

Terms of Reference

Project: SWSS - Stabilization of water supply and sanitation situation of refugees, IDP's and receiving communities of Dohuk governorate.

Subject: 1) Building capacity in wastewater Treatment plants unit for Relevant Directorates /Duhok Governorate.

Project-Nr.: 16.1850.3-001

1. General

Iraq is considered as a fragile state in an unstable region marked by the Syrian crisis. Since the beginning of this crisis, around 215,000 Syrian refugees have fled to Iraq. In addition, there are approximately 2,100,000 Internally Displaced Persons (IDPs) who have been forced to leave their homes due to the Islamic State terrorist group's advance and either live in refugee camps or host communities.

The governorate Dohuk, which is supported by the project, has approximately 1,100,000 inhabitants in the Kurdish autonomous area of northern Iraq. In addition, there are about 570,000 IDPs and about 90,000 Syrian refugees. Despite the relatively good infrastructure and the great willingness to help, the Kurdistan Regional Government has insufficient capacity to adequately supply the large number of predominantly destitute IDPs and refugees. According to the United Nations Strategic Aid Plan ("Response Plan"), the biggest concerns are lack of infrastructure, including drinking water and sanitation. In particular, the drinking water supply has worsened dramatically due to the high number of refugees and IDPs in many areas. This applies both to the indigenous population in the communities and to refugees and IDPs in camps or host communities. Governorate Dohuk does not have the necessary resilience to maintain drinking water and sanitation for refugees, internally displaced persons and rising communities (key problem).

Duhok doesn't have any waste water system (network neither waste water treatment plant) the system for the city and Sub-Urbans is penetrated septic tanks which they are collected when they get full and discharged into open space. The only waste water system is build or under construction in the province is for the investment and private projects (Residential, commercials, health centres.....etc.), but the problem is that the quality for those is really poor and bad mostly all the waste water treatment plants doesn't work in the proper way and the quality of the discharged water is still polluted sometimes is highly polluted. Knowledge And experience of the government departments in waste water system are limit because these units are not very widespread in public projects (governorates department).

2. Aim

The objective of the two proposed Training for the relevant local authorities on the designs of wastewater treatment plants for residential projects. The training should cover, theoretical and practical sections (site visit to one decentralized WWTP location), the most relevant topics will be addressed in two training sessions and one practical section.

The contractor or consultant must read the record and evaluate the method of approving the detail designs for Wastewater systems (the network and WWTP) for private projects (central and decentralized) existing in Governorate Duhok.

3. Function of the contractor (AN)

The contractor or consultant (AN) has to ensure in the course of his work that the tasks assigned to him are completed within the time limit.

Most of the assignments of the experts are to be taken in place in Dohuk. Travels to site visit are part of the mission. **The total time for the project is 40 days beginning from date of assignment.**

In order to determine the evaluation criteria, a proposal for Implementation (concept) and work plan must be submitted with the offer.

Equipped office should be provided by contractor.

4. Staff and topics

The contractor or consultant should have experience in designing, construction & processing of municipal different types of waste water treatment plants with a good career and reputation.

The following subjects with experiences are to be taken into consideration for trainings:

N	Subject	Qualifications	time
1	<ul style="list-style-type: none"> - Principles and type of design according to European standards of various sizes. - fundamentals for the selection and design of the most appropriate, cost-effective and sustainable wastewater or sanitation treatment system. - Explain methods of treatments for domestic, commercial, general buildings & entertainment areas waste water discharge. - Describe the main elements and components involved in the project planning, project management, and project administration for the design, engineering, construction, start-up and operation of a wastewater treatment plant and Criteria for Selection of Treatment type. - select the most suitable and cost-effective wastewater treatment process technology and design to treat certain wastewater given its composition and characteristics and taking into account the result of the assessment which has been completed for me 20 projects. 	<p>Engineer specialist (at least Master holder) in designing and planning for wastewater treatment plants with experience not less than 10 years in designing and planning and he/she had worked as a designer in any place around the world for example (Turkey, Europe, America's,....etc).</p>	5 days
2	<ul style="list-style-type: none"> - Discuss and explain the characteristics of domestic wastewater, low industrial wastewater, commercial wastewater, entertainment waste water & food processing factories that are to be depended for designing and calculate a WWTP. 	<p>Two (Ph.D. or Master Holder) Engineer specialist in designing and planning for waste water systems (network and treatment plant) with experience not less than 15 years.</p>	4 days

	<ul style="list-style-type: none"> - How to decide the suitable type of treatment for the wastewater a residential or commercial & entertainment compounds. (What points are important to be taken in consideration). - Discuss and explain the characteristics of wastewater after treatment for agriculture use and to be discharged into natural drainages (rivers, lakes....etc) what is suitable for Duhok province. - Stages for approving Wastewater system (Network with treatment plant) plans and designs for private or specific residential, commercial & public compounds. - Operating and monitoring of a municipal wastewater treatment plant. 		
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Note: One of the Technical Specialist will be a team leader (TL) for reporting and contacting with GIZ office It must have capabilities of management, planning, and reporting writing.

Note 2: The contractor or consultant should calculate the Visa cost and travel costs for international specialist in the Bid Sheet.

Language skills: English spoken and written if not the consultant should bring translator on his own expenses.

General advice

Cooperation and coordination with the local directorates in charge is essential for the project. If necessary, the obtaining of permits will be carried out by GIZ and is not a matter for the contractor; however, the contractor supports GIZ in the framework of its expertise.

Some data required to elaborate the work may be provided in part by the directorates. The contractor will submit a list of requirements (required data) after commissioning for GIZ, so that corresponding information can be obtained in advance.

5. Execution

The contractor (with his team) will get an appropriate briefing from the GIZ project regarding the planned project. GIZ designates a responsible supervisor with whom technical and organizational questions must be agreed. The contractor gets an overview of the local conditions and requirements. Based on the findings, he prepares an adapted list of documents, documentation and regional data that, in his view, should be used by GIZ and regional authorities. Based on the available data and information, the development of the trainings has to be carried out according to the requirements formulated in point 4.

6. Reporting

The contractor (team leader) reports briefly to the GIZ (responsible person) on a weekly basis by email about the key findings and the status of the preparation of the project.

After completing the trainings and on-site trainings, the contractor has to provide a final report to the project (summary of work results with photos).

7. Additional conditions/copyright

- The GIZ has the ownership of all texts and images and holds the copyright.
- Workshops and discussions with the responsible Directorate or the higher-ranking authorities shall only be managed by GIZ.
- Any form of publication or press release requires the approval of the GIZ country office.
- The contractor complies with the specific risk management guidelines.
- All photos have to be submitted as a softcopy on CD.
- Training materials, test results, and attendance sheets must be submitted to giz.
- All deliverables are to be in English language.