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UNDP Operations Service Center, Erbil - Iraq
Minutes of Pre Bid Meeting
Date: November 14, 2017
Time: 11:00am-12:30pm

Reference: ITB- 220-17- Hamrren Dam Side Slopes Protection System, Diyala Governorate

1.	**Brief introduction about the Hamrren Dam:**
	Lake Hemrren, is a man-made lake approximately 50 km north-east of the Baquba, in Iraq's Diyala province, and 120 km north-east of Baghdad. Hemrren Dam was constructed in the early 1980s, creating Lake Hemrren. Inflows originate primarily from the Wand River in Iran and runoff from Iraq is only generated during the rainy season. Lake Hemrren is a reservoir lake that covers a surface area of 80 km2, has an average depth of 8 meters. Lake Hemrren boasts a total water volume of 0.63 km3, and has a total shore line of 76 kilometers (47 miles). The lake, which sits at an elevation of 100 meters (datum level of lake is +100.00), drains a watershed that covers 29,745 km2 and has a residence time of 27 days (0.07 years). The dam aims to regulate the course of the Wand River and control the floods and is one of the sources of irrigation water insurance for more than a quarter of a million hectares in Iraq. It also provides 50 megawatts of power. Highway-4 is a road which extends from Kirkuk to Sa'Diyah in Diyala. It passes through the lake Hemrren over an embankment dam. The dam consists of man-made earth dam with a clay core and a gravel crust crossing Hemrren Lake. Construction was completed on 2009 with heights ranging from 10.0m to 4.0m (average height =8.00m). Embankment total length is 6,300m, of which about 4,250m crossing the lake (from Station 1+000 to 5+250). There is a reinforced concrete bridge located within the embankment. The concrete bridge foundations are supported by reinforced bored piles (from Station 1+200 to 1+400). The embankment was constructed at slopes stepping as 1V:1.75H near the top and 1V:4H within bottom of the embankment. The side slopes were covered with gravel and boulders as a finish surface. Original embankment design was based on an operating water level of (+104.00). The existing road levels range from (+105.67 to +108.50). (All levels are above MSL). The total storage area of Hemrren Lake is 2.06 billion cubic meters, with a level of +104.00 meters. In 2008, Lake Hemrren lost about 80% of its capacity due to the damming of the Wand River in Iran.

	Due to high wind, wave action and water drop down the side slopes of the embankment was eroded over the life time of the embankment. Also, a grown of plants was also notice. These cases became a major risk to the road safety intersecting Hemrren Dam reservoir.
2.	**Minimum Qualifying Criteria:**
	1. Minimum of 2 contracts similar in nature, complexity like the required works for Dams with value of US $ 6 Million to the required works implemented during the last 7 years. 2. Minimum US$ 5,000,000 turnover for any single year for the past four years (2013-2014-2015-2016). 3. Availability of Credit Facility from the bank valuing US $ 2 Million for reasonable time. 4. Copy of the latest D&B Report. 5. Details on the none performance contracts did not occur for the last 3 years. 6. Litigation History: All information regarding any past and current litigation during the last three (3) years, in which the bidder is involved, indicating the parties concerned, the subject of the litigation, the amounts involved, and the final resolution if already concluded. 7. Bid validity: 120 days 8. Bid security: US$ 200,000 9. Validity of Bid security: 150 days
3.	**Other Requirements of ITB:**
	1. Company Profile 2. Certificate of Registration of the business 3. Latest Audited Financial Statement (Income Statement and Balance Sheet) including Auditor's Report for the past four years [2013-2014-2015-2016] 4. Copy of the latest D&B Report with details on Rating and financial capacity 5. Statement of Satisfactory Performance from the Top two (2) Clients in terms of contract value on similar required works 6. List and value of projects performed for the last 7 years plus client's contact details who may be contacted for further information on those contracts. A minimum number of two similar works projects/contracts. 7. Bid Submission Form duly filled, signed and stamped (See ITB Section 4). 8. Documents Establishing the Eligibility and Qualifications of the Bidder (See ITB Section 5) 9. Technical Bid Form (See ITB Section 6). 10. Filled Price schedule (BOQ) duly signed and stamped; (See ITB Section 7); Bidder should provide submitted BOQ in PDF and Excel formats 11. Implementation timetable as per the requirement; 12. C.Vs of the proposed key personnel as per the requirement as per details provided under DS 26 13. List of minimum required equipment;
4.	**General Notes:**
	1. No provision of advance payment 2. Currency of bid and payment is US $ 3. Performance Security is required which is 10 % of the total contract amount 4. Deadline for receiving request for clarifications is 3 days before the deadline for submitting date. 5. Method of tendering: E-tendering 6. UNDP BOQ excel sheet must be used 7. (BOQ) duly signed and stamped; (See ITB Section 7); Bidder should provide submitted BOQ in PDF and Excel formats
5.	**Award Criteria:**
	1. Non-Discretionary "Pass/Fail" Criteria on the Technical Requirements; and 2. Lowest priced, technically responsive and qualified Bid

Clarification to Bidders Responses (ITB 220/17)		
S. No	**Question**	**Answer**
1	Why the required No. of Project Engineers are 4 civil engineers? The numbers are high.	The duration of the project is 10 months and dam is highway embankment connecting between Sadiyah and Miqdadiya in Diyala province, therefore the bidder should work in several teams to ensure the completion of the project in time.
2	The quantity of the items at the end of the project will be according to the actual quantities or as it is in the BOQ.	The quantity of items at the end of the project will be as built according to the final measurement. For submitting offers, the bidders are requested to submit their quotation according to the quantities in the BOQ.
3	Mix design for the self-compacted concrete is the bidder's responsibility or not?	According to the items (5.1-E &5.2-E) in the BOQ, ''price shall include the supply and filling of concrete, concrete test and the mix design (taking into consideration the climate and weather condition at the site location as per project's specifications). The detail of mix is attached in Vol.3- project specifications.
4	Partial work completion (taking over) is acceptable?	Partial work completion (taking over) is not allowed under the contract.
5	In case of any damage during the implementation of works, who take the responsibility of the damage.	In case of any damage due to poor quality of execution, the bidder will be responsible for the damage. In case of natural disasters, like flood earthquake or any Force majeure situation, settlement will be as per UNDP rules.
6	Are there any traffic movements on the embankment?	Yes, there is traffic movement and according to ''General requirements '' clause 11-A, The Contractor is to observe all traffic regulations, including those regarding the loading or unloading of or waiting by vehicles on the public highway and the Contract Sum is deemed to include for strict compliance, there with all access roads are to be maintained clean at all times and to provide diversions when required to maintain smooth traffic Tests & Samples.
7	Regarding Item # 6.6 in the BOQ, are there any missing quantities?	Regarding Item # 6.6, which is Cyclopean works, the item is one item with 440 m2 and it is a mixture of 60% plain concrete and 40% large stone (variable size between 10 and 25 cm). A & B are just a description for the item.
8	Regarding Backfilling by using granular material, the raw material is available in the site?	It is bidder's responsibility to assess the availability of raw materials.
9	International bidders can submit bid bond or performance security from a bank at their country.	Yes, international bidders can submit bid or performance security from a recognized bank at their country.
10	Where the Cyclopean works are used?	According to Item # 6.6 in the BOQ, Cyclopean works are used to protect the two abutments of the bridge.
11	Min number of similar projects is required for this bid?	Please refer to ITB "Required documents that must be submitted to Establish qualification of bidders". Under clause 4 "Minimum Qualifying Criteria), Minimum of 2 contracts similar in nature, complexity like the required works for Dams with value of US $ 6 Million to the required works implemented during the last 7 years.

12	What is the min quantity of concrete that should be tested?	According to ''Vol.3-Project specifications'' clause 1.2.7 '' On site testing for infill flowable concrete'' Tests should be done for fresh and hardened concrete. For the hardened concrete, Test cube samples shall be taken on the basis of one sample for each 100-cubic meter of concrete placed. Sampling procedure described in BS EN 12350-2:2000 (Testing hardened Concrete. From each concrete sample 6 cubes of 150mm X150mm shall be casted, cured and tested.
13	What international standards is considered for the Concrete Geosynthetic Mattress?	According to ''Vol.3-Project specifications'' clause 1.2 '' 1.2.1. Specifications of Concrete Mattress Geosynthetic; • The mattress shall consist of a double layer high strength woven made of PET, with interwoven filter zones providing a concrete slab with an averaged overall thickness of approximately 120mm after filling with highly fluid concrete. • The geosynthetic mattress/geotextile shall have the following properties: • Weight (EN ISO 9864): 380 g/m² • Tensile strength* (EN ISO 10319): ≥50/50 kN/m • Strain at nominal tensile strength* (EN ISO 10319): ≤ 20/20 % • Min. thickness after filling: ≈ 100 mm • Average thickness after filling: ≈120 mm • Pore size O90* (EN ISO 12956) ≈ 200 µm • Water permeability index normal to the plane* (EN ISO 11058): ≈ 20 l/(m²s) (* per single fabric layer) • The mechanical properties of the geotextile shall be verified by internal or external quality assurance by an accredited laboratory (EN ISO 17025:2000). • The production of the geotextile shall be EN ISO 9001:2000 certified. • Each roll should have at least one identification label with roll number and product type in accordance to DIN EN 10320. • The manufacturer & installer shall have successful experience in similar projects in the Middle East within the past 3 years. • A representative from the manufacturer shall be present during the initial period of installation • The manufacturer & installer shall have Professional Indemnity Insurance with a minimum limit of Indemnity of USD 4,000,000 valid in All Arab countries with clear record for the past 5 years. • The manufacturer shall have Product Liability Insurance with a limit of liability of EUR 20,000,000 for each occurrence; valid for 5 years after delivery of Materials

		and shall provide in house warranty for 5 years after materials delivery And according to ''Vol. 3- Project Specifications, Clause 1.3'' the **Woven Geotextile material** specification is as below: – Shall consist of high strength woven made of Polypropylene (PP). – The woven geotextile shall have the following properties: Weight (EN ISO 9864): ≈440 g/m² Nominal tensile strength (DIN EN ISO 10319) (MD/CMD): ≥ 105/105 kN/m Strain at nominal tensile strength (DIN EN ISO 10319) (MD/CMD): ≤ 10/10 % Water permeability index normal to the plane, VIH50 (DIN EN ISO 11058): ≈20x10-3 (m/s) Opening size, O90 (DIN EN ISO 12956): ≈200 µm Weathering resistance (DIN EN 12224; Irradiance energy 150 MJ/m²) (DIN EN ISO 10319), Residual strength MD/CMD: ≥ 80 / 80 kN/m Chemical resistance to acid and alkaline liquids (DIN EN 14030) (DIN EN ISO 10319), Residual strength MD/CMD: ≥ 95 / 95 kN/m – Minimum design life of 25 years. – The mechanical properties of the fabric have to be verified in accordance to DIN 18200 by internal quality assurance and external accredited laboratories. All laboratories including the manufacturers' laboratory have to be DIN EN ISO 17025:2000 certified. – The development, manufacture, inspection, sales and applications support of the manufacturer has to be EN ISO 9001:2008 certified. – The manufacturer shall have Product Liability Insurance with a limit of liability of EUR 20,000,000 for each occurrence; valid for 5 years after delivery of Materials and shall provide in house warranty for 5 years after materials delivery

Meeting Summary:

- Mr. Shahzad Bangash-UNDP Procurement Specialist hosted the conference started with an overview of the ITB 220/17.

- Bidders asked questions related to specific requirements of the ITB as explained above.

Attendance: UNDP Iraq:

1. Shahzad Khan Bangash Procurement Specialist
2. Bikhtiyar Mohammed Ahmed Senior Project Engineer
3. Emad Al-Karkhi Consultant Engineer-Focal point for Site visit

4. Omer Ali Omer ICT Support Clerk

Attendance: Via Skype Pre-Bid conference:

S. No	Bidder Name	Contact person
1	Bait Al Khalij General Contracting Co. LTD.	Diana DeMilta
2	Ratba'a General Contracting Co. LLC	Mohammed Aboud
3	Qabas Group	Khalil Ibrahim
4	Thefaf Al-Rafidain Co. Ltd	Eng. Sufian Faraj Hakoush
5	Eamar Al Muhandeseen Company for General Contracting	M. Bahriya
6	Eamar AL Muhandeseen	M. Bahriya
7	GES	Ms. Hanan Shaltaf