



Nationality: Indian

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Education

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| 2009 | Certificate course in Environmental Impact Assessment
(e-learning mode), Centre for Environmental Planning and Technology,
Ahmedabad,, India |
| 1996-1998 | Post Graduate Diploma in Environmental Management
Indian Institute of Social Welfare and Business Management (IISWBM)
Kolkata, India |
| 1993-1996 | Bachelors in Science (Environmental Science)
St. Joseph's Arts and Science College, Bangalore, India |
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Employment History

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| 2012- | Director, Knowledge Management, Training and R&D
At Consortium for DEWATS Dissemination (CDD) Society <ul style="list-style-type: none">▪ Guide and coordinate activities of the Organisation and in particular the three units – Knowledge Management, Training and R&D to ensure sustainability and growth of the Organisation |
| 2011- | Consultant, Water and Sanitation Programme- World Bank <ul style="list-style-type: none">▪ Technical consultant for Septage Management for state of Kerala |
| 2009-2011 | Unit Coordinator, Capacity Building
At Consortium for DEWATS Dissemination (CDD) Society <ul style="list-style-type: none">▪ Conducted and guided a research on performance analysis of DEWATS unit. The results of the study was presented at the IWA Conference at Manila, Philippines (<i>Performance Analysis of Full-scale Decentralised Wastewater Treatment Systems in India</i>) in May 2011▪ Provided intellectual leadership, management and strategic guidance for the Organisation's shift to Capacity Building Programme in South Asia▪ Conducted training programmes, that have provided technical knowledge and practical skills to around 180 professionals out of which at least 25% have designed and implemented decentralised sanitation projects on their own |
| 2007-2008 | Team Leader, Research & Development and Training |

At Consortium for DEWATS Dissemination (CDD) Society

- Conducted a baseline study on sludge management in Bangalore that identifies the opportunities and possible solutions for sludge management
- Carried out a field study on the design, implementation and management of a septage (sludge from household septic tanks) management system at Mojokerto, Indonesia.
- Developed an in-depth report on Performance Analysis of DEWATS units from 5 different sectors and report on advantages and risks involved with reuse of treated effluent from DEWATS
- Conceived and developed the structure for training modules development based on standard operating procedures for quality assurance for the various services. This was followed by development of training modules related to soft skills and technical knowledge
- Conducted trainings for partner network members from southern Africa, Indonesia, Cambodia, Philippines, Vietnam and Laos on project management and community based sanitation implementation

2006-2007 **Consultant – Project Management**

At Bremen Overseas Research and Development Association, Lesotho

- Initiated a study on methods of sludge collection from household septic tanks. At present plans and designs are being done to initiate a sludge management project in the region
- Successful start up of activities in a new region and setting up of the partner network from 6 countries
- Initiating 3 DEWATS projects within 6 months

2003-2006 **Environmental Engineer**

At Consortium for DEWATS Dissemination (CDD) Society

- Successfully implemented four Community Based Sanitation Projects for a population of around 2500
- A 6 month in-depth performance analysis of DEWATS at Aravind Eye Hospital, Pondicherry that resulted in improved and optimised design
- Launch and regular publishing of organisation's newsletter *e-Disha* and the BORDA South Asia homepage

2002-2003 **Partner and Project Manager**

At AwenGaia Environmental Consultants Pvt. Ltd.

- Conceptualising the Company's business plan, administration and management as well as staff plan and its implementation
- Developing waste management plan for residential school and holiday resort
- Conducting environmental awareness and education programmes for a primary school
- Research on Lead in Household Paints in India as a team member in the research conducted by University of Cincinnati, Department of Environmental Health.

2000-2002 **Project Assistant**

At Centre for Environment Education, Media for Sustainable Development Unit

- Conducting online debates (*Envirodebate*) on topics related to Joint Forest Management, Biodiversity Conservation, and other environmental issues
- Publishing various articles in the news feeder service - CEE-NFS

1999-2000 Project Assistant

At Environmental Causes Organisation Pvt. Ltd.

- Establishing an Environmental Management Plan for a granite quarry
 - Assist a public sector company in preparing their Environmental Statement as part of the ISO 14000 Environment Audit requirement
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Work Experience

2003- At CDD Society

- Working with a network of 23 organisations and a team of 40 professional and administrative staff, guiding a Capacity Building team of 4 members
- Apart from the administration and management of the Capacity Building Unit, also guiding professionals from the Technical and R&D unit as well as the partner network members especially on subjects related to technical knowledge
- Conducting regular performance analysis of DEWATS units and applied research to assess efficiency and to improve and optimise its performance
- Conducting feasibility for implementation and design of Community Based Sanitation and Decentralised Wastewater Treatment Systems and construction supervision
- Conducted a field study of the septage management facility in Indonesia to assess the feasibility of setting up similar units in India and Africa. Also conducted a baseline study on sludge management in Bangalore as a preliminary step of assessing scope of implementation of sludge management facilities in Bangalore
- Contribute regularly to the coordination and strategic guidance for the management of the Organisation and its partners which also involves their performance assessment with regard to the Organisation's goal and objective
- Part of the Organisation's Interview panel for selection of professional and administration staff
- A technical trainer for Design and implementation of DEWATS in India, Lesotho and Nepal, CBS-DEWATS Project Management, Operation and Maintenance of DEWATS, Community Based Sustainable Sanitation and other trainings conducted by the Organisation
- Mentoring at least 5-6 Weltwaerts volunteers from Germany every year since 2008 in their work and also to help them get used to social and work culture in India
- Maintaining up-to-date knowledge on sector developments and sharing this with staff and partners and other stakeholders through regular up-dation of training modules, articles on Organisation's web page and newsletter as well as publishing and presenting papers at sector relevant fora
- Coordinating working group discussions of the BORDA international Partner Network on R&D and Knowledge management comprising of 20-25 members

- Initiated the Organisation's electronic newsletter *e-Disha* and worked on its design, content development and publishing 6 issues every year till 2009
- Responsible for the content development of the BORDA South Asia Homepage and its regular up-dation

2006-2007 At BORDA, Lesotho

- Knowledge transfer to local NGO in Lesotho and other partner organisations from 6 countries in southern Africa for Community Based Sanitation linked to Decentralised Wastewater Treatment Systems, specifically with systems for project implementation, monitoring and evaluation and Capacity Building
- Setting up management structures for efficient and effective administration and management of the Partner network

2002-2003 At AwenGaia Environmental Consultants Pvt. Ltd.

- Business development to cover an investment of 25 lakhs
- Building the implementation team comprising of 4 professional staff and administration staff as well as the coordination of their activities
- Project structuring and development
- Client interactions and development
- Contributing to project implementation.

2000-2002 At Centre for Environment Education

- Writing articles on various environment and science topics for the CEE-News Feeder Service (CEE-NFS). Articles published in local newspapers during the Rio Summit
- Developed content for an online course on Environment and Development
- Coordinate online debate on environmental issues like Joint Forest Management, Ecotourism and Biodiversity conservation

1999-2000 At Environmental Causes Organisation Pvt. Ltd.

- Developed Environmental Management Plans for quarry industries in Karnataka for the State Mines and Geology Department
- Assist public and private sector industries to establish ISO 14000 requirements

Project during Certificate course on EIA

2009 EIA for a DEWATS unit at an institutional set up
Conducted an impact assessment study of a decentralised wastewater treatment system for an institutional set up with a focus on sustainability of a wastewater treatment system through resource recovery and management. The study helped establish that a DEWATS in an institutional set-up can effectively demonstrate a closed-loop approach to wastewater management providing a long term solution to the sewage disposal needs of the institution in addition to providing resource recovery opportunities (nutrients in the treated effluent that can be utilised as fertiliser, biogas as fuel for cooking and also sludge as a fertiliser). With proper maintenance and environmental monitoring the facility is not expected to have any adverse effects on the terrestrial or on the surrounding communities. This

can help other clients and decision makers in selecting this technical approach for on-site wastewater treatment.

Work related training

- 2011: Training on **Participatory Impact Monitoring**
University/Organisation: Karl Kübel Institute for Development Education, Coimbatore, India
- 2008: **Training of trainers** on how to Design, deliver and evaluate trainings
University/Organisation: Sambodhi Research & Communications Pvt. Ltd (www.sambodhi.co.in)
- 2008: **Experiential field based training on Solid Waste Management**
University/Organisation: TARA Livelihood Academy, Development Alternatives
- 2004: Online e-learning course on **Decentralised Wastewater Treatment Systems (DEWATS)**
University/Organisation: InWENT-Global Campus (www.gc21.de)
- 2003: **Use of field portable X-ray fluorescence (XRF) Analysers** (Niton Inc., USA) for the environmental monitoring of heavy metals and other elements
University/Organisation: University of Cincinnati, Prof. Scott Clark
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Publications

1. Kraemer P. Sinha. S, *Capacity Building - A Tool for Up-scaling Decentralised Sanitation Infrastructure Provision*, IWA journal of Water Practice and Technology (Volume 4, Issue 5)
 2. Kazaglis A., Sinha S, *Biogas and DEWATS, a perfect match?* PDF <http://unapcaem.org/Activities%20Files/A01/BIOGAS%20and%20DEWATS,%20a%20perfect%20match.pdf>, 2005
 3. *Lead in paint and soil in Karnataka and Gujarat, India*, January 2005, Journal of Occupational and Environmental hygiene.
 4. Sinha S, Kuruvilla A et al., *Use of a field portable X-ray fluorescence analyzer in an investigation of the sources of lead in the environments of school children with elevated blood lead levels in Mangalore, India*, 2004, Indian Journal of Pediatrics
 5. Features published at Sustainable Development Networking Program, India, SDNP, New Delhi website. sdnp.delhi.nic.in/resources/pollution/lead1.html.
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