



Invitation for Bids

Hashemite Kingdom of Jordan

Project Implementation Sewer System of Karak

Construction of Sewer Networks, Pumping Stations and Force Mains for Selected Karak Areas

Package 1

Lot (1): Project Implementation Sewer System for Part of Manshiyyet Abu Hammour

Lot (2): Project Implementation Sewer System for Part of Manshiyyet Abu Hammour, Thaniyyeh, and Marj (Optional)

Contract No: 29/2022

KfW Tender No. 508829

The Water Authority of Jordan has received financing from German Financial Cooperation through KfW toward the cost of Project Implementation Sewer System Karak – Jordan and intends to apply part of the proceeds toward payments under the contract for the “Project of Implementation Sewer System of Karak- Package 1”, Contract No. 29/2022. KfW retains certain approval rights, including approval of the Contractors selected. However, KfW will not be a party to the Contract.

The Water Authority of Jordan (WAJ) now invites sealed bids from prequalified eligible bidders for Project of Implementation Sewer System of Karak-Package 1, Construction of Sewer Networks, Pumping Stations and Force Mains for Selected Karak Areas in Karak Governorate, which covers an area of about 12km², in the southern region of Jordan - Karak Sub-District within Qasabat Al- Karak District, which falls under the jurisdiction of the Greater Al Karak Municipality.

The Project is divided into two packages, involve laying public sewer infrastructure to serve the catchment areas comprising Manshiyyet Abu Hammour, Thaniyyeh, and Marj as an optional, which will subject to WAJ further instructions for implementation.

Package 1 comprises supply, installation, testing and commissioning of new gravity sewer network of corrugated HDPE of 200 mm, 300 mm, 400mm, and 500mm pipelines with associated cast-in-situ/precast reinforced as shown in the Typical Details and Drawings. In addition to Ductile Iron and Carbon Steel pipes with different diameters at locations shown in the Contract drawings. In which the Contractor shall provide all Plants, Equipment, Materials, labours required for completion of the Works in accordance with the Contract Documents and the approved Programme.

The Contractor shall use the products having the highest quality in market subject to the prior approval of the Engineer.

Package 1 is divided into two lots:

- Lot 1: Construction of sewerage system for part of Manshiyyet Abu Hammour including three optional areas.
- Lot 2: Construction of sewerage system for part of Manshiyyet Abu Hammour, Thaniyyeh, and Marj (Optional)

Proposed Works for Lot 1 shall include, but not limited to, the followings:

- Supply, installation and testing of new gravity sewer corrugated HDPE pipelines of 200mm, 300mm, and 400mm, including related cast-in-situ/precast reinforced concrete manholes. The total lengths of the sewer pipelines are about 24 km and the total lengths of carbon steel pipeline of 200mm is about 200m.
- Supply, installation and testing of about 2.5 km of house connections of corrugated HDPE pipes of 160mm.
- Construction, supply, installation, testing and commissioning of two pump stations PS3, and PS4.
- Supply, installation and testing of about 820 m pipelines of 200mm, 300mm, and 400mm, using trenchless construction method for installation of pipelines under major/main highways and for deep Pipelines.
- Supply, installation and testing of new Ductile Iron (DI) force main pipelines of 250mm, and 300mm, including all fittings & accessories. The total length of the force main pipelines is about 6.2 km.
- Supply, installation and testing of about 270m of corrugated HDPE pipes of 200 mm and 400 mm in wadis with RCP cast in situ manholes including all works as per typical details.

The flow from pumping station PS4 will be pumped through force main and discharged to the gravity network of Lot 2 within Package 1.

Proposed Works for the optional Item 1 of Lot 1 include, but not limited to, the followings:

- Supply, installation and testing of new gravity sewer corrugated HDPE pipelines of 200mm, including related cast-in-situ/precast reinforced concrete manholes. The total length of the sewer pipelines is about 8.1 km.
- Supply, installation, and testing of about 970 m of house connections of corrugated HDPE pipes of 160mm.
- Construction, supply, installation, testing and commissioning of one pump station PS1.
- Supply, installation and testing of new Ductile Iron (DI) force main pipeline of 150mm including all fittings & accessories. The total length of the force main pipeline is about 1.05 km.
- Supply, installation and testing of about 50 m pipelines of 200mm using trenchless construction method for installation of pipelines under major/main highways and for deep Pipelines.

Proposed Works for the optional Item 2 of Lot 1 include, but not limited to, the followings:

- Supply, installation and testing of new gravity sewer corrugated HDPE pipelines of 200mm, including related cast-in-situ/precast reinforced concrete manholes. The total length of the sewer pipelines is about 8.5 km.
- Supply, installation, and testing of about 1.1 km of house connections of corrugated HDPE pipes of 160mm.
- Supply, installation and testing of about 170 m pipelines of 200mm using trenchless construction method for installation of pipelines under major/main highways and for deep Pipelines.

Proposed Works for the optional Item 3 of Lot 1 include, but not limited to, the followings:

- Supply, installation and testing of new gravity sewer corrugated HDPE pipelines of 200mm, including related cast-in-situ/precast reinforced concrete manholes. The total length of the sewer pipelines is about 6.2 km.
- Supply, installation, and testing of about 610 m of house connections of corrugated HDPE pipes of 160mm.
- Supply, installation and testing of about 50 m pipelines of 200mm using trenchless construction method for installation of pipelines under major/main highways and for deep Pipelines.

Proposed Works for Lot 2 shall include, but not limited to, the followings:

- Supply, installation and testing of new gravity sewer corrugated HDPE pipelines of 200mm, 300mm, 400mm, and 500mm, including related cast-in-situ/precast reinforced concrete manholes. The total length of the sewer pipelines is about 34 km.
- Supply, installation, and testing of about 5km of house connections of corrugated HDPE pipes of 160mm.
- Construction, supply, installation, testing and commissioning of one pump station, PS5.
- Supply, installation, and testing of about 580m pipes of 200 mm, 400mm, and 500mm, using trenchless construction method for installation of pipelines under major/main highways and for deep Pipelines.
- Supply, installation and testing of about 110m of corrugated HDPE pipes of 200mm in wadies with RCP cast in situ manholes including all works as per typical details.
- Supply, installation and testing of new Ductile Iron (DI) force main pipelines of 400mm, including all fittings & accessories. The total length of the force main pipeline is about 3.1 km.

Laying a trunk pipeline under this lot through the existing Tunnel wherein the basic requirements for construction that shall be adopted to convey the sewer flow generated from the project areas which are located to the east of Karak WWTP (Manshiyyet Abu Hammoor , Thaniyyeh, Marj (Optional), and from future connection of Ader, Zahoum, Ghweir, Mschairfeh, Ma'mooniyyeh, El Houyeh, Azezieh and Rashdieh) to Karak WWTP. The Trunk lines/Force mains coming from eastern areas will be discharged to the lowest point in Thaniyyeh where PS5 is to be constructed, then a 400 mm ductile iron force main from PS5 will convey the flow through the Tunnel, at the end of the tunnel it will be changed to 400mm carbon steel pipe which will convey the flow down to be connected to a discharge manhole.

The Installation details of the 400mm dia. DI pipeline should be as per the following:

- using mechanical coupling, from the inlet of Tunnel for about 340m.

- The pipe will be raised on concrete blocks and fixed by mechanical clamps.
- At end of the Tunnel, the material of the pipe will be changed to carbon steel and will be protected by a concrete encasement block.
- The welded steel pipe will be laid on top of the ground level, down with a 40% slope and about 150 m to be connected to a discharge manhole length with full concrete encasement.
- A gravity corrugated HDPE pipeline will be laid with the required reinforced concrete manholes for about 260m long which will be connected to a new siphon.
- A new siphon of about 3.5km length shall be laid in parallel and along the existing siphon to convey the flow to Karak WWTP.

Proposed Works for the optional part of Lot 2 (i.e., Al Marj Area) include, but not limited to, the followings:

- Supply, installation and testing of new gravity sewer corrugated HDPE pipelines of 200mm, including related cast-in-situ/precast reinforced concrete manholes. The total length of the sewer pipelines is about 5 km.
- Supply, installation, and testing of about 1 km of house connections of corrugated HDPE pipes of 160mm.

The implementation of the proposed options above will follow the Employer's priorities at the implementation stage, generally following the order below:

- **1st Priority: Optional item (2) of lot (1) related to the wastewater network.**
- **2nd Priority: Optional item (1) of lot (1) which is related to the wastewater network and the optional item related to Pump Station (1) and/or Optional (3) of lot (1) which is related to the Wastewater network and /or Optional part of lot (2) which is related to the wastewater network in Al Marj Area.**

The Environmental, Social, Health and Safety Management (ESHS) level is 2.

The following table shows the entities that have been shortlisted to participate in this bidding procedure and the lots they are qualified for:

No.	Applicant	Lots Applied For	Lots Qualified For
1	JV (MESGEOS RESOURCE RECOVERY & GUNDOGU)	Lot 1&2	Lot 1&2
2	MASAR Contracting Company	Lot 1&2	Lot 1&2
3	MID Contracting Company	Lot 1&2	Lot 1&2
4	Fuad Abu Hamdan Engineering & Contracting & Partners Co.	Lot 1&2	Lot 1&2
5	JV (United Enterprise Company& Gama Construction Company	Lot 2	Lot 2

Taking into consideration that according to ITA 25.3 of the Prequalification Document issued October,2022:

- **Bidders have the option to bid for any one or more lots. Bidders qualified for one lot can bid for lot 1 and/or for lot 2 separately but can be awarded with one contract only.**
- **Bidders qualified for both lots can bid for any lot separately and/or for both lots combined and can be awarded one or both contracts.**
- **Bids will be evaluated lot-wise, taking into account discounts offered, if any, for combined lots. The contract(s) will be awarded to the Bidder or Bidders offering the lowest evaluated cost to the Employer for all lots combined.**

Bidding will be conducted by means of the International Competitive Bidding procedure as specified in the KfW Guidelines for Procurement of Goods, Works and associated Services in Financial Cooperation with Partner Countries ("KfW Guidelines").

Prequalified eligible bidders may obtain further information from:

Water Authority of Jordan
WAJ Tender Department / Sixth Floor
Water Authority of Jordan
Shmeisani P.O. Box 5012
Amman 11181 Jordan
Attention: Eng. Rua AlSoub
e-mail: rua_alsoub@mwi.gov.jo

A complete set of bidding documents is available to the prequalified eligible bidders on the address above upon a payment of non-refundable fees of:

- Lot (1): JOD 1,500 (One thousand and five hundred Jordanian Dinars)
- Lot (2): JOD 1,100 (One thousand and one hundred Jordanian Dinars)
- Both lots (1&2): JOD 2,600 (Two thousand and six hundred Jordanian Dinars)

The method of payment shall be cash.

Any questions regarding the bidding documents shall be sent to WAJ by email to the above-mentioned address no later than **16th September 2024**.

Bids must be delivered to the address indicated in clause ITB 22.1 of the bidding documents on or before **12:00pm local time, 7th October 2024**. Late bids will be rejected. Bids will be publicly opened in the presence of the bidders' designated representatives.

All bids must be accompanied by a Bid Security in the amount of:

- Lot (1): JOD 250,000 (Two hundred and fifty thousand Jordanian Dinars)
- Lot (2): JOD 200,000 (Two hundred thousand Jordanian Dinars)
- Bidders bid for both lots have the option of submitting one bid security in total amount of JOD 450,000 (Four hundred and fifty thousand Jordanian Dinars)

Bids not accompanied by bid securities will be rejected as non-responsive.