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INVITATION TO BID

WATER DISTRIBUTION NETWORKS BASED ON 10 BOREHOLES IN THE GAMBIA

ITB No.: 2021/UNDP/GAM/PACD/013

Project: Programme for Accelerated Community Development (PACD)

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Section 1. Letter of Invitation

The United Nations Development Programme (UNDP) hereby invites you to submit a Bid to this Invitation to Bid (ITB) for the above-referenced subject.

This ITB includes the following documents and the General Terms and Conditions of Contract which is inserted in the Bid Data Sheet:

- Section 1: This Letter of Invitation
- Section 2: Instruction to Bidders
- Section 3: Bid Data Sheet (BDS)
- Section 4: Evaluation Criteria
- Section 5: Schedule of Requirements and Technical Specifications
- Section 6: Returnable Bidding Forms
 - Form A: Bid Submission Form
 - Form B: Bidder Information Form
 - Form C: Joint Venture/Consortium/Association Information Form
 - Form D: Qualification Form
 - Form E: Format of Technical Bid
 - Form F: Price Schedule
 - Form G: Form of Bid Security

If you are interested in submitting a Bid in response to this ITB, please prepare your Bid in accordance with the requirements and procedure as set out in this ITB and submit it by the Deadline for Submission of Bids set out in Bid Data Sheet.

Please acknowledge receipt of this ITB by using the "Accept Invitation" function in eTendering system, where applicable. This will enable you to receive amendments or updates to the ITB. Should you require further clarifications, kindly communicate with the contact person/s identified in the attached Data Sheet as the focal point for queries on this ITB.

UNDP looks forward to receiving your Bid and thank you in advance for your interest in UNDP procurement opportunities.

Issued by

Approved by:

Name: Thomas Mugabiyimana

Title: Team Leader

Date: **May 26, 2021**

Name: Aissata De

Title: Resident Representative

Date: **May 26, 2021**

Section 2. Instruction to Bidders

GENERAL PROVISIONS

1. Introduction	<p>1.1 Bidders shall adhere to all the requirements of this ITB, including any amendments made in writing by UNDP. This ITB is conducted in accordance with the UNDP Programme and Operations Policies and Procedures (POPP) on Contracts and Procurement which can be accessed at https://popp.undp.org/SitePages/POPPBSUnit.aspx?TermID=254a9f96-b883-476a-8ef8-e81f93a2b38d</p> <p>1.2 Any Bid submitted will be regarded as an offer by the Bidder and does not constitute or imply the acceptance of the Bid by UNDP. UNDP is under no obligation to award a contract to any Bidder as a result of this ITB.</p> <p>1.3 UNDP reserves the right to cancel the procurement process at any stage without any liability of any kind for UNDP, upon notice to the bidders or publication of cancellation notice on UNDP website.</p> <p>1.4 As part of the bid, it is desired that the Bidder registers at the United Nations Global Marketplace (UNGM) website (www.ungm.org). The Bidder may still submit a bid even if not registered with the UNGM. However, if the Bidder is selected for contract award, the Bidder must register on the UNGM prior to contract signature.</p>
2. Fraud & Corruption, Gifts and Hospitality	<p>2.1 UNDP strictly enforces a policy of zero tolerance on proscribed practices, including fraud, corruption, collusion, unethical or unprofessional practices, and obstruction of UNDP vendors and requires all bidders/vendors observe the highest standard of ethics during the procurement process and contract implementation. UNDP's Anti-Fraud Policy can be found at http://www.undp.org/content/undp/en/home/operations/accountability/audit/office_of_audit_andinvestigation.html#anti</p> <p>2.2 Bidders/vendors shall not offer gifts or hospitality of any kind to UNDP staff members including recreational trips to sporting or cultural events, theme parks or offers of holidays, transportation, or invitations to extravagant lunches or dinners.</p> <p>2.3 In pursuance of this policy, UNDP:</p> <p>(a) Shall reject a bid if it determines that the selected bidder has engaged in any corrupt or fraudulent practices in competing for the contract in question;</p> <p>(b) Shall declare a vendor ineligible, either indefinitely or for a stated period, to be awarded a contract if at any time it determines that the vendor has engaged in any corrupt or fraudulent practices in competing for, or in executing a UNDP contract.</p> <p>2.4 All Bidders must adhere to the UN Supplier Code of Conduct, which may be found at https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct</p>
3. Eligibility	<p>3.1 A vendor should not be suspended, debarred, or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization. Vendors are therefore required to disclose to UNDP whether they are subject to any sanction or temporary suspension imposed by these organizations.</p> <p>3.2 It is the Bidder's responsibility to ensure that its employees, joint venture members, sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established by UNDP.</p>

4. Conflict of Interests	<p>4.1 Bidders must strictly avoid conflicts with other assignments or their own interests, and act without consideration for future work. Bidders found to have a conflict of interest shall be disqualified. Without limitation on the generality of the above, Bidders, and any of their affiliates, shall be considered to have a conflict of interest with one or more parties in this solicitation process, if they:</p> <ul style="list-style-type: none"> a) Are or have been associated in the past, with a firm or any of its affiliates which have been engaged by UNDP to provide services for the preparation of the design, specifications, Terms of Reference, cost analysis/estimation, and other documents to be used for the procurement of the goods and services in this selection process; b) Were involved in the preparation and/or design of the programme/project related to the goods and/or services requested under this ITB; or c) Are found to be in conflict for any other reason, as may be established by, or at the discretion of UNDP. <p>4.2 In the event of any uncertainty in the interpretation of a potential conflict of interest, Bidders must disclose to UNDP, and seek UNDP's confirmation on whether or not such conflict exists.</p> <p>4.3 Similarly, the Bidders must disclose in their Bid their knowledge of the following:</p> <ul style="list-style-type: none"> a) If the owners, part-owners, officers, directors, controlling shareholders, of the bidding entity or key personnel who are family members of UNDP staff involved in the procurement functions and/or the Government of the country or any Implementing Partner receiving goods and/or services under this ITB; and b) All other circumstances that could potentially lead to actual or perceived conflict of interest, collusion or unfair competition practices. <p>Failure to disclose such an information may result in the rejection of the Bid or Bids affected by the non-disclosure.</p> <p>4.4 The eligibility of Bidders that are wholly or partly owned by the Government shall be subject to UNDP's further evaluation and review of various factors such as being registered, operated and managed as an independent business entity, the extent of Government ownership/share, receipt of subsidies, mandate and access to information in relation to this ITB, among others. Conditions that may lead to undue advantage against other Bidders may result in the eventual rejection of the Bid.</p>
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B. PREPARATION OF BIDS

5. General Considerations	<p>5.1 In preparing the Bid, the Bidder is expected to examine the ITB in detail. Material deficiencies in providing the information requested in the ITB may result in rejection of the Bid.</p> <p>5.2 The Bidder will not be permitted to take advantage of any errors or omissions in the ITB. Should such errors or omissions be discovered, the Bidder must notify the UNDP accordingly.</p>
6. Cost of Preparation of Bid	<p>6.1 The Bidder shall bear all costs related to the preparation and/or submission of the Bid, regardless of whether its Bid is selected or not. UNDP shall not be responsible or liable for those costs, regardless of the conduct or outcome of the procurement process.</p>
7. Language	<p>7.1 The Bid, as well as any and all related correspondence exchanged by the Bidder and UNDP, shall be written in the language (s) specified in the BDS.</p>

8. Documents Comprising the Bid	<p>8.1 The Bid shall comprise of the following documents and related forms which details are provided in the BDS:</p> <ul style="list-style-type: none"> a) Documents Establishing the Eligibility and Qualifications of the Bidder; b) Technical Bid; c) Price Schedule; d) Bid Security, if required by BDS; e) Any attachments and/or appendices to the Bid.
9. Documents Establishing the Eligibility and Qualifications of the Bidder	<p>9.1 The Bidder shall furnish documentary evidence of its status as an eligible and qualified vendor, using the Forms provided under Section 6 and providing documents required in those forms. In order to award a contract to a Bidder, its qualifications must be documented to UNDP's satisfaction.</p>
10. Technical Bid Format and Content	<p>10.1 The Bidder is required to submit a Technical Bid using the Standard Forms and templates provided in Section 6 of the ITB.</p> <p>10.2 Samples of items, when required as per Section 5, shall be provided within the time specified and unless otherwise specified by the Purchaser, at no expense to the UNDP. If not destroyed by testing, samples will be returned at Bidder's request and expense, unless otherwise specified.</p> <p>10.3 When applicable and required as per Section 5, the Bidder shall describe the necessary training programme available for the maintenance and operation of the equipment offered as well as the cost to the UNDP. Unless otherwise specified, such training as well as training materials shall be provided in the language of the Bid as specified in the BDS.</p> <p>10.4 When applicable and required as per Section 5, the Bidder shall certify the availability of spare parts for a period of at least five (5) years from date of delivery, or as otherwise specified in this ITB.</p>
11. Price Schedule	<p>11.1 The Price Schedule shall be prepared using the Form provided in Section 6 of the ITB and taking into consideration the requirements in the ITB.</p> <p>11.2 Any requirement described in the Technical Bid but not priced in the Price Schedule, shall be assumed to be included in the prices of other activities or items, as well as in the final total price.</p>
12. Bid Security	<p>12.1 A Bid Security, if required by BDS, shall be provided in the amount and form indicated in the BDS. The Bid Security shall be valid for a minimum of thirty (30) days after the final date of validity of the Bid.</p> <p>12.2 The Bid Security shall be included along with the Bid. If Bid Security is required by the ITB but is not found in the Bid, the offer shall be rejected.</p> <p>12.3 If the Bid Security amount or its validity period is found to be less than what is required by UNDP, UNDP shall reject the Bid.</p> <p>12.4 In the event an electronic submission is allowed in the BDS, Bidders shall include a copy of the Bid Security in their bid and the original of the Bid Security must be sent via courier or hand delivery as per the instructions in BDS.</p> <p>12.5 The Bid Security may be forfeited by UNDP, and the Bid rejected, in the event of any, or combination, of the following conditions:</p> <ul style="list-style-type: none"> a) If the Bidder withdraws its offer during the period of the Bid Validity specified in the BDS, or; b) In the event the successful Bidder fails: <ul style="list-style-type: none"> i. to sign the Contract after UNDP has issued an award; or

	<p>ii. to furnish the Performance Security, insurances, or other documents that UNDP may require as a condition precedent to the effectivity of the contract that may be awarded to the Bidder.</p>
13. Currencies	<p>13.1 All prices shall be quoted in the currency or currencies indicated in the BDS. Where Bids are quoted in different currencies, for the purposes of comparison of all Bids:</p> <p>a) UNDP will convert the currency quoted in the Bid into the UNDP preferred currency, in accordance with the prevailing UN operational rate of exchange on the last day of submission of Bids; and</p> <p>b) In the event that UNDP selects a Bid for award that is quoted in a currency different from the preferred currency in the BDS, UNDP shall reserve the right to award the contract in the currency of UNDP's preference, using the conversion method specified above.</p>
14. Joint Venture, Consortium or Association	<p>14.1 If the Bidder is a group of legal entities that will form or have formed a Joint Venture (JV), Consortium or Association for the Bid, they shall confirm in their Bid that : (i) they have designated one party to act as a lead entity, duly vested with authority to legally bind the members of the JV, Consortium or Association jointly and severally, which shall be evidenced by a duly notarized Agreement among the legal entities, and submitted with the Bid; and (ii) if they are awarded the contract, the contract shall be entered into, by and between UNDP and the designated lead entity, who shall be acting for and on behalf of all the member entities comprising the joint venture.</p> <p>14.2 After the Deadline for Submission of Bid, the lead entity identified to represent the JV, Consortium or Association shall not be altered without the prior written consent of UNDP.</p> <p>14.3 The lead entity and the member entities of the JV, Consortium or Association shall abide by the provisions of Clause 9 herein in respect of submitting only one Bid.</p> <p>14.4 The description of the organization of the JV, Consortium or Association must clearly define the expected role of each of the entities in the joint venture in delivering the requirements of the ITB, both in the Bid and the JV, Consortium or Association Agreement. All entities that comprise the JV, Consortium or Association shall be subject to the eligibility and qualification assessment by UNDP.</p> <p>14.5 A JV, Consortium or Association in presenting its track record and experience should clearly differentiate between:</p> <p>a) Those that were undertaken together by the JV, Consortium or Association; and</p> <p>b) Those that were undertaken by the individual entities of the JV, Consortium or Association.</p> <p>14.6 Previous contracts completed by individual experts working privately but who are permanently or were temporarily associated with any of the member firms cannot be claimed as the experience of the JV, Consortium or Association or those of its members, but should only be claimed by the individual experts themselves in their presentation of their individual credentials</p> <p>14.7 JV, Consortium or Associations are encouraged for high value, multi-sectoral requirements when the spectrum of expertise and resources required may not be available within one firm.</p>
15. Only One Bid	<p>15.1 The Bidder (including the individual members of any Joint Venture) shall submit only one Bid, either in its own name or as part of a Joint Venture.</p>

	<p>15.2 Bids submitted by two (2) or more Bidders shall all be rejected if they are found to have any of the following:</p> <ul style="list-style-type: none"> a) they have at least one controlling partner, director or shareholder in common; or b) any one of them receive or have received any direct or indirect subsidy from the other/s; or c) they have the same legal representative for purposes of this ITB; or d) they 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 influence on the Bid of another Bidder regarding this ITB process; e) they are subcontractors to each other's Bid, or a subcontractor to one Bid also submits another Bid under its name as lead Bidder; or some key personnel proposed to be in the team of one Bidder participates in more than one Bid received for this ITB process. This condition relating to the personnel, does not apply to subcontractors being included in more than one Bid.
16. Bid Validity Period	<p>16.1 Bids shall remain valid for the period specified in the BDS, commencing on the Deadline for Submission of Bids. A Bid valid for a shorter period may be rejected by UNDP and rendered non-responsive.</p> <p>16.2 During the Bid validity period, the Bidder shall maintain its original Bid without any change, including the availability of the Key Personnel, the proposed rates and the total price.</p>
17. Extension of Bid Validity Period	<p>17.1 In exceptional circumstances, prior to the expiration of the Bid validity period, UNDP may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing, and shall be considered integral to the Bid.</p> <p>17.2 If the Bidder agrees to extend the validity of its Bid, it shall be done without any change to the original Bid.</p> <p>17.3 The Bidder has the right to refuse to extend the validity of its Bid, in which case, the Bid shall not be further evaluated.</p>
18. Clarification of Bid (from the Bidders)	<p>18.1 Bidders may request clarifications on any of the ITB documents no later than the date indicated in the BDS. Any request for clarification must be sent in writing in the manner indicated in the BDS. If inquiries are sent other than specified channel, even if they are sent to a UNDP staff member, UNDP shall have no obligation to respond or confirm that the query was officially received.</p> <p>18.2 UNDP will provide the responses to clarifications through the method specified in the BDS.</p> <p>18.3 UNDP shall endeavour to provide responses to clarifications in an expeditious manner, but any delay in such response shall not cause an obligation on the part of UNDP to extend the submission date of the Bids, unless UNDP deems that such an extension is justified and necessary.</p>
19. Amendment of Bids	<p>19.1 At any time prior to the deadline of Bid submission, UNDP may for any reason, such as in response to a clarification requested by a Bidder, modify the ITB in the form of an amendment to the ITB. Amendments will be made available to all prospective bidders.</p> <p>19.2 If the amendment is substantial, UNDP may extend the Deadline for submission of Bid to give the Bidders reasonable time to incorporate the amendment into their Bids.</p>
20. Alternative Bids	<p>20.1 Unless otherwise specified in the BDS, alternative Bids shall not be considered. If submission of alternative Bid is allowed by BDS, a Bidder may submit an alternative Bid, but only if it also submits a Bid conforming to the ITB</p>

	<p>requirements. Where the conditions for its acceptance are met, or justifications are clearly established, UNDP reserves the right to award a contract based on an alternative Bid.</p> <p>20.2 If multiple/alternative bids are being submitted, they must be clearly marked as "Main Bid" and "Alternative Bid"</p>
21. Pre-Bid Conference	<p>21.1 When appropriate, a pre-bid conference will be conducted at the date, time and location specified in the BDS. All Bidders are encouraged to attend. Non-attendance, however, shall not result in disqualification of an interested Bidder. Minutes of the Bidder's conference will be disseminated on the procurement website and shared by email or on the e-Tendering platform as specified in the BDS. No verbal statement made during the conference shall modify the terms and conditions of the ITB, unless specifically incorporated in the Minutes of the Bidder's Conference or issued/posted as an amendment to ITB.</p>

c. SUBMISSION AND OPENING OF BIDS

22. Submission	<p>22.1 The Bidder shall submit a duly signed and complete Bid comprising the documents and forms in accordance with requirements in the BDS. The Price Schedule shall be submitted together with the Technical Bid. Bid can be delivered either personally, by courier, or by electronic method of transmission as specified in the BDS.</p> <p>22.2 The Bid shall be signed by the Bidder or person(s) duly authorized to commit the Bidder. The authorization shall be communicated through a document evidencing such authorization issued by the legal representative of the bidding entity, or a Power of Attorney, accompanying the Bid.</p> <p>22.3 Bidders must be aware that the mere act of submission of a Bid, in and of itself, implies that the Bidder fully accepts the UNDP General Contract Terms and Conditions.</p>
Hard (manual) submission copy	<p>22.4 Hard copy (manual) submission by courier or hand delivery allowed or specified in the BDS shall be governed as follows:</p> <p>a) The signed Bid shall be marked "Original", and its copies marked "Copy" as appropriate. The number of copies is indicated in the BDS. All copies shall be made from the signed original only. If there are discrepancies between the original and the copies, the original shall prevail.</p> <p>(b) The Technical Bid and Price Schedule must be sealed and submitted together in an envelope, which shall:</p> <ol style="list-style-type: none"> Bear the name of the Bidder; Be addressed to UNDP as specified in the BDS; and Bear a warning not to open before the time and date for Bid opening as specified in the BDS. <p>If the envelope with the Bid is not sealed and marked as required, UNDP shall assume no responsibility for the misplacement, loss, or premature opening of the Bid.</p>
Email eTendering submissions and	<p>22.5 Electronic submission through email or eTendering, if allowed as specified in the BDS, shall be governed as follows:</p> <ol style="list-style-type: none"> Electronic files that form part of the Bid must be in accordance with the format and requirements indicated in BDS; Documents which are required to be in original form (e.g. Bid Security, etc.) must be sent via courier or hand delivered as per the instructions in BDS. <p>22.6 Detailed instructions on how to submit, modify or cancel a bid in the eTendering system are provided in the eTendering system Bidder User Guide</p>

	<p>and Instructional videos available on this link: http://www.undp.org/content/undp/en/home/operations/procurement/business/procurement-notice/resources/</p>
23. Deadline for Submission of Bids and Late Bids	<p>23.1 Complete Bids must be received by UNDP in the manner, and no later than the date and time, specified in the BDS. UNDP shall only recognise the actual date and time that the bid was received by UNDP</p> <p>23.2 UNDP shall not consider any Bid that is received after the deadline for the submission of Bids.</p>
24. Withdrawal, Substitution, and Modification of Bids	<p>24.1 A Bidder may withdraw, substitute or modify its Bid after it has been submitted at any time prior to the deadline for submission.</p> <p>24.2 Manual and Email submissions: A bidder may withdraw, substitute or modify its Bid by sending a written notice to UNDP, duly signed by an authorized representative, and shall include a copy of the authorization (or a Power of Attorney). The corresponding substitution or modification of the Bid, if any, must accompany the respective written notice. All notices must be submitted in the same manner as specified for submission of Bids, by clearly marking them as "WITHDRAWAL" "SUBSTITUTION," or "MODIFICATION"</p> <p>24.3 eTendering: A Bidder may withdraw, substitute or modify its Bid by Cancelling, Editing, and re-submitting the Bid directly in the system. It is the responsibility of the Bidder to properly follow the system instructions, duly edit and submit a substitution or modification of the Bid as needed. Detailed instructions on how to cancel or modify a Bid directly in the system are provided in the Bidder User Guide and Instructional videos.</p> <p>24.4 Bids requested to be withdrawn shall be returned unopened to the Bidders (only for manual submissions), except if the bid is withdrawn after the bid has been opened.</p>
25. Bid Opening	<p>25.1 UNDP will open the Bid in the presence of an ad-hoc committee formed by UNDP of at least two (2) members.</p> <p>25.2 The Bidders' names, modifications, withdrawals, the condition of the envelope labels/seals, the number of folders/files and all other such other details as UNDP may consider appropriate, will be announced at the opening. No Bid shall be rejected at the opening stage, except for late submissions, in which case, the Bid shall be returned unopened to the Bidders.</p> <p>25.3 In the case of e-Tendering submission, bidders will receive an automatic notification once the Bid is opened.</p>
D. EVALUATION OF BIDS	
26. Confidentiality	<p>26.1 Information relating to the examination, evaluation, and comparison of Bids, and the recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process, even after publication of the contract award.</p> <p>26.2 Any effort by a Bidder or anyone on behalf of the Bidder to influence UNDP in the examination, evaluation and comparison of the Bids or contract award decisions may, at UNDP's decision, result in the rejection of its Bid and may subsequently be subject to the application of prevailing UNDP's vendor sanctions procedures.</p>
27. Evaluation of Bids	<p>27.1 UNDP will conduct the evaluation solely on the basis of the Bids received.</p> <p>27.2 Evaluation of Bids shall be undertaken in the following steps:</p>

	<ul style="list-style-type: none"> a) Preliminary Examination including Eligibility b) Arithmetical check and ranking of bidders who passed preliminary examination by price. c) Qualification assessment (if pre-qualification was not done) a) Evaluation of Technical Bids b) Evaluation of prices <p>Detailed evaluation will be focussed on the 3 - 5 lowest priced bids. Further higher priced bids shall be added for evaluation if necessary</p>
28. Preliminary Examination	<p>28.1 UNDP shall examine the Bids to determine whether they are complete with respect to minimum documentary requirements, whether the documents have been properly signed, and whether the Bids are generally in order, among other indicators that may be used at this stage. UNDP reserves the right to reject any Bid at this stage.</p>
29. Evaluation of Eligibility and Qualification	<p>29.1 Eligibility and Qualification of the Bidder will be evaluated against the Minimum Eligibility/Qualification requirements specified in the Section 4 (Evaluation Criteria).</p> <p>29.2 In general terms, vendors that meet the following criteria may be considered qualified:</p> <ul style="list-style-type: none"> a) They are not included in the UN Security Council 1267/1989 Committee's list of terrorists and terrorist financiers, and in UNDP's ineligible vendors' list; b) They have a good financial standing and have access to adequate financial resources to perform the contract and all existing commercial commitments, c) They have the necessary similar experience, technical expertise, production capacity, quality certifications, quality assurance procedures and other resources applicable to the supply of goods and/or services required; d) They are able to comply fully with the UNDP General Terms and Conditions of Contract; e) They do not have a consistent history of court/arbitral award decisions against the Bidder; and f) They have a record of timely and satisfactory performance with their clients.
30. Evaluation of Technical Bid and prices	<p>30.1 The evaluation team shall review and evaluate the Technical Bids on the basis of their responsiveness to the Schedule of Requirements and Technical Specifications and other documentation provided, applying the procedure indicated in the BDS and other ITB documents. When necessary, and if stated in the BDS, UNDP may invite technically responsive bidders for a presentation related to their technical Bids. The conditions for the presentation shall be provided in the bid document where required.</p>
31. Due diligence	<p>31.1 UNDP reserves the right to undertake a due diligence exercise, aimed at determining to its satisfaction, the validity of the information provided by the Bidder. Such exercise shall be fully documented and may include, but need not be limited to, all or any combination of the following:</p> <ul style="list-style-type: none"> a) Verification of accuracy, correctness and authenticity of information provided by the Bidder; b) Validation of extent of compliance to the ITB requirements and evaluation criteria based on what has so far been found by the evaluation team; c) Inquiry and reference checking with Government entities with jurisdiction on the Bidder, or with previous clients, or any other entity that may have done business with the Bidder; d) Inquiry and reference checking with previous clients on the performance on on-going or completed contracts, including physical inspections of previous works, as deemed necessary; e) Physical inspection of the Bidder's offices, branches or other places where business transpires, with or without notice to the Bidder;

	f) Other means that UNDP may deem appropriate, at any stage within the selection process, prior to awarding the contract.
32. Clarification of Bids	<p>32.1 To assist in the examination, evaluation and comparison of Bids, UNDP may, at its discretion, request any Bidder for a clarification of its Bid.</p> <p>32.2 UNDP's request for clarification and the response shall be in writing and no change in the prices or substance of the Bid shall be sought, offered, or permitted, except to provide clarification, and confirm the correction of any arithmetic errors discovered by UNDP in the evaluation of the Bids, in accordance with the ITB.</p> <p>32.3 Any unsolicited clarification submitted by a Bidder in respect to its Bid, which is not a response to a request by UNDP, shall not be considered during the review and evaluation of the Bids.</p>
33. Responsiveness of Bid	<p>33.1 UNDP's determination of a Bid's responsiveness will be based on the contents of the bid itself. A substantially responsive Bid is one that conforms to all the terms, conditions, specifications and other requirements of the ITB without material deviation, reservation, or omission.</p> <p>33.2 If a bid is not substantially responsive, it shall be rejected by UNDP and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.</p>
34. Nonconformities, Repairable Errors and Omissions	<p>34.1 Provided that a Bid is substantially responsive, UNDP may waive any non-conformities or omissions in the Bid that, in the opinion of UNDP, do not constitute a material deviation.</p> <p>34.2 UNDP may request the Bidder to submit the necessary information or documentation, within a reasonable period, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.</p> <p>34.3 For the bids that have passed the preliminary examination, UNDP shall check and correct arithmetical errors as follows:</p> <ul style="list-style-type: none"> a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of UNDP there is an obvious misplacement of the decimal point in the unit price; in which case, the line item total as quoted shall govern and the unit price shall be corrected; b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and c) 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. <p>34.4 If the Bidder does not accept the correction of errors made by UNDP, its Bid shall be rejected.</p>
E. AWARD OF CONTRACT	
35. Right to Accept, Reject, Any or All Bids	<p>35.1 UNDP reserves the right to accept or reject any bid, to render any or all of the bids as non-responsive, and to reject all Bids at any time prior to award of contract, without incurring any liability, or obligation to inform the affected Bidder(s) of the grounds for UNDP's action. UNDP shall not be obliged to award the contract to the lowest priced offer.</p>

36. Award Criteria	36.1 Prior to expiration of the period of Bid validity, UNDP shall award the contract to the qualified and eligible Bidder that is found to be responsive to the requirements of the Schedule of Requirements and Technical Specification, and has offered the lowest price.
37. Debriefing	37.1 In the event that a Bidder is unsuccessful, the Bidder may request for a debriefing from UNDP. The purpose of the debriefing is to discuss the strengths and weaknesses of the Bidder's submission, in order to assist the Bidder in improving its future Bids for UNDP procurement opportunities. The content of other Bids and how they compare to the Bidder's submission shall not be discussed.
38. Right to Vary Requirements at the Time of Award	38.1 At the time of award of Contract, UNDP reserves the right to vary the quantity of goods and/or services, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.
39. Contract Signature	39.1 Within fifteen (15) days from the date of receipt of the Contract, the successful Bidder shall sign and date the Contract and return it to UNDP. Failure to do so may constitute sufficient grounds for the annulment of the award, and forfeiture of the Bid Security, if any, and on which event, UNDP may award the Contract to the Second highest rated or call for new Bids.
40. Contract Type and General Terms and Conditions	40.1 The types of Contract to be signed and the applicable UNDP Contract General Terms and Conditions, as specified in BDS, can be accessed at http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
41. Performance Security	41.1 A performance security, if required in the BDS, shall be provided in the amount specified in BDS and form available at https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Solicitation_Performance%20Guarantee%20Form.docx&action=default within a maximum of fifteen (15) days of the contract signature by both parties. Where a performance security is required, the receipt of the performance security by UNDP shall be a condition for rendering the contract effective.
42. Bank Guarantee for Advanced Payment	42.1 Except when the interests of UNDP so require, it is UNDP's standard practice to not make advance payment(s) (i.e., payments without having received any outputs). If an advance payment is allowed as per the BDS, and exceeds 20% of the total contract price, or USD 30,000, whichever is less, the Bidder shall submit a Bank Guarantee in the full amount of the advance payment in the form available at https://popp.undp.org/_layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_POPP_DOCUMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment%20and%20Taxes_Advanced%20Payment%20Guarantee%20Form.docx&action=default
43. Liquidated Damages	43.1 If specified in the BDS, UNDP shall apply Liquidated Damages for the damages and/or risks caused to UNDP resulting from the Contractor's delays or breach of its obligations as per Contract.
44. Payment Provisions	44.1 Payment will be made only upon UNDP's acceptance of the goods and/or services performed. The terms of payment shall be within thirty (30) days, after receipt of invoice and certification of acceptance of goods and/or services issued by the proper authority in UNDP with direct supervision of the Contractor. Payment will be effected by bank transfer in the currency of the contract.

45. Vendor Protest	<p>45.1 UNDP's vendor protest procedure provides an opportunity for appeal to those persons or firms not awarded a contract through a competitive procurement process. In the event that a Bidder believes that it was not treated fairly, the following link provides further details regarding UNDP vendor protest procedures:</p> <p>http://www.undp.org/content/undp/en/home/procurement/business/protest-and-sanctions.html</p>
46. Other Provisions	<p>46.1 In the event that the Bidder offers a lower price to the host Government (e.g. General Services Administration (GSA) of the federal government of the United States of America) for similar goods and/or services, UNDP shall be entitled to the same lower price. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.2 UNDP is entitled to receive the same pricing offered by the same Contractor in contracts with the United Nations and/or its Agencies. The UNDP General Terms and Conditions shall have precedence.</p> <p>46.3 The United Nations has established restrictions on employment of (former) UN staff who have been involved in the procurement process as per bulletin ST/SGB/2006/15</p> <p>http://www.un.org/en/ga/search/view_doc.asp?symbol=ST/SGB/2006/15&referer</p>

Section 3. Bid Data Sheet

The following data for the goods and/or services to be procured shall complement, supplement, or amend the provisions in the Invitation to Bid In the case of a conflict between the Instructions to Bidders, the Bid Data Sheet, and other annexes or references attached to the Bid Data Sheet, the provisions in the Bid Data Sheet shall prevail.

BDS No.	Ref. to Section.2	Data	Specific Instructions / Requirements
1	7	Language of the Bid	English
2		Submitting Bids for Parts or sub-parts of the Schedule of Requirements (partial bids)	<p>Not Allowed</p> <p>Bidders can elect to submit offers for one or more lots.</p> <p>However, Bidders must quote for all the works under <i>each single lot</i> as provided in the BoQ.</p> <p>Partial submissions will be disregarded.</p>
3	20	Alternative Bids	Shall not be considered
4	21	Pre-Bid conference	<p>Will be Conducted</p> <p>Time: 10:00 am GMT</p> <p>Date : June 03, 2021 10:00 AM</p> <p>Venue : Virtual via video conference through this link:</p> <p>Topic: 2012/UNDP/GAM/PACD/013 - Water distribution networks in The Gambia, based on 16 boreholes</p> <p>Time: Jun 3, 2021 10:00 AM Africa/Banjul</p> <p>Join Zoom Meeting</p> <p>https://undp.zoom.us/j/86280644135?pwd=VIF3YzdOZ2o2cmc2ZXB2c3IrSUdodz09</p> <p>Meeting ID: 862 8064 4135</p> <p>Passcode: 419622</p> <p>The UNDP focal point for the arrangement is:</p> <p>Thomas Mugabiyimana</p> <p>Telephone: 335 39 00</p> <p>E-mail: thomas.mugabiyimana@undp.org</p> <p>Site visit and inspection will not be conducted.</p> <p>Site visit and inspection are opened to all interested prospective bidders. Bidders, at their own responsibility and risk, might elect to visit and examine the Site of Works and its surroundings to obtain all information that may be necessary for preparing their Bid and entering into a contract for construction of the Works.</p> <p>The costs of visiting the Site are at the Bidder's own expense.</p>

			For orientation to the sites of boreholes to connect with the required water distribution networks, you may contact FAM Engineering, attn. Mr. Foday Juwara on +220 990 33 98.
5	16	Bid Validity Period	90 days
6	13	Bid Security	Not Required ▪
7	41	Advanced Payment upon signing of contract	Allowed up to a maximum of 20 % of contract value and subject to Bank guarantee for equivalent amount - The advance payment is based on the Contract Price excluding contingences and provisional sum and will be paid in the same currencies and proportions as the Contract Price.
8	42	Liquidated Damages	Will be imposed as follows: Percentage of contract price per day of delay: 0.05% Max. number of days of delay 30, after which UNDP may terminate the contract.
9	40	Performance Security	Required in the amount of 10% of the contractual amount. The Performance Security shall be provided no later than twenty-one (21) days after receipt of the Notice of Award but prior to the commencement date as confirmed by UNDP named engineer in the amount specified in the Special Conditions of the Contract and denominated in the types and proportions of the currencies in which the Contract Price is payable. The Performance Security shall be valid until twenty-eight (28) days from the date of issue of the Certificate of Completion and shall be returned following notice of acceptance from the engineer appointed by UNDP.
10	12	Currency of Bid	Local currency: GMD
11	31	Deadline for submitting requests for clarifications/ questions	Seven (7) days before the submission deadline
12	31	Contact Details for submitting clarifications/questions	Focal Person in UNDP: Thomas Mugabiyimana Email address: thomas.mugabiyimana@undp.org
13	18, 19 and 21	Manner of Disseminating Supplemental Information to the ITB and responses/clarifications to queries	Posted directly to eTendering
14	23	Deadline for Submission	as indicated in eTendering system. Note that system time zone is in EST/EDT (New York) time zone.

			Bidders may refer to https://www.thetimezoneconverter.com/ to confirm the equivalent closure timing in Banjul.
14	22	Allowable Manner of Submitting Bids	<input checked="" type="checkbox"/> e-Tendering
15	22	Bid Submission Address	<p>[Insert e-tendering (please sign up as indicated and upload your bid documents)]</p> <p>https://etendering.partneragencies.org</p> <p>Insert BU Code: GMD10 and Event ID number: 0000009239</p>
16	22	Electronic submission (email or eTendering) requirements	<ul style="list-style-type: none"> Format: PDF files only File names must be maximum 60 characters long and must not contain any letter or special character other than from Latin alphabet/keyboard. All files must be free of viruses and not corrupted. Max. File Size per transmission: 5 MB Mandatory subject of email: : ITB no 2021/UNDP/GAM/PACD/013, Water supply networks around 16 boreholes. Documents which are required in original (e.g. Bid Security) should be sent to the below address with a PDF copy submitted as part of the electronic submission: UNDP Gambia 5 Kofi Annan Street, Cape Point, Bakau, P.O Box 553 Banjul, Gambia
17	25	Date, time and venue for the opening of bid	As it is an e-Tendering submission, bidders will receive an automatic notification once their Bids are opened.
18	27, 36	Evaluation Method for the Award of Contract	<p>Lowest priced technically responsive, eligible and qualified bid.</p> <p>Technically acceptable bids that have meet the minimum eligibility and qualification criteria will be ranked for the single lots from lowest to highest, and the five lots awarded to the suppliers who made the five lowest bids.</p> <p>Lots will be evaluated on mutually exclusive basis. In the event a bidder is the lowest on two or more lots its combined financial and technical capacity for both lots will be assessed.</p> <p>A bidder cannot win more than two contracts and UNDP will determine the combination of award according to the best advantage for UNDP.</p> <p>-----</p> <p>-----</p> <p>Memo to Bidders (Examples of Bid Rejection)</p>

			<p>Bids have been rejected at the submission stage or found to be technically noncompliant due to errors in presentation and failure to follow bidding instructions.</p> <p>Below are some of the more common examples of why bids are rejected. Bidders are urged to read this before submission and to check that their bids conform to each of these points and the instructions as noted in the bidding documents.</p> <ul style="list-style-type: none"> ♣ Bid is submitted after the deadline for submission, either by hand or electronically. Bids sent just before the deadline through eTendering may arrive after the deadline and be rejected. Therefore, make sure to submit your bids beforehand. ♣ Bids not submitted to the correct physical or electronic address. Note that the address for bid submission is different from the address for bid questions. ♣ Bid is not signed as per the instructions in the ITB. ♣ Not all sufficient documents have been provided. ♣ Documents provided are not in English. Certificates of company registration or tax authorities may be presented in the original language. During the evaluation process UNDP may ask for translated files of such documents. ♣ Documents provided do not directly address each point of the evaluation criteria. ♣ Bid not specifically addressing the evaluation criteria of the ITB and Technical Specifications. ♣ Bid does not offer services which have been specifically requested in the Technical Specifications. ♣ Failure to enclose the mandatory Bids Submission Form (see Section 6, Form A). ♣ The Bidder failed to consult the UNDP Atlas eTendering website before the deadline for bid submission and did not see the changes to the ITB listed there which need to be incorporated in the bid. ♣ The Bidder declines or proposes a major deviation to UNDP General Conditions of Contract. ♣ Bids contain viruses and/or corrupted files. The Bidders should ensure that submitted bids DO NOT contain viruses and/or corrupted files. Such bids will be rejected. <p>The above examples illustrate some errors which may be made by Bidders. This is a partial list. The bidding documents contain additional instructions which should be followed carefully.</p>
19		Expected date for commencement of Contract	<i>June 28, 2021</i>
20		Maximum expected duration of contract	3 months
21	35	UNDP will award the contract to:	Choose an item.

			One bidder per lot with a maximum of two contracts per bidder according to art. 18 (evaluation method)
22	39	Type of Contract	Contract for Civil Works http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
23	39	UNDP Contract Terms and Conditions that will apply	UNDP General Terms and Conditions for Works http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html
24		Other Information Related to the ITB	<i>Water supply networks will be constructed to serve communities around 16 boreholes and their linked water tanks</i>

Section 4. Evaluation Criteria

Preliminary Examination Criteria

Bids will be examined to determine whether they are complete and submitted in accordance with ITB requirements as per below criteria on a Yes/No basis:

- Appropriate signatures
- Power of Attorney
- Minimum Bid documents provided
- Bid Validity
- Bid Security (if required) submitted as per ITB requirements with compliant validity period

Minimum Eligibility and Qualification Criteria

Eligibility and Qualification will be evaluated on a Pass/Fail basis.

If the Bid is submitted as a Joint Venture/Consortium/Association, each member ***cumulatively*** should meet requirement).

Subject	Criteria	Document Submission requirement
ELIGIBILITY		
Legal Status	Vendor is a legally registered entity. Bidders are required to fill Form B. Additionally; bidders must include the following documents: "A GPPA registration certificate in addition to the Business registration certificate, both valid in 2021, is required for companies operating in The Gambia"	Form B: Bidder Information Form
Eligibility	Vendor is not suspended, nor debarred, nor otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization in accordance with ITB clause 3.	Form A: Bid Submission Form
Conflict of Interest	No conflicts of interest in accordance with ITB clause 4. Bidders are required to fill Form A.	Form A: Bid Submission Form
Bankruptcy	Has not declared bankruptcy, is not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against the vendor that could impair its operations in the foreseeable future. Bidders are required to fill Form A.	Form A: Bid Submission Form
Certificates and Licenses	<ul style="list-style-type: none">▪ Duly authorized to act as Agent on behalf of the Manufacturer, or Power of Attorney, if bidder is not a manufacturer▪ Official appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country▪ Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder▪ Export/Import Licenses, if applicable	Form B: Bidder Information Form
QUALIFICATION		
History of Non-	Non-performance of a contract did not occur as a result of	Form D: Qualification

Performing Contracts¹	contractor default for the last 3 years.	Form
Litigation History	No consistent history of court/arbitral award decisions against the Bidder for the last 3 years.	Form D: Qualification Form
Previous Experience	Minimum 3 years of relevant experience in similar area.	Form D: Qualification Form
	<p>Minimum 3 contracts of similar nature and complexity implemented over the last 3 years in area of water systems.</p> <p>Evidence of Minimum 3 contracts of similar nature and complexity implemented over the last 3 years with at least one (1) of contract exceeding USD 30,000.00 .</p> <p>Statement of Satisfactory Performance/Completion Certificate/ Certificate of Practical completion from the Top three (3) Clients in terms of Contract Value for similar assignments over the last 3 years.</p> <p>(In the event a contractor wishes to apply for two or more contracts, Evidence of two or more contracts exceeding USD 60,000.00 during the same period is required.</p> <p><i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i></p>	Form D: Qualification Form
Financial Standing	<p>Minimum average annual turnover² of</p> <p>LOT 1 : 120.000 USD</p> <p>LOT 2: 120.000 USD</p> <p>LOT 3 : 200.000 USD</p> <p>for the last 3 years.</p> <p><i>(For JV/Consortium/Association, all Parties cumulatively should meet requirement).</i></p>	Form D: Qualification Form
	<p>Bidder must demonstrate the current soundness of its financial standing and indicate its prospective long-term profitability.</p> <p>Bidders must refer to the SOW under each Lot (attached separately)</p> <p><i>Additionally, Bidders are required to include their companies audited accounts for the past three (3) years. (2018 onwards)</i></p> <p><i>Please do not submit audited financial statements beyond the required years.</i></p> <p><i>Note: UNDP reserves the right to verify the bidder financial capacity and seek references from the concerned parties & banks on the bidder's financial standing.</i></p> <p><i>UNDP reserves the right to reject any whom investigations reveal is not financially capable and/ or has serious financial problems.</i></p> <p><i>(For JV/Consortium/Association, all Parties cumulatively should</i></p>	Form D: Qualification Form

¹ Non-performance, as decided by UNDP, shall include all contracts where (a) non-performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non-performance shall not include contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Bidder have been exhausted.

² Minimum annual turnover should be based on industry standards but modified to reflect market context (e.g. for construction works, it is around 2-3 times the expected value of works contracts).

	<i>meet requirement).</i>	
Technical Evaluation	The technical bids shall be evaluated on a pass/fail basis for compliance or non-compliance with the technical specifications identified in the bid document.	Form E: Technical Bid Form
	<p>Personnel Requirement: Please refer to the Statement of works of each lot (attached separately).</p> <p>NOTA BENE: Bidder must submit signed CVs of the below proposed key personnel along with 1- copy of relevant academic diploma</p> <p>Equipment Requirement: Please refer to the statement of works (SOW) of each lot (attached separately).</p> <p>NOTA BENE: Bidders must include proof of ownership (vehicle registration) or proof of car lease.</p>	
Financial Evaluation	<p>Detailed analysis of the price schedule based on requirements listed in Section 5 and quoted for by the bidders in Form F.</p> <ul style="list-style-type: none"> • The evaluation will be undertaken in mutual exclusive basis per Lot. • Price comparison shall be based on the landed price, including transportation, insurance and the total cost of ownership (including spare parts, consumption, installation, commissioning, training, special packaging, etc., where applicable) Comparison with budget/internal estimates. • Incomplete BOQ (missing lines) will result in the disqualification of the offer. • Line comparison with the current market prices of commodities 	Form F: Price Schedule Form

Section 5a: Schedule of Requirements and Technical Specifications/Bill of Quantities

ITB Scope of the Works (SoW) and Work Schedules

GENERAL INFORMATION

Works Description:	Construction of Water Distribution Networks in Sixteen (16) locations in The Gambia
Project/Program Title:	Project for Accelerated Community Development (PACD) – Rural Water Supply
Design Review Unique ID:	
Workstation:	All Regions of The Gambia
Type of the Contract:	
Construction Duration:	3 months
Expected Start Date:	28 June 2021

I. PROJECT BACKGROUND

The Project for Accelerated Community Development (PACD) is being implemented by the United Nations Development Project (UNDP) in partnership with the Government of The Gambia (GoTG) with funding by GoTG, UNDP and other stakeholders. The Project is being implemented in coordination with the Department of Water Resources of The Gambia.

This Project is for the provision of safe drinking water to the rural poor in The Gambia. It will be a continuation of previous endeavors in the rural water supply sector funded by the Government of The Gambia and its Development Partners since the 1980's. These interventions have initially largely been in the form of hand dug wells equipped with hand pumps. However, with the advent of solar water pumping technology in the 1990's, solar powered piped water supply systems became the systems of choice applied for medium and large rural communities in the country.

II. GENERAL DESCRIPTION OF THE WORKS

The project is in one component, which involves:

- i. Supply of UPVC pipes and fittings;
- ii. Excavation of trenches, laying of pipes, installation of fittings and backfilling of trenches
- iii. Construction of Reinforced Concrete tap stands;
- iv. Disinfection and testing of systems

III. SPECIFICATIONS

Technical Specifications for the Construction of Water Distribution Networks in Sixteen (16) locations in The Gambia

1.0 Locations

No	Region	Districts	Name of Borehole site
LOT #1			
1	WCR	Brikama North	Bonsa
2	LRR	Kiang West	Manduar

3	LRR	Kiang East	Kolior Nyamala, Sula and Jallow
4	CRR	Niani	Kayai
5	CRR	Fulladou West	Njorem and Sankabary
LOT #2:			
6	URR	Wulli East	Sare Modou Jawo, Sakoli Kunda and
7	URR	Wulli East	Mureh Kunda and Sare Wuro
8	URR	Wulli West	Manakoto Foday and Keita
9	URR	Fulladu East	Bisandougou
10	NBR	Upper Nuimi	Kabakoto (Ker Ousman Busso) and Malick Nana
LOT #3			
11	NBR	Jokadu	Kerr Jain, Kerr Njugari and Kerr Wally
12	NBR	Sabach Sanjal	Yallal Ba and Numu Kunda
13	NBR	Sabach Sanjal	Bambally
14	CRR	Niani	Kass Wollof and Fula
15	CRR	Niani	Pallol Wollof and Fula
16	URR	Jimara	Sandi Kunda

1.1 SCOPE OF WORK

1.1.1 General

The work in this division of the specifications comprises the provisions of all labour, supervision, materials, equipment, accessories, services, tests and maintenance necessary for complete water supply system, as set on the design drawings and also as set forth in this specifications, delivered to the owner in perfect operating condition.

The included tasks shall be as set forth in the following paragraphs:

- Water supply network (piping –fittings – accessories).

1.2.2 Related Civil Work

Civil works under this division shall include all civil works related to the water supply system, such as reinforced concrete for tap stands, cutting through roads and slabs for the passage of pipes, pipe sleeves, re-patching, excavating and backfilling.

- 1.2.3 Where items or equipment are specified in the singular it shall not be construed as limiting the quantity to one, the Contractor shall furnish and install the required quantity or that item indicated on the drawings.
-

Whenever the word provide is used it shall mean furnish and install complete and ready for use.

Equipment capacities and performance requirements shall be as listed in the schedule of equipment.

1.2.4 The Contractor shall perform all cutting, fitting, drilling and other operations required to accommodate other trades works, and shall protect all pipe work during subsequent operations, make good any defect, clear away upon completion. Clean throughout and leave all work in suitable condition to the satisfaction of the Engineer.

1.2.5 All accessories of other items essential to the completeness of works, though not specially shown on the drawings or specified shall be also provided under this section.

All pipe work and equipment shall be installed by only skilled workmen experienced in this field.

1.2.6 The Contractor must be sure that he can obtain the required equipment and pipes as indicated in every item. Any apology will not be accepted from him during the work. The Client reserves the right to purchase and/or execute on the expense of the Contract conditions and specifications in due whatever prices may be

1.2.7 Document's Submittals

1.2.7.1 Documents and Drawings to be presented by the Successful Contractor:

Detailed lists of equipment and devices, construction work materials and subcontractors.

Lists of the drawings to be submitted and their schedule.

Documents describing equipment operation.

The necessary samples for piping and fittings, and all accessories for the approval before supplying & installation.

Material lists (indicating type, model number, size and usage)

Test records of pipes.

Monthly progress reports.

1.2.8.1 Documents to be presented after Completion of Construction:

- Final drawings (outline drawings and elementary diagrams, etc)
 - Final descriptions of operation and control units.
 - As built drawings for installation work.
 - Records of tests and adjustments.
 - Details of the delivered articles (including those of spare parts).
 - Original technical catalogues of all materials
 - Operation & maintenance manuals.
-

2. PIPING AND MATERIALS

2.1 GENERAL

2.1.1 Description

This section covers the furnishing and installation and testing of water supply network includes pipes and fittings.

2.1.2 Submittal

The Contractor shall submit the following items to the Engineer for review before commencing work:

- 2.1.2.1 Certificate of compliance stating that the material used in the construction of pipes and fittings conform to all requirements of this specification.
- 2.1.2.2 Certified copies of manufacturer's certificates of testing of U.P.V.C. pipes including test data to show that all tests specified have been performed and all requirements have been met.
- 2.1.2.3 Catalogue data for all piping accessories, pipes and fittings showing all dimensions, cross-sections, illustrations and schedule of parts to facilitate assembly and disassembly.
- 2.1.2.4 Samples of materials as required by the Owner.
- 2.1.2.5 Joint detail drawings and joint assembly procedures.
- 2.1.2.6 Temperature-pressure ratings of pipes, fittings and piping accessories.
- 2.1.2.7 Manufacturers recommendation for transporting, handling, loading, unloading, stock piling and storage of materials.
- 2.1.2.8 A description of the external corrosion protection coating or wrapping materials being provided for the buried pipe work. The submittal shall include manufacturer's information sheets covering cleaning, priming and coating procedures for shop application of the pipe coatings and field application of the joint wraps and polyethylene sleeving.
- 2.1.2.9 Procedures for unloading, storing, retrieving, including protection from ultra-violet radiation of pipes and fittings as necessary.
- 2.1.2.10 Catalogue cuts, dimensions, materials and manufacturer's installation instructions of mechanical pipe couplings.
- 2.1.2.11 Manufacturer's Quality Control and Quality Assurance Program related to the production, testing, crating, storage, loading, shipping and job site unloading of piping.

2.1.3 Product Handling

All pipe products, fittings and piping accessories shall be delivered in manufacturer's original, protective packaging.

All products, fittings and piping accessories shall be inspected at time of delivery for damage and for compliance with specifications.

Any products, that are damaged or found not to be in accordance with the Specifications shall be immediately repaired or replaced.

All products shall be handled and stored as recommended by the manufacturer to prevent damage and deterioration.

The Contractor shall supply handling equipment such as lifting beams, reinforced canvas slings, protective padding, struts, cradles, etc., required to install products without damaging hardware or linings and coatings.

The Contractor shall unload all products singly from trucks or lorries. Unless cranes are used, pipes shall be unloaded by means of skids and check ropes and no pipe shall be dropped or be allowed to roll.

Each pipe unit shall be site stored, stacked and handled into its position in the trench only in such manner, and by such means, that affords total protection for it from damage of any kind. Site stacking of pipe work shall not be deformed or damaged in any way through storage or retrieval. The manufacturer's recommendations shall be taken as the minimum requirement. All site storage areas for U.P.V.C. shall be shaded.

The Contractor shall observe and implement as part of his field procedures the following requirements for U.P.V.C. piping:

- 2.1.3.1 U.P.V.C. pipes shall be stacked on a reasonably flat surface free from sharp projections, stones or other protuberances likely to deform them. It may be necessary to level the ground at the storage point by means of a bulldozer or vehicle fitted with a scraper blade in order that pipes may be uniformly supported throughout their length.
 - 2.1.3.2 Side supports in the form of wooden posts, not less than 75 mm wide, shall be provided at not more than 1500 mm intervals along the pipe length. Stack widths shall not exceed 3000 mm.
 - 2.1.3.3 When socketed pipes are stacked, the sockets shall be placed at alternate ends of the stack with the sockets protruding so that pipes are evenly supported along their entire length.
 - 2.1.3.4 Height of pipe stacks shall not exceed four (4) layers of pipe or one (1) meter whichever is less.
 - 2.1.3.5 Pipes of different sizes or wall thickness shall be stored separately, or where this is not possible, those with larger diameters and thicker walls shall be at the bottom.
 - 2.1.3.6 No pipes shall be exposed to the direct sunlight for more than two (2) weeks during storage, transportation, handling and/or installation. The pipes shall be stored under a protective tarpaulin cover, which shall not leave any pipe surface or pipe ends exposed. The cover shall be arranged to allow air circulation within its volume of confinement by fixing tarpaulin to wooden support posts.
 - 2.1.3.7 Fittings shall be stored under shade conditions preferably in boxes or sacks which allow a free passage of air.
 - 2.1.3.8 When loading, unloading or retrieving pipes from storage, they shall be handled carefully so as not to score, impact crack, abrasion damage, gauge or cut, or other damage prior to installation. Pipes shall not be dropped but shall be lowered into trenches. Bell joints shall not be stressed and level ends shall not be damaged. Pipes shall be lowered from trucks, not dropped.
 - 2.1.3.9 U.P.V.C. pipes shall be transported to the job site in a special pile rack type containerized units to facilitate loading, unloading, on site storage, retrieval and protection of piping from sunlight and ultraviolet (UV) radiation.
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When repairing already installed U.P.V.C. piping systems, pipes shall not be exposed to the sun, but shall be covered against solar radiation exposure.

Full consideration shall be given to safety aspects when locating, planning and constructing stacking areas and whilst stacking pipes.

Consideration should be given to any visible deterioration in U.P.V.C. piping. If any signs of discoloration are seen the pipe should be rejected due to harmful effects of exposure to ultra violet.

2.1.4 Quality Control

The Contractor shall be responsible for the quality of all work and material to be used in the Work and shall propose a program for inspection and testing, to achieve the specified quality. Quality Control Program shall include U.P.V.C. pipe manufacturing, packaging, factory storage, retrieval, loading and transportation to job site.

The Contractor shall maintain a qualified representative on-site during all operations.

2.2 Products

2.2.1 General

All pipes shall be of the pressure class and diameters as given on the Bill of Quantities sheet or indicated in the Specifications.

2.2.2 Pipes

All materials shall be suitable for application in the environmental conditions at the Work Site and for use with a water temperature of more than 45 °C. Exterior wrappings shall be shop applied. The pipe shall be cleaned, primed and wrapped as per the manufacturer's recommendations. Wrap shall be heavy duty, self-adhesive U.P.V.C. or polyethylene backed carrier strips and applied to a minimum thickness of 1.78 mm. Cutbacks of the wrapping shall be wide enough to clear pipe joint fittings by 125 ± 25 mm. The spigot end of pipe joints shall not be coated.

An alternative to the above shop wrapping shall be a hot applied polyethylene outer wrap over a rubber adhesive. The outer polyethylene coating shall be a continuous film applied by an extrusion process or by fusion of the outer wrap layers. Cleaning, priming and application shall be as per the manufacturer's recommendations.

The field joints shall be wrapped after each pipe joint is completed. Compatible filler tapes and/or molding mastic putty shall be used to build up smooth contours prior to application of the field joint wrap. Field wrap materials shall be compatible with the shop applied wrap and should include heat shrinkable sleeves. Cleaning, priming, and wrapping shall be in accordance with the manufacturer's recommendations.

2.2.2.1 Unplasticized plastic polyvinyl chloride (U.P.V.C.) pipes:

U.P.V.C. pipes shall conform to BSS 4664 & BSS 5481 and shall be handled and stored as specified

according to the paragraph of (Product Handling).

pipes for mains and submains diameters 100 mm shall be unplasticized polyvinyl chloride (U.P.V.C.) and shall be of pressure PN 6, suitable for testing pressure of 6 Bars.

For diameters 100 mm, fittings shall be U.P.V.C. conforming to AWWA C907 , suitable for testing pressure of 6 Bars and shall be tested in accordance with the requirement of AWWA C907.

2.2.3 Fittings

2.2.3.1 General

Fittings shall include elbows, tees, reducers, general adapters, adapters that may be required to accommodate different international standards for piping, and piping accessories as required and shown on the drawings.

All fittings shall be of the same class and not less than the pipe work with which they are to be used.

2.2.3.2 Fittings for U.P.V.C. pipes

U.P.V.C. piping systems fittings shall be of U.P.V.C. and shall be compatible with the pressure ratings of adjacent piping.

U.P.V.C. fittings do not require lining or coating systems.

2.3 Execution

2.3.1 Inspection

The Contractor shall inspect all products for damage immediately before installation. Any products that are damaged or not in accordance with the specifications shall immediately be removed from the site and replaced.

2.3.2 Trenching, Bedding, Backfilling and Compacting

Trenches shall be made as narrow as practicable or to the minimum widths specified (500mm) and Minimum depth of 1000 mm but shall nevertheless provide sufficient room for the laying, jointing and testing of pipe work and utilities. The bottom of the excavation shall be kept dry and free from water at all times. In no case shall the earth be scraped or dug by machinery near to the bottom of the bedding formation level so as to result in the disturbance of the material below. Material at the bedding level shall be carefully removed by using hand tools just prior to the placing of the pipe. If the bottom of the trench is excavated beyond the limits indicated on the Contract Drawings or Specifications in order to remove rock or other unsuitable material, the resulting void shall be backfilled with a suitable fill material and compacted to at least 95% density in accordance with ASTM D 1557 or ASTM D 2049 as applicable

2.3.3 Pipe Work Installation

2.3.3.1 General

Coating cutbacks shall be prepared and the joint area cleaned and primed before the joint wrap is applied.

All pipes, fittings and other materials shall be carefully lowered into the trench.

Every precaution shall be taken to prevent any strange material from entering the pipe while it is being placed. If the pipe cannot be placed into the trench without getting earth into it, a heavy, tightly woven canvas bag of suitable size shall be placed over each end and left there until the connection is to be made to the adjacent pipe or fittings. During laying operations, no debris, tools, clothing, or other materials shall be placed in the pipe.

Bell and spigot pipe shall be laid with the bell end pointing in the direction of laying.

The full length of each section of pipe and fittings shall rest solidly on the pipe bed with recesses excavated to accommodate bells, joints and couplings. Anchors and supports shall be provided where necessary and where indicated on the drawings. Proper provision shall be made for expansion and contraction of pipelines.

Open ends of pipe at the end of each day's work, shall be closed temporarily with wood blocks or bulkheads. Pipe shall not be laid when the conditions of trench or weather are unsuitable.

Wherever jointing is specified with cement mortar, six or more lengths of pipe shall be in place ahead of each joint before such joint is finished.

The cutting of pipe for inserting fittings, or closure pieces shall be done in a neat and workmanlike manner without damage to the pipe or lining and so as to leave a smooth end at right angles to the longitudinal axis of the pipe. When machine cutting is not available for cutting pipe 500 mm in diameter or larger, the electric-arc cutting method shall be permitted. Only qualified and experienced workmen shall execute this work. Flame cutting of pipe by means of an oxyacetylene torch shall not be allowed.

All pipe work shall be installed in accordance with the manufacturer's instructions and these specifications.

2.3.3.2 Jointing of mechanical joint pipe

When joining a mechanical joint pipe, the last 200 mm of the spigot and inside of the bell shall be thoroughly cleaned to remove oil, grit, excess coating and other foreign matter from the joint and then painted with a soap solution made by dissolving one half cup of granulated soap in four (4) liters of water. The gland shall then be slipped on the spigot end of the pipe with the lip extension of the gland toward the socket or bell end. The rubber gasket shall also be painted with the soap solution and placed on the spigot end with the thick edge toward the gland.

The entire section of the pipe shall be pushed forward to set the spigot end in the bell. The gasket shall then be exercised to locate the gasket evenly around the entire joint. The gland shall be moved along the pipe into position for bolting, all the bolts inserted, and the nuts screwed up tightly with the fingers. All nuts shall be tightened with a torque-limiting wrench. Nuts spaced 180° apart shall be tightened alternately in order to produce equal pressure on all parts of the gland.

2.3.3.3 U.P.V.C. piping

Pipes and fittings shall be installed in accordance with ASTM D 2774.

Joints in U.P.V.C. pipes shall be as follows:

2.3.3.3.1 Solvent cemented joints shall be made in accordance with ASTM D 2855 or as specified.

2.3.3.3.2 Flexible joints shall be made in accordance with ASTM D 3139 or as specified.

All pipes and fittings less than 50 mm diameter shall have solvent cement type joints.

All pipes and fittings 50 mm diameter and above shall have flexible elastomeric sealing ring joints to the approval of the Owner.

2.3.4 Concrete Reinforcement

2.3.4.1 Description

Furnish all labor, materials, tools, equipment and services for concrete reinforcement, in accordance with provisions of Contract Documents & technical specifications civil works.

2.3.4.2 Quality Assurance

2.3.4.2.1 Bars used for R.C. shall meet the requirements of B.S and equivalent international standards.

2.3.4.2.2 Adhesion for epoxy- Coated bars

Adhesion is evaluated by making 120° bend tests around mandrels of specified diameters. No cracking or disbanding of the coating visible to the naked eye on the outside radius of the bent bar is permitted. This test also serves to demonstrate practical bendability of coated bars.

2.3.4.3 Submittal

Shop drawing and design calculations: contractor shall submit design calculations as necessary and shop drawings for all structures related to the piping system for review and approval before construction without any extra cost to the Owner. Shop drawings shall indicate all dimensions and locations of reinforcing steel and accessories in sufficient detail to permit installation of reinforcing without reference to Contract drawings.

2.3.4.4 Materials

Refer to the technical specification of civil works

2.3.4.5 Execution

2.3.4.5.1 Placing Reinforcement

- Provide minimum concrete cover for reinforcement as indicated on drawings and technical specification of civil works.

- Assure that reinforcement, at time concrete is placed, is free of materials that may adversely affect or reduce bond. Reinforcement with rust, mill scale or a combination of both will be accepted as being satisfactory without cleaning or brushing provided dimensions and weights, including heights of deformations, or a cleaned sample is not less than required by applicable ASTM.

2.3.4.5.2 Placing of Epoxy Coated Reinforcing Bars

In general, placing of epoxy-coating reinforcing bars is done similarly as for uncoated bars. The key exception is that coated bars require more careful handling and placing. The same hoisting and handling methods and precautions as discussed above for unloading coated bars from a truck should be used and followed during all placing operations.

Once bundles of coated bars have been broken, dragging one bar over another or over any abrasive surface should be avoided. Using common sense precautions should minimize coating damage during placing operations. Experience has shown that with such normal common-sense considerations, repair of damaged coating or field touch-up is seldom necessary

2.3.4.5.3 Handling Recommendation

In loading and unloading epoxy-coated reinforcing bars from a truck, care must be exercised to minimize scraping of the bundles or bar-to-bar abrasion from sags in the bundles. Do not skid the bundles of bars from the truck bed to the ground ("bar off"). Use power-hoisting equipment for unloading and handling the bundles. Equipment for handling the bars should have protected contact areas. Nylon sling or padded wire rope slings should be used. Bundles of coated bar should be lifted at multiple pick-up points. Hoisting with a spreader beam or similar device is an effective method of preventing sags in bundles of coated bars.

Epoxy-coated bars should be covered with nylon sheets and stored on timbers or other suitable protective cribbing. Reinforcing bars, and in particular coated bars, should be stored as close as possible to the area where they will be placed in the structure to keep handling operations to a minimum. Coated bars or bundles of coated bars should not be dropped or dragged.

2.3.4.5.4 Storage of Epoxy-Coated Reinforcing Bars

The following storage practices are suggested to prevent deterioration of the coating:

- Store the bars above the ground on timbers or other suitable protective cribbing, space the blocking close enough to prevent sags in the bundles.
- If a relatively large quantity of bars has to be stored in a small area, bundles of straight bars should be stacked with adequate blocking placed between the layers of bundles.
- Cover the bars or bundles with opaque polyethylene sheeting or other suitable protective material. For stacked bundles, drape the protective covering over the sides of the bundles around the perimeter of the stack. Secure the covering adequately.

2.3.4.5.5 Field Cutting

Field cutting of reinforcing bars, whether uncoated or coated, should be done only if permitted by the Engineer. Cut ends should be coated with the same material that is used for the repair of damage coating. Coating damage and field touch-up can be reduced by saw cutting rather than flame cutting.

2.3.5 Cast-In-Place Concrete

2.3.5.1 Description

Furnish all labor, materials, tools, equipment, and services for concrete mixing, placing, jointing and curing, in accordance with provisions of Contract Documents.

Completely co-ordinate with work of other disciplines.

Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure, and complete installation.

2.4.4.4.1 Protection

- Unless adequate protection is provided and approval is obtained, do not place concrete during heavy rain, or dust storms.
- Do not allow rainwater to increase mixing water nor to damage surface finish.
- Temperature of concrete as placed shall not be so high as to cause difficulty from loss of slump, flash set, or cold joints. When temperature of concrete exceeds 32 °C use precautionary measures approved by the Engineer.

2.4.4.4.2 Conveying

- Handle concrete from mixer to place of final deposit as rapidly as practicable by methods which will prevent segregation or loss of ingredients and assure that required quality of concrete is maintained.
- Use truck mixers, agitators, and nonagitating units conforming to ASTM C94.
- Use horizontal belt conveyors or mount at a slope which will not cause excessive segregation or loss of ingredients. Protect concrete against undue drying or rise in temperature. Use an approved arrangement at discharge end to prevent segregation. Do not allow mortar to adhere to return length of belt. Discharge long runs into a hopper or through a baffle.
- Use metal or metal lined chutes with slope not exceeding 1 vertical to 2 horizontal and not less than 1 vertical to 3 horizontal. Chutes more than 6 M long and chutes not meeting slope requirements may be used provided they discharge into a hopper before distribution.
- Pumping or pneumatic conveying equipment shall be of suitable kind with adequate pumping capacity. Control pneumatic placement so that segregation is not apparent in discharged concrete. Loss of slump in pumping or pneumatic conveying equipment shall not exceed 50 mm. Do not convey concrete through pipe made of aluminum or aluminum alloy.
- Other method subject to Owner approval such as crane equipped with hopper, could be used.

2.4.4.4.3 Depositing

- General: Deposit concrete continuously or in layers of such thickness that no concrete is deposited on concrete which has hardened sufficiently to cause formation of seams or planes of weakness within section. If a section cannot be placed continuously, locate construction joints as indicated (or required by shop drawing). Place at such a rate that concrete which is being integrated with fresh concrete is still plastic. Do not deposit concrete which has partially hardened or has been contaminated by foreign materials. Remove temporary spreaders in forms when concrete placing has reached an elevation rendering their service unnecessary. They may remain embedded in concrete only if made of metal or concrete and if prior approval has been obtained.
 - Do not start placing of concrete in supported elements until concrete previously placed in columns and walls is no longer plastic and has been in place at least two hours.
 - Deposit concrete as nearly as practicable in its final position to avoid segregation due to re-handling or flowing. Do not subject concrete to any procedure which will cause segregation.
 - Consolidation: Consolidate all concrete by vibration, so that concrete is thoroughly worked around reinforcement, around embedded items and into corners of forms eliminating all air or stone pockets which may cause honeycombing, pitting, or planes of weakness. Use internal vibrators having a minimum frequency of 8000 vibrations per minute to consolidate concrete effectively. Do not use vibrators to transport concrete within forms. Insert vibrators and withdraw at points approximately (450 mm) apart. At each insertion allow duration sufficient to consolidate concrete but not sufficient to cause segregation; generally from 5 to 15
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seconds. Keep a spare vibrator on job site during all concrete placing operations. Where concrete is to have an as cast finish, bring a full surface of mortar against form by vibration process, supplemented if necessary by spading, to work coarse aggregate back from formed surface.

- Place unreinforced concrete, placed directly on earth on a vapour barrier: Damp proofing and only as shown on drawings.

2.4.4.4.4 Joints and Embedded Items

2.4.4.4.4.1 Construction joints: Locate joints as indicated on drawing. If not indicated, locate joints so as to least impair strength of structure, subject to the Owner/Engineer approval.

2.4.4.4.4.2 Movement joints: Do not permit reinforcement or other embedded metal items bonded to concrete (except dowels in floors bonded on only one side of joints) to extend continuously through any movement joint. Locate movement joints as indicated.

2.4.4.4.4.3 Place all sleeves, inserts, anchors, and embedded items required for adjoining work or for its support, prior to concreting.

- Give Contractors whose work is related to concrete or supported by it ample notice and opportunity to introduce and/or furnish embedded items before concrete placement.
- Position movement and isolation joint material and other embedded items accurately and support against displacement. Fill voids in sleeves, inserts and anchor slots temporarily with readily removable material to prevent entry of concrete.

3.1.1 System Testing

3.1.1.1 General:

- The Contractor shall ensure that all pipe work is watertight to the satisfaction of the Owner/Engineer and shall supply all pressure gauges, meters, hoses, pumps and other temporary supports and equipment necessary for carrying out pressure tests.
- The Contractor shall, during testing, check the satisfactory operation of each valve installed under the Contract.

3.1.1.2 Initial system test:

- Pressure mains shall be tested with water to the required pressure while uncovered but adequately anchored. The testing shall be carried out when lengths of pipe work not exceeding 1000 meters have been laid or when shorter lengths of pipe work have been laid between valve positions or structures. If a length should fail the test, the Contractor shall trace and repair all leaks and defects and retest the length before any further pipes or sections of adjacent pipe work are laid.
 - Before filling or pressure testing is started the Contractor shall recheck pipes and valves for clean-lines and shall recheck the operation of valves. The open ends of the pipeline or sections shall normally be stopped off by blank flanges or capped ends additionally secured where necessary by temporary struts and wedges. All thrust blocks and valve chambers shall be completed with back-fill placed around them and the concrete shall have attained its specified 28 day strength and all pipe straps and other devices intended to prevent the movement of pipes shall have been securely fastened.
 - The section of the pipeline to be tested shall be filled with potable water and all air expelled. After the pipeline has been completely filled, the pressure shall be steadily and gradually increased until the test pressure has been reached. The duration of each pressure test shall be adequate settlement and jointing to stabilize or a minimum of four (4) hours, whichever shall be the greater. A graph shall be produced showing the run until the graph curve flattens out.
 - The section under test is to be maintained full of water for a period of twenty-four (24) hours prior
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to the start of the pressure and leakage test.

- During the test, all couplings, fittings valves etc. shall be carefully examined for defects and leakage. Leaking couplings, fitting, valves etc shall be repaired or replaced and the section re-tested as previously specified.

3.1.1.3 Final system test:

The test as specified above shall be repeated after the pipelines have been backfilled, cleaned and inspected.

3.1.1.4 Test results:

Written records of every test clearly identifying the tested section of the pipe together with time of test and name of testing engineer in tabulated format shall be submitted for review by the Owner upon completion of the test.

3.2 DISINFECTION OF DOMESTIC WATER LINES

3.2.1 Description

Requirements included:

3.2.1.1 Provide personnel, equipment and supplies, to disinfect domestic water systems and flush out system at completion of work. All water piping will be cleaned, Flushed and disinfected conforming to WHO specifications.

3.2.1.2 See Section 1 for General Requirements.

3.2.2 Definitions

Disinfectant Residual means the quality of disinfectant in water.

pH factor means the measure of alkalinity and acidity in water.

ppm means parts per million.

3.2.3 Protection

Provide necessary signs, barricades, and notices to prevent any person from accidentally consuming water or disturbing system being disinfected.

3.2.4 Materials

3.2.4.1 Disinfectant:
Free chlorine; liquid, powder, tablet, or gas.

3.2.4.2 Alkali:
Caustic Soda or Soda Ash.

3.2.4.3 Acid:
Hydrochloric (Muriatic) type.

3.2.5 Execution

- 3.2.5.1 Inspection:
- Prior to starting work verify that domestic water system is completed and cleaned.
 - Do not start work until conditions are satisfactory and defects are corrected.

- 3.2.5.2 Preparation of Water for Treatment:
- Verify pH factor of water to be treated.
 - If pH factor is less than 7.2, introduce sufficient Alkali during Disinfectant injection.
 - If pH factor is greater than 7.6, introduce sufficient Acid during Disinfectant injection.

3.2.5.3 System Treatment:

3.2.5.3.1 Inject disinfectant through the system to obtain 50 to 80 ppm residual.

3.2.5.3.2 Starting at outlet closest to water source, bleed water from each outlet until water produces odour of disinfectant. Report process at each outlet through the system.

3.2.5.3.3 Test for disinfectant residual at each of the following locations:

- Ends of piping runs.
 - Remote outlets.
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- At least 15% of outlets on each floor but in no case less than 2 outlets.

3.2.5.3.4 Maintain disinfectant in system for twenty-four (24) hours.

3.2.5.3.5 If disinfectant residual is less than 25 ppm, report system treatment.

3.2.5.4 Flushing:

Remove disinfectant from system; permit no more than residual rate of incoming water or 1.0 ppm, whichever is greater.

3.2.5.5 Bacteriological Test:

3.2.5.5.1 Instruct Bacteriological Laboratory to make water samples no sooner than twenty-four (24) hours after flushing system.

3.2.5.5.2 Take water samples at each of the following locations:

- Where water enters system.
- Ends of piping runs.
- Remote outlets.
- At least 25% of outlets on each floor other than those used for testing disinfectant residual, but in no case less than 2 outlets.

3.2.5.5.3 Analyze water samples in accordance with Standard Method for the Examination of Water in line with WHO requirements.

3.2.5.5.4 If bacteriological test proves water quality to be unacceptable, report system treatment.

IV. DRAWINGS

See Annex 1

V. BILLS OF QUANTITIES (BOQ)

See Annex 2

VI. PROGRAMME

The Contract Programme must be in such form and detail as the Employer's Representative requires and must contain as a minimum:

- (a) the order in which the Contractor proposes to carry out the Works;
- (b) the time limits within which submission of any Contractor's documents are required under the Contract.

The Contract Programme must be prepared in sufficient detail to ensure the adequate planning, execution and monitoring of the Works. The networked activities must be detailed enough to provide a meaningful measurement tool for progress of works.

The Contract Programme must also be resource loaded and include material, plant and labour.

The Contract Programme must be accompanied by and/or detail:

- (a) a general description of the **arrangements and methods** which the Contractor proposes to adopt for carrying out the Works;
- (b) the **critical path for the Works** and a complete critical path analysis for the execution of the Works which must show clearly the links between activities and the float times available within the Contract Programme and the earliest start/earliest finish and latest start/latest finish times for each and every activity;
- (c) The Preliminary Programme may be prepared in **MS Excel or MS Project**. The Outline Statement of Proposed methods demonstrates the Bidder's capacity to identify the core or sensitive components required to complete the works within the required quality expectations and indicated the approach that the Bidder intends to use in order to execute those components.
- (d) Details, and durations on Site, of the resources proposed to achieve the Contract Programme;
- (e) A schedule of all submittals and material procurement activities, including time for submittals, re-submittals and reviews and time for any fabrication and delivery of manufactured products.

VIII. REPORTING REQUIREMENTS

The contractor shall submit the below reports:

Monthly Report with the following minimum information:

- a. Monthly achievements against the monthly plan (activity update)
- b. Pictures of the works at each stage
- c. Challenges encountered and actions taken
- d. Detail work Plan for the next month as distinguished by weekly plans
- b. Other reports, which include:
 - a. Quality supervision and procedures made in the execution of the works;
 - b. Approvals made to construction resources on the basis of submittals, mock ups, tests, certificates, product catalogues etc...
 - c. Any changes, work orders and variations issued;
 - d. Any challenges and/or compensation events or unforeseeable obstructions;
 - e. Any defective works identified during supervision and proposal for rectifications;

IX. DOCUMENTATION

The contractor shall keep and make available as required the below documents:

- ☐ Drawings and specifications of works
 - ☐ Instructions given by the engineer on the site book
 - ☐ Any official letters/e-mail communications between the Consultant and the Contractor
 - ☐ Work plan
 - ☐ Monthly reports
 - ☐ Financial updates: Payments made and the outstanding balances
-

X. TIMING, MILESTONES

The Contractor shall comply with the following timing requirements:

- a. **Mobilization Period:** mobilization shall commence within ten (10) calendar days after signing of the contract. It shall include the following activities during this time:
 - ☐ Site Possession;
 - ☐ Setting out
 - ☐ Submission of Work Program;
 - ☐ Submission of Safety and Health (H&S) and Environment Management Plans;
 - ☐ Arrangement and submission of Bank Guarantee (BG) for Performance;
 - ☐ Site Preparations such as site office, storage areas, access to the workmen and equipment etc;
 - ☐ Resource Mobilization to the site; and
 - b. **Construction of Sub-structure:**
 - ☐ Excavation: Site Clearing, Excavation for pipeline trenches
 - ☐ Excavation: Excavation for tap stand soakaways
 - ☐ Concrete work: Reinforced concrete for tap stands and soakaways
 - ☐ Concrete work: mass concrete thrust blocks for end caps, TEEs and bends
 - ☐ Backfilling of pipeline trenches and
 - ☐ Backfill around the soakaways with selected material and well ram with 95% proctor
 - c. **Installation of pipes and fittings:**
 - ☐ Pipe laying
 - ☐ Installation of fittings
 - ☐ Connection of standpipes
 - ☐ Disinfection of system
 - ☐ Testing of system
-

d. Defects Liability Period (DLP): 12 Months

The following documents shall be presented upon completion of the work:

- ☐ Operation and Maintenance Manual;
- ☐ A snagging list identification and updating;
- ☐ Rectification of the snagging list;
- ☐ Final Handover paper – officially signed by partners including DWR, UNDP and Office of the President.

XI. ABBREVIATIONS

The following abbreviations have been used in the Bills of Quantities:

Abb.	Descriptions
kW	Kilo Watts
pcs	Pieces
lm	Linear Meters
m ²	square meter
M ³ /h	cubic meter per hour
mm	Millimeter
Nr.	Number
GMD	Gambian Dalasi
m ³	cubic meter
GMS	Galvanized mild steel
LS	Lump Sum
PN	Nominal Pressure

XII. ORGANIZATIONAL REQUIREMENTS AND KEY PERSONNEL

The prospective Bidder/Contractor is expected to meet the following minimum organizational requirements:

- ☐ Bidder must have a minimum of **Three (3) years'** experience in construction sector and satisfactorily completed at least **three (3)** similar nature and complexity projects in the last **three (3) years**. The Bidder must also demonstrate its ability to complete high quality works by attaching **at least three (3) references** with full contact details as per the template preferably from clients such as UN Agencies or other Development Agencies, international NGOs, Multinational companies, etc.;
- ☐ It should be **GC Three and above Category** certified by **legislative authority**
- ☐ Current Ratio (Current Asset / Current Liability) **MUST be at least 0.50**
- ☐ **Financial capability – Sales Turnover:** Bidders should have average annual sales turnover of **minimum**
LOT 1 : 120.000 USD
LOT 2: 120.000 USD
LOT 3 : 200.000 USD
in
the last three (3) years;
- ☐ Prospect Contractor/Bidder must demonstrate financial capacity through provision of the past **three RECENT AUDITED FINANCIAL STATEMENTS, since 2018;**
- ☐ Prospect Contractor/Bidder in its technical proposal shall demonstrate its capabilities and understanding of the Scope of Works (SOWs), Bill of Quantities (BoQ) and Drawings.
- ☐ **At Least Three (3) such references** must be declared and duly signed and stamped testimonials are attached by the Bidder with full contact details.
- ☐ Experience working with UN, other international organizations and/or NGOs is advantageous.
- ☐ Provide a brief description of the organization / firm financial standing which clearly indicate its financial strength to Technical Panel who will appraise the proposal.
- ☐ Provide tabular summary of the respective Audited Financial and/or its equivalent Statements (Income Statement and Balance Sheet) **in the last two (2) years.**
- ☐ There should not be any adverse report regarding the construction service for at least three (3) years preceding the date of bid opening;

- ☐ The Bidder must demonstrate that it will have the personnel for the key positions that meet the following requirements **per lot:**

No.	Position	Number	Minimum Qualification	Total Work Experience (years)	In Similar Works Experience (years)
1	Project Manager	1	Bsc Engineering	10	7
2	Contract Foreman	1	HND Civil Engineering	5	5
3	Surveyor	1	OND Technician	5	5
4	Pipe fitter	2	Technician certificate	5	5
5	Plumber	2	Technician Certificate	5	5

XIII. ESSENTIAL EQUIPMENT / MACHINERIES REQUIREMENTS

A Bidder/Contractor must avail at least the following equipment and/or assets in order to successfully carry out the construction project in the specified sites **per Lot**. **Certificates of Ownership for those assets/machineries and/or Lease/Rent agreement MUST be attached along** with the "ITB Returnable Bidding Document"

No.	Equipment Type and Characteristics	Minimum Number required
1	Utility Truck (Min 5 Tonne Capacity)	2
2	Concrete Mixer	2
3	Concrete Vibrator	2
4	Water Bowser	2
5	Crane Truck	1
6	Excavator	2

XIV. PAYMENT MODALITY AND AUTHORITY

Prospective Contractor/Bidder shall be paid on Measure and Pay modality and only after Approving Authority of the project confirms the successful completion as per respective Bill of Quantities (BoQs) set for each sites in this ITB.

XV. INSURANCE POLICY REQUIREMENTS

Prospect Bidders/Contractors are required to specify and attach the following insurance policies along the Returnable Bidding Document:

1. Construction All Risks Insurance/Third Party Liability Insurance
2. Workers' Compensation/Employer's Liability Insurance
3. Contractor's Plant and Equipment Insurance
4. Motor Insurance

II. ANNEXES TO THE SCOPE OF WORKS (SOW)

Detail structural drawings are attached as Annex 1.

III. BILL OF QUANTITIES (BoQ)

Excel copies of the BoQs below are provided in annex 2

LOT # 1:

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN BONSA

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	120		
	- 50 mm	L.m	2000		
	- 100 mm	L.m	800		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	2		
	100 mm X 100 mm	No.	3		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	4		
	50 mm X 90 Degres	No.	5		
	100 mm X 45 Degres	No.	2		
	100 mm X 90 Degres	No.	2		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	12		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	4		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	4		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	12		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
	Total of potable water distribution network				

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLLOING IN MANDUAR

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	200		
	- 50 mm	L.m	1350		
	- 100 mm	L.m	700		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	3		
	100 mm X 50 mm	No.	2		
	100 mm X 100 mm	No.	2		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	2		
	50 mm X 90 Degres	No.	4		
	100 mm X 45 Degres	No.	3		
	100 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	14		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	6		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	3		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	14		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
9	Crossing of theSankandi Karantaba Laterite Road. Quotation should include all material including ducting and labour required to return the road to its original state	No	2		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN KOLIOR NYAMALA, KOLIOR SULA AND JALLOW KUNDA

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	260		
	- 50 mm	L.m	950		
	- 75 mm	L.m	900		
	- 100 mm	L.m	1370		
	- 150 mm	L.m	400		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	1		
	100 mm X 100 mm	No.	2		
	150 mm X 50 mm	No.	2		
	150 mm X 75 mm	No.	4		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	2		
	50 mm X 90 Degres	No.	6		
	75 mm X 90 Degres	No.	1		
	100 mm X 45 Degres	No.	4		
	100 mm X 90 Degres	No.	1		
	150 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	26		
5	Supply, install, test & commission uPVC End Caps				
	50 mm	No.	6		
	75 mm	No.	3		
	100 mm	No.	1		
6	Supply, install, test & commission Underground uPVC reducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	75 mm X 50 mm	No.	1		
	100 mm X 50 mm	No.	2		
	150 mm X 100 mm	No.	1		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	26		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
9	Crossing of the Banjul - Soma highway. Quotation should include all material including ducting and labour required to return the road to its original state	No	1		
	Total of potable water distribution network				

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN KAYAI

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	200		
	- 50 mm	L.m	1500		
	- 100 mm	L.m	300		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	4		
	100 mm X 50 mm	No.	1		
	100 mm X 100 mm	No.	2		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	10		
	50 mm X 90 Degres	No.	6		
	100 mm X 45 Degres	No.	4		
	100 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	16		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	8		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	3		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	16		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN NJOREM AND SANKABARRY

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	300		
	- 50 mm	L.m	1200		
	- 100 mm	L.m	700		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	4		
	100 mm X 50 mm	No.	5		
	100 mm X 100 mm	No.	1		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	4		
	50 mm X 90 Degres	No.	6		
	100 mm X 45 Degres	No.	2		
	100 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	19		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	12		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	3		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	19		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

LOT# 2:

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN SARE MODOU JAWO, SANKOLI KUNDA AND SANDI KUNDA					
Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	160		
	- 50 mm	L.m	880		
	- 100 mm	L.m	1010		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	2		
	100 mm X 50 mm	No.	1		
	100 mm X 100 mm	No.	5		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	4		
	50 mm X 90 Degres	No.	4		
	100 mm X 45 Degres	No.	1		
	100 mm X 90 Degres	No.	3		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	16		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	9		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	6		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	16		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN MUREH KUNDA AND SARE WURO

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	170		
	- 50 mm	L.m	1450		
	- 100 mm	L.m	800		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	7		
	100 mm X 50 mm	No.	1		
	100 mm X 100 mm	No.	3		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	2		
	50 mm X 90 Degres	No.	6		
	100 mm X 45 Degres	No.	2		
	100 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	17		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	11		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	4		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	17		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN MAMAKOTO FODAY AND MAMAKOTO KEITA

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	90		
	- 50 mm	L.m	250		
	- 100 mm	L.m	330		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	1		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	1		
	50 mm X 90 Degres	No.	1		
	100 mm X 45 Degres	No.	1		
	100 mm X 90 Degres	No.	3		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	9		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	2		
6	Supply, install, test & commission Underground uPVC reducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	1		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	9		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN BISANDOUGOU

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the following:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	200		
	- 50 mm	L.m	1950		
	- 100 mm	L.m	550		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	8		
	100 mm X 100 mm	No.	3		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	9		
	50 mm X 90 Degres	No.	6		
	100 mm X 45 Degres	No.	3		
	100 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	17		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	10		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	4		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	17		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

**THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN KERR OUSMAN BUSO
(KABAKOTO) AND MALICK NANA**

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	320		
	- 50 mm	L.m	1650		
	- 100mm	L.m	1650		
	- 150 mm	L.m	200		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	1		
	100 mm X 50 mm	No.	7		
	100 mm X 100 mm	No.	1		
	150 mm X 50 mm	No.	2		
	150 mm X 150 mm	No.	1		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	2		
	50 mm X 90 Degres	No.	3		
	100 mm X 45 Degres	No.	3		
	100 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	28		
5	Supply, install, test & commission uPVC End Caps				
	50 mm	No.	12		
	100 mm	No.	1		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	150 mm X 100 mm	No.	1		
	150 mm X 50 mm	No.	1		
	100 mm X 50 mm	No.	1		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	28		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

LOT# 3:

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN KERR JAIN, KERR NJUGARI AND KERR WALLY

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	200		
	- 50 mm	L.m	2301		
	- 75 mm	L.m	840		
	- 100 mm	L.m	530		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	5		
	75 mm X 50 mm	No.	2		
	100 mm X 50 mm	No.	3		
	100 mm X 100 mm	No.	1		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	4		
	50 mm X 90 Degres	No.	2		
	75mm X 45 Degres	No.	1		
	75 mm X 90 Degres	No.	1		
	100 mm X 45 Degres	No.	1		
	100 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	16		
5	Supply, install, test & commission uPVC End Caps				
	50 mm	No.	11		
	100 mm	No.	1		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 75 mm	No.	1		
	75 mm X 50 mm	No.	1		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	16		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN YALLAL BA AND NUMU KUNDA

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	320		
	- 50 mm	L.m	1260		
	- 75 mm	L.m	1234		
	- 100 mm	L.m	540		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	1		
	75 mm X 50 mm	No.	6		
	100 mm X 50 mm	No.	5		
	100 mm X 100 mm	No.	3		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	2		
	50 mm X 90 Degres	No.	5		
	75mm X 45 Degres	No.	1		
	75 mm X 90 Degres	No.	2		
	100 mm X 45 Degres	No.	1		
	100 mm X 90 Degres	No.	2		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	32		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	13		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 75 mm	No.	2		
	100 mm X 50 mm	No.	2		
	75 mm X 50 mm	No.	1		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	32		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN BAMBALI

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	242		
	- 50 mm	L.m	1595		
	- 100 mm	L.m	913		
	- 150 mm	L.m	587		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	5		
	100 mm X 50 mm	No.	4		
	100 mm X 100 mm	No.	4		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	3		
	50 mm X 90 Degres	No.	5		
	100 mm X 90 Degres	No.	1		
	150 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	26		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	10		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	6		
	150 mm X 100 mm	No.	1		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	26		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN KASS WOLLOF AND FULA

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	200		
	- 50 mm	L.m	1423		
	- 75 mm	L.m	760		
	- 100 mm	L.m	374		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	7		
	75 mm X 50 mm	No.	2		
	100 mm X 75 mm	No.	1		
	100 mm X 100 mm	No.	2		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	10		
	50 mm X 90 Degres	No.	8		
	75mm X 45 Degres	No.	1		
	75 mm X 90 Degres	No.	1		
	100 mm X 45 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	20		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	6		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	2		
	75 mm X 50 mm	No.	2		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	20		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN PALLOL WOLLOF AND FULA

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	220		
	- 50 mm	L.m	1766		
	- 75 mm	L.m	430		
	- 100 mm	L.m	200		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	4		
	75 mm X 50 mm	No.	1		
	75 mm X 75 mm	No.	2		
	100 mm X 50 mm	No.	2		
	100 mm X 75 mm	No.	1		
	100 mm X 100 mm	No.	2		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	4		
	50 mm X 90 Degres	No.	6		
	75mm X 45 Degres	No.	1		
	75 mm X 90 Degres	No.	1		
	100 mm X 45 Degres	No.	1		
	100 mm X 90 Degres	No.	1		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	19		
5	Supply, install, test & commission uPVC End Caps 50 mm	No.	12		
6	Supply, install, test & commission Underground uPVCreducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 75 mm	No.	1		
	100 mm X 50 mm	No.	2		
	75 mm X 50 mm	No.	4		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	19		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
Total of potable water distribution network					

THE WORKS ARE FOR THE SUPPLY AND INSTALLATION OF THE FOLOWING IN SANDI KUNDA, BUSURA AND SARE TALATA

Item No.	Item Description	Unit	Quantity	Unit Price GMD	Total Price GMD
	Potable Water Distribution Networks				
	General Note:				
	All inserted rates shall include but not limited to the followings:				
	- Temporary support for excavation. The items include keeping excavation free from water until completion of work.				
	- Flushing and disinfecting of the system.				
	- Testing and commissioning the system.				
	- Excavation, back filling and compaction and restoration.				
1	Underground uPVC. pipe of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation. The item shall include trench excavation, back filling compaction, pipe embedment, and disposal of unsatisfactory material for the following diameters:				
	- 25 mm	L.m	300		
	- 50 mm	L.m	1268		
	- 100 mm	L.m	2793		
2	Supply, install, test & commission Underground uPVC TEE of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 50 mm	No.	2		
	100 mm X 50 mm	No.	9		
	100 mm X 100 mm	No.	7		
3	Supply, install, test & commission Underground uPVC bends of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	50 mm X 45 Degres	No.	2		
	50 mm X 90 Degres	No.	2		
	100 mm X 90 Degres	No.	3		
4	Supply, install, test & commission Saddle and Ferrule to connect stand pipes to the uPVC Pipes. The connection must be able to withstand water pressures of up to 6 bars. Alternatively, a TEE connection can be utilised to connect the stand pipes to the uPVC Pipes	No.	26		
5	Supply, install, test & commission uPVC End Caps				
	50 mm	No.	11		
	100 mm	No.	5		
6	Supply, install, test & commission Underground uPVC reducers of pressure rating 6 bars for water pipes including all fittings necessary to complete the installation for the following diameters:				
	100 mm X 50 mm	No.	2		
7	Supply and install Stand Pipes as given on Drawing. The quotation should include excavation for soakaway, reinforced concrete coakaway column rings, Reinforced concrete platforms, Adaptors, galvanised pipe, heavy duty tap heads etc	No.	26		
8	Concrete Thrust Blocks for TEES, Bends and End Caps	LS	1		
9	Crossing of the Soma - Basse highway. Quotation should include all material including ducting and labour required to return the road to its original state	LS	1		
Total of potable water distribution network					

Section 5b: Other Related Requirements

Payment terms and conditions

The Contract Price

The contract price shall be the value of the work in accordance and be subject to adjustments and/ or deductions in accordance with the Contract.

The contractor shall pay all taxes, duties and fees required to be paid by the contractor under the contract, and the contract price shall not be adjusted for any of those costs.

Advance payment

The amount of the advance payment shall not exceed 20% (twenty percent) of the contract price and the currencies in which it is to be paid are the same as the contract.

The contractor shall obtain an Advance Payment Guarantee in amounts and currencies equal to the advance payment and shall submit it to UNDP through the Engineer. The Guarantee shall be issued by an entity and from within a country to which UNDP gives consent.

The Advance Payment Guarantee shall be valid and enforceable until the advance payment has been repaid, but its amount may be progressively reduced by the amount repaid by the contractor as stated in the payment certificates and agreed between the contractor and the employer.

The advance payment shall be repaid through percentage deductions in the payment certificates.

Deductions shall commence in the Interim Payment Certificate (IPC) in which the total of all certified interim payments in the same currency as the advance payment exceeds 10% of the portion of the accepted amount payable

Deductions shall be made at the amortization rate of quarter (25%) of the amount of each IPC (excluding the advance payment and deductions) in the currencies and proportions of the advance payment, until such time as the advance payment has been repaid.

If the advance payment has not been repaid before the issue of the Taking-over Certificate for the Works, or before termination or Force Majeure, the whole of the balance then outstanding shall become due and payable by the contractor to the Employer.

Application of interim payments.

Schedule of payments

Payments under this contract shall be made in compliance with the Schedule of Payment specifying the instalments in which the Contract Price will be paid. The instalment will be agreed upon between the Contractor and the Employer prior to signing the contract.

The instalments will be paid by reference to the actual progress achieved by the Contractor in the execution of the Works as certified by the engineer.

Environmental and Social Management Obligations

The Contractor shall:

- Comply with all the country Environmental and Social requirements.
- Take care of all the national regulatory requirements
- Comply with all directives issued by the Engineer as necessary, or at the reasonable request of UNDP Gambia
- Submit to the Engineer the details of any accident as soon as practicable after its occurrence and, in the case of an accident, causing serious injury or death, shall inform the Engineer immediately.

Section 6: Returnable Bidding Forms / Checklist

This form serves as a checklist for preparation of your Bid. Please complete the Returnable Bidding Forms in accordance with the instructions in the forms and return them as part of your Bid submission. No alteration to format of forms shall be permitted and no substitution shall be accepted.

Before submitting your Bid, please ensure compliance with the Bid Submission instructions of the BDS 22.

Technical Bid:

Have you duly completed all the Returnable Bidding Forms?	
▪ Form A: Bid Submission Form	<input type="checkbox"/>
▪ Form B: Bidder Information Form	<input type="checkbox"/>
▪ Form C: Joint Venture/Consortium/ Association Information Form	<input type="checkbox"/>
▪ Form D: Qualification Form	<input type="checkbox"/>
▪ Form E: Format of Technical Bid/Bill of Quantities	<input type="checkbox"/>
▪ Form G: Form of Bid Security	
▪ [Add other forms as necessary]	<input type="checkbox"/>
Have you provided the required documents to establish compliance with the evaluation criteria in Section 4?	<input type="checkbox"/>

Price Schedule:

▪ Form F LOT 1: Bill of Quantities Lot 1	<input type="checkbox"/>
▪ Form F LOT 2: Bill of Quantities Lot 2	<input type="checkbox"/>
▪ Form F LOT 3: Bill of Quantities Lot 3	<input type="checkbox"/>

Form A: Bid Submission Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

We, the undersigned, offer to supply the goods and related services required for [Insert Title of goods and services] in accordance with your Invitation to Bid No. [Insert ITB Reference Number] and our Bid. We hereby submit our Bid, which includes this Technical Bid and Price Schedule.

Our attached Price Schedule is for the sum of [Insert amount in words and figures and indicate currency].

We hereby declare that our firm, its affiliates or subsidiaries or employees, including any JV/Consortium /Association members or subcontractors or suppliers for any part of the contract:

- a) is not under procurement prohibition by the United Nations, including but not limited to prohibitions derived from the Compendium of United Nations Security Council Sanctions Lists;

- b) have not been suspended, debarred, sanctioned or otherwise identified as ineligible by any UN Organization or the World Bank Group or any other international Organization;
- c) have no conflict of interest in accordance with Instruction to Bidders Clause 4;
- d) do not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with our firm in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15);
- e) have not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against them that could impair their operations in the foreseeable future;
- f) undertake not to engage in proscribed practices, including but not limited to corruption, fraud, coercion, collusion, obstruction, or any other unethical practice, with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN and we embrace the principles of the United Nations Supplier Code of Conduct and adhere to the principles of the United Nations Global Compact.

We declare that all the information and statements made in this Bid are true and we accept that any misinterpretation or misrepresentation contained in this Bid may lead to our disqualification and/or sanctioning by the UNDP.

We offer to supply the goods and related services in conformity with the Bidding documents, including the UNDP General Conditions of Contract and in accordance with the Schedule of Requirements and Technical Specifications.

Our Bid shall be valid and remain binding upon us for the period specified in the Bid Data Sheet.

We understand and recognize that you are not bound to accept any Bid you receive.

I, the undersigned, certify that I am duly authorized by [Insert Name of Bidder] to sign this Bid and bind it should UNDP accept this Bid.

Name: _____

Title: _____

Date: _____

Signature: _____

[Stamp with official stamp of the Bidder]

Form B: Bidder Information Form

Legal name of Bidder	[Complete]
Legal address	[Complete]
Year of registration	[Complete]
Bidder's Authorized Representative Information	Name and Title: [Complete] Telephone numbers: [Complete] Email: [Complete]
Are you a UNGM registered vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert UGNM vendor number]
Are you a UNDP vendor?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, [insert UNDP vendor number]
Countries of operation	[Complete]
No. of full-time employees	[Complete]
Quality Assurance Certification (e.g. ISO 9000 or Equivalent) <i>(If yes, provide a Copy of the valid Certificate):</i>	[Complete]
Does your Company hold any accreditation such as ISO 14001 or ISO 14064 or equivalent related to the environment? <i>(If yes, provide a Copy of the valid Certificate):</i>	[Complete]
Does your Company have a written Statement of its Environmental Policy? <i>(If yes, provide a Copy)</i>	[Complete]
Does your organization demonstrates significant commitment to sustainability through some other means, for example internal company policy documents on women empowerment, renewable energies or membership of trade institutions promoting such issues	[Complete]
Is your company a member of the UN Global Compact	[Complete]
Contact person that UNDP may	Name and Title: [Complete]

contact for requests for clarifications during Bid evaluation	Telephone numbers: [Complete] Email: [Complete]
Please attach the following documents:	<ul style="list-style-type: none"> ▪ Company Profile, which should <u>not</u> exceed fifteen (15) pages, including printed brochures and product catalogues relevant to the goods and/or services being procured ▪ Certificate of Incorporation/ Business Registration ▪ Tax Registration/Payment Certificate issued by the Internal Revenue Authority evidencing that the Bidder is updated with its tax payment obligations, or Certificate of Tax exemption, if any such privilege is enjoyed by the Bidder ▪ Trade name registration papers, if applicable ▪ Quality Certificate (e.g., ISO, etc.) and/or other similar certificates, accreditations, awards and citations received by the Bidder, if any ▪ Environmental Compliance Certificates, Accreditations, Markings/Labels, and other evidences of the Bidder's practices which contributes to the ecological sustainability and reduction of adverse environmental impact (e.g., use of non-toxic substances, recycled raw materials, energy-efficient equipment, reduced carbon emission, etc.), either in its business practices or in the goods it manufactures ▪ Patent Registration Certificates, if any of technologies submitted in the Bid is patented by the Bidder ▪ Certification or authorization to act as Agent on behalf of the Manufacturer, or Power of Attorney. ▪ Export Licenses, if applicable ▪ Local Government permit to locate and operate in assignment location, if applicable ▪ Official Letter of Appointment as local representative, if Bidder is submitting a Bid on behalf of an entity located outside the country

Form C: Joint Venture/Consortium/Association Information Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

To be completed and returned with your Bid if the Bid is submitted as a Joint Venture/Consortium/Association.

No	Name of Partner and contact information <i>(address, telephone numbers, fax numbers, e-mail address)</i>	Proposed proportion of responsibilities (in %) and type of goods and/or services to be performed
1	[Complete]	[Complete]
2	[Complete]	[Complete]
3	[Complete]	[Complete]

Name of leading partner (with authority to bind the JV, Consortium, Association during the ITB process and, in the event a Contract is awarded, during contract execution)	[Complete]
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We have attached a copy of the below referenced document signed by every partner, which details the likely legal structure of and the confirmation of joint and severable liability of the members of the said joint venture:

☐ Letter of intent to form a joint venture **OR** ☐ JV/Consortium/Association agreement

We hereby confirm that if the contract is awarded, all parties of the Joint Venture/Consortium/Association shall be jointly and severally liable to UNDP for the fulfillment of the provisions of the Contract.

Name of partner: _____ Name of partner: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

Name of partner: _____ Name of partner: _____

Signature: _____ Signature: _____

Date: _____ Date: _____

Form D: Eligibility and Qualification Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

If JV/Consortium/Association, to be completed by each partner.

History of Non- Performing Contracts

<input type="checkbox"/> Non-performing contracts did not occur during the last 3 years (from 2018 onwards)			
<input type="checkbox"/> Contract(s) not performed in the last 3 years (from 2018 onwards)			
Year	Non- performed portion of contract	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Reason(s) for non-performance:	

Litigation History (including pending litigation)

<input type="checkbox"/> No litigation history for the last 3 years (from 2018 onwards)			
<input type="checkbox"/> Litigation History as indicated below			
Year of dispute	Amount in dispute (in US\$)	Contract Identification	Total Contract Amount (current value in US\$)
		Name of Client: Address of Client: Matter in dispute: Party who initiated the dispute: Status of dispute: Party awarded if resolved:	

Previous Relevant Experience

Please list only previous similar assignments successfully completed in the last 3 years. (from 2018 onwards)

List only those assignments for which the Bidder was legally contracted or sub-contracted by the Client as a company or was one of the Consortium/JV partners. Assignments completed by the Bidder's individual experts working privately or through other firms cannot be claimed as the relevant experience of the Bidder, or that of the Bidder's partners or sub-consultants, but can be claimed by the Experts themselves in their CVs. The Bidder should be prepared to substantiate the claimed experience by presenting copies of relevant documents and references if so requested by UNDP.

Project name & Country of Assignment	Client & Reference Contact Details	Contract Value	Period of activity and status	Types of activities undertaken

Bidders may also attach their own Project Data Sheets with more details for assignments above.

☐ Attached are the Statements of Satisfactory Performance from the Top 3 (three) Clients or more.

Financial Standing

Annual Turnover for the last 3 years	Year	USD
	Year	USD
	Year	USD
Latest Credit Rating (if any), indicate the source		

Financial information (in US\$ equivalent)	Historic information for the last 3 years		
	Year 1	Year 2	Year 3
	<i>Information from Balance Sheet</i>		
Total Assets (TA)			
Total Liabilities (TL)			
Current Assets (CA)			
Current Liabilities (CL)			
	<i>Information from Income Statement</i>		
Total / Gross Revenue (TR)			
Profits Before Taxes (PBT)			
Net Profit			
Current Ratio			

☐ Attached are copies of the audited financial statements (balance sheets, including all related notes, and income statements) for the years required above complying with the following condition:

- Must reflect the financial situation of the Bidder or party to a JV, and not sister or parent companies;
- Historic financial statements must be audited by a certified public accountant;
- Historic financial statements must correspond to accounting periods already completed and audited. No statements for partial periods shall be accepted.

Form E: Format of Technical Bid

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

The Bidder's Bid should be organized to follow this format of the Technical Bid. Where the bidder is presented with a requirement or asked to use a specific approach, the bidder must not only state its acceptance, but also describe how it intends to comply with the requirements. Where a descriptive response is requested, failure to provide the same will be viewed as non-responsive.

SECTION 1: Bidder's qualification, capacity and expertise

- 1.1 General organizational capability which is likely to affect implementation: management structure, financial stability and project financing capacity, project management controls, extent to which any work would be subcontracted (if so, provide details).
- 1.2 Relevance of specialized knowledge and experience on similar engagements done in the region/country.
- 1.3 Quality assurance procedures and risk mitigation measures.
- 1.4 Organization's commitment to sustainability.

SECTION 2: Scope of Supply, Technical Specifications, and Related Services

This section should demonstrate the Bidder's responsiveness to the specification by identifying the specific components proposed, addressing the requirements, as specified, point by point; providing a detailed description of the essential performance characteristics proposed; and demonstrating how the proposed bid meets or exceeds the requirements/specifications. All important aspects should be addressed in sufficient detail.

- 2.1 A detailed description of how the Bidder will deliver the required goods and services, keeping in mind the appropriateness to local conditions and project environment. Details how the different service elements shall be organized, controlled and delivered.
- 2.2 Explain whether any work would be subcontracted, to whom, how much percentage of the requirements, the rationale for such, and the roles of the proposed sub-contractors and how everyone will function as a team.
- 2.3 The bid shall also include details of the Bidder's internal technical and quality assurance review mechanisms.
- 2.4 Implementation plan including a Gantt Chart or Project Schedule indicating the detailed sequence of activities that will be undertaken and their corresponding timing.
- 2.5 Demonstrate how you plan to integrate sustainability measures in the execution of the contract.

Goods and services to be Supplied and Technical Specifications	Your response				
	Compliance with technical specifications		Delivery Date <i>(confirm that you comply or indicate your delivery date)</i>	Quality Certificate/Export Licenses, etc. <i>(indicate all that apply and attach)</i>	Comments
	Yes, we comply	No, we cannot comply <i>(indicate discrepancies)</i>			
Per LOT – KEY PERSONNEL					
Per LOT – TECHNICAL EQUIPMENT					
Per LOT – QUALITY OF THE MATERIAL					
Per LOT - Delivery Term					

SECTION 3: Management Structure and Key Personnel

- 3.1 Describe the overall management approach toward planning and implementing the project. Include an organization chart for the management of the project describing the relationship of key positions and designations. Provide a spreadsheet to show the activities of each personnel and the time allocated for his/her involvement.
- 3.2 Provide CVs for key personnel that will be provided to support the implementation of this project using the format below. CVs should demonstrate qualifications in areas relevant to the scope of goods and/or services.

Format for CV of Proposed Key Personnel

Name of Personnel	[Insert]
Position for this assignment	[Insert]
Nationality	[Insert]
Language proficiency	[Insert]
Education/Qualifications	<i>[Summarize college/university and other specialized education of personnel member, giving names of schools, dates attended, and degrees/qualifications obtained.]</i>
	[Insert]
Professional certifications	<i>[Provide details of professional certifications relevant to the scope of goods and/or services]</i>
	<ul style="list-style-type: none"> ▪ Name of institution: [Insert] ▪ Date of certification: [Insert]

Employment Record/ Experience	<i>[List all positions held by personnel (starting with present position, list in reverse order), giving dates, names of employing organization, title of position held and location of employment. For experience in last five years, detail the type of activities performed, degree of responsibilities, location of assignments and any other information or professional experience considered pertinent for this assignment.]</i>
	[Insert]
References	<i>[Provide names, addresses, phone and email contact information for two (2) references]</i>
	Reference 1: [Insert] Reference 2: [Insert]

I, the undersigned, certify that to the best of my knowledge and belief, the data provided above correctly describes my qualifications, my experiences, and other relevant information about myself.

Signature of Personnel

Date (Day/Month/Year)

FORM F: Price Schedule Form

Name of Bidder:	[Insert Name of Bidder]	Date:	Select date
ITB reference:	[Insert ITB Reference Number]		

The Bidder is required to prepare the Price Schedule following the below format. The Price Schedule must include a detailed cost breakdown of all goods and related services to be provided. Separate figures must be provided for each functional grouping or category, if any.

Any estimates for cost-reimbursable items, such as travel of experts and out-of-pocket expenses, should be listed separately.

Currency of the Bid: [Insert Currency]

Price Schedule

Please use the template of the bill of quantity (BoQ) in section 5 above, Excel copies are provided in annex 2

Name of Bidder: _____
Authorised signature: _____
Name of authorised signatory: _____
Functional Title: _____

FORM G: Form of Bid Security

**Bid Security must be issued using the official letterhead of the Issuing Bank.
Except for indicated fields, no changes may be made on this template.**

To: UNDP
[Insert contact information as provided in Data Sheet]

WHEREAS [Name and address of Bidder] (hereinafter called "the Bidder") has submitted a Bid to UNDP dated [Click here to enter a date](#) to execute goods and/or services [Insert Title of Goods and/or Services] (hereinafter called "the Bid"):

AND WHEREAS it has been stipulated by you that the Bidder shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security if the Bidder:

- a) Fails to sign the Contract after UNDP has awarded it;
- b) Withdraws its Bid after the date of the opening of the Bids;
- c) Fails to comply with UNDP's variation of requirement, as per ITB instructions; or
- d) Fails to furnish Performance Security, insurances, or other documents that UNDP may require as a condition to rendering the contract effective.

AND WHEREAS we have agreed to give the Bidder such Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Bidder, up to a total of *[amount of guarantee] [in words and numbers]*, such sum being payable in the types and proportions of currencies in which the Price Bid is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of *[amount of guarantee as aforesaid]* without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

This guarantee shall be valid up to 30 days after the final date of validity of bids.

SIGNATURE AND SEAL OF THE GUARANTOR BANK

Signature: _____

Name: _____

Title: _____

Date: _____

Name of Bank _____

Address _____

[Stamp with official stamp of the Bank]

[insert: address and email address]