

Sahari Organization for Development

Request for Quotation for Rehabilitation of 6 Health Facilities Ref: PS/WHH8/8/20

Dear Sir/ Madam,

Sahari Organization for Development (SAHAR) is a humanitarian, voluntary, grassroots organization committed to human dignity and self-reliance. Established in 2016 and registered as an NGO at the Humanitarian Aid Commission(HAC).

SAHARI is implementing a project in Red Sea State funded by WHH “**Emergency Nutrition for Children in Eastern Sudan**”, For the implementation of its operations, we intend to apply a portion of the grant to payments under this RFQ.

SAHARI hereby invites you to submit a quotation to this invitation to quotation (RFQ) for the above and referenced subject.

This RFQ includes the following documents:

Section1: This Letter of Invitation

Section 2: Instruction to Suppliers

Section 3: Retunable forms

- Quotation Summary Form.
- Information Form.
- Declaration Form.
- Price Schedule.

If you are interested in submitting a Quotation in response to this RFQ, please your quotation in accordance with the requirements and procedures as set in this RFQ and submit it by the deadline for the submission of the quotation set out in the RFQ data sheet.

Please acknowledge receipt of this RFQ by sending an E-mail To procurement@sahari.org indicating whether you intend to submit a quotation or otherwise, you may also utilize the Accept Invitation function in the quotation system, where applicable. This will enable you to receive amendments or updates to this RFQ. Should you require further clarification, kindly communicate with the contact person identified in the attached data sheet as the focal point for queries on this RFQ.

SAHARI looks forward to receiving your quotation and thanks you in advance for your interest in SAHARI procurement opportunities.

Sincerely

Mohamed Nour Eldin

Operation Manager



Date: 20/08/2025

Section 2. Instruction to Suppliers

1- Quotation Language

The quotations prepared by the suppliers, as well as all correspondence and documents relating to the RFQ exchanged by the suppliers and SAHARI shall be written in the English language.

2- Quotation Currency:

All the prices indicated in your quotation shall be Sudanese Pounds (SDG).

3- Quotation Validity:

Your quotation must remain for a minimum of 30 days from the closing date of this RFQ. Once your quotation is accepted during this validity period, the quoted unit price shall remain unchanged. Quotations valid for a shorter period may be rejected by SAHARI and rendered non-responsive.

4- Clarification from Suppliers

Following the receipt of this RFQ, interested suppliers are requested to submit their questions or requests for clarification in writing to:

procurement@sahari.org

5- Quotation Submission

The Suppliers shall submit a duly signed and complete Quotation comprising the documents and forms following the requirements in this RFQ to:

House 332 Block 4 Silik Street

Almatar District – Portsudan

Or submit an electronic copy (PDF format) to procurement@sahari.org Late submission will not be accepted.

6- Deadline for Submission of Quotations:

Complete quotations must be received by SAHARI at the address specified above no later than **15:00 on the 27th of August 2025**. SAHARI shall only recognize the actual date and time that the quotation was received by SAHARI.

7- Late Quotations:

Any quotation received by SAHARI after the deadline for submission of quotations prescribed by SAHARI under RFQ Clause 6 will be rejected and returned unopened to the Supplier.

8- Opening of Quotations:

SAHARI will open all quotations, at the time and date of its convenience following the complete assembly of all Quotation Evaluation and award Committee members. Suppliers who do not get feedback within ten (10) days from the closing date mentioned herein, should consider their quotation unsuccessful.

9- Clarification of Quotations:

To assist in the examination, evaluation, and comparison of quotations, SAHARI may ask suppliers for clarification of their quotations. The request for clarification and the response shall be written by SAHARI, and no change in price or substance of the quotation shall be sought, offered, or permitted. Clarification of quotations may be provided only in response to SAHARI's request for clarification or request for additional information.

10- Evaluation and Comparison of Quotations:

SAHARI will evaluate and compare the quotations, the evaluation of the quotation will take into account base on the following factors:

- I. Supplier Company. This involves verification of the vendor's documents and compliance with administrative requirements, registered or not, having enough experience or not, having enough operational capacity or not, having enough financial resources or not.. etc.
- II. Technical responsiveness. This involves technical compliance with the specifications in relation to our requirements.
- III. Cost Analysis.
- IV. Delivery time and schedule.
- V. Payment terms and payment method.
- VI. Warranty period offered and after service provision.
- VII. Any other specific criteria related to the technical specifications of goods or their associated services.

11- Right to Accept or Reject Quotations:

SAHARI reserves the right to accept or reject any quotation, to render any or all of quotations as nonresponsive, and to reject all quotations at any time prior to the award of the contract, without incurring any liability or obligation to inform the affected supplier(s). SAHARI shall not be obligated to award the contract to the lowest-priced offer.

12- Award of Contract:

Prior to the expiration of the period of quotation validity, SAHARI shall award the contract to the eligible supplier that obtains the highest combined score of technical and financial evaluation.

13- Payments Conditions:

Payment will be made only upon SAHARI's acceptance of the goods and services performed. The terms of payments shall be within 30 days, after receipt of the final invoice and Goods/ Services Receipt Note (GRN) stamped by the SAHARI representative. Payment will be effected in the currency of the contract.

FORM A: QUOTATION SUMMARY FORM

Name of		Date:	
RFQ Reference	PS/WHH8/8/20		

To SAHARI

We, the undersigned declare that;

Having examined the RFQ documents for the Rehabilitation of 6 Health Facilities. RFQ No.PS/WHH8/8/20 issued on, the receipt of which is hereby duly acknowledged, I quote to complete the supply and deliver the SERVICES in conformity with RFQ documents for the total fixed lump sum price of: _____

Validity of the Quotation: _____

Delivery Time: _____

Payment Terms: _____

Name: _____

Title: _____

Date: _____

Signature: _____

Stamp:

FORM B: FORM OF DECLARATION

Name of		Date:	
RFQ Reference	PS/WHH8/8/20		

To: SAHARI

We hereby declare that our firm,

- ✓ Have not declared bankruptcy, are not involved in bankruptcy or receivership Proceedings, and there is no judgment or pending legal action against us that could impair our operations foreseeable future.
- ✓ We comply with our duty to pay social insurance contributions, taxes, or other levies in accordance with legal provisions of the state in which we have our office, the state of the consignee, or the state where the contract is performed. We assure you that we will comply with legislation applicable and common standards in terms of wages, social legislation, and occupational safety and health.
- ✓ We have not received a legally binding sentence due to fraud, corruption, participation in a criminal association, or another act directed against the financial interests of the International Humanitarian Aid Community.
- ✓ Have not been suspended, debarred, sanctioned, or otherwise identified as ineligible by any UN Agency or international organization, or another national organization.
- ✓ We declare that all the information and statements made in this Quotation are true and we accept that any misinterpretation or misrepresentation contained in this quotation may lead to our disqualification and or sanctioned by SAHARI.

Name: _____

Title: _____

Date: _____

Signature: _____

Stamp:

FORM F: PRICE SCHEDULE FORM

Name of		Date:	
RFQ Reference	PS/WHH8/8/20		

The Supplier 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.

Price Schedule:

Item	Description	Unit	Qty	Unit Price	Total Price
1	Omer bn Alkhatab (Dar Alnaeem)				
1.1	Complete maintenance of the water cooling unit	Job	1		
1.2	Reconnection of water cooling units with elevated tanks and the main desalinated water network in the center (the supply of only 1 200L tank is requierd)	Job	2		
1.3	Installation of protection circuit to the water cooling units	Job	2		
1.4	Assessment and maintenance of the 2 ground tanks (10 ton)	Job	2		
1.5	Reconnection of the old ground tank with the saline water source	M	16		
1.6	Reconnection of the 8 latrines and the 2 ablution areas with the saline water tank (including water pump, shataffas, etc)	M	40		
1.7	Rehabilitation of the latrines' flush systems (tanks, connection,...etc)	Set	8		
1.8	Plumbing check and rehabilitation of latrine manholes 50*50	Item	12		
1.9	Rehabilitation of 2 ablution areas (Plumbing check, taps, etc)	Job	2		
1.1	Installation of handwashing sets in the internal latrine unit	Set	2		
1.11	Renovation of paintwork and finishing of the 8 latrine units	M ²	122.4		
1.12	Renovation of 4 wooden doors, including finishing, paintwork, locks, and handles	Job	4		
1.13	Renovation of 4 aluminum doors, including locks, and handles	Job	4		

1.14	Rehabilitation of the latrines electricity connection and tools, including lighting and ventilation ...etc	Unit	8		
1.15	Rehabilitation of the center desalination unit 1 ton:				
1.15.1	Replacement of the high-pressure pump motor	Item	1		
1.15.2	Replacement of the sand filter Media	Job	1		
1.15.3	Replacement of the chemicals	Job	1		
1.15.4	Rehabilitation of electric work	Job	1		
1.15.5	Replacement of the membrain (4Inc)	Item	2		
1.15.6	Rehabilitation of the ventilation system	Job	1		
2	Dar Alsalam				
2.1	Replacement of the flushing system of 4-drop hole latrine unit to a direct system (8m farther point from the septic tank)	Job	1		
2.2	Supply and installation of 3 squat and 1 VIP seats	Item	4		
2.3	Maintenance of the water pump	Job	1		
2.4	Rehabilitation and reconnection of 2 ablution areas, including taps, missing tiles and drain system	Job	2		
2.5	Supply and installation of a water cooler with an additional elevated 200L tank	Job	1		
3	Um Algora				
3.1	Reconnection of the center with the municipale water network	M	100		
3.2	Construction of an ablution area with 3 taps	Job	1		
3.3	Supply and installation of a water cooler with an additional elevated 200L tank	Job	1		
3.4	Supply and installation of a 2000L tank with a water pump and a tap stand	M ³	10		
4	Algadessea				
4.1	Rehabilitation of the latrine unit plaster and painting	M ²	30		
4.2	Supply and installation of 1 squat seat	Item	1		
4.3	Supply and installation of floor tiling	M ²	8		
4.4	Supply and installation of electric wiring	M	60		
4.5	Supply and installation of electric tools, including sockets, fans, lighting, etc.	Set	4		
4.6	Supply and installation of seating for the waiting area	Item	8		
4.7	Installation of 9 protection grills on windows and 4 doors (The items are already supplied and ready for installation)	Job	1		

5	Ongab				
5.1	Rehabilitation of 2 drop hole latrine plaster and paint work	M ²	70		
5.2	Rehabilitation of wooden door frames, paintwork, locks, handles, etc.	Job	2		
5.3	Supply and installation of a water cooler	Job	1		
5.4	Construction of an ablution area with 2 taps	Job	1		
5.5	Construction of storage room with sheds (Plans and Detailed BoQ attached)	Job	1		
5.6	Supply and installation of waiting area seating (6 Benches and a mobile desk with wheels and a chair)	Job	1		
6	Abu Bakr Alsiddig (Shagar)				
6.1	Construction of storage room (Plans and Detailed BoQ attached)	Job	1		
6.2	Supply of a mobile desk with wheels and a chair	Job	1		
VAT					
GRAND TOTAL					

Name: _____

Title: _____

Date: _____

Signature: _____

Stamp

TECHNICAL SPECIFICATIONS

Preamble

These Technical Specifications delineate the comprehensive requirements for the rehabilitation of the health facilities, as meticulously detailed in the accompanying Bill of Quantities (BoQ) and the Price Schedule. All construction and rehabilitation work shall be executed to the most stringent standards of quality and workmanship, rigorously adhering to established best engineering practices and the explicit instructions provided by Sahari Organization for Development (SAHARI) or their officially designated representatives. Prospective contractors are strongly encouraged, and if deemed necessary, may conduct site visits to thoroughly ascertain the existing conditions and the precise nature of the work required prior to submitting their bids.

1. General Requirements

1.1. Scope of Work

The scope of work encompasses the comprehensive rehabilitation of water and sanitation facilities across six specified health facility locations: Omer Ibn Alkhatib (Dar Alnaeem), Dar Alsalam, Um-Algora, Algaesea, Ongab, and Abu-Baker Alsiddig (Shagar). This undertaking includes, but is not limited to, a diverse range of activities as itemized in the Price Schedule. These activities include the replacement of latrine seats, extensive renovation of walls (including plastering and painting), correction of floor slopes and the installation of new tiling, establishment of new ablution areas, provision and installation of water pumps, execution of roofing works, reconstruction of manholes, general plumbing system overhauls, and, notably, the new construction of dedicated storage rooms at both the Ongab and Abu-Baker Alsiddig sites. The detailed technical specifications for these new construction projects are elaborated in Section V.2.5 and V.2.6 respectively, drawing directly from the attached Bills of Quantities.

The Price Schedule indicates that for Ongab, the storage room construction includes "sheds," directly referencing the "Health Center Store (With Shader)" Bill of Quantities. Conversely, for Abu Bakr Alsiddig, the description is simply "storage room," corresponding to the standard "Health Center Store" Bill of Quantities. A close examination of these two Bills of Quantities reveals distinct structural elements beyond just the shader. This differentiation underscores that the two storage room constructions are not identical, requiring contractors to meticulously review the specific BoQ for each site to ensure accurate bidding and execution. The detailed requirements for each structure are therefore explicitly integrated into the specific methodologies section to provide complete clarity.

1.2. Site Identification

The precise units and exact locations designated for rehabilitation within each named site shall be definitively confirmed through a joint site visit and a formal handover process. This process will be conducted under the direct supervision and direction of SAHARI or its authorized representatives prior to the commencement of any work on site.

1.3. Measurement Standards

All measurements pertinent to the works, including dimensions for repairs, installations, and new constructions, shall be meticulously taken and rigorously verified. Measurements for the purpose of payment will be based strictly on the items enumerated in the Bill of Quantities (BoQ) and the actual work completed and formally approved by SAHARI.

1.4. Site Management and Cleanliness

The Contractor is obligated to maintain all work areas and adjacent zones in a consistently clean and orderly condition, entirely free from construction debris, dust, and mud throughout the project duration. All waste materials generated from demolition and rehabilitation activities, including excavated soil, must be collected promptly and disposed of at officially approved locations in an environmentally sound manner. This emphasis on environmental responsibility extends beyond simple removal, requiring contractors to demonstrate a clear plan for waste management that adheres to best practices, potentially including segregation and recycling where feasible, and compliance with all applicable local environmental regulations. The Contractor shall ensure that their operations do not impede normal traffic flow or interfere with other activities of the site inhabitants or users during the execution of the works.

1.5. Protection of Existing Property

The Contractor shall exercise the utmost care and implement all necessary precautions to safeguard existing structures, operational services (such as utilities), and vegetation that are not explicitly designated for removal or alteration. Any damage incurred to existing property as a direct consequence of the Contractor's operations shall be rectified and fully restored by the Contractor, entirely at their own expense, to the complete satisfaction of SAHARI.

2. Construction and Rehabilitation Plan

2.1. Approval of Plan

The Contractor shall develop and submit a comprehensive Rehabilitation Plan to SAHARI for formal approval prior to the initiation of any works on site.

2.2. Content of Plan

The Rehabilitation Plan must, at a minimum, encompass the following detailed components:

- **2.2.1. Detailed Work Schedule:** A precise schedule broken down by each specific site and individual activity, clearly outlining timelines and milestones for project completion.
- **2.2.2. Management System, Site Organization, and Team Formation:** A clear organizational structure for site management, including an organizational chart and detailed Curriculum Vitae (CVs) of all key personnel assigned to the project.
- **2.2.3. List of Materials and Equipment:** A comprehensive list detailing all materials proposed for use, including their full specifications and sources, alongside a list of all equipment to be employed for each task.
- **2.2.4. Detailed Methodology:** A step-by-step methodology for each type of rehabilitation work specified in the Bill of Quantities, including procedures for demolition, surface preparation, repair techniques, installation processes, and specific new construction methodologies, particularly for the storage rooms at Ongab and Abu-Baker Alsiddig.
- **2.2.5. Testing and Inspection Methodology and Schedule:** A clear plan for testing and inspection of all completed works, including specific procedures for plumbing leak tests, water pump operational checks, structural integrity verification for new constructions (e.g., roofs, slabs), and confirmation of correct floor slopes for drainage.
- **2.2.6. Quality Control System and Procedures:** A robust system outlining the procedures and checks to ensure continuous compliance with all specified technical requirements and standards throughout the project lifecycle.
- **2.2.7. Security, Health, and Sanitation Measures:** A plan detailing security measures for materials and equipment on site, as well as comprehensive health and sanitation measures for both workers and the public utilizing or accessing the facilities.
- **2.2.8. Waste Management Plan:** A detailed plan for the management and disposal of all construction debris and any hazardous materials generated during the project.

3. Schedule of Works and Sites

The rehabilitation and construction works shall be executed at the following health facility locations, with specific tasks and quantities as detailed in the Price Schedule (FORM F) and the relevant Bill of Quantities:

- Omer Ibn Alkhatib (Dar Alnaeem)
- Dar Alsalam
- Um-Algora
- Algaesea
- Ongab
- Abu-Baker Alsiddig (Shagar)

4. Materials

4.1. Material Specifications and Approval

The Contractor shall comprehensively describe the specifications, applicable standards (e.g., British Standards (BS), or equivalent international standards), and the procurement plan for all materials within their submitted Rehabilitation Plan. Formal approval from SAHARI's Supervisor is mandatory before any material is procured or utilized on site. All materials supplied and installed shall be new, of first quality, and fit for purpose, unless explicitly stated otherwise (e.g., for careful removal and re-installation of existing items if specifically allowed by the BoQ).

While the general requirements allow for materials of an "approved brand and standard," the detailed Bills of Quantities for the storage rooms specify particular brands for key components, such as "Al Asaad Steel" for steel bars, "Atbara cement" for plastering, and "Almohandis paint". These specific brand mentions indicate a preference based on proven performance or local availability. Contractors may propose equivalent alternatives, but any such alternatives must be of demonstrably equal or superior quality and must undergo rigorous approval by SAHARI's Supervisor. This approval process will necessitate the submission of samples and comprehensive technical data sheets for evaluation prior to any procurement or use on site.

4.2. Quality of Materials

All materials utilized in the works shall be of good quality, entirely suitable for their intended purpose, and free from any defects. Samples of all proposed materials must be submitted to SAHARI's Supervisor for approval upon request, prior to bulk procurement or installation.

Specific Material Requirements:

The following specific material requirements are derived from the Bills of Quantities and the general specifications:

- **Cement:** Ordinary Portland Cement of an approved brand and standard.
- **Sand:** Must be clean, sharp, and entirely free from deleterious substances.
- **Aggregate:** Shall be hard, durable, and clean, suitable for all specified concrete mixes.
- **Bricks (for storage rooms/repairs):** Must be well-burnt, solid, and of regular shape and size.
- **Timber (for doors/roofing):** Must be seasoned, sound, and free from knots, shakes, and insect infestation. It must be treated against termites where appropriate.
- **Paints:** Must be of good quality, durable, and suitable for the prevailing environmental conditions. The specific type (e.g., emulsion, oil-based) must be approved.
- **Tiles (floor):** Non-slip ceramic or an approved equivalent, durable and appropriate for high-traffic and wet environments such as latrines.

- **Squat Seats:** Must be of good quality, durable ceramic or reinforced plastic, as approved by the engineer.
- **Pipes and Fittings (Plumbing):** PPR pipes of appropriate class/schedule, adhering strictly to design specifications and SAHARI approval. All fittings must be fully compatible with the chosen piping system and of approved quality.
- **Water Pump:** A 1HP submersible or surface pump, as determined appropriate for the specific site conditions. It must be supplied complete with all necessary fittings, controls, and safety devices. Manufacturer's specifications and warranty details are to be provided.
- **Reinforcement Steel (if needed):** Deformed bars complying with relevant standards.
- **Fiber Cement Board:** For roofing, a good quality Fiber Cement Board sheet of 35mm thickness is required, designed with a 1:100 one-way slope.
- **Pressed Steel for Doors & Windows:** Hinged pressed steel doors and windows must be sourced from a reputable manufacturer. They shall be constructed from 1.2mm steel box-section and 8mm steel sheets. Frame dimensions are specified as 8x4cm and 6x3cm for doors, and 6x3cm for windows.

4.3. Toxicity

All materials proposed for use shall be certified as free of toxicity. Should any materials with potential toxicity be considered, the Contractor is obligated to consult immediately with SAHARI's Supervisor, provide comprehensive safety data sheets (SDS), and obtain explicit written approval prior to their use.

4.4. Storage

Materials shall be stored on site in a manner that effectively prevents deterioration, contamination, or damage from environmental factors or theft. Specifically, cement shall be stored in a dry, weatherproof shed, elevated from the ground to prevent moisture absorption.

5. Methodology for Rehabilitation and Construction Works

5.1. General Rehabilitation Principles:

This section outlines the fundamental principles and standard practices applicable to all rehabilitation and construction activities across the project sites.

5.1.1. Assessment and Preparation

Prior to commencing any work on a specific unit, the Contractor shall conduct a thorough assessment of the existing condition. Areas designated for repair or renovation shall be meticulously cleaned and prepared. This includes the careful removal of all loose materials, damaged plaster, peeling paint, or broken tiles.

5.1.2. Demolition and Removal

Demolition activities shall be executed with precision and care to prevent any damage to adjacent structures or components intended for retention. All debris resulting from demolition activities must be collected and removed from the site on a daily basis.

5.1.3. Plastering

Surfaces designated for plastering shall be thoroughly cleaned, roughened (if deemed necessary to ensure adhesion), and adequately wetted prior to application. Plaster shall be applied in the specified layers, achieving a smooth, even, and plumb finish. The cement-sand mortar mix ratio shall be approved by SAHARI, typically 1:4 or 1:5 for internal walls, and 1:3 or 1:4 for external or wet areas. For the storage rooms, a specific 0.02m thick cement/sand plaster (1:6) using Atbara cement and clean plaster sand is specified.

5.1.4. Painting

All surfaces to be painted shall be clean, dry, and properly prepared, including priming and filling of imperfections, before paint application. Paint shall be applied evenly in the number of coats specified or as required to achieve full, uniform coverage (minimum two coats). For the storage rooms, the application includes a prime coat, putty, and 2 coats of plastic emulsion paint to be finished with matte oil paint for internal walls, and 3 coats of emulsion Almohandis paint for internal and external plastered surfaces.

5.1.5. Tiling

Floor areas scheduled for tiling shall be screeded to the precise levels and slopes, with a minimum slope of 1:50 towards drains or squat pans to ensure efficient water drainage. Tiles shall be laid using an approved adhesive and grouted with a waterproof grout to ensure durability and hygiene.

5.1.6. Door Rehabilitation/Installation

Existing wooden doors slated for rehabilitation shall undergo necessary repairs, sanding, and repainting or varnishing. Hinges, locks, and handles are to be repaired or replaced as needed to restore full functionality and security. New doors shall be precisely fitted and installed with all necessary hardware.

5.1.7. Squat Seat Installation/Reinstallation

Squat seats shall be securely set in concrete or mortar, ensuring proper alignment, level installation, and a watertight seal to prevent leaks and ensure hygiene.

5.1.8. Plumbing Works

All plumbing installations, including pipes, taps, and connections, shall be executed by qualified and skilled plumbers. All joints must be watertight, and the entire system shall be rigorously tested for leaks upon completion. All sanitary appliances shall be properly connected to the designated disposal system.

5.1.9. Roofing

New roofing installations, particularly for the storage rooms at Ongab and Abu-Baker Alsiddig, shall be structurally sound, fully weatherproof, and securely fixed to withstand local conditions. Materials (e.g., Artameed, timber frame) must be approved by SAHARI. For the storage rooms, the specification includes a Fiber Cement Board sheet of 35mm thickness with a 1:100 one-way slope, and the rate includes all associated materials such as steel columns, rafters, purlins, galvanized steel sheet, thermal insulation, stiffeners, caps, facials, gutters, angles, and cleats.

5.1.10. Water Pump Installation

The 1HP water pump shall be installed strictly according to the manufacturer's instructions and industry best practices. This includes all necessary electrical connections (to be performed by a qualified electrician), suction and delivery piping, and any required foundation or protective housing. The installed system must undergo performance testing to confirm optimal operation.

5.2. Specific Methodologies for Major Works:

This section provides detailed technical specifications for the distinct rehabilitation and construction activities required at each health facility, integrating information from the Price Schedule and relevant Bill of Quantities.

5.2.1 Omer bn Alkhatib (Dar Alnaeem)

a. Water Cooling Unit Maintenance and Connection:

- Complete maintenance of the water cooling unit: This comprehensive task involves a thorough inspection of all critical unit components, including the compressor, condenser coils, evaporator coils, fan motors, and verification of refrigerant levels. It encompasses detailed cleaning of filters and coils, meticulous checking for any leaks, and ensuring the unit operates within optimal temperature and pressure ranges. Any worn or faulty parts identified during this process will be promptly repaired or replaced with new, compatible components.
- Reconnect water cooling units with elevated tanks and the main desalinated water network (the supply of only one 200L tank is required): This step is crucial for ensuring a continuous and reliable water supply to the cooling units. It involves extensive plumbing work to establish secure and leak-proof connections from the water cooling units to both the existing elevated storage tanks and the central desalinated water network. A specific requirement is the integration with one 200-liter elevated tank to serve as a buffer storage.
- Install a protection circuit to the water cooling units: This involves the installation of essential electrical safety devices, such as appropriately rated circuit breakers, surge protectors, and potentially low/high voltage cut-offs. These devices are to protect the water cooling units from electrical fluctuations, short circuits, and overloads, thereby extending their operational lifespan and ensuring safe operation.

b. Ground Tanks Assessment and Connection:

- Assess and maintain the two ground tanks (10 ton): This task includes a detailed inspection of the structural integrity of both 10-ton ground tanks to identify any cracks, leaks, or signs of corrosion. Maintenance involves thorough cleaning of the tanks, repairing any damage to their internal lining or structural components, and ensuring proper sealing to prevent contamination.
- Reconnect the old ground tank with the saline water source: This involves re-establishing a secure and leak-proof plumbing connection from the previously disconnected ground tank to the designated saline water source. This ensures that the tank can be efficiently refilled for non-potable uses as required.

c. Latrine and Ablution Area Rehabilitation:

- Reconnect eight latrines and two ablution areas with the saline water tank (including water pump, shataffas, etc.): This critical and comprehensive plumbing work involves linking all eight latrines and both ablution areas directly to the saline water ground tank. The scope includes the installation or reconnection of necessary water pumps to ensure adequate water pressure for all outlets, and the fitting or replacement of shataffas (handheld bidets) and other specified water outlets.
- Rehabilitate the latrines' flush systems (tanks, connections, etc.): This involves the repair or replacement of faulty flush mechanisms, fill valves, flush handles, and all associated connections and piping within the cisterns of the latrines, ensuring efficient and reliable flushing operation for all units.

- Perform a plumbing check and rehabilitate latrine manholes (50x50): A full plumbing inspection of all drainage lines connected to the latrines will be conducted to identify any blockages or leaks. The 50x50 cm manholes will be thoroughly cleaned, repaired (e.g., resealing joints, repairing damaged walls), and fitted with secure, appropriate covers to ensure both accessibility for maintenance and public safety.
 - Rehabilitate two ablution areas (plumbing check, taps, etc.): This involves inspecting, repairing, or replacing all plumbing components within both ablution areas, including water supply lines, drainage systems, and taps. Any missing or damaged fixtures will be replaced to ensure full functionality and hygiene.
 - Install handwashing sets in the internal latrine units: Each internal latrine unit is to be fitted with a complete handwashing setup, typically comprising a basin, a functional faucet, and a proper drainage connection, to promote improved hygiene practices.
 - Renovate the paintwork and finishing of the eight latrine units: This involves preparing all surfaces by thorough cleaning and undertaking minor repairs to plaster or other wall surfaces, followed by the application of fresh paint and ensuring a clean, presentable finish for all eight latrine units, thereby improving their appearance and overall sanitation.
- d. Door and Electrical Rehabilitation:
- Renovate four wooden doors, including finishing, paintwork, locks, and handles: This involves sanding, repairing any structural or surface damage, repainting or varnishing the wooden doors to a high standard, and replacing or repairing all locks and handles to ensure security and full functionality.
 - Renovate four aluminum doors, including locks, and handles: This involves cleaning, repairing any minor dents or scratches on the aluminum doors, and replacing or repairing all locks and handles to restore full functionality and security.
 - Rehabilitate the latrines' electricity connection and tools, including lighting and ventilation, etc.: This constitutes a comprehensive electrical overhaul, including inspecting and repairing or replacing all wiring, switches, sockets, and lighting fixtures within all latrine units. It specifically includes ensuring the proper functioning and efficiency of lighting and ventilation systems (e.g., exhaust fans) for user comfort and air quality.
- e. Desalination Unit Rehabilitation (1 ton):
- Replacement of the high-pressure pump motor: This involves the careful removal of the existing high-pressure pump motor and the precise installation of a new, compatible motor to restore the optimal operational pressure required for efficient desalination.
 - Replacement of the sand filter media: The existing sand media within the filter will be completely removed and replaced with new, high-quality sand filter media to enhance water clarification and improve the pre-treatment stage for the desalination process.
 - Replacement of the chemicals: This involves replenishing or replacing all necessary chemicals utilized in the desalination process, such as anti-scalants, coagulants, or disinfectants, to ensure efficient membrane performance and maintain the desired water quality.
 - Rehabilitation of electric work: This includes a thorough inspection, repair, or replacement of all electrical components and wiring associated with the desalination unit to ensure a safe, reliable, and consistent power supply and control.

- Replacement of the membrane (4-inch): The critical 4-inch reverse osmosis membrane, which is responsible for the primary salt removal process, will be replaced with a new one to restore the unit's desalination efficiency and water purity to optimal levels.
- Rehabilitation of the ventilation system: This involves inspecting, cleaning, repairing, or replacing components of the desalination unit's ventilation system to ensure proper air circulation and heat dissipation, preventing overheating and maintaining optimal operating conditions for the unit.

5.2.2 Dar Alsalam

a. Latrine System and Ablution Area Rehabilitation:

- Replacement of the flushing system of 4-drop hole latrine unit to a direct system (8m farther point from the septic tank): This involves converting the existing waste disposal method for the 4-drop hole latrine units. The new "direct system" will necessitate extending the waste pipe an additional 8 meters to establish a direct connection to a more distant point of the septic tank, thereby bypassing the traditional drop-hole mechanism and potentially improving waste flow and overall sanitation.
- Supply and installation of 3 squat and 1 VIP seats: This involves the procurement and secure installation of three standard squat plates and one VIP (Ventilated Improved Pit) toilet seat in the designated latrine units, offering different user preferences as per the facility's needs.
- Maintenance of the water pump: This includes a thorough inspection of the water pump for any signs of wear and tear, lubrication of all moving parts, checking of electrical connections, and ensuring it operates efficiently to supply water to both the latrine and ablution areas. Any necessary repairs or adjustments will be made to optimize performance.
- Rehabilitation and reconnection of 2 ablution areas, including taps, missing tiles and drain system: This comprehensive rehabilitation includes inspecting and repairing all existing plumbing, replacing or installing new taps as required, re-tiling areas where tiles are missing or damaged, and ensuring the drainage system is completely clear and fully functional to prevent waterlogging and maintain hygiene.

b. Water Cooler Supply and Installation:

- Supply and installation of a water cooler with an additional elevated 200L tank: This involves the provision of a new water cooler unit and its installation, complete with a dedicated 200-liter elevated tank. This setup is to ensure a consistent and reliable supply of cooled drinking water, including all necessary plumbing and electrical connections for full functionality.

5.2.3 Um Algora

a. Water Network Connection and Construction:

- Reconnection of the center with the municipal water network: This involves establishing or re-establishing a direct and compliant plumbing connection from the center's internal water supply system to the main municipal water network. This ensures a reliable and regulated source of potable water for the facility.

- Construction of an ablution area with 3 taps: This involves the complete construction of a new, designated ablution area. The scope includes laying a reinforced concrete base, installing an efficient drainage system, and fitting three functional taps for washing purposes. The construction will conform to all local standards for public ablution facilities.
- b. Water Supply System:
 - Supply and installation of a water cooler with an additional elevated 200L tank: This involves the provision of a new water cooler unit and its installation, complete with a dedicated 200-liter elevated tank. This setup is to ensure a consistent and reliable supply of cooled drinking water, including all necessary plumbing and electrical connections for full functionality.
 - Supply and installation of a 2000L tank with a water pump and a tap stand: This involves the procurement and installation of a large 2000-liter water storage tank. The system will be completed with a suitable water pump to ensure adequate pressure for water distribution, and a tap stand for easy access and dispensing of water. This creates a robust and centralized water storage and distribution point for the facility.

5.2.4 Algadesea

- a. Latrine Unit Rehabilitation:
 - Rehabilitation of the latrine unit plaster and painting: This involves repairing any cracks or damage to the plaster walls of the latrine unit, ensuring a smooth surface. This will be followed by thorough cleaning and the application of a fresh coat of paint to improve hygiene and overall appearance.
 - Supply and installation of 1 squat seat: This involves the procurement and secure installation of one standard squat plate in the designated latrine unit, ensuring proper alignment and sealing.
 - Supply and installation of floor tiling: This involves preparing the floor surface within the latrine unit, supplying appropriate and durable floor tiles (non-slip ceramic or approved equivalent), and professionally installing them to ensure a hygienic, easy-to-clean, and long-lasting surface.
- b. Electric network and tools:
 - Supply and installation of electric wiring: This involves installing new electrical wiring or rehabilitating existing wiring within the facility to ensure a safe and reliable power supply for lighting and other electrical fixtures. All wiring must comply with relevant electrical safety standards.
 - Supply and installation of electric tools, including sockets, fans, lighting, etc.: This involves providing and installing essential electrical components such as power sockets, exhaust fans for ventilation (to enhance air quality), and appropriate lighting fixtures within the facility to enhance user protection, comfort, and functionality.
 - Supply and installation of seating for the waiting area: This involves the procurement and installation of durable seating arrangements (e.g., benches or chairs) in the designated waiting area located inside the center, providing comfort for users.

c. Installation of 9 protection grills on windows and facilities doors: This involves the professional and secure installation of the nine pre-supplied protection grills to windows of two specified sizes in addition to four doors for the main entrance and internal rooms. The contractor is responsible for providing all necessary materials, including fasteners, bolts, and any welding equipment, as well as all labor to ensure the grills and doors are fixed for safety purposes. The work also includes a site survey to verify the exact locations and dimensions of the installations and the post-installation finishing of all connection points with primer and paint to prevent rust and ensure a cohesive appearance.

5.2.5 Ongab:

Construction of Storage Room with Sheds

This section details the specific requirements for the construction of the Health Center Store with an integrated waiting area shade at Ongab, as indicated in the Price Schedule.1 All works shall strictly adhere to the specifications and quantities outlined in the Bill of Quantities for "Health Center Store (With Shader)".

a. Latrine and Door Rehabilitation (as per Price Schedule):

- Rehabilitation of 2 drop hole latrine plaster and paint work: This involves repairing any cracks or damage to the plaster walls of both existing drop-hole latrines, followed by thorough cleaning and the application of a fresh coat of paint to improve hygiene and appearance.
- Rehabilitation of wooden door frames, paintwork, locks, handles, etc.: This involves inspecting and repairing any damage to the wooden door frames, applying fresh paint or varnish, and replacing or repairing all locks and handles to ensure the security and proper functioning of the latrine doors.

b. Water Supply and Ablution Area (as per Price Schedule):

- Supply and installation of a water cooler: This involves the procurement and installation of a new water cooler unit, including all necessary plumbing and electrical connections, to provide accessible cooled drinking water.
- Construction of an ablution area with 2 taps: This involves the complete construction of a new designated ablution area, including laying a concrete base, installing an efficient drainage system, and fitting two functional taps for washing, conforming to local standards for public ablution facilities.

c. Construction of Storage Room with Sheds:

The construction of the storage room with sheds at Ongab requires adherence to the following detailed specifications:

○ Earthwork and Excavation:

- Excavation should be as per standard technical specification. Price inclusive of planning, excavation & filling of sides if necessary, removal of soils and disposal of it out of site and clearance of beds to the required depth as per technical drawings.
- Excavation for strip foundation: 13 ml, 0.60m width x 0.80m depth, cart away excavated soil.
- Provide and apply uneven stone for strip foundation: 13 ml, 0.60m width x 0.80m height above plain concrete.

- Backfilling:
 - Backfilling to all building under ground floor plain concrete.
 - Backfilling with selected material: 9.8 m³, non-expansive, well-graded, approved by engineer, deposited in 15 cm layers, 0.30m depth, watered & well compacted.
- Concrete works:
 - Rates include all equipment, frameworks, struts, bracing, scaffolding, accessories, materials (reinforcing steel, tying wire, cement, sand), watering and curing for at least 5 days.
 - Plain Concrete:
 - Plain concrete under strip foundation: 7.8 m², 5cm thickness, mix 1:3:6 (grade 15), smooth surface, required expansion joints.
 - Plain concrete for floor slab: 4.9 m³, 0.15m thickness, mix 1:3:6 (grade 15), light reinforcement Y10@150C/C, smooth surface, required expansion joints.
 - Reinforcement Concrete:
 - Provide all materials for reinforcement concrete (RC). All steel bars from "Al Asaad Steel". Cost shall include rod reinforcement (grade 640N/mm² for all sizes), providing materials, cutting to sizes, bending to shape and fixing in position as per drawings and specifications.
 - Reinforcement concrete for strip foundation grade beam: 1.17 m³, Grade 25, mix 1:2:4, 4Ø16mm STR 8mm @ 150mm C/C, (0.30m X 0.30m).
 - Reinforcement concrete for doors and windows lintel: 5.2 ml, Grade 25, mix 1:2:4, Y16@15C/C, 0.15m thickness.
- Brick & Masonry works:
 - Rates include building with ordinary red burned bricks in cement/sand mortar (1:6) for one-brick wall or more, (1:4) for half-brick wall, engineer approval, net measure, scaffolding, cutting for bond/openings, materials & labor. Allowance for door/window openings.
 - 2 brick wall from strip foundation: 13 ml, Ordinary red, burned bricks, mix 1:6 C/S mortar, height 0.15m.
 - 1 brick wall from floor level to roof: 45.5 m², Ordinary red, burned bricks, mix 1:6 C/S mortar, 3.50m height for outer walls.
 - ½ brick wall Partition walls for parapet: 13 ml, Ordinary red, burned bricks, mix 1:6 C/S mortar, from roof level up to 0.30m height.
- Roofing:
 - Rates include installation, labor, cutting, fixing, drilling, riveting, and 2 coats of approved paint before delivery of Timber work.
 - Fiber Cement Board sheet: 35.7 m², Good quality, 35mm thickness, 1:100 one-way slope. Includes Wooden column, rafters, purlins, Cement board sheet, thermal insulation, stiffener, cap, facial, gutter, angles, cleats. Sample for approval.
 - Timber (Wood) Columns: 5 No, Good quality, 0.20m x 0.10m x 3.50m, to support waiting area shade.

- Plastering works:
 - Rates include supply of all materials, galvanized angles (exposed edges), galvanized mesh (between wall and Concrete), mixing, scaffolds, curing, workmanship & tools. 0.02m thick cement/sand plaster (1:6), Atbara cement, clean plaster sand.
 - Plastering to internal walls: 51 m2, 0.02m thick cement/sand plaster (1:6).
 - Plastering to external walls: 96 m2, 0.02m thick cement/sand plaster (1:6).
- Painting works:
 - Provide materials and apply prime coat, putty and 2 coats plastic emulsion paint.
 - Painting internal walls: 51 m2, Finished with matte oil paint.
 - Painting external walls: 96 m2, 3 coats of emulsion Almohandis paint for internal & external plastered surfaces.
- Doors & Windows:
 - Provide and erect hinged pressed steel doors and windows from reputable source. 1.2mm steel box-section, 8mm steel sheets. Frame dimensions: 8x4cm and 6x3cm for doors, 6x3cm for windows. Rate to include ironmongery, factory powder painted, fastener, bolts, hinges, cutting, welding, finishing, locks. Sample for approval.
 - Exterior Door type (main entrance): 1 No, 1.00m x 2.20m.
 - Window (ventilation): 1 No, 1.00m x 1.20m, with metal steel bars at external side for safety.
 - High Level Window (ventilation): 2 No, 1.50m x 0.75m, with metal steel bars at external side for safety.

5.2.6 Abu Bakr Alsiddig (Shagar): Construction of Storage Room

This section details the specific requirements for the construction of the Health Center Store at Abu Bakr Alsiddig (Shagar), as indicated in the Price Schedule.1 All works shall strictly adhere to the specifications and quantities outlined in the Bill of Quantities for "Health Center Store".

a. Construction of Storage Room:

The construction of the storage room at Abu Bakr Alsiddig requires adherence to the following detailed specifications:

- Earthwork and Excavation:
 - Excavation should be as per standard technical specification. Price inclusive of planning, excavation & filling of sides if necessary, removal of soils and disposal of it out of site and clearance of beds to the required depth as per technical drawings.
 - Excavation for strip foundation: 13 ml, 0.60m width x 0.80m depth for Store and cart away the excavated soil from site.
 - Provide and apply uneven stone for strip foundation: 13 ml, 0.60m width x 0.80m height above plain concrete.
- Backfilling:
 - Backfilling to all building under ground floor plain concrete.
 - Backfilling with selected material: 2.7 m3, non-expansive, well-graded selected material approved by engineer, deposited in 15 cm layers, depth 0.30m, watered & well compacted to achieve the required density.

○ Concrete works:

- Rates shall include but not limited all equipment necessary for transferring, depositing and discharging concrete, all types of frameworks required to give fair-face concrete, all struts bracing, scaffolding or staging and accessories, all materials including reinforcing steel bars, tying wire, cement, sand....etc. watering and curing with clean water for at least 5 days.
- Plain Concrete:
 - Plain concrete under strip foundation: 7.8 m², 5cm thickness, mix 1:3:6 (grade 15), smooth surface finish and required expansion joints as per specifications and drawings.
 - Plain concrete for floor slab: 1.35 m³, 0.15m thickness, mix 1:3:6 (grade 15) for floor slab with light reinforcement Y10@150C/C with smooth surface finish and required expansion joints as per specifications and drawings.
- Reinforcement Concrete:
 - Provide all materials for reinforcement concrete (RC). All steel bars from "Al Asaad Steel". Cost shall include rod reinforcement (grade 640N/mm² for all sizes), providing materials, cutting to sizes, bending to shape and fixing in position as per drawings and specifications.
 - Reinforcement concrete for strip foundation grade beam: 1.17 m³, Grade 25, mix 1:2:4, 4Ø16mm STR 8mm @ 150mm C/C for strip foundation grade beam (0.30m X 0.30m).
 - Reinforcement concrete for doors and windows lintel: 3.3 ml, Grade 25, mix 1:2:4, Y16@15C/C for doors and windows lintel thickness 0.15m.

○ Brick & Masonry works:

- Rates shall include but not limited all: Provide & build (ordinary red burned bricks) in cement/sand mortar (1:6) for one brick wall or more, (1:4) for half brick wall, all types of bricks to be approved by engineer. All measure will be net. All scaffoldings, all cutting to form bond, opening holes and all required materials and labors. Rates shall allow for required opening of doors, windows....etc.
- 2 brick wall from strip foundation: 13 ml, Ordinary red, burned bricks, mix 1:6 C/S mortar from strip foundation Height (0.15m) as per drawing.
- 1 brick wall from floor level to roof: 45.5 m², Ordinary red, burned bricks, mix 1:6 C/S mortar from floor level up to roof level of 3.50m height for outer walls.
- ½ brick wall Partition walls for parapet: 13 ml, Ordinary red, burned bricks, mix 1:6 C/S mortar from roof level up to 0.30m height for parapet walls.
- Brick wall as steps: 1 Job, supply and build brick wall mix 1:6 C/S mortar as steps (1 riser @ 0.15m height) and width of 1.2m with good finishing and plastered in C/S mortar 1:6 mix as per drawings.

○ Roofing:

- Rates shall include Installation, labor, straight cutting, fixing, drilling, riveting, etc. and 2 coat of approved paint before delivery of Timber work as per drawings and specifications.
- Fiber Cement Board sheet: 12.11 m², Good quality, 35mm thickness with 1:100 one way slope. Rate shall include all material eg. Wooden column, rafters, purlins, cement board sheet, thermal insulation, stiffener, cap, facial, gutter, angles, cleats, etc. & labor & fixing in position as per drawing & specification. Sample must be submitted and approved.

- Plastering works:
 - Provide & apply 0.02m thick cement/sand plaster (1:6), mix (Atbara cement) and clean plaster sand free from mud and grass, all materials to be checked by site engineer. Prices of plastering works shall include supply of all materials, galvanized angles (for exposed edges), galvanized mesh (between wall and Concrete) mixing, scaffolds, curing, workmanship & tools and anything else needed, all according to drawings, specifications, conditions, and directed instructions by the engineer or his representative.
 - Plastering to internal walls: 51 m2.
 - Plastering to external walls: 96 m2.
- Painting works:
 - Provide materials and apply prime coat, putty and 2 coats plastic emulsion paint to be finished with matte oil paint for internal walls, for internal & external plastered surfaces 3 coats of emulsion Almohandis paint.
 - Painting internal walls: 51 m2.
 - Painting external walls: 96 m2.
- Doors & Windows:
 - Provide and erect hinged pressed steel doors and windows from a reputable source. All should be made of 1.2mm steel box-section and 8mm steel sheets. Frame dimensions are: 8x4cm and 6x3cm for doors and 6x3cm for windows. Rate to include ironmongery and factory powder painted, fastener, bolts, hinges, cutting, welding, finishing, locks as per drawings and specifications. Sample to be approved by engineer.
 - Exterior Door type (main entrance): 1 No, 1.00m x 2.20m.
 - Window (ventilation): 1 No, 1.00m x 1.20m and to fix metal steel bars at the external side for safety purposes.
 - High Level Window (ventilation): 1 No, 1.50m x 0.75m and to fix metal steel bars at the external side for safety purposes.

VI. Waste Management

6.1. All construction and demolition waste, including excavated material, old fixtures, and packaging, shall be regularly collected and transported off-site by the Contractor to an officially designated disposal site. This process must adhere to the principles of environmentally sound waste management, ensuring that disposal methods minimize environmental impact.

6.2. The Contractor shall actively pursue efforts to recycle materials where feasible and appropriate, contributing to sustainable project practices.

6.3. No burning of waste is permitted on site under any circumstances.

VII. Testing, Inspection, and Handover

7.1. Testing and Verification

The Contractor shall conduct thorough tests to verify the proper functioning of all rehabilitated and newly constructed components. This includes:

- Leak tests for all plumbing works, septic tanks, and wells to confirm watertight integrity.
- Operational tests for water pumps and ablution facilities to ensure full functionality and performance.
- Verification of structural stability for all new constructions, including VIP latrines, roofs, and slabs, to confirm safety and adherence to design.
- Confirmation of correct floor slopes for drainage to prevent water accumulation and ensure hygiene.

7.2. Inspection

SAHARI's Supervisor retains the right to inspect the works at all stages of the project. The Contractor shall provide full access and necessary assistance for such inspections. Any work found not conforming to the specified requirements shall be rectified by the Contractor entirely at their own cost.

7.3. Final Inspection and Handover

Upon the completion of all works at each site, the Contractor shall formally request a final inspection. Once SAHARI's Supervisor is satisfied that the works have been completed in strict accordance with the specifications and Bill of Quantities, a completion certificate will be issued, and the facility will be formally handed over.

VIII. Deficiencies

8.1. In the event of deficiencies in the work, SAHARI's Supervisor shall have the right to reject the work totally or partially, or to require the replacement or rectification of the rejected portion of the work.

8.2. Any costs incurred due to materials, labor, or equipment expended on rejected work, or for its subsequent rectification, shall be borne entirely by the Contractor at their own expense.

8.3. Work may be rejected for reasons including, but not limited to:

- Failure to adhere to the approved Rehabilitation Plan or methodologies.
- Use of unapproved or substandard materials.
- Poor workmanship, evidenced by issues such as uneven plaster or paint, loose tiles, leaking plumbing, or unstable structures.
- Repaired or newly installed components failing to function as intended (e.g., blocked drains, non-operational pump, leaking septic tank).
- Incomplete work as per the Bill of Quantities.
- Failure to meet specified health, safety, or environmental requirements.
- Any failure of the rehabilitated or constructed works prior to formal handover to SAHARI.
- Insufficient provision of information required in these specifications or requested by the Supervisor.