

## CURRICULUM VITAE

1. **Family name:** KNOCHE
2. **First names:** Ralf
3. **Date of birth:** 29 November 1971
4. **Citizenship:** German
5. **Place of residence:** Germany
6. **Education:**

Institution (Date from - Date to)	Degree(s) or Diploma(s) obtained:
Technical University of Munich/ Germany (11/1992 to 02/2000)	Civil Engineer (Dipl.-Ing. (univ.)) equivalent to Masters of Science
Technical University of Budapest/ Hungary (05/1995 to 07/1995)	Internship
Technical University of Denmark (11/1998 to 08/1999)	Post Graduate

7. **Language skills:** Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
German	Mother Tongue		
English	1	1	1
Spanish	3	3	3
French	3	3	3

8. **Membership of professional bodies:** DWA (German Water Association)
9. **Other skills:**  
Capacity Works, FIDIC, VOL, VOB (German rules for award of works and construction contract procedures) 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 planning, design construction supervision and evaluation 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.

**Curriculum vitae of Ralf Knoche**

**13. Specific experience in the region:**

Country	Date from - Date to
Bangladesh	01/2015 – 01/2016
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
Lebanese Republic	08/2006 – 02/2007, 02/2008 – 12/2011, 02/2012 – 03/2012, 08/2012
Liberia	06/2004, 05/2005 – 03/2007
North Macedonia	10/2018
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

14. Professional experience

Date from - to	Location	Company  Reference person (name and address)	Position  < - Entity to which the services are delivered (company, government agency, the contracting authority)	Description
01/2012 – on-going	Germany and abroad	Freelancer	Expert Consultant Emergency Response and WASH	<ul style="list-style-type: none"> <li>- Team Leader Assessment, Project Manager and Senior Expert in WASH/ infrastructural measures in humanitarian relief for fact finding missions, project proposals (KfW, ADB, AA, BMZ, ECHO, Europeaid, UNICEF, UNHCR etc.), realisation/monitoring of projects, capacity development, evaluation and backstopping</li> <li>- <u>Emergency Relief</u>: Development and realisation of emergency programmes in the following areas: water, wastewater, shelter, traffic routes, flooding, electrical energy, logistics</li> <li>- <u>Transition aid</u>: Development and realisation of rehabilitation programmes in the following areas: water, wastewater, shelter, traffic infrastructure, flooding, electrical energy, logistics</li> <li>- <u>Development cooperation</u>: Construction and management in the following areas: Urban and rural water supply, wastewater discharge, wastewater treatment, shelter and transport</li> </ul>
01/2012 – on-going	Germany and abroad	Freelancer	WASH Expert, Lecturer	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.

### Curriculum vitae of Ralf Knoche

08/2014 – on-going (on request)	Germany and abroad	Freelancer: Johanniter International Assistance: Expert Advisor Dr. Oliver Hoffmann, Lützowstraße 94, 10785 Berlin, Germany	Expert Consultant WASH	<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>- Technical advice during planning, implementation and evaluation (DAC) of projects in the field of WASH</li> <li>- Support during elaboration of project proposals</li> <li>- Support of quality intensification of projects in the field of WASH</li> <li>- Development of guidance notes in the field of WASH under consideration of relevant international standards</li> <li>- Realisation of in-house training in the field of WASH</li> <li>- Internal revisions and evaluations of WASH-related projects (DAC criteria)</li> </ul>
01/2019 – on going	Germany and Ukraine	Freelancer: German Development Bank (KfW): Technical Advisor Dieter Jakob, Palmengarten- straße 5 – 9, 60325 Frankfurt	Tender Agent	<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> </ul> <p>Conduct in the event of objections and complaints</p>

### Curriculum vitae of Ralf Knoche

06/2018 – on going	Germany and North Macedonia	Freelancer: German Development Bank (KfW): Technical Advisor Dieter Jakob, Palmengartenstraße 5 – 9, 60325 Frankfurt	Tender Agent	<p>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:</p> <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> <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> </ul> <p>Conduct in the event of objections and complaints</p>
02/2018 – on-going	Germany and Uganda	Freelancer: BORDA Ltd.: Managing Director Andreas Schmidt, Am Deich 45, 28199 Bremen	Senior Consultant and Backstopping	<p>BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas: 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 (sludge stabilisation reactor, drying beds, leachate treatment)</li> <li>- Elaboration of tender documents</li> <li>- Elaboration of operation and management plans</li> <li>- Project administration</li> <li>- Backstopping</li> </ul>

### Curriculum vitae of Ralf Knoche

12/2018 to 02/2019	Germany	Freelancer: IMS Ingenieure: General Manager: Stefan Meschke, Am Kranen, 96047 Bamberg	Senior Consultant	<p>Rural Development Programme, Myanmar, funded by KfW (German Development Bank): The programme focused on the:</p> <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> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Elaboration of documents for Invitation to prequalification</li> <li>- Evaluation of prequalification documents</li> </ul> <p>Elaboration of evaluation report for prequalification</p>
11/2018 – 12/2018	Somalia	Freelancer: Caritas Switzerland: Programme Director Somalia/Somalil and Olivia Mathys, Adligenswiler- strasse 15, 6002 Lucerne	WASH Expert	<p>Caritas Switzerland prevents, combats and alleviates poverty worldwide in more than 30 countries. With its projects it works in the areas of food security, water, climate protection, disaster prevention and migration as well as education for children and adults. It provides emergency relief in disasters and is actively involved in reconstruction work.</p> <p>Caritas has been active in Somaliland since 1995 supporting projects in different sectors including Water, Sanitation and Hygiene (WASH), food security, skills training, Non-Formal Education for women, school construction and human rights.</p> <p><u>Scope of works:</u></p> <ul style="list-style-type: none"> <li>- Training of Trainers: Needs assessment, preparing training incl. material and conducting the training</li> <li>- Recommendation for operation &amp; maintenance of WASH components in health centres in Berbera region</li> <li>- WASH assessment in ten health centres and four communities</li> </ul> <p>Elaboration of project options for health centres and communities incl. activities, budget estimation, personnel resources and operation &amp; maintenance recommendations</p>

### Curriculum vitae of Ralf Knoche

05/2018 to 12/2018	Germany	Freelancer: IMS Ingenieure: General Manager: Stefan Meschke, Am Kranen, 96047 Bamberg	Senior Consultant	<p>Municipal Infrastructure Programme MIP V, Feasibility Study and Project Implementation for three cities, Albania, funded by KfW (German Development Bank)</p> <p>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> </ul> <p>Elaboration of evaluation report for ESIA</p>
05/2018 to 09/2018	Germany	Freelancer: IMS Ingenieure: General Manager: Stefan Meschke, Am Kranen, 96047 Bamberg	Senior Consultant	<p>Water Supply and Wastewater Programme VI, in Medium-Sized Municipalities, Serbia, funded by KfW (German Development Bank):</p> <p>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> </ul> <p>Elaboration of evaluation report for prequalification</p>
06/2015 – 06/2018	Germany and abroad	Freelancer: BORDA Ltd., Director Andreas Schmidt, Am Deich 45, 28199 Bremen, Germany	Senior Consultant	<p>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 of consultancy services.</p>

### Curriculum vitae of Ralf Knoche

08/2017 to 03/2018	Germany	Freelancer: IMS Ingenieure: General Manager: Stefan Meschke, Am Kranen, 96047 Bamberg	Senior Consultant	<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> </ul> <p>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.)</p>
10/2017 – 12/2017	Germany and Uganda	Freelancer: Malteser International, Head of Regional Group Africa Roland Hansen, Grüner Weg 12 -14, 50825 Cologne, Germany	Evaluator	<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 evaluation of results in dependence on OECD-DAC criteria</li> </ul>



### Curriculum vitae of Ralf Knoche

05/2017 – 12/2017	Georgia	Freelancer: IMS Ingenieure: General Manager: Stefan Meschke, Am Kranen, 96047 Bamberg	Senior Consultant	<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> <li>- 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.</li> </ul> <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>
11/2016 – 08/2017	Germany and Uganda	Freelancer: BORDA Ltd., Director Andreas Schmidt, Am Deich 45, 28199 Bremen, Germany	Senior Consultant and Backstopping	<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>

### Curriculum vitae of Ralf Knoche

10/2016 – 07/2017	Germany and Cambodia	Freelancer: BORDA Ltd., Director Andreas Schmidt, Am Deich 45, 28199 Bremen, Germany	Senior Consultant and Backstopping	BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas: Investment Action Plan for wastewater treatment in peri-urban areas of Phnom Penh, funded by Global Green Growth Institute (GGGI) <u>Scope of works:</u> - Elaboration of technical and financial proposal - Pre-Feasibility study and implementation plan of wastewater treatment plants (DEWATS) - Project administration - Backstopping
01/2008 – 10/2016	Germany and abroad	Honorary Post: Engineers without Borders Germany: Managing Director Andreas Feldmann, Greifswalder Straße 4, 10405 Berlin, Germany	Chairman and Project Coordinator	<u>Scope of works:</u> - Strategic development of the organisation - Backstopping and coordination activities for all kind of projects - Evaluation of all kind of projects (DAC criteria) - Development and teaching of different kind of workshops (preparation of experts for projects abroad, project management in developing projects, sustainability and evaluation etc.) - Preparation of proposals for different funding agencies (BMZ, UNICEF, Europeaid, etc.)
06/2016	Greece	Freelancer: CARE Germany-Luxemburg: Head of Emergencies Wolfgang Tyderle, Dreizehnmorgenweg 6, 53175 Bonn, Germany	Technical Advisor WASH, Assessment	CARE Germany-Luxemburg is carrying out projects in almost 40 countries, mainly in the field of humanitarian assistance. <u>Scope of works:</u> - In depth analysis/assessment on the WASH situation in pre-selected formal and informal camps in Greece - Link in with existing WASH cluster and relevant authorities in Thessaloniki - Elaboration of recommendations for WASH in Emergencies activities in visited sites, with the specific inclusion of gender- sensitive and/or gender –transformative activities - Assessment of local partner’s capacity of WASH understanding and ability in programme design and implementation and recommendations for capacity building - Provision of recommendations for WASH interventions and approach and refinement of existing response strategy on the WASH component - Provision of specific recommendations on WASH interventions to be used in ECHO-Proposal

### Curriculum vitae of Ralf Knoche

03/2016	Iraq	Freelancer: Johanniter International Assistance: Desk Officer Anette Müller, Lützowstraße 94, 10785 Berlin, Germany	Technical Advisor WASH, Assessment	<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>
01/2016 – 03/2016	Germany	Freelancer: German WASH Network (GWN): Johannes Rück, Juliusstraße 41, 12051 Berlin, Germany	Senior Consultant	<p>GWN was founded by German non-governmental organisations in 2011. The members are German non-profit organisations, which focus on development cooperation 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>
11/2015 – 02/2016	Germany	Freelancer: BORDA e.V., General Director Stefan Reuter, Am Deich 45, 28199 Bremen, Germany	Expert Advisor WASH	<p>BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas:</p> <p>Main task is the development and teaching of a basic and advanced workshop in the field of “off-site sanitation”.</p>
01/2015 – 01/2016	Germany and Bangladesh	Freelancer: BORDA Ltd., Director Andreas Schmidt, Am Deich 45, 28199 Bremen, Germany	Programme Manager and Backstopping	<p>BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas:</p> <p>Main task is the Project Management and backstopping of feasibility study “Sanitation Action Plan and Technology Demonstration(s) for 30 Pourashavas“, funded by Asian Development Bank (ADB).</p>

### Curriculum vitae of Ralf Knoche

09/2014 – 04/2015	Germany and Iraq, Autonomous Region of Kurdistan	Freelancer: BORDA e.V., General Director Stefan Reuter, Am Deich 45, 28199 Bremen, Germany	Programme Manager and Backstopping	BORDA is carrying out projects in 25 countries, mainly in the field of sanitation and biogas. <u>Scope of works:</u> - Project Management 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
02/2014	Hashemite Kingdom of Jordan	Freelancer: Johanniter International Assistance: Project Manager Julia Noel, Lützowstraße 94, 10785 Berlin, Germany	Consultant for WASH and Shelter	<u>Scope of works:</u> - Evaluation of completed projects: Definition of quality standards, visit of shelters, cost comparison and development of evaluation tool (DAC criteria) - Assessment for follow-up projects: Check of existing documents and comparison of requirements of donor, development of assessment tool, technical assessment - Consultancy: Conclusion and comparison of different technical specifications applied, development and realisation of workshop, concept for follow-up projects under consideration of lessons learned
08/2013 – 09/2013	Hashemite Kingdom of Jordan	Freelancer: Technisches Hilfswerk (THW, German Federal Agency for Technical Relief) on behalf of UNICEF/ UNHCR: Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Technical Team Leader	<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 a sewage collection systems in existing refugee camp in Za'atary

**Curriculum vitae of Ralf Knoche**

06/2012 – 08/2013	Germany	Freelancer: WE-Consult Ltd.: Managing Director Hans-Joachim Werner, Mintropstraße 10, 40215 Duesseldorf, Germany	Site Supervisor	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
08/2012	Lebanese Republic/ Germany	Freelancer: Technisches Hilfswerk (THW, German Federal Agency for Technical Relief) on behalf of the German Foreign Office (Auswärtiges Amt, Stab Humanitäre Hilfe): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Team Leader	<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

**Curriculum vitae of Ralf Knoche**

02/2012 – 03/2012	Lebanese Republic/ Germany	Freelancer: Technisches Hilfswerk (THW, German Federal Agency for Technical Relief) on behalf of the German Foreign Office (Auswärtiges Amt, Stab Humanitäre Hilfe): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Team Leader	Needs assessment for all German humanitarian organisations with regard to the Syrian refugee situation in the Lebanese Republic
11/2010	South Sudan	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Technical Team Leader	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

### Curriculum vitae of Ralf Knoche

01/2008 – 12/2011	Germany	GITEC Consult GmbH: Department Manager Dr. Wolfgang Jendrischewski, Carlswerkstraße 13d, 51063 Cologne, Germany	Backstopper, Project Manager	<u>Scope of works:</u> <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>
05/2009 – 12/2011	Lebanese Republic	GITEC Consult GmbH: Department Manager Dr. Wolfgang Jendrischewski, Carlswerkstraße 13d, 51063 Cologne, Germany	Team Leader/Project Manager	<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>- Procurement of two sucker trucks</li> </ul> <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>

### Curriculum vitae of Ralf Knoche

02/2008 – 03/2009	Lebanese Republic	GITEC Consult GmbH: Department Manager Dr. Wolfgang Jendrischewski, Carlswerkstraße 13d, 51063 Cologne, Germany	Team Leader/Project Manager	<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> </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>
09/2002 – 11/2007	Germany	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Backstopper, Project Manager	<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> <li>- Evaluations of projects mainly in the field of emergency relief (criteria of donors, DAC criteria etc.)</li> </ul>



### Curriculum vitae of Ralf Knoche

04/2007 – 05/2007	Indonesia	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Project Manager	<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>
01/2006 – 03/2007	Sierra Leone	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Project Manager	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)

### Curriculum vitae of Ralf Knoche

08/2006 – 02/2007	Lebanese Republic	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Project Manager/ Assessment Leader	<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>- Responsible for implementation of 8,000 house connections (40,000 beneficiaries) in cooperation with Southern Lebanon Water Establishment (SLWE), funded by German Foreign Office</li> <li>- Interim evaluations of implemented projects</li> </ul>
11/2006	Indonesia	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Project Manager	Feasibility study about 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

### Curriculum vitae of Ralf Knoche

06/2005	Sierra Leone	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Project Manager	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)
05/2005 – 03/2007	Liberia	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Project Manager/ Backstopper	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
06/2004	Liberia	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Team Leader	<ul style="list-style-type: none"> <li>- Feasibility study for projects within urban water supply of Monrovia (1,000,000 beneficiaries)</li> <li>- Water supply within UN peace keeping mission UNMIL</li> </ul>

### Curriculum vitae of Ralf Knoche

12/2003 – 01/2004	Iran	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Project Manager	<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</li> </ul>
09/2003 – 11/2003	Iraq	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Technical Team Leader	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, funded by German Foreign Office
05/2003 – 06/2003	Sri Lanka	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Team Leader	<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), funded by German Foreign Office</li> <li>- Leader of fact-finding mission for follow-up projects incl. elaboration of technical and financial proposal</li> <li>- Interim evaluation of projects</li> </ul>

### Curriculum vitae of Ralf Knoche

11/2002 – 12/2002	Spain	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Team Leader	Technical Leader of assessment and implementation of cleaning the environment after oil pollution in cooperation with German Foreign Office
09/2002 – 12/2005	Sierra Leone	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Project Manager/ Backstopper	Operation/administration (incl. staffing, budget, tendering, reporting and evaluation) of generator workshop within UN peace keeping mission UNAMSIL, funded by German Foreign Office (intermittent assignment)
01/2003	Sierra Leone	Technisches Hilfswerk (THW, German Federal Agency for Technical Relief): Head of Division Klaus Buchmueller, Provinzialstraße 93, 53127 Bonn, Germany	Team Leader	Feasibility study for setup of water distribution in cooperation with UNHCR for a refugee camp/town for 16,000 beneficiaries

### Curriculum vitae of Ralf Knoche

04/2002 – 08/2002	Germany	Freelancer: Transfer GmbH: Univ.-Prof. Dr./UCB Hart- mut Keller, Ma- ximilianstraße 45, 80538 Mu- nich, Germany	Project Manager	CORVETTE (EU-traffic project): - Leader of the sub-project 'Cross-border Traffic Management Plans' with mainly operative tasks - Leader of the sub-project 'Traffic Management' with mainly administrative tasks
10/2000 – 03/2002	Germany	Technical Uni- versity of Mu- nich, Depart- ment for Traffic Engineering: Univ.-Prof. Dr./UCB Hart- mut Keller, Ma- ximilianstraße 45, 80538 Mu- nich, Germany	Project Manager	CORVETTE (EU-traffic project): - Leader of the sub-project 'Cross-border Traffic Management Plans' with mainly operative tasks - Leader of the sub-project 'Traffic Management' with mainly administrative tasks - Supervision of masters projects
11/1998 – 08/1999	Denmark	Technical Uni- versity of Den- mark: Prof. Dr.- Ing. Dr.h.c. Pe- ter A. Wilderer, Am Coulomb- wall, 85748 Garching, Ger- many	Post Graduate	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

### Curriculum vitae of Ralf Knoche

11/1995 – 12/1998	Germany	Technical University of Munich, Faculty of Water- and Waste Disposal: Prof. Dr.-Ing. Dr.h.c. Peter A. Wilderer, Am Coulombwall, 85748 Garching, Germany	Scientific Assistant	Supervision of wastewater treatment plants incl. evaluation of results and recommendations for treatment improvement
-------------------	---------	---	----------------------	--

**15. Other relevant information (e.g. Publications):**

- September 2013: TV documentation (FOCUS TV, Sat 1, German Television) about the setup of water supply and sanitation at refugee camps in Jordan
- March 2016: Interview with German radio station "Funkhaus Europa" on the occasion of "UN World Water Day"