. Notification of Prequalification** 28.1 Once the Employer has completed the evaluation of the Applications it shall notify all Applicants in writing of the names of those applicants who have been prequalified.
- 29. Invitation to Bid** 29.1 Promptly after the notification of the results of the prequalification, the Employer shall invite bids from all the Applicants that have been prequalified.
- 29.2 Bidders may be required to provide bid security in the form of a demand guarantee or other security acceptable to the Employer for an amount as specified in the bidding document.
- 29.3 A qualified firm or a member of a qualified joint venture may participate in only one bid for the contract. If a firm submits more than one bid, singly or in joint venture, all bids including that firm will be rejected. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one bid.
- 30. Changes in Qualifications of Applicants** 30.1 Any change in the qualification status of an Applicant after being prequalified in accordance with ITA Clause 27 shall be subject to the written approval of the Employer. Any such change shall be submitted to the Employer not later than fourteen (14) days after the date of the Invitation to Bid. Such approval shall be denied if as a consequence of any change,
- (a) the prequalified Applicant, after the change, no longer substantially meets the qualification criteria set forth in Section III, Qualification Criteria; or
 - (b) a new partner that had not been prequalified as an Applicant or a Specialist Subcontractor as per ITA 24.2 is added to a prequalified Applicant.

Section II. Application Data Sheet

A. General

ITA 1.1	The identification of the Invitation for Prequalification is: BUDIP/PQ/BWS/01
ITA 1.1	The name of the Employer is: Bihar Urban Infrastructure Development Corporation Ltd (BUIDCo), Government of Bihar
ITA 1.1	The names, identification and number of the contracts are: Works of Rehabilitation/ Construction of 24x7 Water Supply System, and Operation and Maintenance of Entire System; BH/WS/01; One contract
ITA 1.1	The name and identification number of the ICB are: Works of Construction of Bhagalpur Water Supply System for 24X7 Service, and Operation and Maintenance of Entire System; ICB No. BH/WS/01
ITA 2.1	The name of the Borrower is: India
ITA 2.1	The name of the Project is: Bihar Urban Development Investment Program – Project 1

B. Contents of the Prequalification Document

ITA 7.1	<p>For clarification purposes only, the Employer's address is:</p> <p>Attention: Mr. A.K. Sharma, Chief general Manager, <i>BUIDCO</i>, 3rd floor, <i>Maurya Tower, Mauryalok Complex, Budh Marg</i> City: Patna ZIP Code: 800001 Bihar</p> <p>Country: India</p> <p>Tel: 0612-2210101/02 Facsimile number: 0612- 2210103</p> <p>Electronic mail address: cgmbuidco@gmail.com</p>
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C. Preparation of Applications

ITA 11.1 (e)	The Applicant shall submit with its application the following additional documents: 1. Certified copies of the work order, experience certificates issued by the employers
ITA 15.2	In addition to the original, the number of copies to be submitted with the application is: One
ITA 15.3	<p>The requirements regarding the legal instrument evidencing the authorization to represent and sign on behalf of the Applicant shall be:</p> <p>(a) The written confirmation of authorization to sign on behalf of the Bidder shall consist of: a letter of Authority showing the typed or printed name, position held and the signature of each person giving the authority, and the name,</p>

	<p>position and signature of the person authorized to submit the bid, and bind the bidder.</p> <p>(b) In case of a existing JV and JV that has not been legally constituted at the time of bidding, the written confirmation of the authorization to sign on behalf of the Bidder shall be in the name of the nominated Representative who shall have the authority to conduct all businesses and bind all the parties for and on behalf of any and all the parties of the JV during the bidding process.</p>
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D. Submission of Applications

ITA 17.1	<p>For application submission purposes only, the Employer's address is:</p> <p>Attention: Mr. Anupam Kumar Suman, Managing Director, <i>BUIDCo</i>, 3rd floor, <i>Maurya Tower, Mauryalok Complex, Budh Marg</i> City: Patna ZIP Code: 800001 Bihar Country: India</p> <p>Tel: 0612-2210101/02</p> <p>The deadline for application submission is: Date: 24 December 2012 Time: 1700 hours</p>
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E. Evaluation of Applications

ITA 23.1	A margin of preference shall apply in the bidding process corresponding to this prequalification. If a Margin of Preference applies, the procedure for evaluation will be specified in the bidding document.
ITA 24.3	The Employer does not intend to execute certain specific parts of the Works by subcontractors selected in advance (Nominated Subcontractors). The specific parts of the works and the respective subcontractors are: None

F. Prequalification of Applicants

ITA 25.3	As stipulated in ITA 1.1, this prequalification exercise shall be for a single contract.
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Section III. Qualification Criteria

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1. Eligibility

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	

1.1 Nationality

Nationality in accordance with ITA Sub-Clause 4.2.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Forms ELI -1.1; ELI -1.2 with attachments
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1.2 Conflict of Interest

No conflicts of interest in accordance with ITA Sub-Clause 4.4.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Application Submission Sheet
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1.3 ADB Eligibility

Not having been declared ineligible by ADB, as described in ITA Sub-Clause 4.5.	must meet requirement	existing or intended JV must meet requirement	must meet requirement	not applicable	Application Submission Sheet
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1.4 Government-owned Entity

Applicant required to meet conditions of ITA Sub-Clause 4.6.	must meet requirement	must meet requirement	must meet requirement	not applicable	Forms ELI -1.1, ELI -1.2 with attachments
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2. Pending Litigation

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	

2.1 Pending Litigation

All pending litigation shall be treated as resolved against the Applicant and so shall in total not represent more than 50 percent of the Applicant's net worth.	must meet requirement by itself or as partner to past or existing JV	not applicable	must meet requirement by itself or as partner to past or existing JV	not applicable	Form LIT - 1
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3. Financial Situation

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	

3.1 Historical Financial Performance

Submission of audited balance sheets and income statements or, if not required by the law of the applicant's country, other financial statements acceptable to the Employer, for the last 3 years (three years) to demonstrate the current soundness of the applicants financial position and its prospective long-term profitability. As a minimum, an Applicant's net worth calculated as the difference between total assets and total liabilities should be positive.	must meet requirement	not applicable	must meet requirement	not applicable	Form FIN - 3.1 with attachments
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The financial information provided by an Applicant should be reviewed in its entirety to allow a truly informed judgment, and the pass-fail decision on the financial position of the Applicant should be given on this basis. Any abnormal features which may lead to financial problems should alert the Employer to seek expert professional advice for further review and interpretation

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	

3.2 Average Annual Construction Turnover

Minimum average annual construction turnover of INR 1,050 million (equivalent US\$ 21 million) calculated as total certified payments received for contracts in progress or completed, within the last three years.	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 3.2
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4. Experience

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	

4.1 General Construction Experience

Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last five years prior to the applications submission deadline.	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP-4.1
Experience in water loss management contracts in the role of contractor, subcontractor, or consultant for at least the last three years prior to the applications submission deadline.	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP-4.1

Criteria	Compliance Requirements			Documents
Requirement	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	

4.2 Specific Construction Experience

(a) Contracts of Similar Size and Nature

Participation as contractor, management contractor, or subcontractor, in at least two water supply contracts within the last seven years , each with a value of at least INR 2,240 million (equivalent US\$ 45 million) that have been successfully or are substantially completed and that are similar to the proposed works.	must meet requirement	must meet requirement	not applicable	not applicable	Form EXP 4.2(a)
Participation as contractor, management contractor, or subcontractor, in at least five [5] completed water loss reduction analysis or implementation contracts in low- and middle-income countries.	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP-4.2 (a)
Participation as contractor, management contractor, or subcontractor, in at least two [2] water loss management and reduction contracts or its equivalent within the last five [5] years, each with at least 25,000 connections in at least two [2] different countries that have been successfully or are substantially completed and that are similar to the proposed works. The similarity shall be based on: <ul style="list-style-type: none"> • high level of water loss • intermittent supply • low operating pressure • located in low or middle income countries 	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP-4.2(a)

Criteria	Compliance Requirements			Documents
	Single Entity	Joint Venture		Submission Requirements
		All Partners Combined	Each Partner	
Requirement				

(b) Construction Experience in Key Activities (May be complied by specialist subcontractors. Employer shall require evidence of subcontracting agreement from the Applicant.)

(i) For the above or other contracts executed during the period stipulated in 4.2(a) above, a minimum construction experience in the following key activities in last 7 years:	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)
Construction and commissioning of water treatment plant of capacity 15 MLD including electrical mechanical and civil works in a period of not more than 3 years	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)
Supply, Installation, testing and commissioning of pumping equipment of capacity not less than 15 MLD	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)
Providing, laying, jointing and commissioning of water pipeline in a length of 50 km in a period of 3 years	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)
Participation as contractor or consultant in at least two (2) projects that included design and establishment of DMAs and pressure management.	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)
Leak detection in low-pressure systems.	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)
Design and construction supervision of water pipeline replacement	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)
Trunk main inspection using tethered equipment	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)
Operation and maintenance of water supply scheme of 15 MLD or more, with non intermittent water supply of at least two years with own employees. (This criteria can be met by bidder	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP-4.2(b)

itself or its nominated subcontractor)					
--	--	--	--	--	--

Note: The applicant will submit copy of work orders, certificate of completion from the client not below the rank of Superintending Engineer in support of all claimed experience.

Section IV: Application Forms

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Application Submission Sheet

Date:
 IFP No.: **BUDIP/PQ/BWS/01**
 ICB No.: **BH/WS/01**

To:
 Managing Director, BUIDCo,
 3rd Floor Maurya Tower, Mauryalok Complex, Budh Marg
 City: Patna ZIP Code: 800001 Bihar
 Country: **India**

We, the undersigned, apply to be prequalified for the referenced ICB and declare the following:

- (a) We have examined and have no reservations to the Prequalification Document, including Addenda No(s).....issued in accordance with ITA Clause 8.
- (b) We, including all subcontractors or suppliers for any part of the contract(s) resulting from this prequalification process, if any, have nationalities of eligible countries, in accordance with ITA Sub-Clause 4.2.
- (c) We understand that at the time of bidding, we, including any subcontractors or suppliers for any part of the contract resulting from this procurement process, shall not have any conflict of interest in accordance with ITA Sub-Clause 4.4.
- (d) We, including any subcontractors or suppliers for any part of the contract(s) resulting from this prequalification, have not been declared ineligible by the ADB.
- (e) We are not a government-owned entity/ We are a government-owned entity but meet the requirements of ITA Sub-Clause 4.6
- (f) We, in accordance with ITA Sub-clause 24.1, plan to subcontract the following key activities or parts of the works:
- (g) We declare that the following commissions, gratuities, or fees have been paid or are to be paid with respect to the prequalification process:

Name of Recipient	Address	Reason	Amount
.....
.....

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

- (h) We understand that you may cancel the prequalification process at any time and that you are not bound either to accept any application that you may receive or to invite the prequalified applicants to bid for the contract(s) subject of this prequalification, without incurring any liability to the Applicants, in accordance with ITA Clause 26.
- (i) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the application for prequalification and to have them audited by auditors appointed by the ADB.

Name

In the capacity of

Signed
Duly authorized to sign the Application for and on behalf of
Date

Applicant Information Sheet

Date:
 IFP No.: **BUDIP/PQ/BWS/01**
 ICB No.: **BH/WS/01**
 Pageof pages

Applicant Information	
Applicant's legal name	
In case of JV, legal name of each partner	
Applicant's actual or intended country of constitution	
Applicant's actual or Intended year of constitution	
Applicant's legal address in country of constitution	
Applicant's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	
<p>Attached are copies of the following original documents.</p> <ul style="list-style-type: none"> <input type="checkbox"/> 1. In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITA Sub-Clauses 4.1 and 4.2. <input type="checkbox"/> 2. Authorization to represent the firm or JV named in above, in accordance with ITA Sub-Clause 15.3. <input type="checkbox"/> 3. In case of JV, letter of intent to form JV or JV agreement, in accordance with ITA Sub-Clause 4.1. <input type="checkbox"/> 4. In case of a government-owned entity, any additional documents not covered under 1 above required to comply with ITA Sub-Clause 4.6. 	

JV Information Sheet
for JV Partners and Specialist Subcontractors as per ITA 24.2

Date:
IFP No.: **BUDIP/PQ/BWS/01**
ICB No.: **BH/WS/01**
Page ofpages

Each member of a JV and Specialist Subcontractors as per ITA 24.2 must fill in this form

JV / Specialist Subcontractor Information	
Applicant's legal name	
JV Partner's or Subcontractor's legal name	
JV Partner's or Subcontractor's country of constitution	
JV Partner's or Subcontractor's year of constitution	
JV Partner's or Subcontractor's legal address in country of constitution	
JV Partner's or Subcontractor's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)	
<p>Attached are copies of the following original documents.</p> <p><input type="checkbox"/> 1. Articles of incorporation or constitution of the legal entity named above, in accordance with ITA Sub-Clauses 4.1 and 4.2.</p> <p><input type="checkbox"/> 2. Authorization to represent the firm named above, in accordance with ITA Sub-Clause 15.3.</p> <p><input type="checkbox"/> 3. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITA Sub-Clause 4.6.</p> <p><input type="checkbox"/> 4. In case of Specialist Subcontractors as per ITA 24.2 a formal intent to enter into an agreement.</p>	

Pending Litigation

Applicant's Legal Name: Date:
 JV Partner Legal Name:-----IFP No.: **BUDIP/PQ/BWS/01**
 ICB No.: **BH/WS/01**
 Pageof pages

Each Applicant or member of a JV must fill in this form

Pending Litigation			
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> No pending litigation in accordance with Criteria 2.1 of Section III, Qualification Criteria			
<input type="checkbox"/> Pending litigation in accordance with Criteria 2.1 of Section III, Qualification Criteria, as indicated below			
Year	Matter in Dispute	Value of Pending Claim in INR Equivalent	Value of Pending Claim as a Percentage of Net Worth

Financial Situation

Applicant's Legal Name:
 JV Partner's Legal Name:

Date:
 IFP No.: **BUDIP/PQ/BWS/01**
 ICB No.: **BH/WS/01**
 Page ofpages

Each Applicant or member of a JV must fill in this form

Financial Data for Previous 3 Years [INR Equivalent]		
Year 1:	Year 2:	Year 3:

Information from Balance Sheet

Total Assets			
Total Liabilities			
Net Worth			
Current Assets			
Current Liabilities			

Information from Income Statement

Total Revenues			
Profits Before Taxes			
Profits After Taxes			

- Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three years, as indicated above, complying with the following conditions.
- All such documents reflect the financial situation of the Applicant or partner to a JV, and not sister or parent companies.
 - Historic financial statements must be audited by a certified accountant.
 - Historic financial statements must be complete, including all notes to the financial statements.
 - Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Average Annual Construction Turnover

Applicant's Legal Name:
 JV Partner's Legal Name:.....

Date:
 IFP No.: **BUDIP/PQ/BWS/01**
 ICB No.: **BH/WS/01**
 Pageof pages

Each Applicant or member of a JV must fill in this form

Annual Turnover Data for the Last 3 Years (Construction only)			
Year	Amount Currency	Exchange Rate	US\$ Equivalent
Average Annual Construction Turnover			

The information supplied should be the Annual Turnover of the Applicant or each member of a JV in terms of the amounts billed to clients for each year for work in progress or completed, converted to US\$ at the rate of exchange at the end of the period reported.

Form EXP – 4.1

General Construction Experience

Applicant's Legal Name:
 JV Partner's Legal Name:

Date:
 IFP No.: **BUDIP/PQ/BWS/01**
 ICB No.: **BH/WS/01**
 Page ofpages

Each Applicant or member of a JV must fill in this form

General Construction Experience				
Starting Month Year	Ending Month Year	Years	Contract Identification and Name Name and Address of Employer Brief Description of the Works Executed by the Applicant	Role of Applicant

Specific Construction Experience

Applicant's Legal Name:
 JV Partner's Legal Name:.....

Date:
 IFP No.: **BUDIP/PQ/BWS/01**
 ICB No.: **BH/WS/01**
 Pageof pages

Fill up one (1) form per contract.

Contract of Similar Size and Nature		
Contract No of	Contract Identification	
Award Date	Completion Date	
Role in Contract	<input type="checkbox"/> Contractor <input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor	
Total Contract Amount	INR	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone/Fax Number E-mail		
Description of the similarity in accordance with Criteria 4.2(a) of Section III		
<p>Two Water supply contracts each with a value of at least INR 2,240 million (equivalent US\$ 45 million) that have been successfully or are substantially completed and that include water supply works.</p>		

<p>Participation as contractor, management contractor, or subcontractor, in at least five [5] completed water loss reduction analysis or implementation contracts in low- and middle-income countries.</p>	
<p>Participation as contractor, management contractor, or subcontractor, in at least two [2] water loss management and reduction contracts or its equivalent within the last five [5] years, each with at least 25,000 connections in at least two [2] different countries that have been successfully or are substantially completed and that are similar to the proposed works. The similarity shall be based on:</p> <ul style="list-style-type: none">• high level of water loss• intermittent supply• low operating pressure• located in low or middle income countries	

Specific Construction Experience in Key Activities

Applicant's Legal Name:
 JV Partner's Legal Name:.....
 Subcontractor's Legal Name (as per ITA 24.2):

Date:
 IFP No.: **BUDIP/PQ/BWS/01**
 ICB No.: **BH/WS/01**
 Page : of pages

Fill up one (1) form per contract

Contract with Similar Key Activities		
Contract No of	Contract Identification	
Award Date	Completion Date	
Role in Contract	<input type="checkbox"/> Contractor <input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor	
Total Contract Amount	INR	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone Number Fax Number E-mail		
Description of the key activities in accordance with Criteria 4.2(b) of Section III		
Construction and commissioning of water treatment plant of capacity 15 MLD including electrical mechanical and civil works in a period of not more than 3 years		
Supply, Installation, testing and commissioning of pumping equipment of capacity not less than 15 MLD		

Providing, laying, jointing and commissioning of water pipeline in a length of 50 km in a period of 3 years	
Participation as contractor or consultant in at least two (2) projects that included design and establishment of DMAs and pressure management.	
Leak detection in low-pressure systems.	
Design and construction supervision of water pipeline replacement	
Trunk main inspection using tethered equipment	
Operation and maintenance of water supply scheme of 15 MLD or more, with non intermittent water supply of atleast two years with own employees.	

SECTION 5 - LIST OF ELIGIBLE MEMBER COUNTRIES

1.	Afghanistan	35.	Micronesia, Federal States of
2.	Armenia	36.	Mongolia
3.	Australia	37.	Myanmar
4.	Austria	38.	Nauru
5.	Azerbaijan	39.	Nepal
6.	Bangladesh	40.	The Netherland
7.	Belgium	41.	New Zealand
8.	Bhutan	42.	Norway
9.	Brunei Darussalam	43.	Pakistan
10.	Cambodia	44.	Palau
11.	Canada	45.	Papua New Guinea
12.	China, People's Republic of	46.	Philippines
13.	Cook Islands	47.	Portugal
14.	Denmark	48.	Samoa
15.	Fiji	49.	Singapore
16.	Finland	50.	Solomon Islands
17.	France	51.	Spain
18.	Georgia	52.	Sri Lanka
19.	Germany	53.	Sweden
20.	Hong Kong, China	54.	Switzerland
21.	India	55.	Tajikistan
22.	Indonesia	56.	Taipei,China
23.	Italy	57.	Thailand
24.	Ireland	58.	Timor-Leste
25.	Japan	59.	Tonga
26.	Kazakhstan	60.	Turkey
27.	Kiribati	61.	Turkmenistan
28.	Korea, Republic of	62.	Tuvalu
29.	Kyrgyz Republic	63.	United Kingdom
30.	Lao People's Democratic Republic	64.	United States
31.	Luxembourg	65.	Uzbekistan
32.	Malaysia	66.	Vanuatu
33.	Maldives	67.	Viet Nam
34.	Marshall Islands		

PART 2 – Requirements

Section VI. Scope of Contract (SOC)

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A. Requirements

1. Brief Description of the Scope:

It is proposed to improve the water supply production and distribution system in Bhagalpur town in the State of Bihar. The existing water supply system, which was built in year 1885 to 1970 is very old and suffers from frequent leaks and bursts. The existing system is built with mostly Cast Iron and Galvanized Iron pipes and do not have capacity to cater to the needs of even the present population. Total water production and supply as of today is only 21 MLD against the estimated requirement of 78 MLD. The water supply is intermittent with very low pressure, causing inconvenience and health hazard for citizens in the town. It is proposed to improve the water supply system by increasing the water production, treatment, conveyance system, storage capacities, improving the distribution by laying additional distribution network, and introducing effective operation and management of the system. Based on a preliminary investigation, it is proposed to abandon the entire existing distribution network, and design and build a new distribution network, including storage and distribution reservoirs, and service connections.

The objective of the proposed contract is to deliver piped water for 24X7 service to the entire city comprising 5 zones. Scope will include rehabilitation/ construction works, and operation and maintenance (O&M) of the water supply system.

2. Major Contract Components:

The works under the contract will include: (i) Rehabilitation of existing intake well and water treatment plant with supply and installation of required electrical/ mechanical equipment to restore its design capacity of 17 MLD; (ii) Construction of new clear water ring/ transmission main; Over head tanks; primary and secondary pipelines; whole tertiary water supply pipe networks; road restoration; house connection, and bulk and domestic metering (iii) Operation and maintenance of the system to be implemented zone by zone in staggered manner including supply of spare parts and chemicals but excluding costs of power; and (iv) Metering, billing, and establishment and continuous updating of computerised customer database during operation period etc. Contractor will ensure that all metered household are billed and quality of water meets the government standards.

Tentative cost estimate for Components (i) and (ii) rehabilitation and construction works is about INR 2,700 million (equivalent \$54 million), and that for Components (iii) and (iv) operation and maintenance costs covering staff, chemicals, repair, maintenance and others but excluding power costs is about INR 80 million (equivalent \$1.6 million) per year.

Bhagalpur Municipal Corporation (BMC) is the owner of the assets. Bihar Urban Infrastructure Development Corporation Ltd (BUIDCo), which is authorized agency of BMC, will be the contractual client.

3. Sequence of Implementation

- Augmentation/renovation of existing intake capacity and corresponding WTP capacity would be initiated **immediately**.
- Initial survey would be carried out to identify and record status quo service level for each zone/sub-zone. **The status quo service level should not be altered for each zone/sub-zone until it “opts in”.**

-
- Construct primary and secondary transmission lines together with integrated service reservoirs (OHTs). **Primary and secondary transmission lines will be kept pressurized continuously with service reservoirs (OHTs) always filled with water.** The new primary and secondary transmission lines will not be used for intermittent supply. **No house connections should be allowed from primary and secondary transmission lines.**
 - Formulate **a new volumetric tariff schedule** based on the cost recovery principle agreed to for the BUDIP.
 - Set up **basic rules for a zone/sub-zone to opt in** to start enjoying the new service, including: (i) minimum number of customers in contiguous zone/sub-zone; (ii) minimum percentage of supporting customers within each zone/sub-zone; (iii) commitment to cooperate during the construction period; (iv) commitment to honor **the new volumetric tariff schedule** upon commissioning; and (v) commitment to surrender the tubewell(s), if any, currently used for the decentralized water supply system concerned, which will be taken away and integrated as additional bulk water source(s) for the new centralized water supply system, as appropriate.
 - Initiate tertiary distribution network development on a first-come-first-served basis for those zones/sub-zones, which have submitted an **opt-in request**. The customers within each zone/sub-zone will switch from the existing centralized water supply system and/or decentralized water supply system(s) to the new 24x7 pressurized centralized water supply system upon commissioning.

4. Methods Required:

Bids will be invited based on ADB's Single stage Two envelope Bidding procedure. Bidders may be invited for presentation on their technical solution during the prequalification application stage and/or the technical evaluation stage. ADB's standard bid documents for Works- Large contracts (SBD Works) with FIDIC conditions of contracts will be used. Major contract components and basis of payment will be as under:

- **Rehabilitation of existing Intake well**
 - Bids on Employer's design.
 - Scope will include civil work and electrical mechanical equipment
 - Bid price to be quoted on **Item rate basis**
- **Rehabilitation of existing WTP**
 - Bids on Contractor's design.
 - Scope will include civil work and electrical mechanical equipment
 - Bid price to be quoted **on Lumpsum**
- **Clear Water ring/ transmission mains to five zones;**
 - Bids on Employer's design.
 - Scope will include confirmatory surveys/ design validation; pipe supply and laying
 - Price to be quoted on **Item rate basis**
- **Over head tanks**
 - Bids on Contractor's design;
 - Scope will include survey, investigation, design and civil works;
 - Price to be quoted on **Lumpsum basis**
- **Primary and secondary pipeline and road restoration in all five zones**

-
- Bids on Employer's design;.
 - Scope will include confirmatory surveys/design validation; pipe supply and laying
 - Price to be quoted on **Item rate basis**
 - **House connection and metering**
 - About 52,000 Nos
 - Bids on Employer's design.
 - Scope will include survey and validation of data; material supply and installation
 - Price to be quoted on Item rate basis
 - **GIS mapping of water utility**
 - in the base map prepared by SPUR
 - Bids on Employer's design.
 - Scope will include mapping of water utility if required or updation of maps.
 - Price to be quoted on **Item rate basis**
 - **Development of SCADA system**
 - for operation of entire water supply system.
 - Bids on Contractor's design.
 - Scope will include supply and installation.
 - Price to be quoted on **Lumpsum basis**
 - **Development of computerised customer database and billing system**
 - Activity with minimum human interface.
 - Bids on Contractor's design.
 - Scope will include development of program and installation.
 - Price to be quoted on **Lumpsum basis**
 - **Operation and Maintenance of the system:**
 - Bids on Contractor's design.
 - Scope will include operation and maintenance of system, arrangement of required spares and chemicals; regular and preventive maintenance; but without costs of power.
 - Scope will also include taking meter reading at consumer meters, preparation of water bills, disbursement to the consumers etc
 - Payment based on base fees and performance bonuses.
 - **Indicative performance indicators for Operation and Maintenance:**
 - Volume of water produced by the rehabilitated water treatment plant.
 - Continuity of water supply service with the minimum pressure level at representative/highest locations in each zone.
 - Annual increase in new metered water supply connection to the new 24x7 service.
 - The sum of consumption volumes at all metered households not less than 85% of the water fed into the new 24x7 distribution network from the rehabilitated water treatment plant.
 - Continuity in high energy efficiency of each mechanical asset.
 - Customer responsiveness measured by the duration between the logs on complaints received and logs on such complaints addressed.

Technical Auditor's involvement, during O&M phase, may be included for assessing the O&M performance.
-

5. Contract Implementation Period:

- Operation and maintenance of the system will be implemented zone by zone in staggered manner starting from commissioning of the system for each zone, until the end of the 4th year after commissioning of the last (i.e., 4th) zone
- The contract implementation period will be about 4 years for design and construction of works, testing, performance tests and commissioning of the system.
- Total contract period will be about 8-9 years.
- After completing operation and maintenance for four to five years, system will be handed over to municipal corporation. The contract for operation and maintenance may be extended subject to mutual acceptance of contractor and Municipal corporation of Bhagalpur.

6. Other related business opportunity in future:

- A contract for new water intake, water treatment plant and transmission system of 93 million liters per day (MLD) for Bhagalpur is expected to be tendered during the implementation period of this contract.
- Performing this contract for improving and managing water supply system in Bhagalpur is not expected to constitute a conflict of interest affecting that contractor's eligibility to bid for this forthcoming contract for new water intake, water treatment plant and transmission system for Bhagalpur.

B. Supplementary Information

1. **Project Country: India State: Bihar**
2. **Contract Site:**

The contract site is Bhagalpur town. Bhagalpur town geographically located at 25°15'0"N, 87°00'E, It is a class - I town. It is situated at a distance of about 225 km from state capital city Patna. It is connected to different cities and towns of Bihar by broad gauge railway lines and roadways Bhagalpur town is a district head quarter of Bhagalpur districts situated on the southern bank of river Ganga. It comprises 51 municipal wards under a total area of 30.18 sq kms. The population (2010) of Bhagalpur is 419,000. With supply coverage around 81%, the per capita availability of water is about 35 litre per day against the required quantity of 135 litre for effective sewerage services. This project aims at removal of the deficiencies with rehabilitation of the existing system under phase 1. Bhagalpur town does not have a sewerage system except provision of tapping the wastewater from 7 major drains and discharging it to river Ganga after treatment in a 11 mld capacity aerated lagoon. A comprehensive sewerage system is being proposed under National Ganga River Basin Authority (NGRBA). There is about 221 km of roads in the town of width between 3 to 14 metres. Most of these roads are poorly maintained and congested due to encroachment resulting slow traffic movement.

3. Background Information:**3.1 Investment Program and Project Background**

The Government of Bihar (GoB) intends to develop the basic infrastructure of prime towns of the state under the name of Bihar Urban Development Investment Program. The investment program outputs will improve (i) water supply facility in Bhagalpur, Gaya and Darbhanga towns of Bihar through rehabilitation, strengthening and expansion of networks and new water supply systems (ii) construction of new sewerage systems and supply of sanitation maintenance equipment in Muzaffarpur town. Project 1 will be the first set of activities under the investment program which will include 24X7 water supply facility in Bhagalpur town including laying of ring main, primary, secondary and tertiary pipelines. Total proposal under the investment program is to (i) rehabilitate the existing water treatment plant; (ii) construct new raw water intakes, an additional water treatment plant and pumping stations to cater for the demand up to 2026; (iii) lay and construct clear water mains, overhead tanks and distribution networks to cater for the demand up to 2041; and (iii) install water meters.

3.2 Assessment of Existing Water supply Situation in Bhagalpur town**3.2.1 Water Source:**

The source of water is combination of ground and surface water from river Ganga. The utilizable ground water resource for the purpose of potable water supply in Bhagalpur town is 25 mld only. There is no limit for withdrawal of surface water from Ganga river. Water production as of now from the ground source is 9 MLD.

3.2.2 Population coverage and Water production

Year 2010 population of the Bhagalpur municipal area is 419,000 with an estimated household of about 64067, of which 52071 households are connected to municipal piped water supply. Accordingly the water supply coverage for Bhagalpur town in terms of population is about 81%.

3.2.3 Water Quality

The major parameter of concern in the surface water is turbidity, which has high seasonal variation from 500-10000ppm.

3.2.4 Intake and Water Treatment Plant

- There are 2 intake wells for the existing water treatment plant. Water is extracted from the confluence of Champa nala and river Ganga. The WTP is on the southern bank of the river.
- The oldest WTP was commissioned in 1885 at Barari.
- It had a slow sand filter with a capacity of 2.27 mld (0.5 mgd). This had been augmented over the years with additional capacities added periodically with 2.7 mld (0.6 mgd) mechanical filter, 5.5 mld (1.2 mgd) Peterson filter, and 9.1 mld (2.0 mgd) Jewel filter. The installed capacity in the works is of 17.3 mld (3.8 mgd).
- The actual treated water production is 12 mld.
- The turbidity of the surface water exhibits a considerable variation during different periods of the year and it ranges from 500 ppm to 10,000 ppm.

3.2.5 Overhead Tank

There are 7 Overhead tanks (OHT), ranging from 0.18-0.46 ML capacity, and staging height ranging from 18m to 22m. However, only 5 are functional at present. Out of working 5 OHTs 2 are of steel.

3.2.6 Distribution system

- The present distribution system in the town has a total pipe length of about 55 Km distributed all over the town. The network is laid on the basis of decentralized water supply system covering by single or group of tube wells. The surface water is fed to the same network. There is no defined zoning in the present network
- The distribution system is of CI/GI pipes, diameter ranging from 100 mm to 300 mm diameter.
- The distribution network is very old, primarily laid during 1885 to 1970, and has leakages. The network has significant corrosion problem, and as such would require replacement.
- The pressure head at consumer end is about 1-5 m head.
- Water supply is about 10 hours a day.
- Under ongoing works of 74km, 27 km old pipes will be replaced.

3.2.7 Service Coverage

Municipal water supply serves about 81 percent of town population, remaining depends on in-house private tube wells.

3.2.8 Household Connection

Out of the estimated 64067 households, 52071 households are connected to municipal water supply. Household connections are not metered.

3.2.9 Service Level

The water supply system, in the town being very old, faces considerable problems. The service level is much below the desired level. As against the per capita supply of 135 lpcd, the present service level is 57 lpcd. The quality of water at the monsoon end is turbid. As stated earlier municipal water supply serves about 81% of the population and supply is limited to 10hours per day.

3.2.10 Operation and Maintenance

Operation and maintenance (O&M) of water supply is with the Bhagalpur Municipal Corporation.

3.3 Need of Improvement in water supply facility

The water supply system of Bhagalpur is old facing production problems. The present average per capita supply (about 35 lpcd) is much lower than the desired level of 135 lpcd. The main reasons are :

- Water resource constraint - Ground water availability is limited (25 mld out of present required demand of 78.2 mld)
- Deterioration of Existing facilities –
 - The current WTP design capacity is 17.3 mld but running at 12 mld due to deterioration of the plants and machineries. .
 - The existing distribution system is very old primarily laid during 1885 to 1970, leading to leakages and transmission losses.
 - The overhead tanks (OHT) are old. Oldest was constructed during year 1885. It was made of steel structure. The available capacity is 3 ML against requirement of 16 ML.

3.4 Works taken up by GoB through BRJP

The GoB has taken up renovation/ rehabilitation works to improve the Bhagalpur water supply position as listed below. The Bihar Rajya Jal Parshad (BRJP), a subsidiary agency of PHED is implementing the works.

- Renovation of 2 nos Steel and 3 nos RCC OHTs
- Construction of 1 new OHT of 0.46 ML capacity at Gosala
- Construction of 26 new tube-wells, work is completed.
- Laying 74 km of pipeline distributed throughout the town
- Rehabilitation of 5 high yielding tube-wells

4. Objective of the Sub-Project

The objective of this sub-project is delivery of piped water for 24X7 service for the entire city comprising 5 zones at minimum terminal head of 7 m.

Beneficiaries

Total Design Population (beneficiaries) for Bhagalpur can be summed up as:

- 2010 – 419,000
- 2015 – 469,000
- 2020 – 523,000
- 2026 – 590,101
- 2041 – 795,017

The floating population at every stages considered to the tune of 5 % of the resident population will also be benefited from the project. In addition, the project will benefit the commercial and institutional establishments with 15% additional water production over the requirement for resident and floating population. .

Improved Service Level

- Network to be designed @ 135 lpcd at consumer end;
- Water Supply 24 hours
- Quality of the potable water as per GOI standard
- Disinfected water supply at the consumer end;
- Wholesome potable water supply to commercial and institutional units;
- Adequate fire fighting provisions;
- UFW max allowed is 15%
- Provision in the system to fluctuate demand pattern as and when required on emergency;

Work component

Proposed Zoning of Sub-Project Area :

For distribution purposes, the town is proposed to be divided in 5 zones.

Water Source

Estimated surface water requirement for 2026 and 2041 are 116 MLD and 156 MLD respectively (considering 5% treatment loss). Summary of Raw water extraction is given in table below.

Summary of Raw Water Abstraction

1	Total Raw water requirement at 2026	116 mld
2	Existing Raw water withdrawal capacity (after renovation)	18 mld
3	Requirement of raw water withdrawal for 2026 (1)-(2)	98 mld
4	Proposal for new Raw water Intake for 2026	98 mld
5	Total Raw water requirement at 2041	156 mld
6	Augmentation in existing intake capacity for 2041 by	12 mld
7	Total capacity for Existing Intake for 2041 (2)+(6)	30 mld

8	Total capacity for new Proposed Intake for 2041 (5-7)	126 mld
9	Augmentation required in new proposed intake capacity for 2041	28 mld

Intakes – New Proposed

An intake structure of the Jacked well type has been proposed in the bed of river (which will be under the scope of other contract).

Existing Intakewell

Existing Intake wells - There are two intake wells. Renovation work and replacement of pumps are required.

Intake Channel - The intake well is very near to the river bank. During dry season, river Ganga recedes back to about 200m from the inlet well.

To ensure adequate water supply in the dry season, an inlet channel of 10 m length in each well followed by 200 m of non-metalled rubber armoured hose pipe is proposed to be constructed, as a permanent solution.

There are basically 3 small WTPs within the compound. It is proposed to renovate to a single water treatment plant, with proper clari-flocculation and disinfection system. A Pre-settling tank and cascade aerator is proposed for existing plant, and designed as a single unit for the total plant. Other existing units are to be utilized with optimization.

Overhead tanks

- OHTs of capacity about 13 ML will be required.

Primary, secondary and tertiary pipeline

- Total length of roads – 221 km
- 15% increase in road network in the city by 2026 (assumed), which will be the smaller lanes, therefore total length of pipeline would be 251 Kms
- Under the ongoing program of PHED 74 km length of pipes will be laid. It is presumed that out of 55 km of existing pipelines about 50% or 27 km will be replaced under on-going program and remaining 28km will become redundant. Accordingly 147 km of new pipelines will be laid under the proposed proposal. A Summary of total pipeline required is given below.

Length Calculation for Distribution Pipe Lines

	Items	Length
1	Total length of pipe net work	251 km
2	Length of existing pipe	55 km
3	Length of existing pipe to be replaced under on-going program	27 km
4	Length of remaining existing pipe (2)-(3) that will be redundant	28 km
5	Work under ongoing program including replacement	74 km

	Items	Length
	of part of existing pipe lines	
6	Work to be taken up under this Subproject (1)-(5)	177 km
7	Length of the existing pipe which is remaining after On-going program and to be used under this Sub-project	0 km
8	Net scope under this Sub-project (6)-(7)	177 km

Water Meter Connection

Water Meter – It is proposed to provide water meter under the subproject at the existing household connections only which is 52071, say 52000 only.

Disclaimer: The information provided above is indicative and may not necessarily be the same as the information in the actual bidding documents. Disclaimer with following:

Site Visits:

-BUIDCo shall schedule a time and procedure for Bidders to visit and conduct a physical inspection of the sites of the water facilities and their surroundings (the “Site Visits”). While attendance at the Site Visits is not mandatory, Bidders are strongly advised to attend the Site Visits and obtain for themselves all information that may be necessary to prepare their Proposals and enter into the Contract. The cost of the Site Visits shall be at each Bidder’s own expense.

-Each Bidder and its advisors, employees, consultants and agents shall be granted permission by BUIDCo to enter upon the BMC premises and lands for the purpose of the Site Visits, but only upon the express condition that the Bidder, its advisors, employees, consultants and agents shall release and indemnify BUIDCo and BMC (together the “Authorities”) and their respective advisors, employees, consultants and agents from and against all liability in respect thereof and that the Bidder shall be responsible for death or personal injury, loss of or damage to property and any other loss, damage, cost or expenses incurred as a result of the Site Visits.

Data Room

-BMC shall establish a data room with a selection of relevant data to be accessible to Bidders or their representatives from the date set out in Prequalification document (PqD) until the Submission Deadline in accordance with a schedule established by the Evaluation Committee.

Pre-proposal Conference

-BUIDCo shall hold a pre-proposal conference on the date set out in PqD in Bhagalpur/Patna, Bihar. The intention of the pre-proposal conference is to provide a technical presentation to the Bidders as well as a brief review of the PQ Documents. BUIDCo shall prepare and circulate minutes of the pre-proposal conference but these minutes shall not amend the PQ Documents in any way. While attendance by Bidders at the pre-proposal conference is not mandatory, Bidders are strongly encouraged to attend.

Addenda

-BUIDCo shall issue changes to the PQ Documents by written addenda only. No other communications of any kind whatsoever, including, without limitation, the minutes of the pre-proposal conference and the Response to Comments and Questions Document, shall modify the PQ Documents. BUIDCo shall send any or all addenda by air mail, courier or facsimile to each of the Bidders. The Addenda shall be binding on each Bidder, and BUIDCo

have the right to assume that the information contained in the addenda has been taken into account by the Bidder in its Proposal.

Information Provided by the Authorities

-Each Bidder is solely responsible for conducting its own independent research, due diligence, and any other work or investigations and for seeking any other independent advice necessary for the preparation of Proposals, negotiation of agreements, and the subsequent delivery of all services to be provided by the Successful Bidder. Bidders are specifically cautioned that if actual conditions, either with respect to the infrastructure, the financing position of BUIDCo or BMC are different from those discovered by the Bidder during its due diligence process, the Bidder, as the Contractor, shall have no claim for a price increase on the basis of the difference.

-No representation or warranty, express or implied, is made and no responsibility of any kind is accepted by the Authorities or their advisors, employees, consultants or agents, for the completeness or accuracy of any information contained in the PQ Documents or the Response to Comments and Questions Document, or provided during the Recruitment Process of the Contractor or during the term of the Contract. The Authorities and their advisors, employees, consultants and agents shall not be liable to any person or entity as a result of the use of any information contained in the PQ Documents or the Response to Comments and Questions Document, or provided during the Recruitment Process of the Contractor or during the term of the Contract.

-Bidders shall not rely on any oral statements made by the Authorities or their advisors, employees, consultants and agents.

C. Facilities to be Provided by the Employer:

The base maps and other relevant documents will be made available in the office of the Municipal Corporation. Interested applicants can inspect the documents and maps in the office.