

1. **Family name:** KNOCHE
2. **First names:** Ralf
3. **Date of birth:** 29 November 1971
4. **Nationality:** German
5. **Civil status:** Single
6. **Education:**

<b>Institution:</b>	Technical University of Munich/Germany
<b>Date:</b>	11/1992 to 02/2000
<b>Degree(s) or Diploma(s) obtained:</b>	Civil Engineer (Dipl.-Ing. (univ.)) equivalent to Masters of Science

7. **Language skills:** (1 = worst; 5 = best)

Language	Reading	Speaking	Writing
German	Mother tongue		
English	5	5	5
Spanish	3	3	3
French	3	3	3

8. **Membership of professional bodies:** DWA

9. **Other skills:**

Capacity Works, FIDIC, VOL, VOB, full computer literacy; very good communication skills

10. **Present position:** Consultant

11. **Years within the firm:** Freelancer since 2012

12. **Key qualifications:** More than 20 years of professional experience in mainly in water supply, sewerage, drainage, sanitation in projects in the context of emergency relief and development cooperation: master plans, feasibility studies, proposals, planning and design, tender documents, assistance to tendering and contracting, construction supervision, commissioning, defects notification period, backstopping and evaluations. 15 years in countries abroad. Long-standing experience as Project Manager/Team Leader/Backstopper, Evaluator and Tender Agent.

13. **Specific country experience:**

Country	Date
Bangladesh	01/2015 – 01/2016, 09/2019, 05/2022, 09/2022
Denmark	11/1998 – 08/1999
Georgia	05/2017
Greece	06/2016
Indonesia	11/2006, 04/2007 – 05/2007
Iran	12/2003 – 01/2004
Iraq	09/2003 – 11/2003, 03/2016
Jordan	08/2013 – 09/2013, 02/2014, 11/2014
Kosovo	06/2022
Lebanese Republic	08/2006 – 02/2007, 02/2008 – 12/2011, 02/2012 – 03/2012, 08/2012
Liberia	06/2004, 05/2005 – 03/2007
Mozambique	03/2019 – 04/2019
North Macedonia	10/2018, 06/2019, 12/2022
Palestinian Territories	11/2022
Peru	05/2022
Sierra Leone	09/2002 – 03/2007
Somalia	11/2018
South Sudan	11/2010
Sri Lanka	05/2003 – 06/2003
Spain	03/2000 – 07/2000, 11/2002 – 12/2002
Uganda	11/2016 – 08/2017, 11/2017
Ukraine	07/2019

## 15. Professional experience:

<b>Date:</b>	01/2012 – on-going
<b>Location:</b>	Germany and abroad
<b>Company:</b>	Freelancer
<b>Position:</b>	Senior Consultant
<b>Description:</b>	<p>Team Leader, Project Manager and Senior Expert in WASH / infrastructural measures for the complete project chain for projects funded by KfW, ADB, EIB, AA, BMZ, ECHO, EuropeAid, UNICEF, UNHCR etc. for projects in emergency relief, transition aid and development cooperation:</p> <ul style="list-style-type: none"> <li>- Tender Agent for assignments of implementing Consultants</li> <li>- Fact finding missions</li> <li>- Project proposals</li> <li>- Design</li> <li>- Tendering</li> <li>- Supervision</li> <li>- Commissioning</li> <li>- Capacity development</li> <li>- Evaluation and Monitoring</li> <li>- Backstopping</li> </ul>

<b>Date:</b>	01/2012 - ongoing
<b>Location:</b>	Germany and abroad
<b>Company:</b>	Freelancer
<b>Position:</b>	WASH Expert, Lecturer
<b>Description:</b>	<p>Conduction of training, lectures and presentation for Johanniter International Assistance, Malteser International, Caritas Switzerland, BORDA, arche noVa, Foundation St. Barbara, Konrad-Adenauer-Foundation, University for Applied Science Rüsselsheim, University for Applied Science Bremen, University Bremen, Jacobs University Bremen etc.</p>

<b>Date:</b>	03/2023 – on going
<b>Location:</b>	Germany and Namibia
<b>Company:</b>	Freelancer: City of Windhoek, Department of Water Infrastructure
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>The scope of the project “Securing Windhoek Water Supply II” consists of the following project measures:</p> <ol style="list-style-type: none"> <li>1. Institutional and organisational strengthening/capacity building;</li> <li>2. Water network analysis and management;</li> <li>3. Development of water loss reduction programme.</li> </ol> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	02/2023 – ongoing
<b>Location:</b>	Germany and Gaza
<b>Company:</b>	Freelancer: Coastal Municipalities Water Utility, Palestinian Territories
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Stormwater and renewable energy for WASH facilities in Gaza, funded by KfW (German Development Bank): The Project concerns the implementation of measures for the prevention of stormwater floods in the Gaza Strip and to increase the aquifer recharge potential of stormwater, primarily by construction of stormwater networks and by construction of infrastructure for groundwater recharge. The purpose of the Project is to increase resilience to the impacts of climate change in Gaza.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	01/2023 – on going
<b>Location:</b>	Germany and Albania
<b>Company:</b>	Freelancer: IMS Ingenieure
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>The project “Sustainable and climate-friendly solid waste management programme” concerns the implementation of environmentally and hygienically sound, climate-friendly, sustainable and efficient municipal and regional solid waste management systems in selected Albanian waste management zones. The purpose of the project is the protection of the environment and health of the population in the project regions. This is to contribute to reduce health risks and environmental pollution in Albania.</p> <p>The tendering of the project is divided in two areas: and thus two tenders:</p> <ul style="list-style-type: none"> <li>- The Implementation Consultant (IC) will support the PCU in planning, tendering and supervising the construction and rehabilitation of the foreseen project measures as well as in general project implementation tasks.</li> <li>- The Accompanying Measures Consultant (AMC), will support the PCU in the areas of organisational and institutional development, financial management, public relation and also operational training for the commissioning of the new infrastructure.</li> </ul> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	11/2022 – on going
<b>Location:</b>	Germany and Armenia
<b>Company:</b>	Freelancer: State Committee of Water Economy of the RA Ministry of Territorial Administration of Armenia/ Armenian Territorial Fund for Development
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>The aim of the Municipal Infrastructure Programme II (KIP II) is to supply the inhabitants of the programme sites with hygienically safe drinking water all year round and in sufficient quantities and thus to make a contribution to improving the social living conditions of the population and to the sustainable use of water as a resource.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	10/2022 – 01/2023
<b>Location:</b>	Germany and Palestinian Territories
<b>Company:</b>	Freelancer: KfW
<b>Position:</b>	Technical Advisor
<b>Description:</b>	<p>The project, which are to be inspected in this assignment, is part of a donor basket funding established in 2010 to implement the education sector strategy of the Palestinian Ministry of Education (MoE). With the third and fourth phases of the education program, the basket funding is intended to support the implementation of the third education strategy (Education Development Strategic Plan - EDSP 2014 - 2019 - "Palestine: A Learning Nation"). The objectives of the strategy and thus of the FC project are to improve access to education, the quality of education and the administration of education (outcome).</p> <p>Subject of the final inspection is generally a target/actual comparison with regard to the project conception of the measures and their technical design, the implementation including the time schedule and the costs. The assessment also includes an evaluation of the risks and possible recommendations for sustainable use. If necessary, appropriate recommendations are made to the users of the buildings and equipment in order to ensure developmental success, if necessary.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Presentation of the planned construction measures and the measures actually carried out (target - actual comparison)</li> <li>- Capacity of the school versus number of students</li> <li>- Compliance with key planning criteria in final design, adequacy of technical</li> </ul>

	<p>design and layout (procedures and system design)</p> <ul style="list-style-type: none"> <li>- Justification for significant deviations in implementation design, including adjustment of capital planning, bidding modalities, progression of PQ and bidding; deviations from cost estimates, addenda; etc.</li> <li>- Presentation of the planned implementation times according to KfW's project appraisal report and the actual progress (target/actual comparison)</li> <li>- Justification for significant deviations in the project schedule</li> <li>- Presentation and assessment of the partner's structural performance</li> <li>- Presentation and assessment of the created production/performance potential</li> <li>- Recommendations for the use of the investments, evaluation of the effects and risks for the achievement of the objectives</li> <li>- Audit of use of funds</li> </ul>
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<b>Date:</b>	09/2022 – 12/2022
<b>Location:</b>	Germany and Bangladesh
<b>Company:</b>	Freelancer: KfW
<b>Position:</b>	Technical Advisor
<b>Description:</b>	<p>The aim of the appraisal mission for the UNICEF project “Improved WASH Facilities as well as Child and Youth Protection for Rohingya Camps and Host Communities” to support the KfW portfolio manager.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Participation of KfW-mission to Cox's Bazaar</li> <li>- Assessment of proposed project locations</li> <li>- Evaluation of project proposal of UNICEF</li> <li>- Support in elaboration of relevant reports</li> </ul>

<b>Date:</b>	03/2022 – on going
<b>Location:</b>	Germany and Kosovo
<b>Company:</b>	Freelancer: Kompania Rajonale Ujësjetësi Prishtina sh.a – Regional Water Company Prishtina j.s.c
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>The overall objective of the program is to jointly contribute to environmentally friendly, hygienically safe and sustainable wastewater management, in line with the national wastewater and resource protection strategy, while fostering alignment with EU Standards, thereby contributing to sustainable urban development and climate adaptation. The beneficiaries of the Program will be the population served by RWCP (Municipality of Prishtina, Fushe Kosovo, Obiliq and Gracanica). Key outputs will be the provision of infrastructure and technical assistance to improve RWCP's performance. The implementation of the Project will be supported by consultancy services in two areas:</p> <ul style="list-style-type: none"> <li>- The Implementation Consultant (IC) will support the PEA in the preparation of detailed design and associated studies, specifications, preparation of tender documents, assistance in procurement and contracting as well as construction supervision and soft measures related to investment.</li> <li>- The Accompanying Measures Consultant (AMC) will support the PEA in financial, commercial, institutional, technical and administrative matters to improve the overall performance of the company and the water, wastewater and storm water system. In addition, the PIU will be supported to coordinate, manage, monitor and act as a counterpart for all project related activities. consultants and contractors.</li> </ul> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	02/2022 – on going
<b>Location:</b>	Germany and North Macedonia
<b>Company:</b>	Freelancer: Ministry of agriculture, forestry and water economy
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>The Programme concerns the rehabilitation and extension of up to four irrigation schemes in the Vardar River Basin (Lisiche, Straishte, Konjsko, Pepelishte). The purpose of the Programme is the sustainable increase of the agricultural output (production and productivity) in those irrigation schemes by improved availability and efficient use of water resources. This is to contribute to the improvement of the living conditions of the agricultural population in the Vardar River Basin.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	11/2021 – 02/2022
<b>Location:</b>	Germany and Pakistan
<b>Company:</b>	Freelancer: KfW (German Development Bank)
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Scoping Study on water resource management and climate resilience in Pakistan:</p> <p>The aim of the study is to analyse the overall feasibility of projects in the potential areas of intervention, taking into account criteria such as the capacity of potential project partners, economic viability and sustainability. Finally, potential project concepts should be developed, which could be implemented to support Pakistan become more resilient to climate risks and manage its water resources more effectively.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	10/2021 – on going
<b>Location:</b>	Germany and Serbia
<b>Company:</b>	Freelancer: Ministry of Construction, Transport and Infrastructure
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Water Supply and Wastewater Treatment Programme in medium-sized Municipalities in Serbia VI, funded by KfW (German Development Bank):</p> <p>The objective is to improve the living conditions of the residents in the participating cities, to protect the surface and groundwater in the programme area and thus to protect the environment and also contribute to the climate change mitigation through improved energy efficiency of utility services. The programme will encompass the rehabilitation, extension and improvement of sewage and storm water systems, collection mains and transfer mains, pumping stations, and finally rehabilitation/extension of existing wastewater treatment plants to EU standards and construction of new wastewater treatment plants with wastewater and sludge treatment facilities including biogas reuse.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	03/2021 – 05/2022
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: KfW (German Development Bank)/IOM
<b>Position:</b>	Technical Advisor
<b>Description:</b>	<p>Improved Sanitation and Waste Management for Rohingya Camps and Host Communities in Bangladesh, funded by KfW (German Development Bank):  The Project concerns the improved sanitation and solid waste management for Rohingya Camps and host communities in Cox's Bazar. The purpose of the Project is to ensure the effective, sufficient and equitable provision of sanitation services for men, women, boys and girls in the Rohingya camps and surrounding host communities.</p> <p>The objective of the assignment is to act as Technical Advisor to the KfW Portfolio Manager in charge of the project.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Familiarize himself/herself with existing project documents</li> <li>- Review and comment IOM reports (expected are Inception and monthly progress reports)</li> <li>- Check IOM design submissions (e.g., for proposed faecal sludge treatment plants, latrines, bridges, etc.) for suitability and provide comments</li> <li>- Support KfW with further tasks that may arise in the course of project implementation and require assessment by a technical expert</li> <li>- Final inspection of school construction of UNICEF</li> </ul>

<b>Date:</b>	03/2021 – on going
<b>Location:</b>	Germany and Jordan
<b>Company:</b>	Freelancer: Water Authority of Jordan
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Support of water sector reforms, funded by KfW (German Development Bank):  The overall goal of the project is the implementation of reform measures in the water sector of Jordan in order to improve the financial and technical sustainability of the water sector and the sustainable use of water resources with the general objective to achieve an adequate level concerning sustainability in the mid and long term.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a "shortlist" of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	12/2020 – on going
<b>Location:</b>	Germany and Peru
<b>Company:</b>	Freelancer: Patrizia Children Foundation
<b>Position:</b>	Project Manager
<b>Description:</b>	<p>Alto Sondoveni School Extension, Satipo, Junín, Perú, funded by Patrizia Children Foundation and Apo Projekt:  The objective of the project is the extension of a community school in the rain forest of Perú</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Management of the project, i.e., all technical, financial and reporting matters</li> <li>- Coordination with all relevant stakeholders; i.e., donor, municipality, community, local project implementer, etc.</li> <li>- Reporting</li> <li>- Monitoring of project progress</li> <li>- Monitoring of the overall budget allocations</li> <li>- Tendering and evaluation of offers</li> <li>- Examination of invoices</li> </ul>

<b>Date:</b>	12/2020 – 08/2021 suspended
<b>Location:</b>	Germany and Afghanistan
<b>Company:</b>	Freelancer: Afghanistan Urban Water Supply and Sewerage Corporation
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Water Supply Kabul, Phase III, MTP 1, funded by KfW (German Development Bank):</p> <p>The objective of the project is the improvement of water supply infrastructure. In detail two existing water reservoirs have to be rehabilitated and one water reservoir in Kabul has to be demolished and reconstructed.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a "shortlist" of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	11/2020 – 04/2021
<b>Location:</b>	Germany and Gaza
<b>Company:</b>	Freelancer: Coastal Municipalities Water Utility, Palestinian Territories
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Multisectoral Investment Program, ESIA, funded by KfW (German Development Bank):</p> <p>The objective of the program is the improvement of the energy efficiency of water and sanitation infrastructure; Before implementation of project a complete ESIA has to be carried out.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	10/2020 – 06/2022
<b>Location:</b>	Germany and Gaza
<b>Company:</b>	Freelancer: Palestinian Water Authority
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Central Desalination Plant Gaza – Reconfiguration of Water Supply Infrastructure, Gaza, funded by KfW (German Development Bank):</p> <p>The objective of the Feasibility Study is the identification of further investment measures in the field of wastewater disposal.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a "shortlist" of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	09/2020 – 04/2021
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: Dipl.-Ing. Richard Ellert
<b>Position:</b>	Sewer Designer
<b>Description:</b>	<p>Conceptual design for the main collector system and secondary sewers for Mazar-i-Sharif, Afghanistan, on master plan level</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Definition of design requirements and design parameters</li> <li>- Development of routing strategy considering local properties, e.g., topography, density of population, step-wise implementation, operational safety, costs for investment as well as for operation and maintenance, required skills for operator and institutional capacity, etc.</li> <li>- Planning with 'Sewer Gems', results were verified manually using Excel</li> <li>- Elaboration of implementation concept</li> <li>- Elaboration of design report on master plan level</li> </ul>

<b>Date:</b>	07/2020 – 11/2021
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: KfW (German Development Bank)
<b>Position:</b>	Support of Procurement Department
<b>Description:</b>	<p>Due to the massive work load the Procurement Department Sub-Sahara Africa, the department is supported.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Evaluation of prequalification documents</li> <li>- Evaluation of evaluation matrices for prequalification</li> <li>- Evaluation of evaluation reports of prequalification</li> <li>- Evaluation of request for proposals/Terms of Reference</li> <li>- Evaluation of evaluation matrices for technical evaluations</li> <li>- Evaluation of technical evaluation reports</li> <li>- Evaluation of contracts</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	05/2020 – on going
<b>Location:</b>	Germany and Jordan
<b>Company:</b>	Freelancer: Water Authority of Jordan
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Sustainable wastewater disposal: Environmental protection, Jordan, funded by KfW (German Development Bank):</p> <p>The objective of the Feasibility Study is the identification of further investment measures in the field of wastewater disposal.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	04/2020 – 09/2021
<b>Location:</b>	Germany and Gaza
<b>Company:</b>	Freelancer: Coastal Municipalities Water Utility, Palestinian Territories
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Multisectoral Investment Program, funded by KfW (German Development Bank):</p> <p>The objective of the program is the improvement the energy efficiency of water and sanitation infrastructure.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender &amp; substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	04/2020 – 02/2022
<b>Location:</b>	Germany and Jordan
<b>Company:</b>	Freelancer: Water Authority of Jordan
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Water Loss Reduction Programme Jordan, funded by KfW (German Development Bank):</p> <p>The objective of the Feasibility Study is the identification of planned investment measures with a programme amount of approximately EUR 50 million.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	12/2019 – 06/2022
<b>Location:</b>	Germany and Jordan
<b>Company:</b>	Freelancer: Water Authority of Jordan
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Groundwater Desalination Project Jordan, funded by KfW (German Development Bank):</p> <p>The objective of the Feasibility Study is the development of a technically and financially sustainable groundwater desalination scheme.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	02/2019 – suspended
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: World Vision
<b>Position:</b>	Tender Expert, Technical backstopping
<b>Description:</b>	<p>The project ‘South Darfur Livelihoods and Agricultural Infrastructure Development Project’ aims to contribute to increased stability and economic well-being of affected households and vulnerable communities in South Darfur State of Sudan by providing alternative livelihoods options and improving agricultural infrastructure.</p> <p>The three year intervention will strengthen livelihoods at household level through increased and diversified market oriented production, aimed at increasing household income and employment creation; through agro-processing activities such as milk and honey production and processing, veterinary services, construction of productive agricultural infrastructure such as micro-irrigation schemes and alternative water harvesting structures in order to reduce dependency on rain-fed agriculture (for crop and livestock production) aimed at benefiting agro-pastoralists populations of South Darfur.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with consultant</li> <li>- Conduct in the event of objections and complaints</li> <li>- Technical backstopping for water supply component</li> </ul>

<b>Date:</b>	01/2019 – on going
<b>Location:</b>	Germany and Ukraine
<b>Company:</b>	Freelancer: Kharkiv City Council, Ukraine
<b>Position:</b>	Tender Agent
<b>Description:</b>	<p>Municipal Infrastructure Rehabilitation in Kharkiv, Ukraine, funded by KfW (German Development Bank):</p> <p>The purpose of the project is to improve the performance and efficiency of water supply and waste water systems and to enhance the capacity of local water and sewerage utility in Kharkiv (with funds of KfW) and optionally in Chuguev and Bogodukhiv (with funds of EU).</p> <p>Furthermore, energy consumption of buildings (schools and kindergartens) in Kharkiv shall be reduced by investing in energy efficient construction technologies and replacing outdated equipment:</p> <ul style="list-style-type: none"> <li>- Design, tendering and construction of water supply and wastewater infrastructure as well as upgrade of schools and kindergartens in terms of energy efficiency</li> <li>- Institutional strengthening in both sectors</li> </ul> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a “shortlist” of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with the consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	09/2019
<b>Location:</b>	Bangladesh
<b>Company:</b>	Freelancer: BS-Consult for GIZ programme
<b>Position:</b>	WASH Consultant
<b>Description:</b>	GIZ Bangladesh is equipping the Department for Environment with water analysing devices. The Department of Environment is the supervisory authority for monitoring the discharge values of sewage treatment plants. <u>Scope of works:</u> Workshop for setup, O&M and storage of water analysing devices

<b>Date:</b>	03/2019 – 04/2019
<b>Location:</b>	Mozambique
<b>Company:</b>	Freelancer: Malteser International, Cologne
<b>Position:</b>	Team Leader and WASH Expert
<b>Description:</b>	Malteser International (MI) main tasks comprise emergency relief, transition aid and development cooperation. The core areas are health, WASH, nutrition and disaster preparedness. Cyclone Idai hit Mozambique's coastal city of Beira on 14 March 2019 with winds of up to 180 km/h that caused heavy flooding and contaminated many water resources. In order to prevent the spread of cholera, MI trained 150 hygiene promoters who helped to raise awareness on good hygiene practices and water purification within the populations in the Nhangau region and the city of Beira. <u>Scope of works:</u> <ul style="list-style-type: none"> <li>- Needs assessment and development of programme in close coordination with local authorities and German organisations, in particular THW</li> <li>- Training of Trainers: preparing training incl. material and conducting the training concerning hygiene promotion</li> <li>- WASH assessment in surrounding communities</li> <li>- Elaboration of project options for health centres and communities</li> </ul>

<b>Date:</b>	12/2018 to 02/2019
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: IMS Ingenieure
<b>Position:</b>	Senior Consultant
<b>Description:</b>	Rural Development Programme, Myanmar, funded by KfW (German Development Bank): The programme focused on the: <ul style="list-style-type: none"> <li>- Set-up and / or improvement of efficient routine maintenance systems for rural roads (or other rural infrastructure systems)</li> <li>- Development and conduction of different trainings to set-up and / or improve efficient routine maintenance systems for rural roads</li> <li>- Improvements of maintenance organisation, sustainability of local routines as well as allocation of duties and responsibilities</li> </ul> <u>Scope of works:</u> <ul style="list-style-type: none"> <li>- Elaboration of documents for Invitation to prequalification</li> <li>- Evaluation of prequalification documents</li> <li>- Elaboration of evaluation report for prequalification</li> </ul>

<b>Date:</b>	06/2018 – 06/2020
<b>Location:</b>	Germany and North Macedonia
<b>Company:</b>	Freelancer: Ministry of Transport and Communication, North Macedonia
<b>Position:</b>	Tender Agent
<b>Description:</b>	Water and Sewerage Programme North Macedonia, funded by KfW (German Development Bank): The programme focuses on the rehabilitation of urban water supply and sewerage systems at socially acceptable costs in selected medium-sized municipalities: <ul style="list-style-type: none"> <li>- Design, tendering and construction of water supply and wastewater infrastructure</li> <li>- Institutional strengthening of water three water utilities</li> </ul> <u>Scope of works:</u> <ul style="list-style-type: none"> <li>- Preparing tender document for consulting services</li> <li>- Conducting prequalification and preparing a "shortlist" of qualified bidders</li> <li>- Conducting the tender</li> <li>- Sequential evaluation of the tender and substantiated contract award proposal</li> <li>- Coordinating the adapted KfW standard consulting contract with consultant</li> <li>- Conduct in the event of objections and complaints</li> </ul>

<b>Date:</b>	05/2018 to 12/2018
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: IMS Ingenieure
<b>Position:</b>	Senior Consultant
<b>Description:</b>	<p>Municipal Infrastructure Programme MIP V, Feasibility Study and Project Implementation for three cities, Albania, funded by KfW (German Development Bank) The programme focused on prioritised investments of the water and wastewater sector Master Plan in up to ten water utilities of Albania:</p> <ul style="list-style-type: none"> <li>- Elbasan: Feasibility study for water supply and sewerage networks and optional detailed design, tendering and construction supervision</li> <li>- Shkodra: Feasibility study for water supply and sewerage networks and optional detailed design, tendering and construction supervision</li> <li>- Fier, Saranda and Mallakstra or Vlora: Feasibility study for water supply and sewerage networks and optional detailed design, tendering and construction supervision</li> </ul> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Evaluation of prequalification documents</li> <li>- Elaboration of evaluation reports</li> <li>- Evaluation of technical proposals for ESIA</li> <li>- Elaboration of evaluation report for ESIA</li> </ul>

<b>Date:</b>	05/2018 to 09/2018
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: IMS Ingenieure
<b>Position:</b>	Senior Consultant
<b>Description:</b>	<p>Water Supply and Wastewater Programme VI, in Medium-Sized Municipalities, Serbia, funded by KfW (German Development Bank): The objective of the Programme is the environmentally and hygienically safe discharge and treatment of wastewater in selected towns at socially acceptable costs:</p> <ul style="list-style-type: none"> <li>- Preparatory engineering works: Design and planning activities</li> <li>- Institutional management support</li> </ul> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Evaluation of prequalification documents</li> <li>- Elaboration of evaluation report for prequalification</li> </ul>

<b>Date:</b>	04/2018 – 06/2019
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: Malteser International, Cologne
<b>Position:</b>	WASH Expert
<b>Description:</b>	<p>Malteser International (MI) main tasks comprise emergency relief, transition aid and development cooperation. The core areas are health, WASH, nutrition and disaster preparedness.</p> <p>In the course of requirements of the World Health Organization MI had to be certified to provide health services in emergency. For this reason, a special unit was founded, the so called 'Emergency Medical Team' (EMT). The MI EMT was certified as 'Level 1' team, which qualifies to treat out-patients in case of emergency. Requirement is to set up and operate a camp, which has to be operated completely independent for 14 days. Only water and fuel are allowed to be procured at the location of operation.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of camp layout</li> <li>- Elaboration of Standard Operation Procedures (SOPs) for water and sanitation infrastructure</li> <li>- Consultancy in procurement of material</li> <li>- Assistance in execution of field exercise</li> <li>- Assistance during certification process</li> </ul>

<b>Date:</b>	02/2018 – 04/2020
<b>Location:</b>	Germany and Uganda
<b>Company:</b>	Freelancer: BORDA Ltd., Bremen
<b>Position:</b>	Senior Consultant and Backstopping
<b>Description:</b>	<p>BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas.</p> <p>Final design of faecal sludge management facilities (60 m<sup>3</sup>) in Kampala, Uganda, funded by CIDI (Community Integrated Development Initiative)</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Final design of faecal sludge management facilities (drying beds, settler, horizontal filters, maturation pond, piping)</li> <li>- Elaboration of tender documents</li> <li>- Elaboration of operation and management plans</li> <li>- Project administration</li> <li>- Backstopping</li> </ul>

<b>Date:</b>	08/2017 to 03/2018
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: PATRIP
<b>Position:</b>	Senior Consultant
<b>Description:</b>	<p>PATRIP foundation promotes integration and enhance cross-border cooperation and exchange between Afghanistan and neighbouring Pakistan and Tajikistan. The PATRIP Foundation aims to help stabilize the region by supporting its economic and social development, meeting challenges in the border regions with bi-national and multi-sectoral measures.</p> <p>The objective of the project was to elaborate complete documents to ease the mandatory process for NGOs. carrying out tendering</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Examination of procurement guidelines</li> <li>- Elaboration of checklists</li> <li>- Elaboration / Update of standard documents (standard bidding documents incl. bidding forms, BOQs, general and particular specifications, contract forms, design report etc., minutes of tender opening, evaluation report for technical and financial evaluation, etc.)</li> </ul>

<b>Date:</b>	05/2017 to 12/2017
<b>Location:</b>	Georgia
<b>Company:</b>	Freelancer: IMS Ingenieure
<b>Position:</b>	Senior Consultant
<b>Description:</b>	<p>Rehabilitation of Municipal Infrastructure - Batumi – Phase III, Lot No. 4 -1a, Chavchavadze Street and Bagrationi Street, Georgia, funded by KfW (German Development Bank):</p> <p>Main services of this present lot are the design and the construction of two collectors and corresponding infrastructure:</p> <ul style="list-style-type: none"> <li>- Collector A: located in Chavchavadze street, 1,200 mm GRP pipes in length of approximately 376 metres</li> <li>- Collector B: located in Bagrationi street, 1,200 mm GRP pipes in length of approximately 1,200 metres</li> </ul> <p>Corresponding infrastructure, e.g. secondary sewers incl. house connections parallel to the main collectors on each side of the road, connection of secondary sewers to collector from cross-roads, extension of existing reinforced concrete pipe, inlet of pumping station (PST A) etc.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of documents for functional tendering (FIDIC Yellow Book)</li> <li>- Assistance during tendering</li> <li>- Evaluation of proposals</li> </ul>

<b>Date:</b>	10/2017 – 12/2017
<b>Location:</b>	Germany and Uganda
<b>Company:</b>	Freelancer: Malteser International, Cologne
<b>Position:</b>	Evaluator
<b>Description:</b>	<p>Malteser International (MI) works in South Sudan and Uganda since more than 20 years mainly in the sectors health, WASH as well as Food and Nutrition Security. Particularly, during recent years, MI operates in a chronic, acute, and protracted environment with a dire situation in South Sudan after decades of war, independence and with a civil war ensuing that forced large proportions of the people to leave their homes. Besides the two million internally displaced South Sudanese (acc. to UNCHR, 31st July 2017), the population seeks refuge in neighbouring countries like Uganda, Sudan and Ethiopia). Since 2014 MI carries out cross-border projects in South Sudan and Uganda to ease the situation of the IDPs and refugees. After three years of project implementation MI wants to carry out an interim evaluation to ensure sustainable projects in future.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Preparation: Study of all documents available</li> <li>- Data collection: Field visits, discussions with donors, beneficiaries, government, UN etc.</li> <li>- Analysis and reporting of results</li> </ul>

<b>Date:</b>	11/2016 – 08/2017
<b>Location:</b>	Germany and Uganda
<b>Company:</b>	Freelancer: BORDA Ltd., Bremen
<b>Position:</b>	Senior Consultant and Backstopping
<b>Description:</b>	<p>BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas:</p> <p>Technical and financial proposal for engineering design of faecal sludge management facilities in Apac and Oyam districts, in Northern Uganda, funded by German Agency for International cooperation (GIZ).</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Final design of faecal sludge management facilities (drying beds, settler, horizontal filters, maturation pond, piping)</li> <li>- Elaboration of tender documents</li> <li>- Elaboration of operation and management plans</li> <li>- Project administration</li> <li>- Backstopping</li> </ul>

<b>Date:</b>	10/2016 – 07/2017
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: BORDA Ltd., Bremen
<b>Position:</b>	Senior Consultant and Backstopping
<b>Description:</b>	<p>BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas.</p> <p>Investment Action Plan for wastewater treatment in peri-urban areas of Phnom Penh, funded by Global Green Growth Institute (GGGI).</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of technical and financial proposal</li> <li>- Pre-Feasibility study and implementation plan of wastewater treatment plants (DEWATS)</li> <li>- Project administration</li> <li>- Backstopping</li> </ul>

<b>Date:</b>	06/2016
<b>Location:</b>	Greece
<b>Company:</b>	Freelancer: CARE Germany-Luxemburg e.V., Bonn
<b>Position:</b>	Technical Advisor WASH, Assessment
<b>Description:</b>	<p>CARE Germany-Luxemburg is carrying out projects in almost 40 countries, mainly in the field of humanitarian assistance.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- In depth analysis/assessment on the WASH situation in pre-selected formal and informal camps in Greece</li> <li>- Link in with existing WASH cluster and relevant authorities in Thessaloniki</li> <li>- Elaboration of recommendations for WASH in Emergencies activities in visited sites, with the specific inclusion of gender-sensitive and/or gender-transformative activities</li> <li>- Assessment of local partner's capacity of WASH understanding and ability in programme design and implementation and recommendations for capacity building</li> <li>- Provision of recommendations for WASH interventions and approach and refinement of existing response strategy on the WASH component</li> <li>- Provision of specific recommendations on WASH interventions to be used in ECHO-Proposal</li> </ul>

<b>Date:</b>	03/2016
<b>Location:</b>	Iraq
<b>Company:</b>	Freelancer: Johanniter International Assistance (JUH), Berlin
<b>Position:</b>	Technical Advisor WASH, Assessment
<b>Description:</b>	<p>JUH is carrying out projects in almost 20 countries, mainly in the field of health and hygiene.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Meeting of relevant stakeholders (Government, UN-organisations, international and local NGOs) incl. recommendation for cooperation</li> <li>- Elaboration of report of fact-finding mission incl. resolution minutes</li> <li>- Definition of next steps for the case of project implementation</li> <li>- Elaboration of project proposals for pilot project and follow-up projects</li> </ul>

<b>Date:</b>	01/2016 – 03/2016
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: German WASH Network (GWN), Berlin
<b>Position:</b>	Senior Consultant
<b>Description:</b>	<p>GWN was founded by German non-governmental organisations in 2011. The members are German non-profit organisations, which focus on development co-operation or humanitarian emergency relief and rehabilitation and are actively engaged in the WASH sector. The objectives of GWN are to strengthen the entire German WASH-sector and to contribute to implement the human right to water and basic sanitary services.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration and realisation of survey for member mapping to meet the expectations of member organisations</li> <li>- Elaboration of a concept note for a UNICEF standby staff agreement</li> </ul>

<b>Date:</b>	11/2015 – 02/2016
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: Bremen Overseas Research and Development Association, BORDA e.V., Bremen
<b>Position:</b>	Expert Advisor WASH
<b>Description:</b>	<p>BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Development of a basic and advanced workshop in the field of "off-site sanitation"</li> <li>- Teaching of different sessions</li> </ul>

<b>Date:</b>	06/2015 – 06/2018
<b>Location:</b>	Germany and abroad
<b>Company:</b>	Freelancer: BORDA Ltd., Bremen
<b>Position:</b>	Senior Consultant
<b>Description:</b>	BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas. In 2013 BORDA Ltd. was founded as a branch of BORDA e.V. (NGO) to establish new business areas. Main task is the setup and implementation of consultancy services.

<b>Date:</b>	01/2015 – 04/2016
<b>Location:</b>	Germany/Bangladesh
<b>Company:</b>	Freelancer: BORDA Ltd., Bremen
<b>Position:</b>	Programme Manager and Backstopping
<b>Description:</b>	BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas. Main task is the Project Management and backstopping of the feasibility study "Sanitation Action Plan and Technology Demonstration(s) for 30 Pourashavas", funded by Asian Development Bank (ADB).

<b>Date:</b>	12/2014
<b>Location:</b>	Hashemite Kingdom of Jordan
<b>Company:</b>	Freelancer: GITEC Consult GmbH, Cologne
<b>Position:</b>	Consultant
<b>Description:</b>	Water Supply for Syrian Refugees Phase III (wastewater), in Mafraq and Manshiet Bani Hassan, Jordan, funded by KfW (German Development Bank): The objective of the Project was to improve the sewage collection within the city of Mafraq and Manshiet Bani Hassan, especially in areas experiencing a high influx of Syrian refugees. - Wastewater collection system with a total estimated length of 97 km - Construction of approximately 950 manholes Construction of two sewage pumping stations <u>Scope of works:</u> - Elaboration of technical proposal for Consulting Services for Design and Construction Supervision

	09/2014 – 04/2015
<b>Location:</b>	Germany/Iraq, Autonomous Region of Kurdistan
<b>Company:</b>	Freelancer: Bremen Overseas Research and Development Association, BORDA e.V., Bremen
<b>Position:</b>	Programme Manager and Backstopping
<b>Description:</b>	BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas. <u>Scope of works:</u> - Project Management and backstopping of projects in Northern Iraq (funded by BMZ and Free Hanseatic City of Bremen) - Development of new projects and elaboration of new project proposals - Further development of project processes in the field of emergency relief - Coordination with other organisations

<b>Date:</b>	08/2014 – 12/2016
<b>Location:</b>	Germany and abroad
<b>Company:</b>	Freelancer: Johanniter International Assistance (JUH), Berlin
<b>Position:</b>	Technical Advisor WASH
<b>Description:</b>	JUH is carrying out projects in almost 20 countries, mainly in the field of health and hygiene. <u>Scope of works:</u> - Technical advice during planning, implementation and evaluation of projects in the field of WASH - Support during elaboration of project proposals - Support of quality intensification of projects in the field of WASH - Development of guidance notes in the field of WASH under consideration of relevant international standards - Realisation of in-house training in the field of WASH

<b>Date:</b>	05/2014
<b>Location:</b>	Republic of the Philippines
<b>Company:</b>	Freelancer: GITEC Consult GmbH, Cologne
<b>Position:</b>	Consultant
<b>Description:</b>	<p>Consulting Services for the implementation of Yolanda Reconstruction Program, Philippines, funded by KfW (German Development Bank):</p> <p>Main objective of the proposed programme was the reconstruction of social infrastructure (i.e. water supply, schools, hospitals, roads/bridges on municipality level, sanitation, drainage, flood control, municipality buildings, ports etc.):</p> <ul style="list-style-type: none"> <li>- Needs assessment including prioritisation of sector and region</li> <li>- Selection of projects</li> <li>- Final design including BoQ</li> <li>- Elaboration of tender documents</li> <li>- Assistance during tendering</li> </ul> <p>Construction supervision</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of technical proposal</li> </ul>

<b>Date:</b>	03/2014
<b>Location:</b>	Hashemite Kingdom of Jordan
<b>Company:</b>	Freelancer: GITEC Consult GmbH, Cologne
<b>Position:</b>	Consultant
<b>Description:</b>	<p>Support to wastewater services in Jordanian communities hosting Syrian refugees in Irbid region, Jordan, funded by KfW (German Development Bank):</p> <p>The main objective of this project is to improve the sanitary conditions and thus the environment of the targeted areas, by closing the septic tanks and by constructing a sewer network for centralised treatment of the wastewater:</p> <ol style="list-style-type: none"> <li>1. Beit Ras <ul style="list-style-type: none"> <li>- Construction of wastewater collection system (incl. house connections) with a total estimated length of 65 km</li> <li>- Construction of approximately 1,100 manholes</li> <li>- Construction six lifting stations</li> <li>- Construction one main pumping / lifting station</li> </ul> </li> <li>2. Densification Greater Irbid Municipality <ul style="list-style-type: none"> <li>- Assessment and update of sewer network</li> <li>- Final design of new sewer networks including house connections incl. BoQ</li> <li>- Elaboration of tender documents</li> <li>- Assistance during tendering</li> <li>- Construction supervision</li> </ul> </li> <li>3. Procurement of Equipment <ul style="list-style-type: none"> <li>- Jetting-suction truck</li> <li>- Backhoe loader, Jack hammer</li> <li>- Mobile Workshop</li> </ul> </li> </ol> <p>Sewer plugs etc.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of technical proposal</li> </ul>

<b>Date:</b>	02/2014
<b>Location:</b>	Hashemite Kingdom of Jordan
<b>Company:</b>	Freelancer: Johanniter International Assistance (JUH), Berlin
<b>Position:</b>	Consultant for WASH and Shelter
<b>Description:</b>	<p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Evaluation of completed projects: Definition of quality standards, visit of shelters, cost comparison and development of evaluation tool</li> <li>- Assessment for follow-up projects: Check of existing documents and comparison of requirements of donor, development of assessment tool, technical assessment</li> <li>- Consultancy: Conclusion and comparison of different technical specifications applied, development and realisation of workshop, concept for follow-up projects under consideration of lessons learned</li> </ul>

<b>Date:</b>	08/2013 – 09/2013
<b>Location:</b>	Hashemite Kingdom of Jordan
<b>Company:</b>	Freelancer: Technisches Hilfswerk (THW, German Federal Agency for Technical Relief) on behalf of UNICEF and UNHCR
<b>Position:</b>	Technical Team Leader
<b>Description:</b>	<u>Scope of works:</u> - Design and implementation of water supply and sanitation facilities in a new refugee camp in Azraq for Syrian refugees - Design of sewage collection systems in existing refugee camp in Za'atary

<b>Date:</b>	08/2012
<b>Location:</b>	Lebanese Republic/Germany
<b>Company:</b>	Freelancer: Technisches Hilfswerk (THW, German Federal Agency for Technical Relief) on behalf of the German Foreign Office (Auswärtiges Amt, Stab Humanitäre Hilfe)
<b>Position:</b>	Team Leader
<b>Description:</b>	<u>Scope of works:</u> - Needs assessment for all German humanitarian organisations with regard to the Syrian refugee situation in the Lebanese Republic - Evaluation of Security and Evacuation Plan of German embassy

<b>Date:</b>	06/2012 – 08/2013
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer: WE-Consult Ltd., Duesseldorf
<b>Position:</b>	Site Supervisor
<b>Description:</b>	<u>Scope of works:</u> Expansion and upgrading of the wastewater treatment plant Isselburg (Borken county) from 14,000 population equivalents to 20,000 population equivalents with special emphasis on energy optimisation

<b>Date:</b>	02/2012 – 03/2012
<b>Location:</b>	Lebanese Republic/Germany
<b>Company:</b>	Freelancer: Technisches Hilfswerk (THW, German Federal Agency for Technical Relief) on behalf of German Foreign Office (Auswärtiges Amt, Stab Humanitäre Hilfe)
<b>Position:</b>	Team Leader
<b>Description:</b>	Needs assessment for all German humanitarian organisations with regard to the Syrian refugee situation in the Lebanese Republic

<b>Date:</b>	05/2010
<b>Location:</b>	Lebanese Republic
<b>Company:</b>	GITEC Consult GmbH, Cologne
<b>Position:</b>	Senior Project Manager
<b>Description:</b>	Jeita Spring Protection Project, Lebanon, funded by KfW (German Development Bank) <u>Scope of works:</u> - Elaboration of technical and financial proposal <u>Project description:</u> The objective is to safeguard the quality of the groundwater from Jeita spring so that the supply of the population of Beirut with hygienically sound drinking water can be ensured by implementation of sewerage network, interceptors, trunk main and a wastewater treatment plant: - Preparation of a regional sewerage plan for Jeita spring catchment area - Preparation of final design and tender documents - Assistance to in tendering and contracting - Site supervision of works - Assistance during liability period

<b>Date:</b>	05/2010
<b>Location:</b>	Lebanese Republic
<b>Company:</b>	GITEC Consult GmbH, Cologne
<b>Position:</b>	Senior Project Manager
<b>Description:</b>	<p>Jeita Spring Protection Project, Lebanon, funded by KfW (German Development Bank):</p> <p>The objective is to safeguard the quality of the groundwater from Jeita spring so that the supply of the population of Beirut with hygienically sound drinking water can be ensured by implementation of sewerage network, interceptors, trunk main and a wastewater treatment plant:</p> <ul style="list-style-type: none"> <li>- Preparation of a regional sewerage plan for Jeita spring catchment area</li> <li>- Preparation of final design and tender documents</li> <li>- Assistance to in tendering and contracting</li> <li>- Site supervision of works</li> </ul> <p>Assistance during liability period</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of technical and financial proposal</li> </ul>

<b>Date:</b>	03/2010
<b>Location:</b>	Hashemite Kingdom of Jordan
<b>Company:</b>	GITEC Consult GmbH, Cologne
<b>Position:</b>	Senior Project Manager
<b>Description:</b>	<p>Reuse of treated wastewater for irrigation purposes the Northern Jordan Valley, Jordan, funded by KfW (German Development Bank):</p> <p>The objective is to ensure a cost-efficient and hygienically secure water supply of drinking water to the population and to selectively improve wastewater collection and reuse.</p> <ul style="list-style-type: none"> <li>- Preparation of Final Design and Tender documents</li> <li>- Assistance to in tendering and contracting</li> <li>- Site supervision of works</li> </ul> <p>Assistance during liability period</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of technical and financial proposal</li> </ul>

<b>Date:</b>	05/2009 – 12/2011
<b>Location:</b>	Lebanese Republic
<b>Company:</b>	GITEC Consult GmbH, Cologne
<b>Position:</b>	Team Leader/Project Manager
<b>Description:</b>	<p>Emergency Measures: Rehabilitation of water and wastewater systems in North Lebanon (PHASE III), funded by KfW (German Development Bank):</p> <ul style="list-style-type: none"> <li>- Preparation of design, technical specifications, bill of quantities and tender documents for 132 km secondary sewer systems</li> <li>- Preparation of design, technical specifications, bill of quantities and tender documents for 16 km of coastal main collector for sewage (partly pressurised) incl. pumping stations for wastewater</li> <li>- Preparation of tender documents for sucker trucks</li> <li>- Implementation of 100 km of secondary sewer systems</li> <li>- Implementation of 16 km of coastal main collector for sewage (partly pressurised) incl. pumping stations for wastewater</li> <li>- Capacity development for operation and maintenance of sewer networks</li> </ul> <p>Procurement of two sucker trucks</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of design, technical specifications, bill of quantities and contract documents</li> <li>- Preparation of complete tender documents</li> <li>- Execution of complete tender procedures</li> <li>- Contracting supplies and implementation measures</li> <li>- Supervision of supplies and works</li> <li>- Definition of indicators for monitoring and evaluation</li> <li>- Management of Disposition Fund</li> </ul>

<b>Date:</b>	01/2008 – 10/2016
<b>Location:</b>	Germany and abroad
<b>Company:</b>	Honorary Post: Engineers without Borders Germany
<b>Position:</b>	Chairman and Project Coordinator
<b>Description:</b>	<p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Strategic development of the organisation</li> <li>- Backstopping and coordination activities for all kind of projects</li> <li>- Development and teaching of different kind of workshops (Preparation of experts for projects abroad, project management in developing projects, sustainability and evaluation etc.)</li> <li>- Preparation of proposals for different funding agencies (BMZ, UNICEF, EuropeAid, etc.)</li> </ul>

<b>Date:</b>	02/2008 – 03/2009
<b>Location:</b>	Lebanese Republic
<b>Company:</b>	GITEC Consult GmbH, Cologne
<b>Position:</b>	Team Leader/Project Manager
<b>Description:</b>	<p>Emergency Measures: Rehabilitation of drinking water and sewerages systems in South Lebanon (PHASE II), funded by KfW (German Development Bank):</p> <ul style="list-style-type: none"> <li>- Implementation of 20 km of water supply (replacement of water pipes, rehabilitation and modernisation of pump stations, equip of pump stations with chlorination units)</li> <li>- Implementation of power supply (equip pump stations with public power supply and backup generators)</li> <li>- Implementation of 40 km of sewerage and drainage (storm water and sewer pipe supply and installation, sewer repair and construction)</li> <li>- Capacity development for operation and maintenance of sewer networks</li> </ul> <p>Procurement of maintenance equipment (workshop pick-ups, tools and equipment, PE pipes and welding machine)</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Identification of rehabilitation measures to be implemented during Phase II</li> <li>- Elaboration of design, technical specifications, bill of quantities and contract documents</li> <li>- Preparation of complete tender documents</li> <li>- Execution of complete tender procedures</li> <li>- Contracting supplies and implementation measures</li> <li>- Supervision of supplies and works</li> <li>- Definition of indicators for monitoring and evaluation</li> <li>- Management of Disposition Fund</li> </ul>

<b>Date:</b>	01/2008 – 12/2011
<b>Location:</b>	Germany
<b>Company:</b>	GITEC Consult GmbH, Cologne
<b>Position:</b>	Backstopper, Project Manager
<b>Description:</b>	<p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Backstopping and coordination activities for all kind of projects in the field of water and sanitation</li> <li>- Preparation of proposals for different investment and development banks (KfW, World Bank, EIB etc.)</li> </ul>

<b>Date:</b>	11/2010
<b>Location:</b>	South Sudan
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Technical Team Leader
<b>Description:</b>	Needs assessment and project proposal on behalf of German Foreign Office (Auswärtiges Amt) with regard to housing infrastructure for the UN peace keeping mission UNMIS

<b>Date:</b>	09/2002 – 11/2007
<b>Location:</b>	Germany
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Backstopper, Project Manager
<b>Description:</b>	<ul style="list-style-type: none"> <li>- Backstopping and coordination activities for all kind of projects (completely responsible for administration and operation of projects)</li> <li>- Preparation of proposals for different funds (KfW, German Foreign Office, BMZ, ECHO, different UN-organisations, etc.)</li> <li>- Development and teaching of different kind of workshops (Building of refugee camps, preparation of Head of Missions for projects abroad, preparation of engineers for projects abroad, project management in developing projects)</li> </ul>

<b>Date:</b>	04/2007 – 05/2007
<b>Location:</b>	Indonesia
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Project Manager
<b>Description:</b>	<ul style="list-style-type: none"> <li>- Project proposal: planning, acquisition, proposal/costs projection of water supply systems for 6,000 beneficiaries, 26 km of new water supply system (HDPE/PVC/steel) and public tapping in cooperation with PDAM (local water authorities), UN HABITAT and UNICEF</li> <li>- Evaluation of implemented water supply systems for 40,000 beneficiaries, 52 km new water supply system (HDPE, steel) and 80 public tapping stations in cooperation with PDAM, UN HABITAT and UNICEF, funded by ECHO</li> </ul>

<b>Date:</b>	01/2006 – 03/2007
<b>Location:</b>	Sierra Leone
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Project Manager
<b>Description:</b>	Planning, acquisition, proposal/costs projection as well as setup and operation/administration (incl. staffing, budget, tendering, reporting and evaluation) of technical training workshop (water supply, mechanics, electrics), funded by GTZ/KfW/German Federal Ministry for economic cooperation and development (BMZ)

<b>Date:</b>	08/2006 – 02/2007
<b>Location:</b>	Lebanese Republic
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Project Manager/Assessment Leader
<b>Description:</b>	<ul style="list-style-type: none"> <li>- Technical advisor of official fact-finding mission of German government's delegation of German Foreign Office</li> <li>- Planning, acquisition, proposal/costs projection, tendering and implementation of 30 chlorine dosing systems for 150,000 beneficiaries in cooperation with Southern Lebanon Water Establishment (SLWE), funded by German Federal Ministry for the Environment, Nature conservation and Nuclear Safety (BMU)</li> <li>- Planning, acquisition, proposal/costs projection, tendering and implementation of concrete water tanks for 14,000 beneficiaries in cooperation with Southern Lebanon Water Establishment (SLWE), funded by ECHO</li> <li>- Planning, acquisition, proposal/costs projection and operation of water analysis laboratory including training of local staff in cooperation with Southern Lebanon Water Establishment (SLWE), funded by UNICEF</li> <li>- Feasibility study about water supply systems in Southern Lebanon incl. acquisition, proposals/costs projection for 150,000 beneficiaries</li> <li>- Implementation of 8,000 house connections (40,000 beneficiaries) in cooperation with Southern Lebanon Water Establishment (SLWE), funded by German Foreign Office</li> </ul>

<b>Date:</b>	11/2006
<b>Location:</b>	Indonesia
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Project Manager
<b>Description:</b>	Fact finding mission for acquisition/implementation of new water supply systems incl. public tapping and acquisition of projects incl. proposals and costs projection in cooperation with PDAM (local water authorities) and UNICEF

<b>Date:</b>	06/2005
<b>Location:</b>	Sierra Leone
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Project Manager
<b>Description:</b>	Fact finding mission for setup and operation of a technical training workshop (water supply, mechanics, electrics) in cooperation with GTZ/KfW/ German Federal Ministry for economic cooperation and development (BMZ)

<b>Date:</b>	05/2005 – 03/2007
<b>Location:</b>	Liberia
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Project Manager/Backstopper
<b>Description:</b>	Planning, acquisition, proposal/costs projection as well as setup and operation/administration (incl. staffing, budget, tendering, reporting and evaluation) of generator workshop within UNMIL, funded by German Foreign Office

<b>Date:</b>	06/2004
<b>Location:</b>	Liberia
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Team Leader
<b>Description:</b>	<ul style="list-style-type: none"> <li>- Fact finding mission for projects within urban water supply of Monrovia (1,000,000 beneficiaries)</li> <li>- Water supply within UN peace keeping mission UNMIL</li> </ul>

<b>Date:</b>	12/2003 – 01/2004
<b>Location:</b>	Iran
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Project Manager
<b>Description:</b>	<ul style="list-style-type: none"> <li>- Assessment and implementation of search and rescue unit, mobile water purification plants incl. operation of water analysis laboratory and rehabilitation of water supply system after earthquake (150,000 beneficiaries), funded by German Foreign Office</li> <li>- Leader of fact finding mission for follow-up projects incl. elaboration of technical and financial proposal</li> </ul>

<b>Date:</b>	09/2003 – 11/2003
<b>Location:</b>	Iraq
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Technical Team Leader
<b>Description:</b>	Tendering for equipment of water- and wastewater laboratory, water treatment plant and water distribution system for the city of Baghdad (5,000,000 beneficiaries) in cooperation with local water authorities and German Foreign Office

<b>Date:</b>	05/2003 – 06/2003
<b>Location:</b>	Sri Lanka
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Team Leader
<b>Description:</b>	<ul style="list-style-type: none"> <li>- Technical leader of assessment and implementation of mobile water purification plants incl. operation of water analysis laboratory and rehabilitation of wells after floods (100,000 beneficiaries) in cooperation with SEWALANKA (local NGO) and German Foreign Office</li> <li>- Leader of evaluation for follow-up projects incl. elaboration of technical and financial proposal</li> </ul>

<b>Date:</b>	11/2002 – 12/2002
<b>Location:</b>	Spain
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Team Leader
<b>Description:</b>	Technical Leader of assessment and implementation of cleaning the environment after oil pollution in cooperation with German Foreign Office

<b>Date:</b>	09/2002 – 12/2005
<b>Location:</b>	Sierra Leone
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Project Manager/Backstopper
<b>Description:</b>	Operation/administration (incl. staffing, budget, tendering, reporting and evaluation) of generator workshop within UN peace keeping mission UNAMSIL in cooperation with German Foreign Office (intermittent assignment)

<b>Date:</b>	01/2003
<b>Location:</b>	Sierra Leone
<b>Company:</b>	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief)
<b>Position:</b>	Team Leader
<b>Description:</b>	Feasibility study for setup of water distribution in cooperation with UNHCR for a refugee camp/town for 16,000 beneficiaries

<b>Date:</b>	04/2002 – 08/2002
<b>Location:</b>	Germany
<b>Company:</b>	Freelancer
<b>Position:</b>	Project Manager
<b>Description:</b>	CORVETTE (EU-traffic project): <ul style="list-style-type: none"> <li>- Leader of the sub-project 'Cross-border Traffic Management Plans' with mainly operative tasks</li> <li>- Leader of the sub-project 'Traffic Management' with mainly administrative tasks</li> </ul>

<b>Date:</b>	10/2000 – 03/2002
<b>Location:</b>	Germany
<b>Company:</b>	Technical University of Munich, Department for Traffic Engineering
<b>Position:</b>	Project Manager
<b>Description:</b>	CORVETTE (EU-traffic project): <ul style="list-style-type: none"> <li>- Leader of the sub-project 'Cross-border Traffic Management Plans' with mainly operative tasks</li> <li>- Leader of the sub-project 'Traffic Management' with mainly administrative tasks</li> <li>- Supervision of masters projects</li> </ul>

<b>Date:</b>	11/1998 – 08/1999
<b>Location:</b>	Denmark
<b>Company:</b>	Technical University of Denmark
<b>Position:</b>	Post Graduate
<b>Description:</b>	Experimental Masters thesis in the field of biological wastewater treatment (in English language): Investigation of a control strategy supporting the denitrification and considering the biological phosphorus removal process (BPR) in times of disturbances of high loads of NH <sub>4</sub> -N. The experiments were carried out in an alternating pilot-plant, receiving municipal wastewater, which was operated with the BIODENIPHO process

<b>Date:</b>	11/1995 – 12/1998
<b>Location:</b>	Germany
<b>Company:</b>	Technical University of Munich, Faculty of Water- and Waste Disposal
<b>Position:</b>	Scientific Assistant
<b>Description:</b>	Supervision of wastewater treatment plants incl. evaluation of results and recommendations for treatment improvement