



United Nations Children's Fund

WASH Section

Republic of Iraq

Ministry of Ministry of Construction and
Housing municipalities and public works

Basra Governorate

Basra Water Directorate

Terms of Reference

Provision of Clean Drinking Water in Basra city Al-Jihad Upgraded Water Distribution Network in Basra- Iraq

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February – 2023

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Background	The governorate of Basra is the third largest in Iraq is likely to become the second largest following Baghdad with more than 4.5 million population. This includes around 3 million Basrawaies and more than 1.5 million people from Missan and Thi Qar who moved to live in Basra from nearby southern governorates demanding better economic opportunities lost. The over stressed and aged water infrastructure in Basra city poses many challenges. During the existing water crises, the related government authorities have limited policy, legal, financial, and technical capacity, and framework to cope with this crisis in an efficient and effective manner. Along with the geographical position of Basra governorate, the amount of fresh water reaching Basra has declined significantly. During the 2018 water crisis, Al Badaah canals flow rate dropped from 8 CMS to 4 CMS, and the freshwater flow in Tigris River declined from 95 CMS to 45 CMS for 6 months, resulting in 100,000 cases of waterborne diseases.¹ About 1.5 million people were indirectly affected due to the sharp increase of water prices by the private sector service providers. Similarly, the climate change impacts have exacerbated the situation with saline intrusion due to sea level rise and increased storm surge activity and impact, becoming a predominant phenomenon in summer months. Tide and ebb phenomena are reaching further inland in comparison to 10 years ago. During the 2018 water crisis, water treatment plants recorded 21,000 ppm of total dissolved solids in the raw water of Shatt Al Arab which could not be successfully treated. This is because during the peak of the demand in summer months, this plant cannot be shut down as there is no alternative to supply water to the communities. This has resulted in the plant continuing to pump highly salinized water into the old water network mixing the fresh clean water coming from other plants and thus distributing saline water to nearly all the nearby neighborhoods. This situation persists all over Basra city. Compounding this problem is that the promised government projects to improve water quality have failed to materialize due to mismanagement and corruption. A major problem is the water quality itself. Affected by water scarcity in the Euphrates, high rates of salinity and pollution, and contamination and leakages occur in the outdated supply network. Almost half of the governorate's inhabitants report the availability of drinking water as bad or very bad. Less than half of the people connected to the public water network have water available for the full day. The limited availability of drinking water is directly connected to numerous environmental problems threatening Basra's fresh water supply. Dams and irrigation projects on the Tigris and Euphrates rivers have diverted much of the water flow heading to the Shatt Al-Arab, and with the receding water levels in the rivers, salt water from the Persian Gulf has been reaching ever further inland. Wastewater and households flow into the rivers untreated, further contaminating the water supply. The water quality suffers from high salinity and due to the low water quality; the water requires treatment before being supplied to populated areas. Several treatment plants, compact units, or desalination units (RO units) were installed to provide the populated areas with its water

	needs. Most of the water is supplied by compact units and the rest from conventional water treatment plants and reverse osmosis units.
Objectives, Purpose & Expected results	The project's expected results are aligned with the national and global frameworks including Iraq's National Development Plan, SDGs and UNICEF's Country Programme 2020-2024 and related rolling workplans signed with the Government and as described below: The proposed action will contribute to commitments under the fourth pillar of the Government of Iraq's National Development Plan (NDP 2018-2022); "Reducing Multidimensional Poverty in the Provinces", addressing the following objectives of the NDP for water supply, environmental sustainability and poverty alleviation: • Provide drinking water according to international standards. • Improve quality of potable water. • Ensure availability and sustainable management of water and sanitation service. • Enhance the health situation. This action aims to contribute to the following SDG indicators: • Goal 6: Ensure availability and sustainable management of water and sanitation for All • Target 6.1: By 2030, achieve universal and equitable access to safe and affordable drinking water for all • Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all • Target 8.6: By 2020, substantially reduce the proportion of youth not in employment, education or training • Goal 13: Take urgent action to combat climate change and its impacts ▪ Target 13.1: Strengthen resilience and adaptive capacity to climate related hazards and natural disasters in all countries. ▪ Target 1.4: By 2030 ensure that all men and women, particularly the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services.
Description of the assignment	The work will be including the following - Supply, Install, Test and commissioning of water transmission line and their necessary fittings and bends as per Iraqi standards. - Excavation in all type of soils for pipe trenches, dewatering, shoring, grading, and leveling of excavation bottom, furnishing, placing, and compacting bedding. - Transporting the excavated material outside the project area, lowering pipes into trenches, aligning, jointing pipes, testing, flushing. - Extending transmission line from a safe water source and extend main water lines/network inside the zone 6 - Supply, Install, Test and commissioning of different kind and size of pipes complete with all accessories & fittings. Endured certificates of tests and origin for all supplied items - Supply, install, and operate different size pumps, the work includes all necessary suction and discharge fittings, gate valves, check valves, electrical motor of a star-delta starter.

	- Supply, install and operate of different type of valves connected to main pipe via connecting pieces, dismantling joint, ...etc - Supply material, equipment, and labor to construct RC manhole. The work also includes install heavy iron cover as per drawings. - Supply materials, equipment, and labor to modify the pumps outlet. The outlet arrangement is to be connected to pipe via a retaining adapter the work includes all piping and fittings, gate valves, and check valves. - Supply and install vertical chemical storage tank (PVC type) for NaOCl storage The work includes Supply, install and operate of hydraulically operated diaphragm pump with PP self-stand skid. - Supply, install, and operate inline static mixer and mixing plastic tank with Mixing motor, steel rotor and fan, check and gate valves and circulation pump and electrical accessories. The work also includes All pipes and piping connections and fittings, valves, devices, and injection mechanism. - Supply materials, equipment, and labor to repair, clean and maintain 350 KVA Perkins diesel generator. - Supply, install, and operate electromagnetic flowmeter to be connected at the beginning of the trunkline out of the pumping station @ the site of the three compact WTP units. The price includes all connections and fittings necessary for the operation of the flow meter.
Deliverables	All works shall be accomplished according to UNICEF- General Terms and Conditions as well as the direction of the supervising engineers (supervising committee) formulated by the Basra Water directorate and the below requirements: • The bidder shall prepare and submit operation and maintenance manuals, technical sheets of the provided materials and time schedule plan. • The bidder shall also be deemed to have read and examined the terms of reference, technical specifications, drawings, and all other relevant documents before completing the bills of quantities. • Unless otherwise indicated, the prices and rates entered in the following Bills of Quantities of the proposal shall be deemed to cover and include the provision by the bidder for all equipment, materials, labors and shall allow for all and every expense and for all works not specifically described or which may be incidental, contingent or deemed necessary by the bidder for completing and maintaining all works in strict conformity with the terms of reference, specifications, drawings and other terms of the contract; • Quoted prices for civil works, mechanical works, electronical, electrical works, and any other required parts or materials necessary for the contract implementation shall include transportation fees, on-site handling of materials (including offloading and uploading from trucks) as well as storing. • Unless otherwise directed by the supervising committee, the dismantled parts (not in use any longer) shall be delivered by the bidder to directorate warehouse and receive signed good receipt note to be submitted at the end of the project to the formulated final handing over committee.

	• No alterations or modifications shall be allowed without prior written approval from both parties, Basra water Directorate and UNICEF. In case such approval is granted, it will not relieve the bidder from his responsibilities under the contract. All works shall cover the provision of all required complementary supplies and works (not necessarily mentioned in the Bills of Quantities) such as sand, gravel, cement, washers, elbows, bolts, nuts, screws, welding, etc. and laborers (skilled and unskilled) • The bidder shall provide a certificate of origin, certificate of test, and certificate of manufacture. Additionally, the bidder shall submit all test results from independent laboratories. certificates during work implementation. Other Deliverables/ documents: • Continuously operated project with proper specifications • The bidder shall submit a project proposal, including the scope of work and methodology, full technical specification describing all the technical topics that meet the above criteria and objectives. • Full design documents for the overall system, pumping station, network, package unit, etc • Implementation plan and time schedule. • Operation and maintenance manuals and troubleshooting guides • Bidder shall submit progress reports to both parties, UNICEF and the supervising committee (English) • Operation and Maintenance manual and troubleshooting chart in English and Arabic Versions • Daily Operation logbooks The bidder shall be considered: • Responsible for all defects and damages due to the use of low performance materials or due to improper workmanship, defect in interior and/ or exterior were pipeline and network, electrical shorts, etc. • Responsible for works and damages due to misuse, user's negligence, theft, deliberate destruction of materials or components, vandalism and inappropriate or unjustified acts or behaviors, wear due to normal use of materials, equipment and components, or damages due to military conflicts; natural catastrophes...etc. • The bidder shall cover work by suitable insurance at his own responsibility. • Ensure the best safety and security practices in the site for his own employees, everyone on the site. The bidder shall use all required safety measures including safety equipment, personal protection equipment, safety signs, safety training, and inductions when, and where required on the site. UNICEF is not responsible for any accident to any type of injury or death that occurred.
Reporting requirements	Lists of the reporting guidelines and the reports to be prepared during the assignment as well as deadlines for submission; it includes requirements such as contents, number

	of copies, language, who should receive the reports, and whether they should be submitted electronically (specify the file format, e.g. "pdf"), in hard copy, or both. Following reports for project milestones are required are: • The bidder shall submit monthly progress reports: The reports shall be submitted one week prior the submission of each payment request. The report shall contain all the works done during the period, enclosed by photos, minutes of meetings signed by all parties, certificates of test results for all inspected materials. • Preliminary handing over report: One technical report shall be submitted after the physical completion of all works and preliminary handing over. This report shall contain all the implementation details as per the BoQs, time correction, signed good receipts enclosed with an official cover letter from the management of the laboratory. • Final report: Final report shall be submitted after completion of the warranty period and completion of the training of technical local staff from the laboratory, embedded the training materials, signed list of attendees, the outcome of the training, and an official approval letter from Basra Water Directorate addressed to UNICEF.
Location and Duration	Starting period: the implementation anticipated start date is 15 May 2023 • The project location will be in Basra city but with different places which based on the required work, ex, Zone 6 (Al Jihad Neighborhood), water reservoir # 3, R zero project, and Al Garma water treatment plant. • The implementation period should not exceed four months after the site handing over. The implementation period is the actual period of provision, installation, and proper operation of the whole system. Operation and warranty period shall not exceed 6 months from the date of the official preliminary handing over. • The implementation shall be scheduled by the bidder, while the time schedule shall be agreed upon among three parties and approved by the Basra Water Directorate supervising committee.
Qualification requirements	Specifies the professional requirements of the individual(s) and/or team(s) for the assignment including required experience, skills, and qualifications; if applicable: • The project shall be supervised by the assigned project manager from the awarded company, while the project supervision is assigned by the formulated supervising committee by Basra Water Directorate. The project manager shall have at least 15 years of experience in managing similar projects for water treatment projects and should provide solid evidence during the submission of technical offers. The project manager shall have environmental protection experience, OHS&E qualified from reputable institutions. Moreover, the project manager shall have a civil, mechanical, or chemical engineering degree and most have proven at least 10 years of experience with government water projects in

	the fields of construction, operation, maintenance and operation troubleshooting. • All the mechanical works shall be supervised by a mechanical engineer assigned by the project manager. The engineer shall have at least of 10 years of experience in a similar role supervising mechanical parts within an operating water treatment plant. • All the electrical work shall be supervised by an electrical engineer. The electrical engineer shall have at least 10 years of experience in a similar role supervising the electrical parts within an operating wastewater treatment plant. • Occupational health and safety shall be supervised, maintained, and ensured by occupational health and safety officer qualified and licensed from NEBOSH or OCHA and have proven 5 years of experience of work in site with potential high concentration of H2S and CH4 presents and proven experience in occupational health and safety in construction sites where civil, chemical, mechanical and electrical works are conducted.		
Evaluation process and methods	4.1 Initial Technical Evaluation Pass/Fill approach:		
	MANDATORY REQUIREMENTS	SUPPORTING DOCUMENTS	SCORE
	Lead bidder is a legal entity regulated and licensed in Iraq	A copy of the certificate of incorporation (i.e. company legal registration) or equivalent document verifying legal status/capacity in Iraq. The contractor to submit a valid contractor classification card.	Pass / Fail
	The bidder shall oblige to visit the site and provide evidence for this action.	The bidder shall submit an approved/signed document from government authorities for field visit confirmation.	Pass / Fail
	The lead bidder's license is valid at the time of submission and it can be renewed.	A valid copy of License / Authorization from the relevant local Government Authorities (i.e. central bank, Ministry of Finance or any other government authority, company valid classification ID) to provide financial services / to operate cash delivery in Iraq.	Pass / Fail
	bidder keeps updated and compliant financial records	The most recent Audited Financial Statements of the lead bidder. (Financial Statement (Approved by the legal auditor) for last 2 years: 2020 & 2021)	Pass / Fail

No.	Criteria	Weight
(i)	Company and organizational profile	20
	Company background: years in business in the related assignment being sourced, financial strength, accreditations on matters such as quality control. Registration documents of the company is required	4
	Experience in managing similar services or projects; client portfolios with evidence in the form of recommendation letters from clients demonstrating work completed and project outcome.	13
	Experience with working with multiple stakeholders in a project particularly Government and International organizations	3
(ii)	Proposed work plan and approach	40
	The extent of understanding of the project requirements	5
	The practicality of the proposed methodology relative to the context of the service and in line with the standards specifications presented and in compliance with the proposed technical standards including ISO standards	15
	Catalogues submission of the required items needed to be supplied and installed, pumps, pipes, valves, chlorine system, etc.	10
	Risk assessment and mitigation strategies integrated into the service	5
	Appropriateness of the implementation schedule to the project timelines and project quality assurance measures to ensure successful implementation	5
(vi)	Company Key Staff	10
	Appropriate technical resource with the right skills/expertise, qualifications to deliver the outputs required; Key technical skills/expertise of Individual team members to be used to execute the assignment; Qualifications/level of education of key staff, evidence of expertise/experience of each individual team member etc.	6
	Appropriateness of the mix of expertise/skills of team members	4
	Total	70
Then Bid shall be evaluated based on technical and financial criteria. The ratio weight between technical and financial criteria is (70:30). • Technical Evaluation: • The Bid shall be technically evaluated as below: • The passing score of the technical criteria is 46 out of 70.		

	• Financial Evaluation: - The bidder will be financially scored based on the formula below: Contractor(A) = (Maximum score for price proposal (30 points) x Price of lowest-priced proposal among technically passed bidders)/Price of the proposal (A) • The total weight of the bidder will be cumulative of the two above formulas (Technical and Financial).
Administrative issues	It is crucial that tenderer shall visit the site before submitting the RFP and tender and be acquainted with the type of required works. Tenderer must submit certificate of site visit enclosed to his bidding document issued by the Basra Water Directorate. Otherwise, the bid will automatically be excluded from the bidders if site visit official letter is not enclosed. Pre-bid meeting shall be commenced with engagement of supply officer, WASH officer/ specialist and bidders to ensure that all bidders are fully understanding the scope of work and will have clear picture on UNICEF technical requirements. • Bidders shall have previously executed in a satisfactory manner works of a similar character and magnitude to those for which they are tendering and shall supply evidence to UNICEF to this effect in a letter of capacity accompanying their tender in order that UNICEF may be satisfied that the tenderers are technically and financially capable of executing the proposed works. The evidence submitted shall contain the following information: • Nature of the works previously executed. • Employing authorities and the supervising engineers. • Value of various contracts. • Locations of implemented works. • Dates when they were implemented. • Names of engineers and technicians to be employed for carrying out the proposed works together with their experience and CVs. • Details of the special equipment in his possession for carrying out the proposed works. • Any other information the bidders may present as evidence for his capability. • The contractor shall prepare a detailed work plan (Bar Chart) and submit to Basra Water Directorate and UNICEF within 14 days from the signing date of contract. The contractor shall also prepare periodic progress reports as requested by supervising engineers and submit to Basra Water Directorate and main WASH focal person assigned by UNICEF. After completion of the works, 9 months of operation, maintenance and warranty period will be applicable.

	• The contractor must commence the contract works within a maximum period of five days from the signing date of contract. • The contractor shall submit samples of materials used in the project to the supervising committee (from Basra Water Directorate) for approval before using them in work. The supervisor engineer may reject any material that does not comply with the specifications, in which case the contractor without any extra cost shall replace the defected materials. The supervising committee from Basra Water Directorate shall request for any test to ensure the quality of the materials used and work. Only approved materials and workmanship shall be used. • The Bills of Quantities shall be priced and totaled in U\$ Dollar's currency. • The bidder shall make sure all clauses are priced, and the calculations are accurate. The bidder will bear responsibility for the nonprice clauses and inaccurate calculations in the financial offer. • The retention amount shall be released by UNICEF after: - a- Completion of the maintenance works and on-site training of three local staff at Basra Water Directorate - b-Submission signed minutes of final handing over, enclosed by an official letter after adequate operation and maintenance during the warranty period issued by Basra Water Directorate. - c- The contract is considered completed when a maintenance certificate Basra Water Directorate is endorsed and submitted to UNICEF stating that all works have been completed and maintained to their satisfaction.
Project management	During the over all life cycle of the project, UNICEF and directorate of water in Basra will share the commitments and accountabilities below: 1. The project is supervised by a committee to be assigned by directorate of water consisting of engineers and technical individuals to supervise, control quality, accept or reject BoQs items implemented, report progress to DoW and UNICEF. 2. The supervision committee to approve the progress and authorize payments according to the progress, 3. The supervision committee to endorse accomplishment of work, 4. Initial reception of the work to be done by another committee to be assigned by DOW and this committee is authorized to accept, reject the work partially and/or totally in coordination with UNICEF and to authorize payment, 5. Final reception to be done by final reception committee to be assigned by water directorate in Basra. The committee is responsible for issuing the final reception of the work and authorize warranty payment release. 6. UNICEF to supervise the contract, oversee the quality of the work, ensure the project partially or totally is / are meeting the set objective, reject and receive

	BoQs partial items or total work and process payments according to reports issued by the committees above.
Payment Schedule	Payments shall be made to the contractor in installments upon accomplishment of the deliverables and as follows: • First Payment: The amount will be released upon completion of 100% of work implementation according to Water Tank BOQs in Line item10. • Second Payment: The amount will be released upon completion of 100% of work implementation according to R zero BOQs in Line item 20. • Third payment: The amount will be released upon completion of 100 % of work implementation according to Garma 1 BOQs in Line item 30. • UNICEF shall make payments in U\$ Dollars through bank transfer modality only: the contractor shall provide UNICEF with details of bank account • UNICEF will make payments to the contractor in U\$ Dollars according to percentages of completed work certified by the supervising committee and approved by UNICEF WASH focal person at Iraq Country Office. UNICEF will withhold a retention (liability) value of not more that 10% of the total contract value or value of the completed work whichever is less. This amount shall be released 5% only after completing the work and submit an official initial receiving letter and the remaining 5% after 180 days upon satisfactory completion of the warranty period.
Any other information	• Tenderers shall have previously executed in a satisfactory manner works of a similar character and magnitude to those for which they are tendering and shall supply evidence to UNICEF to this effect in a letter of capacity accompanying their tender in order that UNICEF may be satisfied that the tenderers are technically and financially capable of executing the proposed works. The evidence submitted shall contain the following information: • Nature of the works previously executed. • Employing authorities and the supervising engineers. • Value of the various contracts. • Locations of implemented works. • Dates when they were implemented. • Names of engineers and technicians to be employed for carrying out the proposed works together with their experience and CVs. • Details of the special equipment in his possession for carrying out the proposed works. • Any other information the tender may present as evidence for his capability. • Each tenderer shall submit with his tender details of other contracts awarded to him at the time of submission of the tender and shall indicate the commencement and completion dates of each contract. • It is not permissible for employees of official or semi-official government departments to participate directly or indirectly in the tender.

	• UNICEF shall make any variation in the form of quality or quantity of the works that may in its opinion be necessary and for that purpose or if for any other reason, it shall have the power to order the contractor to do and the contractor shall do any of the following: • Increase or decrease the quantity of any works included in the contract. • Omit any work included in the contract. • Change the character or quality or kind of any work included in the contract. • Execute additional work of any kind necessary for the completion of the works, hence, adjustment shall be applied on detailed BOQs and endorsed by Basra Water Directorate and UNICEF. • No such variation shall be made by the contractor without an order in writing by UNICEF who shall determine the amount (if any) to be added to or deducted from the sum named in the tender in respect of any extra or additional work done or work omitted by its order. All such work shall be valued as follows: • Where there are rates for comparable work in the bills of quantities such rates are to be used. • Where no such comparable rates are available from the bills of quantities UNICEF shall determine such rates as it considers fair and reasonable, due allowance shall be made for the market value of articles purchased, the intricacy and the location of the work involved and the current value of similar work in other contracts. • There will be no variation in the contract price because of any variation in the costs of materials for permanent or temporary works or of consumable stores fuel or power or in the rates of wages or allowances payable to or in respect of labor or as a result of any changes in the labor employment conditions or as a result of the introduction or operation of any law statute or order. • The contractor shall submit samples of the materials used in the project to the supervisor engineer from the supervising committee and UNICEF for approval prior to using them in works. The supervising committee may reject any material that does not comply with the required specifications, in which case the contractor without any extra cost should replace the failed materials. The site engineer can ask for any test to ensure the quality of the material used and work. Only approved materials and workmanship should be used. • The Bills of Quantities shall be priced and totaled in US\$ Dollars. The tenderer shall make sure that all clauses are priced, and the calculations are accurate. The tenderer will bear responsibility for the nonprice clauses and inaccurate calculations in the submitted offer
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Bassam Al Bayati

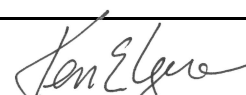
ICO WASH Officer
Feb. 27, 2023


Ali Risn

BFO WASH Specialist
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OIC Chief WASH Prog.
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Dep. Rep. Prog.
28.02.2023