INVITATION TO BID ITB/HD-CARE BMZ/2020/020
DATE OF ISSUANCE: 19th of August 2020
CLOSING DATE AND TIME: 2th of September, 12:00 PM

1. BACKGROUND

Harikar NGO and CARE International in Iraq, partner in order to do a project of Extension and rehabilitation of water networks in Sinjar District, the provision of this service is planned under CARE International in Iraq, implemented by Harikar NGO and funded by the German Federal Ministry of Economic Cooperation and Development (BMZ).

CARE International is a major international humanitarian agency delivering emergency relief and long-term international development projects. Founded in 1945, CARE is nonsectarian, impartial, and non-governmental organization strives to serve individuals and families in the poorest communities in the world. Drawing strength from our global diversity, resources and experience, we promote innovative solutions and are advocates for global responsibility.

HARIKAR NGO was founded in 2004 with the purpose of developing civil society and ensuring protection of the disadvantaged ones.

HARIKAR NGO invites qualified service providers to make a firm offer for the establishment of one or more contracts for the provision referred to hereafter as “services”. The contract is planned to start as soon as possible.

Note that this document is not construed in any way as an offer to contract with your firm. It is strongly recommended to read this Invitation to Bid and its Annexes, thoroughly. Failure to observe the procedures lay out therein may result being disqualified from the evaluation process.

2. BID INFORMATION

The following annexes form integral part of this Invitation to Bid:
- Annex A: Scope of work
- Annex B1, B2, B3: Financial offer (Bill of Quantity)

2.1 REQUIRED DOCUMENTS

Tender dossier completion including the following

1. Completed tender document including:
   a. Valid company registration
   b. Company CV with staff key staff profile
   c. Tax clearance
   d. Bank account with recent bank statement (not less than 1 month)
   e. Sealed priced offers
The evaluation of bids submitted by vendors will be based on the following:

2. Technical bid evaluation as per 2.2 criteria's below, please fill out all the tables in point C for technical evaluation, to evaluate your company.

3. Financial evaluation (value for money)

Disclaimers

1. Bidder who failed to submit a complete tender dossier will be disqualified and disregarded; only bidders with complete dossier will be evaluated technically. Only the bidders passed the technical evaluation will be qualified for the financial evaluation.

2. Bidders, with the best value for money and the highest technical capacities as per the technical evaluation matrix will be recommended to pass to the awarding committee for awarding.

3. Harikar is not obliged to select the lowest bid price.

### 2.2. Selection and award criteria

Criteria that will be used to evaluate and score the bids is as follows:

- **60%** - Technical offer, 60 points.
- **40%** - Commercial offer – Price based on Value for Money, 40 points.

<table>
<thead>
<tr>
<th>#</th>
<th>CHAPTER</th>
<th>SCORE/WEIGHT</th>
<th>TERMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>Work experience</td>
<td>35points</td>
<td>General work: (total years and experience in the field) Particular work: work experience with INGOs in same area Ninewa:</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>• Experience in water network / infrastructure construction.</td>
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<td>• Experience working with INGOs in the same area (Ninewa after 2017. Sinjar)</td>
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<td></td>
<td>• Projects Duration, Budget and References</td>
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<td></td>
<td></td>
<td></td>
<td>• Total value of the completed Projects</td>
</tr>
<tr>
<td>b</td>
<td>Personnel</td>
<td>15points</td>
<td>• Management personnel:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Technical personnel:</td>
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<td></td>
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<td></td>
<td>• Field staff including the safety and security officer:</td>
</tr>
<tr>
<td>c</td>
<td>Company Assets</td>
<td>15points</td>
<td>• List of company equipment and machinery according to the project needs</td>
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<td></td>
<td></td>
<td></td>
<td>• Proof of company equipment and machinery (Ownership proof or Rental proof)</td>
</tr>
<tr>
<td>d</td>
<td>Proposed Work Plan</td>
<td>15points</td>
<td>• Logical sequence of the works breakdown.</td>
</tr>
<tr>
<td>e</td>
<td>Quality Assurance</td>
<td>20points</td>
<td>• Timeframe compared to the project duration.</td>
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<td></td>
<td>Materials Compatibility (quoted brand vs proposed brand) Origin certificate and / Or specification kit-log</td>
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</table>
The following are proposed disqualifying factors applies:
- Zero proven experience in the field of the service the supplier is applying for.
- Proposed workplan is not fit to the project duration.
- Origin / specification is not fit or not equivalent to the one described in the tender documents.

**a) Administrative Evaluation**

The bid shall pass the administrative evaluation stage before being considered for financial and technical evaluation. Bids that are deemed administratively non-compliant may be rejected. Documents listed above in 2.1 paragraph shall be submitted and verified during the administrative process.

**b) Financial Evaluation**

All bids that pass the Financial Evaluation will proceed to consideration with the technical evaluation.

**c) Technical Evaluation**

A Technical Evaluation of all bids received will be performed considering all the shortlisted bidders that satisfy the criteria of Administrative Evaluation.

**Work Experience 35 point**

<table>
<thead>
<tr>
<th>#</th>
<th>Project Name</th>
<th>Contractor/Company name</th>
<th>Location</th>
<th>Duration “Date From to”</th>
<th>Project Value</th>
<th>Project Type</th>
<th>Reference Contact Details</th>
</tr>
</thead>
<tbody>
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</table>

General work: 5 points (total years and experience in the field)
Particular work: 20 points
- Experience in water network rehabilitation and pump station units project
- Work experience with INGO
- Previous working experience with Care on water project
- Project duration, budget and reference
- Total value of the completed project

NGO experience: 10 points

**Personal (both general and allocated to the project) 15 point**

The offer must include a detailed CV for each staff, clearly integrating and representing the Management Structure and Technical Support Structure.

Minimum requirements are set per rehabilitation lot expect for the management structure:

Management Structure:
- Project Manager
- Finance officer
- Logistic officer
- Safety and Security officer
Technical Support Structure: Could be shared between sites, if sequence of the proposed activities in the work plan allows:
- Main Site Supervisor/Engineer 10+ Years' Experience.
- Civil Engineer 5+ Years' Experience.
- Mechanical Engineer 5+ Years' Experience.
- Electrical Engineer 5+ Years' Experience.

Field Technicians:
- Electrician.
- Plumber.
- Mason.
- Foreman

The evaluation is in terms of:
- Management Structure and Qualification (Academic Background and Total Number of Years of Experience) 5point
- Technical Support Structure (Number and experience of Civil, Mechanical and Electrical Engineers) 5point
- Field Staff (Number and specialty of technicians 5point

The evaluation of the personnel shall take into consideration the company current ongoing projects compared to the scale of the tender and the required staff to complete the works on time and to maintain the quality standards.

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Academic Qualification</th>
<th>Total Years of Experience</th>
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<tbody>
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</tbody>
</table>

The offer must include the detailed CV of each staff integrating the Management Structure and the Technical Support Structure.
Company assets (both general and allocated to the project)
Minimum requirements depend on the scale of the project need are the company should have but not be limited to: 2 Vehicles 4x4, 2 Trucks transportation of material, 1 compactor, 2 Excavators, 1 Crane, 1 cutter Machine, 1 Shovel Loader, 1 electro-fusion welding machine, 1. Hydraulic test machines (air compressor for 16 bars pressure)

Table 5: asset of the company

<table>
<thead>
<tr>
<th>Asset</th>
<th>Model</th>
<th>Number</th>
<th>Ownership Status (owner / Rental)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

The evaluation should include:
- List of equipment owned by the company.
- Proof of ability to acquire the requested machineries (lease agreement/ Machinery supplier confirmation)

The evaluation of the company assets shall take into consideration the company current ongoing projects compared to the scale of the tender and the required equipment to complete the works

Proposed work plan 15 points
Please attach your Gantt Chart with logical sequence of work and clear date of activity
Evaluation in terms:
- Logical sequence of the works breakdown.
- Timeframe compared to the project duration.

Quality assurance 20 points
Water network rehabilitation and pump station

<table>
<thead>
<tr>
<th>ITEM/ ACTIVITY</th>
<th>ORIGIN</th>
<th>AMOUNT OF THE MATERIAL TO TEST</th>
<th>PERIOD OF THE TEST</th>
<th>TESTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>All sizes of polyethylene pipes</td>
<td>European or Turkish origin</td>
<td></td>
<td>need certificate of origin for proof.</td>
<td></td>
</tr>
<tr>
<td>All sizes of polyethylene valves and connection parts.</td>
<td>European origin</td>
<td></td>
<td>need certificate of origin for proof.</td>
<td></td>
</tr>
<tr>
<td>Concrete 20.6 Mpa for the place that have been excavated for pipes</td>
<td></td>
<td>10 Concrete cubes</td>
<td>6-28 days</td>
<td>Certificate from the Directorate for 3 cubes for six days and 12 cubes for 28 days</td>
</tr>
</tbody>
</table>

Page 5 of 8
<table>
<thead>
<tr>
<th>Water network cleaning</th>
<th>Certificate from the Directorate of water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic test</td>
<td>Certificate from the Directorate of water</td>
</tr>
</tbody>
</table>

**Evaluation in terms:**

- Materials Compatibility (Details on the supplied materials origin, certification, manuals, etc) 10 points. Please supply all supporting documents you have.
- Description of the service (General understanding of the service/construction/installation items within the BoQ) 10 points.

**Note**

- Please note that the technical evaluation scoring is made out 100 Points but weighted as 60% of the total tender scores. The 100 points are distributed as in above table.
- Contractors scoring less than 60 points of the total technical check will be disqualified from proceeding with the bidding process or if one of the following disqualifying factors applies:
  - Zero proven experience in the field of the service the supplier is applying for.
  - Proposed workplan is not fit to the project duration.
  - Origin/specification is not fit or not equivalent to the one described in the tender documents.
- Please note that the Technical Offers will be evaluated in accordance to the adequacy of the resources for the proposed works. In addition, the Financial Offers will be evaluated proportionately.
- Contracts will be awarded to the highest-scoring offer considering the administrative and financial criteria.
- Harikar has the right to cancel or change any of the location if necessary, based on the need on ground.
- The bidders have the right to apply for more than one lot, only if they prove their capabilities (in terms of Timeframe, Personnel, financial, technical and Equipment) to work on more than one lot simultaneously.
- If supplier apologised after he submits his offer, their later offers will be rejected for 6 months.
- The bidders cannot submit more than one offer under same company name.
- Each Bid shall include a unique Company representative and Signature, Phone Number, Stamp, and Email Address. And any similarities could be found will result in rejecting all related bidders.

**3. REQUESTS FOR CLARIFICATION**

Bidders are to submit any requests for clarifications/questions with respect to this ITB by e-mail or Phone call to (contact No: 0751-424-9705) or Email to aram@harikar.org (Aram Sherko Ali), Harikar Procurement Officer) on or before 00th of July 2020, 12:00 PM. Correspondence with any other HARIKAR NGO, and CARE International in Iraq staff member or contractor in respect of this ITB is not permitted and may constitute grounds for disqualification.

**IMPORTANT:** Bid Submissions are not to be sent to the e-mail address above. Inclusion of copies of your offer with any correspondence sent directly to any other address than the address indicated below will be disqualified. You will find the submission email address in the “Submission of Bid” Section 3 of this ITB. The Offers must bear your official letterhead, clearly identifying your company. Bids should be delivered in sealed and stamped envelope to HARIKAR NGO at Nohadra Q.Jeen Street, House #13,1005 BA.
4. CONTENT OF THE TECHNICAL AND THE FINANCIAL OFFER

Your offer shall be prepared in English. Please submit your offer only using the Annexes provided. Any offers not conforming to the requested formats may be not taken into consideration; the offers must be signed, stamped, scanned, and uploaded as two documents labeled Financial and Technical.

Your Financial Offer must be in USD only. The financial offer must cover all the works and services to be provided including transportation to the target location (price "all inclusive").

The Financial Offer is to be submitted as per duly filled out Bill of Quantities in Annex B. Bids that have a different price structure may not be accepted. Please give all-inclusive prices. HARIKAR NGO is exempt from all direct taxes, customs duties and VAT. With this regard, price has to be given without VAT. For the purpose of evaluating the bids, the value of the Bill of Quantities shall be used and compared. Note: the bidder should apply for all the items stated in Bill of Quantities, otherwise the offer will be disqualified.

HARIKAR NGO's standard payment terms are within 30 days after satisfactory implementation and receipt of documents in order.

Note that the cost of preparing a bid and of negotiating a contract, including any related travel, is not reimbursable nor can it be included as a direct cost of the assignment.

IMPORTANT:
The Financial Offer will only be opened for evaluation if your company complies with the criteria indicated above / is meeting the Harikar NGO technical specifications.

5. SITE VISIT

Unless otherwise instructed in writing by Harikar NGO, all bidders are invited to visit the following locations at the specified time and place on the following dates:

18th of August 2020 to 27th of August 2020
from 9:00 AM to 3:00 PM

- Location Sinjar District
- AL-Sultan Neighborhood In Sinuni sub-district “6.462375, 41.718585”.
- Al-Shuhada Neighborhood In Sinjar Center “36.318878, 41.866064”.
- Al-kharba Neighborhood (Al-sharqiya village) In Sinuni sub-district “36.464129, 41.716647”.
- For Construction Work (Eng. Hazim Omar Mustafa 0750 943 4891, hazemmustaffa70@gmail.com)

The site visit will be conducted for the purpose of providing background information only. The site inspection shall not be mandatory. A bidder who does not attend the site visit will not become ineligible to submit a bid under this ITB. Bidders participating in a site inspection shall be responsible for arranging their own transportation and wearing appropriate personal protective equipment if needed. Bidders are requested to note that Harikar NGO will not be liable for loss or damage to any real or personal property; personal injury, disease or illness to, or death of, any person; financial loss or expense, arising out of the visit of any site. Harikar NGO will not issue any formal answers to questions from bidders regarding the ITB or bid process during a site visit. Bidders shall not rely upon any information, statement or representation made at a site visit unless that information, statement or representation is confirmed by Harikar NGO in writing.
6. BID SUBMISSION / DEADLINE AND BID ACCEPTANCE

The Offers must include a copy of your official letterhead, clearly identifying your company. Bids should be delivered in sealed and stamped envelope to HARIKAR NGO at Nohadra Q, Jeevn Street, House #13, 1006 BA. Submissions can also be made online, by sending the offers to tender@hariker.org. All submission must include the required documents and only using the attached documents provided. Any documents sent for evaluation not in the format provided are subject to disqualification.

The process of tendering
- Tender announcement
- Site visit
- Tender closing
- Bid opening
- Administrative evaluation
- Financial evaluation
- Technical evaluation
- Contract award
- Notification of contract award

The Technical and Financial Offers shall be clearly separated.
Submission Deadline: 2nd of September 2020, 12:00 PM
Opening of bids: 3rd of September, 09:30 AM
Please indicate on the cover of the envelope the following:
- ITB/HD CARE BMZ/2020/020
- Name of your firm

IMPORTANT:
Any bid received after this date or sent to another address may be rejected. HARIKAR NGO may, at its discretion, extend the deadline for the submission of bids, by notifying all prospective bidders simultaneously. It is each bidders' responsibility to verify that bids in envelopes have been received properly before the deadline.

HARIKAR NGO reserves the right to accept the whole or part of your bid. Harikar is not obliged to select the lowest priced bid. HARIKAR NGO may, at its discretion, increase or decrease the proposed content when awarding the contract and would not expect a significant variation of the rate submitted. Any such increase or decrease in the contract duration would be negotiated with the successful bidder as part of the finalization of the Purchase Orders for Services. HARIKAR NGO may, at its discretion, extend the deadline for the submission of bids, by notifying all prospective suppliers in writing. The extension of the deadline may accompany a modification of the solicitation documents prepared by HARIKAR NGO at its own initiative or in response to a clarification requested by a prospective supplier. Note that HARIKAR NGO is not bound to select any of the firms that are submitting bids and does not bind itself in any way to select the firm offering the lowest price. Furthermore, the contract will be awarded to the bid considered most responsive to HARIKAR NGO's needs, as well as conforms to its general principles, including efficiency to maximize economies of scale.

Name of Company: .................................................................

Contact Person: ..................................................................

Tel. numbers: ......................................................................

Address of the company: ......................................................

Signature/ Stamp ..................................................................

Date: ..............................................................................
Annex A

SCOPE OF WORKS
Extension and rehabilitation of water networks in Sinjar District for the Project: Strengthening WASH basic infrastructure, resilience and livelihoods in return areas in Ninewa, Iraq funded by the German Federal Ministry of Economic Cooperation and Development (BMZ).

DOCUMENT FOR SCOPE OF WORKS INCLUDE THE BILLS OF QUANTITIES AND TECHNICAL SPECIFICATIONS.

1. Introduction:

The provision of construction referred to in the Bills of Quantities are planned under CARE international Iraq funded project and implemented by Hanikar NGO. The work includes the Extension and rehabilitation of water networks in Sinjar District (al sultan neighborhood in snuni, al shuhadaa neighborhood in Sinjar and al kherbah neighborhood in snuni).

Scope of Works:
Supply all labor, materials (pipes, fitting, machineries, excavator, jag hummer, cutter, electrofusion welding, hand compactor, pressure tester, cement, tekalah, sand and safety materials, etc, and all equipment for completion of above specified facilities in the identified locations, including all the required finishes to the approval of Hanikar NGO’s Engineers as described in the Bills of Quantities.

The duration for the implementation of the project is (90 calendar days) take effect on the date both Parties have signed this Contract + (6 Months defects liability period).

<table>
<thead>
<tr>
<th>GPS point</th>
<th>No</th>
<th>Location</th>
<th>Description of service</th>
</tr>
</thead>
</table>
| 36.462375, 41.718585 | 1  | Al sultan neighbourhood snuni | - excavation work width 60 cm and depth 100 upper the pipe.  
- supplying and installation pipes 200 mm should cover by sand 15 cm under the pipe and 15 cm upper the pipe  
- supplying an installing valves 160 mm and 110 mm with all required fitting.  
- construction manhole for the valves  
- connection the household to the network and ensure the pipe reached to every house  
- pressure test to the network  
- chlorination to the network  
- backfilling to the network |
<table>
<thead>
<tr>
<th>ID</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
</table>
| 36.318878, 41.666064 | Al shuhadaa neighbourhood, Sinjar | - excavation work the width 60 cm and the depth 1 m upper the pipe  
- supplying and installation pipes 160 mm and 110 mm should cover by sand 15 cm upper the pipe and 15 cm under the pipe, with require fitting (coupler, elbow, flange, tee pipe, etc)  
- connection the household to the network and ensure the pipes reach to every house  
- pressure test to the network  
- Chlorination to the network  
- Backfilling by takalah and construction by concrete to the network                                                                 |
| 36.462375, 41.718585 | Al kherbaa neighbourhood, snuni | - excavation work work the width 60 cm and the depth 1 m upper the pipe  
- supplying and installation pipes 200 mm should cover by sand 15 cm under the pipe and 15 cm upper the pipe, with all required fitting (elbow, coupler, tee pipes, flange, plug, etc)  
- Connect the new pipe 200 mm with existing pipe 100 mm with all required fitting.  
- connection the household to the network and ensure the water reach for every house  
- pressure test to the network  
- chlorination to the network  
- backfilling by takalah and compacted by hand compactor                                                                                                                                 |

1.1. General Requirements:
General Requirements include overview of the works needed to be done in water infrastructure maintenance are as the following:

- The bidder is required to have the technical expertise and financial capability to carry out such works.
- The bidder shall attach with his financial and technical offer all documents proving the implementation of similar projects. The organization shall have the right to check the contractor's workshop and assess his experience with specialized questions to know his ability to execute the works.
- Contractor is required to know the site and to have carried out all the analyses necessary to determine the characteristics of the materials and equipment used or installed for the construction site's achievements.
- The contractor must test all the equipment's installed by him for 24 hours after installation and all costs associated to be incurred to the contractor.
- 6-month period is suggested as fully functional warranty period of the installed equipment and performed works.
- Any modifications to the original design must be agreed prior of the implementation after discussion and agreement of all parties involved.
- Any minor work updates at site level must be checked by HARIKAR's on-site supervisor with a proper communication to the manager/supervisor.
- The bidder is required to clarify their stored stock of required stocks in an attachment excel sheet.
- Draw a logical sequence of the works breakdown and timeframe compared to the project duration in an attachment excel or word application sheet.
- All execution work must be done according to the BOQ, technical specification and drawing, the work should be monitored and approved by on site by HARIKAR WASH officer and DOW engineers.
- Any work doesn't comply with the technical specifications and standard quality during the implementation, HARIKAR and DOW on site engineers are entitled to cancel the work and to ask the contractor to re-implement the work.
The bidder must be aware of all Iraqi regulations and apply them rigorously, additionally to the technical specifications detailed in this document, during the implementation.

The bidder must provide the technical specifications of the materials, the country of origin and the type of all the materials submitted by him, all items have to be new and not refurbished and highest marks will be given for the best quality materials. Catalogues to be submitted also.

Only new items/equipment's are accepted. All materials and supplies (products) involved in the composition of the works will be of first quality and will come from approved factories. The site supervisor will be allowed during all the construction phase to control all equipment's and materials origin and ask documentation and additional certification to the contractor.

All materials, equipment and supplies used in the composition of works, such as cement, admixtures, pipes, fittings, valves, gabions, fencing, etc., must meet the Iraqi standards, or specific international standard if required in the technical specification.

The contractor must ensure that all equipment installed by him/her shall be new and not renewed for all the items included.

Submit a detailed and clear technical offer indicating the quality of the submitted materials.

1.2. Safety and Security:
The Contractor is responsible for security of his personnel, equipment and machinery. HARIKAR cannot be held responsible for any damages incurred by injury, damage or loss.

The Contractor will ensure that the appropriate safety equipment is permanently available on all sites. The Contractor is responsible for the site safety.

The Contractor will ensure that at any time, including after working hours, the site is identified with warning signs barriers, to avoid access to unauthorized persons, especially children.

The contractor will guarantee the full-time presence of one experienced and qualified worker per site in charge of the safety of the operations.

The Contractor will provide and thereafter maintain insurance against all risks in respect of its property and any equipment used for the execution of this Contract. HARIKAR shall bear no responsibility over losses or damages of the procured products incurred during the performance period and before acceptance of said products.

The Contractor will provide and thereafter maintain all appropriate workmen's compensation and liability insurance, or its equivalent, with respect to the Republic of Iraq social security law.

The Contractor remains fully responsible, at any time, for his equipment and staff. In case of equipment loss or staff injury, HARIKAR will in no case be held responsible.

1.3. Technical specifications
1.3.1. Field installation/preparation

All expenses for the installation of site as well as for the store, its installation, maintenance, guarding and demolition, unloading, classification as well as the depositing of the material are the responsibility of the Contractor.

Any site waste shall be removed, outside the field boundaries to be disposed in a manner defined by the project manager and site supervisor.

The Contractor shall assume full responsibility for alignment, elevation and dimension of each and all 'parts of the work. Contractor shall supply labors materials, etc. required for setting out the reference marks and bench 'marks and shall maintain them as long as required and directed.

1.3.2. Transportation and Storage

Transport and import all items required as described in BoQ from inside or outside country to the site of the work is responsibility of contractor.

The contractor is responsible to make his own approvals or documents to pass checkpoints to Sinjar for transportation of materials and staff.

The Contractor ensures the protection of the equipment during all transport operations.

The Contractor ensures the transport and the unloading of his equipment as well as the necessary handling for the installation of appropriate storage places. Furthermore, the Contractor is responsible for the good conservation of his material, and before assembly he will know.

The storage places at his disposal;
• The ambient conditions of these locations.
• The Contractor will take all provisions for packaging of spare parts, specifying the conditions of their storage to ensure their perfect preservation until the moment of their use.

1.3.3. For water network installation:
For construction of the water distribution network. It is envisaged that the contractor will:
• Conduct a site visit
• Clear and level the worksite, with disposal of all trash
• Excavate trenches as indicated in the provided plans
• Cut, clear and dispose of concrete and other trash
• Install the new pipes as indicated in the BoQ and technical documents and connect to the existing main water supply system
• Install household connection fittings
• Install valves and manholes concurrently in locations as indicated in the provided plans
• Disconnect the old pipework connections
• Clean and pressure test the newly installed network
• Fill and compact the excavated trench with soil
• Repair concrete damaged during the excavation
• Clean the worksite and remove all trash
• Participate in handover to local authorities
• And all the activities required to achieve the work of the BoQ, according to the national standard and the technical descriptions

Due diligence must be observed at all time to minimize disruption of water supply. Disconnections from the existing water network to the installation of the new water network will occur only under instruction by local authorities to reduce downtime in water supply. Works at all time will be conducted in coordination and under supervision with engineers from HARIKAR and the local authorities.

1.3.4. Compliance with standards - lack of standards
• Origins, qualities, characteristics, types, dimensions and masses, methods of marking, testing, checking and receiving materials and materials must comply with ISO standards or standards in force in Iraq, approved or in force at the time of signing the contract.
• The Contractor must know the Iraqi "standards" and International technical rules.
• Similarly, to the extent that the Contractor applies different standards and deviates from those referenced, the bidder will be required to specify the standards adopted. HARIKAR, in this case, reserves the right to accept or not these standards.
• The standards and regulations referred to in this document are indicative in order to specify the quality and usual rules of resistance and performance desired.

1.3.5. Organization, safety and cleaning of construction sites
• The Contractor has submitted with his offer a proposal for the installation of his own site with indication of the storage area, warehouse, etc. and the desired location in the field, will receive from the Project Manager the final instructions for the installation of the site.
• Facilities such as fencing, guarding, security, etc. will be installed and provided by the Contractor and maintained during the turnaround time.
• Contractor will be responsible for the cleaning of work site after completion of work.

1.4. Coordination and Contract Management
1.4.1 Contact Focal Point
The contractor must provide the contact list the focal points in charge of all official communication with HARIKAR. The communication will include but is not limited to:
• The contract management to the logistic department;
• The follow up of the work and all the field aspect to the program department;
• The financial coordination with the Finance department of HARIKAR.
1.4.2. Coordination and supervision meeting

- During the duration of the work, HARIKAR project manager and site supervisor or a representative will organize periodic or ad-hoc meetings on the site or in any other appropriate place.
- The Contractor or his duly delegated and qualified representative will attend all these meetings. DoW Engineers will be able to attend.
- Ordinary meetings will be held on a weekly basis and special meetings will be held in case of any parties' needs. In all cases, the findings and recommendations will be recorded in the site book set up for this purpose by the contractor, and meeting minutes with an attendance sheet will be taken and validated.
- A kick-off meeting prior to the start of the works will be organized to validate the technical documents related to the execution of the contract.
- A weekly progress report is to be handed over to the Harikar engineer in written form every Thursday by 12.00 hrs, clearly specifying the work completed in that week, and the percentage of the project completion.

1.5. Handover Process for both projects.

The Handover process will be applied for all work in the same way as follows:

1.5.1. Testing

- The contractor shall perform all the necessary tests to prove the validity of all the installed equipment and their conformity with the technical specifications at his expense and his responsibility.
- A commissioning period will be included in the workplan before following the construction period, and before the certificate of completion.

1.5.2. Project Final Handover

- The completion of the project will see the whole construction of all infrastructure required and the provision of the operation period previously stipulated. The project will be closed once successful testing has been carried out and the project deliverables have been handed over successfully to the management of the Directorate of water.
- The supplier shall attach any available manual, technical details and specifications, and catalogs that confirms the installation of the specific items.

The handover to the DOW will be done once the certification of completion is approved.

By the end of the guaranty period, defined in the technical description, a "Final completion of certification" will be provided by HARIKAR WASH Project Manager, based continual follow up of the guarantee including DOW involvement;

1.5.3. Guarantee

- Winner shall give Harikar NGO a Cheque (10% of the project budget) upon signing the Contract. The security deposit shall be released after Issuance Certificate of Final Completion has been issued by Harikar. The cheque will be returned back to the contractor after Six Months after completion for quality assurance of the work.
- Harikar NGO may charge a penalty for each day of delay that is counted as follows: total cost/number of projects * days * 5% of the project budget. The total penalty amount per day should not be less than $500.
- The warranty period is set at 6 months from the date of certification of completion. The warranty will necessarily cover all the parts of the various elements of the installation for which a defect of construction will be observed during the 6 months of operation.
- The Contractor will be required to perform or have repairs and corrections made within one month after finding any faults in the operation of the project. In this case, the Contractor must carry out all repairs, within a maximum of five (05) days after the verbal or written transmission of the information, unless exceptional cases have been specified.
- The Contractor shall proceed immediately, and at his expense, to the repair of any installations that do not correspond to the execution plans or the technical specifications and which will be demanded by the project manager or site supervisor.
- Relevant and appropriate tests and checks will be carried out on all repairs that have been performed.
## Replacement of transporting pipe, Al-Sultan Neighborhood in Sinuni sub-district - Sinjar district-Ninawa Government.

**ANNEX BILL OF QUANTITY**

**Project:** BM7

**Location:** Sinuni-Sinjar-Ninawa

**GPS coordinates:** 36.462376, 41.718585

**Estimated Project Duration:** 20 Days

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Qty</th>
<th>Brand &amp; country of origin</th>
<th>Unit Price USD</th>
<th>total price USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Safety materials</td>
<td>Ensure all worker are equipped with safety materials such as; gloves, gambuds, vest, mask, etc. All construction sites have warning sign in place during the construction and safety supervisor is present on sight. The construction site must be fenced in order to prevent access to the site by unauthorized person (particularly children and women).</td>
<td>Lumpsum</td>
<td>1</td>
<td></td>
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<tr>
<td>2</td>
<td>Soil excavation</td>
<td>Excavation work on the line length of the path (350 m) and the width of the excavation (30 cm)</td>
<td>ML</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Supplying, installation and connection</td>
<td>Supply and installation of PE 100 RC pipe diameter 200 mm. Weight 6.81 kg/m. Length 13.5 m. Thickness 11.8 mm. PE100-SC135/19/12/125 has ISO Certificate from Turkish / European origin, with doing the sample test in lab certified by the governorate for drinking water nylon protection include supply of all required fitting (PE 100 RC 10-17, PN 16 bar) for connection such as (elbow, T connection, cap, coupler, reducer, etc.) installation include of all required machinery, materials, manpower, etc. for electrofusion welding and covering the pipes with 15 cm and 15 cm long and 18 cm under the pipes with doing the concrete support for the elbow area. According to the instruction of the site engineer, the price includes extending the pipes, mechanical connecting, connect the pipe with the existing pipe, weld the pipe 200 mm. and all the requirements accessories</td>
<td>ML</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Household connection</td>
<td>Household connection to network for 60 houses. The pipe includes connect close size 200 mm with connect a plastic pipe PE pipe diameter 12 mm (0.3 inch), length of 90 cm with connect plug and connect the pipe to the houses, the estimated length of the pipe is 3 m and the depth of the path is 3 cm with the required accessories and make sure the water reach to every house and meet all the requirements of the work as directed by the site engineer / DOW monitoring committee.</td>
<td>NO.</td>
<td>60</td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>Cleaning the network</td>
<td>Cleaning of network according to 856/700 and Instructions from local authorities (DOW) SOP of chlorine for one hour, testing at furthest point in network minimum 3000ppm chlorine, analysis of test certification</td>
<td>NO.</td>
<td>1</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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**Page 1 of 2**
<table>
<thead>
<tr>
<th>رقم</th>
<th>Description</th>
<th>Units</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Backfilling of trench for network pipes with mountain takaleh in accordance</td>
<td>ML</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td>with technical drawings, include laying of warning tape. Includes the removal</td>
<td></td>
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<tr>
<td></td>
<td>of all excavated soil and debris to municipality border according to the eng</td>
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<tr>
<td></td>
<td>ining instructions. Debris must be disposed in site approved by municipality.</td>
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</tr>
<tr>
<td></td>
<td>Contractor responsible for obtaining relevant permission. The dimension:</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>350m length * 0.7m thickness of takaleh * 0.6m width of excavation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>Items</td>
<td>Description</td>
<td>Unit</td>
</tr>
<tr>
<td>----</td>
<td>-------</td>
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<td>------</td>
</tr>
<tr>
<td>1</td>
<td>Safety materials</td>
<td>Ensure all workers are equipped with safety materials such as, gloves, pumbboots, vest, mask etc. All construction sites have warning sign in place during the construction and safety supervision available on ground. the construction site must be fenced in order to prevent access to the site by uninvited or unauthorized person. (particularly children and women).</td>
<td>lumpsum</td>
</tr>
<tr>
<td>2</td>
<td>Excavation work</td>
<td>Excavation works: excavation in all types of soil including concrete (the length of the excavation 62 m. and the depth of the excavation should be 100 cm upper the ppe), by using appropriate machinery such as excavator, caterpillar machine for cutting the path, Jackhammer for cracking the concrete etc. or manually when needed according to the specification details, and instruction of the Site Eng. (lifting of rubble immediately after excavation works to site specify by municipality).</td>
<td>ML</td>
</tr>
<tr>
<td>3</td>
<td>Supply and installation of PE 100 R pipe diameter 150 mm., weight 4.3 kg/m, length 13.5 m.</td>
<td>Supply and installation of PE 100 R pipe diameter 150 mm., weight 4.3 kg/m, length 13.5 m.</td>
<td>ML</td>
</tr>
<tr>
<td>4</td>
<td>Supply and installation of PE 100 R pipe diameter 250 mm., weight 7.15 kg/m, length 13.5 m., thickness 6.6 mm. (PE100-50R130mmbar) has ISO Certificate from Turkish / European origin or equivalent, with the same field test lab certified by iraq government contractor for drinking water system protection. Include supply of all required fitting (PE 100 R, 50 R, 30 R, 15 R) (PE100 R. 50 R, 30 R, 15 R) for connection such as elbow, T connections, cap, coupler, reducer, etc.) Installation include of all required machinery, materials, manpower, etc. for electrofusion welding and covering the pipes with fine sand 15 cm upper and 15 cm under the pipes with doing the concrete support for the elbow area according to the instruction of the site engineer. The price include extending the pipes, mechanical connecting, connect the pipe with the existing pipe 200 m and with all the accessories.</td>
<td>ML</td>
<td>1840</td>
</tr>
<tr>
<td>5</td>
<td>Supply and installation of gate valve 160 mm. with all requirement 16 bar western european made in turkish including all accessories and welding (electro fusion) with providing ISO certificate of origin.</td>
<td>NO.</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>Supply and installation of gate valve 110 mm. with all requirement 16 bar western european made in turkish including all accessories and welding (electro fusion) with providing ISO certificate of origin.</td>
<td>NO.</td>
<td>6</td>
</tr>
</tbody>
</table>
### Household Connection

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Household connection for 500 houses, the work includes connect close size 1/2&quot; and 3/4&quot; with connect a plastic pipe 3/4&quot; diameter, 0.5 inch, length of 100 cm and connect the pipe to the house, the estimated length of the pipe is 5 m and depth of the pipe is 3 m with the required accessories, and make sure the water reach to every house and meet all the requirements of the work as directed by the site engineer / DOH monitoring committee.</td>
</tr>
<tr>
<td>8</td>
<td>Manholes construction for 5 manholes for valve interior dimension 1.5 m and depth range (1.5 m), the wall and floor should have reinforced concrete RCC 1:1:4 (strength 20.5 MPa), and 11 mm diameter (concrete grade 40 steel rebar), the thickness of the reinforced concrete 20 cm. Painting outside all walls floor and inside with three layers of epoxy, the top must be coated with 1.5 cement thickness the dimension 1.5 m reinforced concrete slab with 11 mm slab area type diameter 92 cm with thickness 10 mm installation of 2 rim ring in the wall for inlet and outlet pipe filling to frame between pipe and in length 20 cm, thickness 8 cm, diameter is bigger than diameter of pipe. According to the specifications (technical and instruction of the WASH officer / DOH monitoring committee).</td>
</tr>
</tbody>
</table>

### Cleaning the Network

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Cleaning of network according to R563010 and instructions from local authorities (DOH) 500qm per hour, testing at the network minimum 3000 psi / hour, production of test certificate.</td>
</tr>
</tbody>
</table>

### Hydraulic Test

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Hydraulic test of network using an oppressor for testing max pressure around 10 bar using parameter gauge for repressing (tests report test conducted according to the R563010 Standard).</td>
</tr>
</tbody>
</table>

### Backfilling

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Backfilling of 3 inch of concrete pipes with mountain backfill up to concrete layer in accordance with technical drawings. Include laying of warning tape includes the removal of all excavation soil and debris to municipality border according to the site engineer. Instructions debris must be dropped in site approved by municipality contract responsible for obtaining relevant permission. (dimension 200 mm: length 600 m: width 500 m: depth 500 m).</td>
</tr>
</tbody>
</table>

### Reaming and Backfilling

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Capping and construction concrete surface, casting 1:2:4 concrete 15 mm thickness and according to the required weight 60 cm, to be conducted after laying the pipeline and completed by hard compactor and according to the instruction of the supervision committee and responsible engineer.</td>
</tr>
</tbody>
</table>

### Total Amount

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>lamina</td>
</tr>
</tbody>
</table>

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*Translated from Arabic to English*
<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Qty</th>
<th>Brand &amp; country of origin</th>
<th>Unit Price USD</th>
<th>Total price USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>safety materials</td>
<td>Ensure all workers are equipped with safety materials such as gloves, gumboots, vest, mask, etc. All construction sites have warning signs in place during the construction and safety supervisor is available on ground. The construction site must be fenced in order to prevent access to the site by animal, unauthorised persons (particularly children and women).</td>
<td>lumpsum</td>
<td>1</td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td>soil excavation</td>
<td>Excavation all the type of soil [hard, soft] or similar soil width 60 cm and depth 100 cm by using appropriate machinery such as excavator, cutter machine, jagger machine, or manually according to the specification details and instruction of site eng. remove the unwanted material in place specified by the municipality.</td>
<td>ML</td>
<td>700</td>
<td></td>
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<tr>
<td>3</td>
<td>supplying, installation and connection system</td>
<td>Supply and installation of PE 100 RC pipe diameter 200 mm, weight 8.81 kg/m, length 1.9 m, thickness 1.1 mm. (PE100-SDR17/1P415Bar) has ISO Certificate from Turkish/European origin or equivalent, with doing the sample test in Wb certified by (Iraqi governate) construct for laying water nylon protection include supply of all required fitting (PE 100 RC, SDR 17, PN 16 bar) for connection such as (elbow, T connection, cap, coupler, reducer), installation method of all required machinery, materials, manpower, etc. for electrofusion welding and coating the pipes with fire sand 15 cm upper and 15 cm under the pipes with doing the concrete support for the pipeline. accordingly to the instruction of the site engineer the pipe includes: extending the pipes, mechanical connecting, connecting the pipe with the existing pipe 200 mm and with all the requirements accessories. (PN 100 SDR 16/17 PN 16), connect the pipe with the existing pipe 200 mm with all the requirements accessories.</td>
<td>ML</td>
<td>700</td>
<td></td>
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</tr>
<tr>
<td>4</td>
<td>connection the 200mm pipe to 500mm pipe</td>
<td>Connection the new pipe 200 mm with the 100 mm pipe in the path, in a 4 position with include all accessories required. (Without accessories)</td>
<td>NO.</td>
<td>5</td>
<td></td>
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</tr>
<tr>
<td>5</td>
<td>household connection</td>
<td>Household connection to network for 60 houses, the works includes connect side line 200 mm with connect a plastic pipe PPR diameter 12 mm (0.5 inch), length of 90 cm with connect plug and connect the pipe to the houses, the estimated length of the pipe is 3 m and depth of the path is 3 m with the required accessories and make sure the water reach to every house and meet all the requirements of the work as directed by the site engineer / DW monitoring committee. (Without accessories)</td>
<td>NO.</td>
<td>60</td>
<td></td>
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</tr>
<tr>
<td>No.</td>
<td>Description</td>
<td>Quantity</td>
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<tr>
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</tr>
<tr>
<td>6</td>
<td>Cleaning of network according to BS56700 and instructions from local authorities (DOW) - Make sure to take precautions and follow the manufacturers' guidelines.</td>
<td>NO. 1</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>7</td>
<td>Hydraulic test of network using air compressor for testing max pressure around 16 bar using barometer gauge for measuring (best type) test conducted according to BS56700.</td>
<td>NO. 1</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>8</td>
<td>Backfilling of trench for network pipes with mountain tebliah in accordance with technical drawings. Include laying of warning tape. Includes the removal of all excavated soil and debris to municipality border according to the site. (E.g., instructions, debris must be disposed of in site approved by municipality supervisor responsible for obtaining relevant permission the dimension (700m length, 0.7m thickness of tebliah, 0.5m width of backfilling).</td>
<td>ML 700</td>
<td></td>
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</tbody>
</table>

Grand Total (Total Annex B3+Total Annex B2+Total Annex B3)