



India-EU Workshop on Water Technology Research and Innovation Collaboration (WTRIC 2010)

Workshop Programme and Profiles

Date: 9 - 10 November, 2010

Venue: Indian Institute of Science, Bangalore

Jointly Organised by:

**Research Directorate of European Commission,
Department of Science and Technology, Government of India
Karnataka State Council for Science and Technology
Department of Civil Engineering, Indian Institute of Science**

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9-10 November, 2010

Indian Institute of Science, Bangalore

BACKGROUND OF THE WORKSHOP

The meeting of Sixth India-EU S&T Steering Committee was held at CSIR Science Centre, New Delhi under the Co-Chairmanship of Dr. T. Ramasami, Secretary, DST, Government of India and Dr. Jose Manuel Silva Rodriguez Director General Research of European Commission (EC) on 10th March, 2010.

During the meeting, Indian side (Dr. Laxman Prasad) presented the challenges being pursued under the on-going DST coordinated "Technology Mission on Water: Winning, Augmentation and Renovation : WAR for Water" (**A**lternate sources of increasing water supply; **D**ecentralized waste water management technology options; **E**fficient use of water in agriculture ; **R**iver bank filtering techniques to recharge water table; **M**onitoring water quality; **C**apturing water from sea and prevention of salinity due to sea water intrusion; **H**ybrid energy-water related systems; **E**fficient water extraction technology; **C**ity water distribution network monitoring ; **K**itchen waste handling at source;**R**educing evaporation losses from water reservoirs; **M**anage flood water)

EC side (Dr. Mary Minch) presented the new European partnership for S&T cooperation involving the EU Member States and the European Commission to reinforce European Research Area and to pursue activities with strategic international partners in a more coherent way by pooling knowledge and resources. This initiative is known as "Strategic Forum for International Cooperation in Science and Technology (SFIC)". SFIC proposes to engage India as the first partner country and initiate the SFIC-India Pilot Initiative during 2010-11, focused on water related challenges.

The Meeting agreed for holding an "India-EU Thematic Workshop on Research, Technology and Innovation Partnerships in Water " in Nov/Dec.2010 (Workshop Coordinators: Sri Sanjay Bajpai & Dr.Andrea Tilche) to be followed by a targeted co-funded 2011 India-EU Coordinated (Joint) Call on the common identified topic.

As a follow up of above decision taken in the Sixth meeting of India-European Commission Science & Technology Steering Committee, extensive consultations were held between Directorate of Research, European Commission and Department of Science & Technology on potential EU-India research on Water

Technologies to structure the proposed workshop. As a result of these discussions, following potential areas of mutual interest were identified:

- i) Water purification and associated issues
- ii) Urban water management (including storm water)
- iii) Water reclamation and reuse
- iv) Efficient use of water in irrigation

In addition to above four major areas, Sustainable water use in industry, Innovative use of traditional water supply & sanitation technologies and Water resources & Climate Change adaptation have also been included for discussions.

The workshop is likely to be attended by 23 scientists from European Commission representing 14 EU Member States having expertise in drinking water treatment, water recycling/ reuse and sustainable water management. 8 speakers representing various Member States of European Union would make presentations on R&D activities and share their experiences on innovative technologies and strategies for sustainable water management. The topics include Integrated Urban Water Management, Drinking Water Technologies including reject management, Water reclamation & reuse, Sustainable water use in industry, Aquifer recharge, Traditional water supply & sanitation technologies, Water resources & climate change adaptation and water management in agriculture.

In view of identified areas for discussions, 7 lead speakers from India have been identified for making brief presentations on water availability & its management, water purification, urban & storm water management, water reclamation & reuse and efficient use of water in irrigation. A list of more than 80 Indian participants have been drawn having complementary expertise to European researchers in the areas of water management, drinking water purification, water reclamation & reuse and water use efficiency in irrigation. Additionally, 7 Indian researchers already working in EU projects have also been invited. 7 line departments/agencies namely Ministry of Water Resources, Department of Drinking Water and Sanitation (DDWS), Ministry of Urban Development, Ministry of Earth Sciences, Ministry of Health and Family Welfare, Central Ground Water Development Board etc. would also joint the discussions.

The workshop has been structured to focus more on interaction and discussions. The outcome of the workshop would be a identification of areas and research priorities for collaborative research in identified areas relevant to Water Technology, Research and Innovation. The technical coordinators of this workshop are Dr. Andrea Tilche and Dr. Panagiotis Balabanis from European Commission and Sanjay Bajpai and Sadhana Relia from India.

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सत्यमेव जयते



**India-EU Workshop
on
Water Technology Research and
Innovation Collaboration
(WTRIC 2010)**



9-10 November, 2010 Bangalore, India



Jointly Organized by:
**Research Directorate of European Commission
Department of Science and Technology, Government of India
Karnataka State Council for Science and Technology
Department of Civil Engineering, Indian Institute of Science**

PROGRAMME

Day 1 **Date** : 9 November, 2010

Venue : Satish Dhawan Auditorium, Indian Institute of Science

Inaugural Session

Time: 9:00 am – 9:15 am

09:00 am – 09:05 am : Welcome
Prof. M. S. Mohan Kumar
Secretary, Karnataka State Council for Science & Technology

09:05 am – 09:10 am : Opening Remarks
Prof. C. S. Manohar
Chairman, Department of Civil Engineering,
Indian Institute of Science

09:10 am – 09:15 am : Objectives of the Workshop
Dr. Sadhana Relia
Advisor / Scientist 'G'
Department of Science and Technology, Government of India

Theme: Current Research Challenges and Research Drivers

Chair : Prof. B. N. Raghunandan
Divisional Chairman,
Earth and Environmental Sciences
Indian Institute of Science, Bangalore

Time	Topic	Speakers
09:15 am – 09:30 am	Background : Water Research in India	Prof. Rajendra Prasad Andhra University, Visakhapatnam, A.P
09:30 am – 09:45 am	Background : Water Research in European Union (EU)	Dr. Andrea Tilche European Commission Belgium

Tea break

Time: 09:45 am – 10:15 am

Part I : Experiences and Lessons learnt on innovative technologies and strategies for sustainable water management (EU perspective)

Chair : Dr. Panagiotis Balabanis
European Commission, EU, Belgium

*The objective of this sub-session is to present major ongoing and recently finished projects funded from EU and their contributions to provide solutions to major water problems. Format for the above sub sessions: speakers give a brief **overview** as indicated and take questions. Speaker time will be kept **short** (10 mins) and **debate encouraged**.*

Time	Topic	Speakers
10:15 am – 10:30 am	Integrated Urban Water Management	Prof. Robert Brian Shutes Middlesex University, United Kingdom
10:30 am – 10:45 am	Drinking Water Technologies including Reject Management	Dr. Theo van den Hoven KWR Watercycle Research Institute, Netherland
10:45 am – 11:00 am	Water Reclamation and Reuse	Prof. Ing. Thomas Wintgens University of Applied Sciences Northwestern Switzerland
11:00 am – 11:15 am	Sustainable Water use in Industry	Dr. Albert Jansen TNO, Netherland
11:15 am – 11:30 am	Managed Aquifer Recharge	Prof. Thomas Grischek University of Applied Sciences Dresden, Germany
11:30 am – 11:45 am	Innovative use of Traditional Water Supply and Sanitation Technologies	Prof. Dino Borri Technical University of Bari, Italy
11:45 am – 12 noon	Climate Change Adaptation of Urban Water Infrastructure with emphasis on Urban Flooding	Dr. Anders Lynggaard –Jensen DHI Water & Environment, Denmark
12 noon– 12.15 pm	Water Management in Agriculture	Dr. Enrique Playán CSIC, Spain

Lunch Break**Time:12:15 pm– 1:30 pm**

Part II : Experiences and lessons learnt on innovative technologies and strategies for sustainable water management (Indian perspective)

*The objective of this sub- session is to present major ongoing and recently finished projects implemented by Indian Researchers and their contributions to provide solutions to major water problems. Format for the above sub sessions: speakers give a brief **overview** as indicated and take questions. Speaker time will be kept **short** (10 mins) and **debate encouraged**.*

Chair : Prof. Shaktivadivelu
Faculty of Civil Engineering,
Centre for Water Resources, Anna University, Chennai

Time	Topic	Speakers
1:30 pm – 1:45 pm	Water Availability & its management	Prof. A.K. Gosain Professor, Department of Civil Engineering, Indian Institute of Technology - Delhi,
1:45 pm – 2:00 pm	Water Purification & associated Issues	Dr. S. Prabhakar Former Head, (Separation Technology Section) Bhabha Atomic Research Centre (BARC), Trombay, Mumbai
2:00 pm – 2:15 pm	Urban Water Management	Prof. M. S. Mohan Kumar Professor, Department of Civil Engineering, Indian Institute of Science (IISc), Bangalore
2:15 pm – 2:30 pm	Storm water Management	Dr. Kapil Gupta Professor, Department of Civil Engineering Indian Institute of Technology- Bombay, Mumbai

Time	Topic	Speakers
2:30 pm – 2:45 pm	Water Reclamation & Reuse	Dr. Arunabha Mujumder Head, Department of Sanitary Engineering & Visiting Faculty, All India Institute of Hygiene & Public Health (AIH&PH), Kolkata
2:45 pm – 3:00 pm	Efficient use of Water in Irrigation	Dr. M. Gopalakrishnan Secretary General, ICID, New Delhi

Coffee/Tea Break

Time: 3:00 pm – 3:15 pm

Session - 3 (9 November, 2010)

Splitting into Breakout sessions

Time: 3:15 pm – 4.00 pm

The objective of this session is to discuss the methodology of the parallel group discussions

Chair : Prof. M.S.Mohan Kumar
Professor, Department of Civil Engineering
Indian Institute of Science, Bangalore
&
Prof. Dragan Savic
University of Exeter, United Kingdom

3:15pm – 4:00pm

Introduction and explanation of task
Identification of possible research themes
Splitting into Groups based on Research Themes
Finalizing Methodology of the
parallel group discussions

Session- 4 (9 November, 2010)

Breakout sessions

Time: 4:00 pm – 5:30 pm

Breakout Sessions : Groups to identify Leaders

These sessions should have 1-2 facilitators who's role, will be to help identify priority areas and key questions to be discussed during breakout sessions. This session will be of brainstorming (CAFÉ) type

Split off into the breakout groups discuss and identify the top three research activities that groups feel should be undertaken; and then note:

- A description of the specific challenges the theme faces
- Why the challenge is important
- What will be achieved by meeting the challenge?
 - Prepare Report on Research gaps and priorities
 - Preparation of Draft Concept Papers

Coffee/Tea Break

Time: 5:30pm

End of first day

During the evening, breakout group leaders and facilitators will work together on finalizing plans for the next morning session. Draft papers will be prepared for discussion among breakout groups.

Banquet Dinner

Time: 7:00pm

Day 2

Date: 10 November, 2010 Venue : Department of Civil Engineering, IISc.

Breakout Sessions (Session - 4 contd...) Time: 09:00 am – 10:00 am

The objective of this session is to synthesize the open research questions identified in the brainstorming session of day 1 and to prepare a report on research gaps and priorities.

Coffee/Tea Break

Time: 10:00 am – 10:15am

Session- 5 (10 November, 2010)

Time: 10:15 am– 11:15 am

Presentation of draft concept papers and proposals for research priorities from Breakout sessions

The objective of this session is to present the outcomes of the break out sessions to the plenary

Chair : Prof. A. K. Gosain

Professor, Department of Civil Engineering,
Indian Institute of Technology, Delhi

&

Prof. Talis Juhna

Riga Technical University, Latvia

Session- 6 (10 November, 2010)

Time: 11:15 am – 12:15 pm

Panel Discussion on proposed research priorities

The objective of this session is to have a general discussion on the outcomes of the various sessions and agree on the proposed research priorities and future steps

Chair : Dr. M. Gopalakrishnan

Secretary General, ICID

&

Prof. Michael Schneider

F. U. Berlin, Germany

Session- 7 (10 November, 2010)

Concluding Session

Time: 12:15 pm – 12:55 pm

At the end of the workshop, representatives from the EC RTD Environment Directorate and the DST in India should come together to analyse the outcomes of the workshop and agree a detailed action plan and modalities for the implementation of WTRIC.

Chair : Prof. J. Srinivasan

Chairman, Divecha Centre for Climate Change
Indian Institute of Science, Bangalore
&

Dr. Andrea Tilche

European Commission, Belgium

Consolidation of report on analysis of the workshop :

Sri Sanjay Bajpai

Director / Scientist 'F'

Department of Science and Technology

Government of India

Signing of DST-EU Joint Declaration

12:55 pm – 1:00 pm : Vote of Thanks

Dr. M. Prithviraj

Executive Secretary,

Karnataka State Council for Science and Technology

Lunch

Time: 1:00 pm

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3. Profile of Experts from EU

Sl. No	Name	Address of Serving Organisation Phone No. and Email Addresses	Area of Expertise
1.	Dr. Panagiotis Balabanis	Deputy Head of Unit European Commission, Research Directorate-General Directorate I - Environment DG RTD.I.3 - Environmental Technologies and Pollution Prevention CDMA 03/41, B - 1049 Brussels, Belgium Off: +32-2-2953630 Fax: +32-2-2952097 Email: panagiotis.balabanis@ec.europa.eu	EU Water Research Policy
2.	Dr. Theo van den Hoven	Manager Research Programme KWR, Watercycle Research Institute Postbus 1072, 3430 BB Nieuwegein Netherlands Off: +31 (0)30 606 95 350 Email: Theo.van.den.Hoven@kwrwater.nl	Drinking water, water supply and sanitation technology
3.	Prof. Talis Juhna	Riga Technical University Department of Water Engineering and Technology, Azenes 16, LV 1048, Latvia Off: +37167089085 Email: Talis.Juhna@rtu.lv	Drinking water treatment, drinking water networks, microbiology, industrial water
4.	Prof. Dr.-Ing. Thomas Wintgens	Fachhochschule Nordwestschweiz Hochschule für Life Sciences Institut für Ecopreneurship Gruppenleiter Umwelttechnologie Gründenstrasse 40, CH-4132 Muttenz Switzerland Off: +41 61 467 44 59 Email: thomas.wintgens@fnw.ch	Membrane processes, water recycling and integrated water cycle management
5.	Prof. Dino Borri	Department of Architecture and Urban Planning, Polytechnic of Bari Via Orabona, 4 - 70125, Bari, Italy Off: +39 080 5963843 Email: d.borri@poliba.it	Water technologies and knowledge, technological change, knowledge management systems for environmental problems

Sl. No	Name	Address of Serving Organisation Phone No. and Email Addresses	Area of Expertise
6.	Dr. Laura Grassini	Research Fellow Department of Architecture and Urban Planning, Polytechnic of Bari Via Orabona, 4 - 70125, Bari, Italy Off: +39.333.6029626 Email: laugrassini@libero.it	Water technologies and knowledge, water governance and policies, community planning for environmental management.
7.	Dr. Anders Lynggaard-Jensen	Head of Innovation - Urban water DHI Water & Environment Gustav Wieds Vej, 10 DK- 8000 Aarhus, Denmark Off: +45 2027 7052 Email: ali@dhigroup.com	Wastewater monitoring and control systems, surface water and drinking water system
8.	Dr. Gesche Grutzmacher	KompetenzZentrum Wasser Berlin gGmbH Cicerostr. 24, D-10709 Berlin Germany Off: +49 (0)30 53653 813 Email: gesche.gruetzmacher@kompetenz-wasser.de	Sustainable use and protection of groundwater resources, hydrogeochemistry, groundwater recharge
9.	Dr. Markus Starkl	Assessment and Governance, Head University of Natural Resources and applied Life Sciences Vienna Competence Centre for Decision Aid in Environmental Management Gregor Mendel Strasse 33 1180 Vienna, Austria Off: +43 1 476545057 Email: markus.starkl@boku.ac.at	Water supply and sanitation, sustainable urban water management
10.	Dr. Adriano Battilani	Senior Researcher - Project Manager Consorzio di bonifica per il Canale Emiliano Romagnolo CER Via E. Masi, 8 - 40137 Bologna Italy Off: +39 0514298892 Email: battilani@consorziocer.it	Water reclamation and reuse, water quality monitoring, irrigation
11.	Prof. Robert Brian Shutes	Urban Pollution Research Centre The Burroughs, Hendon London NW4 4BT United Kingdom Off: 44 (0)20 8411 5229 Email: b.Shutes@mdx.ac.uk	Water management ecotechnology, sustainable urban drainage systems, biological and chemical impacts of water pollution on receiving waters

Sl. No	Name	Address of Serving Organisation Phone No. and Email Addresses	Area of Expertise
12.	Dr. Albert Jansen	Manager Innovation Program Water and Business Development, TNO Laan van Westenenk 501 NL-7334 DT Apeldoorn, Netherland Off: +31 88 866 21 79 Email: albert.jansen@tno.nl	Membrane technology, separation technology, business development
13.	Prof. Dr. Michael Schneider	Freie Universitaet Berlin Institute of Geological Sciences Hydrogeology Group, Malteserstraße 74-100 D-12249 Berlin , Germany Off: +49-30-838-70653 Email: m.schneider@fu-berlin.de	Hydrogeology, geothermal energy
14.	Prof. Dr. Thomas Grischek	University of Applied Sciences Dresden Faculty of Civil Engineering & Architecture Friedrich-List-Platz 1 D-01069 Dresden, Germany Off: +49 351 462335 Email: grischek@htw-dresden.de	Rehabilitation of water systems, groundwater management, river bank filtration
15.	Prof. Dragan Savic	Centre for Water Systems School of Engineering, Computing and Mathematics University of Exeter, North Park Road Exeter EX4 4QF, United Kingdom Off: +44 (0)1392 263637 Email: d.savic@exeter.ac.uk	Hydro-informatics, Mathematical Modelling of municipal water distribution and waste water networks, Design of Urban Water System
16.	Prof. Enrique Playan	Estación Experimental de Aula Dei, CSIC Apdo. 13034, 50080 Zaragoza, Spain Off: +34 976 716 087 Email: enrique.playan@eead.csic.es	Water scarcity, agricultural water management, irrigation engineering, water resources conservation
17.	Dr Céline Herve-Bazin	Liaison Officer for WssTP / Office Director ACQUEAU, 127, rue Colonel Bourg B-1140 Brussels, Belgium Off: +32 2706 4084 Email: celinehervebazin@wsstp.eu	Water policy and strategy, dissemination & communication, technology transfer
18.	Dr. Andrea Tilche	Head of Unit, Environmental Technologies and Pollution Prevention)DG Research EC Brussels, Belgium Email: Andrea.Tilche@ec.europa.eu	EU Water Research Policy
19.	Christoph Sprenger	Scientific Researcher at Freie Universitaet, Berlin, Institute of Geological Sciences, Hydrogeology Group, Germany	Hydrogeology Managed, aquifer Recharge, River bank filtration

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4. Profile of Key Speakers from India

Sl. No	Name	Topic of Lecture	Profile
1	Dr. S. Prabhakar	Water Purification & Associated Issues	<p>Updated Affiliation Dr.S.Prabhakar M.Sc.(chy),M.S.(Ch.Engg.), Ph.D.(Sci.),MBA(Op.Mgmt.) former Scientist & Head Separation Technology Section, Bhabha Atomic Research Centre, Mumbai</p> <p>Key Areas of Expertise</p> <ul style="list-style-type: none"> • Development & Deployment of membranes and membrane based systems for Desalination & Water Purification.(UF/NF/RO) • Design, Erection & Operation of Reverse osmosis plants for desalination & effluent treatment. • Associated with rural drinking water supply program for about 25 years. • Techno-economic /Feasibility studies on Desalination & Water Management Systems • Coauthor of three patents and more than 80 international/ national publications. • Responsible for transfer f UF based membrane technologies for water purification and BWRO technology for desalination. • Served as Consultant to U/T Lakshadweep with reference to drinking water supply systems. <p>Biographical Sketch Dr.S.Prabhakar is associated with membrane development and deployment for various application including water treatment for more than twenty five years. He was one of the pioneers to demonstrate the technical feasibility of using brackish water RO for providing drinking water for rural areas in early eighties. He has pioneered the application of RO, NF and UF for the treatment of aqueous radioactive effluents. He has delivered expert lectures on Nuclear Desalination and membrane desalination on behalf of IAEA to the participants from member countries at ICTP Trieste, ITALY and has participated in number of coordinated research programmes. He has more than 80 publications</p>

			and three patents. Under his leadership UF based water purification technologies for the removal of bioorganisms, As, Fe and fluoride and Brackish water RO technology have been transferred to private parties for wider deployment.
2	Dr. Arunabha Majumder	Water Reclamation & Reuse	<p>Prof Arunabha Majumder Emeritus fellow, School of Water Resources Engineering, Jadavpur University. Visiting Faculty, Presidency University, Kolkata. Member, Arsenic Task Force, Fluoride Task Force, Sanitation Task Force, Govt. of West Bengal. Member, Environmental Impact Assessment Authority Fellow, Institution of Public Health engineers (I) Fellow, Indian Water Works Association</p> <p>Expertise : Water purification Urban water Supply Rural Water supply Water Quality monitoring & Surveillance Water Management Waste water Management (Municipal / Industrial) water pollution Control Water Conservation, Water recycling and Reuse Solid Waste Management EIA</p>
3	Dr. A. K. Gosain	Water Availability & its Management	<p>Dr. A. K. Gosain, is a Professor in the field of Water Resources Engineering and GIS Technologies, in the Civil Engineering Department, IIT Delhi. Presently he is heading the Civil Engineering Department. Prof. Gosain has been associated with the research and development work in the area of hydrological modeling, urban flooding, water management, climate change impact assessment, Geographic Information System, and many allied areas. Some of the recent works of Prof. Gosain include a significant contribution to the NATCOM – national project undertaken by the Ministry of Environment and Forests for making the National Communication to the United Nations Framework Convention on Climate Change (UNFCCC). Prof. Gosain and his team undertook the segment on Vulnerability Assessment & Adaptation for Water Sector and quantified the</p>

			<p>possible impact of the climate change on water resources of the river basins of the country (http://gisserver.civil.iitd.ac.in/natcom).</p> <p>Prof. Gosain has served on many prestigious assignments with the World Bank, DFID, USAID and many Ministries and State Governments. Prof. Gosain has to his credit above ninety papers published in refereed national and international journals and conferences. Fourteen students have completed their Ph.D. under his supervision. One of the recent assignments of Prof. Gosain include the formulation of the Ganga River Basin Management Plan (GRBMP), of which he is the Team Leader, Water Resources Management group. This is being done through a consortium of all the IITs.</p> <p>Web-page: http://web.iitd.ac.in/~akgosain/</p>
4	Prof. M. S. Mohan Kumar	Urban Water Management	<p>M S Mohan Kumar is working in the broad area of flow and contaminant transport in both natural and man made systems. The research areas are : Groundwater, Vadose zone hydrology, Multiphase flow systems, Urban water networks, Irrigation systems and Small experimental watersheds. He has been involved in several international as well as national projects in both research and consultancy mode. He has guided many PhDs and Masters students and published many papers in international and national journals. He is a fellow of Indian Water Works association and member of several professional bodies. He has been recipient of several prestigious fellowships such as Alexander Von Humboldt fellowship, INSA-JSPS fellowship. He is a Visiting Professor to Institute for Lowland Technology, Saga University, Japan and to Department of Earth Sciences, Utrecht University, The Netherlands under Utrecht-Asia program. He is currently Professor of Water Resources Engineering, Department of Civil Engineering, and Associate Faculty CiSTUP, Indian Institute of Science, Bangalore. He is also the Chairman of Indo-French Cell for Water Sciences at IISc and Hon. Secretary, Karnataka State Council for Science and Technology.</p>

5	Prof. P. Rajendra Prasad	Water Research in India	<p>Prof. Patury Rajendra Prasad, working as a professor in Geophysics and Pro. Vice-Chancellor of Andhra University is a Geophysicist by training. His major fields of interest are water resources and coastal processes. After obtaining a Ph.D. from the Andhra University for his work on integrated studies on water resources of Tammileru River basin, he carried out Post Doctoral research work at the Kiel University, Germany. His work on the application of Geophysical and Hydrochemical techniques on the Schleswig Holstein coast to characterise the coastal dynamics, the coastal evolution and the coastal aquifer regime was well recognised. Integrated hydrological studies carried on the Visakhapatnam coastal region brought out the possibility of the existence of juxtaposing relationships between water table fluctuation and the associated electrical conductivity in the processes of ground water recharge in different hydrogeological conditions.</p> <p>Integrated hydrological, sedimentological and oceanographic studies carried out in Western Krishna Delta, Godavari sand spit and the Kakinada- Uppada coast have led to the identification of critical process-response characteristics involved in the evolution of the coastal processes, coastal dynamics, behaviour of coastal aquifer systems and its hydrochemical signatures in identifying the sub-surface sedimentary environments. The integrated approach adopted by him has provided a robust structure to develop a Decision Support Information System to develop and manage the water resources in small watersheds, especially in hard rock terrain.</p> <p>He is the Associate editor of the Journal of Applied Hydrology and the Secretary of the Association of Hydrologists of India. He is a Fellow of AP Akademy of Sciences, IGU and AEG. He is presently the Vice-President of International Association of Hydrological Sciences. He has been working in the academic field for the last 35 years. He has more than 60 research articles to his credit.</p>
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6	Dr. Kapil Gupta	Storm Water Management	<p>Dr. KAPIL GUPTA is presently working as Professor in the Department of Civil Engineering at the Indian Institute of Technology, Bombay. He obtained his B. Tech in Civil Engg from IIT Delhi, M Tech in Hydraulic Engineering from IIT Madras and Ph D from the University of Sheffield, England, UK. He has been working in the area of Urban Stormwater Management during the past 10 years with focus on urban flooding. He has been responsible for setting up the real time flood monitoring system for the Municipal Corporation of Greater Mumbai. He has been the convener and member of the core group for the committee on drafting of the National Urban Flood Disaster Management Guidelines for the National Disaster Management Authority, Government of India. He is also on the expert committee for drafting the Manual on Stormwater Management for the Ministry of Urban Development, Government of India. He has several international, national and conference papers to his credit. He has been the recipient of 3 international research fellowships including the "Quality of Life" Research fellowship by the Association of Commonwealth Universities, London, UK. He is the Indian PI for the EU FP7 CORFU project- Collaborative Research on Flooding in Urban Areas.</p>
7	Dr. Gopalakrishnan M.	Efficient Use of Water in Irrigation	<p>Engr. M. Gopalakrishnan is currently the Secretary General of International Commission on Irrigation and Drainage (ICID). A Distinguished Fellow of the Institution of Engineers as a Chartered Engineer, he is a holder of Master Degree in Water Resources Development. Engr. Gopalakrishnan has over 43 years of experience in Water Resources Sector, handling planning, development and management in different periods. He is well-known to the global community on water and has served as the Governor of World Water Council (2004-06), ICOLD, IWRA, IWRS, Institution of Engineers (India) etc.</p> <p>Engr. Gopalakrishnan had served earlier in various senior positions in Government of India and retired on 31st January 2003, as Member, Central Water Commission (CWC) and Ex-Officio Additional Secretary to Govt. of India. He has contributed to Govt. of India's efforts on</p>

			<p>water in specific missions like (i) Task Force on Interlinking of Rivers; (ii) National Water Mission under Climate Change, (iii) the Committee of Department of Science and Technology on Water, to mention a few.</p> <p>Er. Gopalakrishnan had prestigious feathers like (i) serving as a Governor in the World Water Council between 2004-06 (ii) a member of the Technical Advisory Committee of World Water Development Reports, facilitated by UNESCO since 2007, to quote a few when one looks from international assignments of important significance.</p> <p>The year 2010 saw a worldwide acknowledgement of Gopalakrishnan's contributions to water sector. He now retains the proud privilege of receiving a 'Life Time Achievement award' from the American Academy of Water Resources Engineers. He has been conferred the '<i>Honorary Diplome</i>' Status in the Academy recently, a rare of its kind to be received first time by an Indian. All the earlier 19 recognitions were for those from American continent.</p>
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5. Profile of invited participants from India

Sl. No	Name and Address of Serving Organisation	Profile
1.	Dr. Sanjeev Chaudhari Associate Professor, Centre for Engineering Science, Indian Institute of Technology (IIT- Bombay), Powai, Mumbai Maharashtra 400 076	<p>Dr. Sanjeev Chaudhari is a Professor in Centre for Environmental Science and Engineering, Indian Institute of Technology, Bombay. He has been working in the field of water and waste water treatment in India for almost twenty years. He has authored 2 book chapters and over 25 papers in international peer reviewed journals. His major area of work include:</p> <ul style="list-style-type: none"> • Application of Natural Coagulants for Water and Wastewater Treatment • Anaerobic- Aerobic- AOP treatment for Azo dyes Containing Wastewater • Arsenic Removal from Drinking Water by Electrocoagulation using mild steel electrodes • Enhanced biological nutrient removal from wastewater • Modification of UASB for improved low strength wastewater treatment • Development of community scale arsenic removal filter unit for drinking water based on zerovalent iron. <p>All his work is focused on providing the most economical setups for provision of clean water to the rural areas in India and also to provide simple solutions for treatment of wastewater which is robust, requires least post treatment and is not energy intensive.</p>
2.	Dr. Leela Iyengar Adjunct Professor Centre for Postgraduate Studies, Jain University Bangalore Karnataka	<p>Expertise Drinking Water Quality Monitoring Field tests for bacteriological quality Fluoride contamination and its mitigation Arsenic mobilization</p> <p>Other details Leela Iyengar was at IIT Kanpur since 1970. She retired as Chief Scientific Officer from the department of Chemistry in 2007. Her research interests have been water and wastewater treatment, bioremediation and other related fields. She was associated in UNICEF projects on fluorosis and its mitigation programs in Rajasthan and Andhra Pradesh, H₂S test for monitoring bacteriological quality of drinking water and had been a core member of with UP Jal Nigam on arsenic contamination in UP.</p>
3.	Dr. Vijaya Lakshmi K. Vice President Development Alternatives, 111/9-Z, Kishangarh, Vasant Kunj, New Delhi 110 070	<p>With over 22 years of relevant experience in environmental management, Dr. Vijaya Lakshmi has been responsible for strengthening DA's capability in designing solutions for the brown issues of the environment i.e., air, water and land pollution due to industrialization and urbanization and the related socio-economic implications on people and ecosystems. Very early on in her career, issues concerning water quality related such as microbiological,</p>

		<p>fluoride, arsenic and nitrate, its health impacts especially on women and children have intrigued her the most. Dr. Lakshmi took upon the challenge of demystifying the science of water quality testing and purification and decided to make sure that the common person has access to simple, reliable, easy to operate tools. Thus borne the Jal-TARA water testing Kits and Jal-TARA water Filter, which have become so popular and came in handy especially for testing millions of water samples and for treating gallons of water across India.</p> <p>She has been deeply involved and worked with PHEDs/PREDs and UNICEF in different projects related Fluoride and Fluorosis management in the states of Andhra Pradesh and Rajasthan since 2002.</p> <p>She has expertise in Environmental Management Systems (EMS) planning, design and facilitation of implementation, EIA & EMP studies, corporate responsibility - policies and procedures, corporate sustainability - measurement and verification, State of the Environment studies and regional assessments in the framework of pressure- state-impact and – response strategies. Associated with IISD, the key advisory committee member of ISO advising on CSR standard development. Designed and implemented a Multi stakeholder processes for setting voluntary standards for Corporates.</p> <p>Areas of Expertise Environmental Management Systems (EMS) planning, design and facilitation of implementation, EIA & EMP studies, corporate responsibility - policies and procedures, corporate sustainability - measurement and verification, state of the environment studies and regional assessments in the framework of pressure - state - impact and - response strategies.</p> <p>Urban environmental management, urban water use and solid waste management policies, Environmental assessment, awareness and action involving key stakeholders especially the youth and NGOs. Environmental and social performance Benchmarking for urban, industrial and service sectors, pollution prevention and waste minimization for SMEs, cleaner technology validation, adaptation, demonstration and promotion. Stakeholder training on best practices for energy and environmental management, resource conservation, designing community action networks for environmental protection and preventive environmental management.</p>
4.	Dr. S. Khuntia Scientist G & Head Design & Rural Technology Department, IMMT (CSIR), Bhubaneswar-751013 Orissa	I have graduated & post graduated from National Institute of Technology, Rourkela during 1974 & 76, and pursuing PhD at present. I am working as scientist in IMMT (formerly RRL), National R&D laboratory under CSIR, Govt of India since 1978. I have contributed two dozens of inventions & developments, four patents, 75 papers and received seven awards & honours for mostly need based products & technologies for industrial & societal developments in the areas of

		Renewable energy, Equipment developments, Rural Technology and Drinking water. My prominent invention is a low cost red clay filtration media, called as TERAFIL, for efficient purification of drinking water. I have also developed various low cost point-of-use & water purification plants based on Terafil technology for household & community supply of clean drinking water at minimal cost & maintenance. Novelties of this technology are mass production of Terafil candle from locally available cheap materials by local artisans, removal of 95-100% turbidity, iron, micro-organisms, colour, bad odour & improvement of pH from both surface & ground water without using electricity. It is being implemented through out the India at present under Bharat Nirman & Jalmani programme of Govt of India and State programme for mitigation of drinking water problems.
5.	Dr. Ulhas Kharul K. Scientist, Polymer Science & Engineering Division, National Chemical Laboratory (NCL), Dr. Homi Bhabha Road, Pune Maharashtra 411 008	Area of Expertise: Membrane Science and technology (Ultrafiltration, Proton exchange membranes for fuel cell and gas separation) Achievements: (i) Development of Ultrafiltration membranes with small enough porosity to reject viruses and bacteria, still be able to operate at tap water pressure. The spiral modules based prototypes were developed and demonstrated all over the country during various occasions. The technology for membrane preparation was transferred to a commercial entrepreneur. (ii) Development of charged Ultrafiltration membrane for arsenic rejection based on Donnan Exclusion Principle.
6.	Dr. Pawan Labhassetwar Scientist and Head, Geo-environment Management Division NEERI, Nehru Marg Nagpur - 440 020, Madhya Pradesh	I obtained Ph.D. in Environmental Engineering after graduation in Civil Engineering and post-graduation in Environmental Engineering. I am working in NEERI, Nagpur, India since 1989 and my specializations include water resource management, water quality monitoring and surveillance, water safety plan, risk assessment/management and health based targets, greywater treatment and reuse and water treatment. I was part of design of 6 water treatment technologies based on which full-scale plants are in operation. I have about 20 papers to my credit in SCI journals besides 3 books/guidance manuals. I am Associate Editor of 3 International Journals on water of International Water Association Publication (IWAP). I am member of Global Water Quality Task Force of the WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation (JMP) and member of Core Group on Water Quality and Health of IWA.
7.	Dr. Paknikar K.M. Scientist Division of Microbial Sciences, Agharkar Research Institute, G.C. Agarkar Road, Pune Maharashtra 411 004	Key expertise: Use of metal-microbe interactions in remediation of metal contaminated aqueous streams, Nanoparticles mediated degradation of pesticides and dyes from aqueous streams Brief biographic sketch: Dr. Paknikar has worked extensively on microorganisms capable of interacting with metals. These studies have provided novel ways of combating environmental pollution caused by metals. The work covers a complete gamut of science ranging from development of laboratory-scale technologies, their scale-up, and transfer of technology to industry. He has also employed nanotechnology based methods for degrading chlorinated pesticides and dyes from aqueous solutions.

8.	Dr. Subramanian S. K. Scientist-Scientist 'G' & Head, Hydrogeology Division NRSC, ISRO, Dept.of Space, Hyderabad - 500 625	Coordinator for the National Project, Rajiv Gandhi National Drinking Water Mission for the entire country. Specialised in Applied Geomorphology, Groundwater, Remote Sensing aspects in Structural fabrics of Outer Himalayas. Coordinated other important national Projects of ISRO and MoA on Integrated Mission for Sustainable Development (IMSD) and National Agricultural technology (NATP) respectively in planning the water resources action plan. Faculty member of Indian Institute of Remote Sensing and involved in teaching and Research.
9.	Mr. Kiran Deshpande D-13, MIDC Industrial Area R D Aga Road, Chinchwad, Pune, Maharashtra 411 019	<p>Kiran Deshpande is Head of Center of Excellence at Thermax Limited Pune. He has done his masters from Indian Institute of Science & is working in water treatment & management for about 30 years.</p> <p>Kiran has published many application papers on water treatment and management. He has been faculty for Water Treatment Training programs organized by Institutes and Industries. He holds many patents related water treatment technology.</p> <p>At present, Kiran is working on projects developing water treatment technology using nanomaterials, biotechnology, electrochemistry and ion exchange resins. The projects are taken up in collaboration with national and international institutes. The areas of interest are waste water treatment, industrial water treatment and recycle, Zero discharge, drinking water treatment for arsenic and similar contaminants.</p>
10.	Dr. Ligy Philip Associate Professor, Dept. of Civil Engineering, Indian Institute of Technology Madras Chennai – 600 036 Tamil Nadu	Ligy Philip is a professor of Civil Engineering at the Indian Institute of Technology Madras, Chennai, India. She earned her Ph.D. from the Indian Institute of Technology, Kanpur in 1998. She has authored over 50 scientific papers in journals and developed many technologies for the remediation of contaminated soil/aquifer/water/wastewater and air. One of her technologies is already transferred to the industry. She also has developed an easy to use water quality test kit, which is extensively used by UNICEF and many Panchayats. Prof. Ligy's research interests are in rural water supply, bioremediation of contaminated soil and aquifers, water and wastewater treatment, recycle and reuse. For more information, please see, http://www.civil.iitm.ac.in/people/faculty/ligy
11.	Prof. Gupta A. B. Malaviya National Institute of Technology (MNIT), JLN Marg, Jaipur, Rajasthan- 302017	<ul style="list-style-type: none"> • Research Interest: Biological waste treatment • Environment and health • Environmental modeling <p>Dr. A. B. Gupta holds B.E. (Civil); M. Tech. and PhD (Environmental Science and Engineering) degrees. He joined MNIT as a lecturer of Civil Engineering in 1984 and is serving as a Professor since 1996. His assignments include HOD (Civil), Dean R&D and Dean (Faculty Affairs) in the institute. The major areas of his research are Biological waste treatment; Environment and Health; and Environmental Modeling. He has published/presented over 210 papers in various international/national journals/conferences, guided six PhDs and about</p>

		80 Masters' theses, taken up several research/consultation projects, and received several academic awards. He has delivered many keynote addresses and invited talks at International/national conferences and institutions.
12.	Dr. Rao Durga K H V Scientist/ Engineer 'SF', Indian Space Research Organisation (ISRO), Balanagal, Hyderabad, Andhra Pradesh- 500 625	<p>Qualification</p> <ul style="list-style-type: none"> - Ph.D on Spatial Decision Support System for Water Resources Management - M.Tech in Water Resources Engineering. <p>Area of Research & Experience:</p> <p>I have been working in the field of Remote Sensing and GIS Applications to Water Resources for more than 15 years. My area of research includes; Water Resources Assessment, Climate Change Studies, Hydrological Modelling, Flood Forecasting, and Decision Support Systems. Presently I am the Principal Investigator for the ongoing research projects on National Water Resources Assessment – using the Space Inputs and for the component on Impact of Climate Change on Water Resources.</p> <p>Executed more than 12 National level projects on Remote Sensing and GIS applications to Water Resources.</p> <p>Acting as a reviewer for various International and National Journals in the field of Water Resources, Remote Sensing, and GIS.</p> <p>Memberships in Professional Bodies</p> <p>Life member of Indian Society of Remote Sensing Life member of International Hydrological Association</p> <p>Publications: Published more than 20 research papers in International, National journals and conferences.</p>
13.	Prof. Chandrappa G. T. Associate Professor Department of Chemistry Central College Campus Bangalore University, Bangalore-560001	<p>Hydrothermal and combustion techniques have been employed for the synthesis of variety of nanostructural/nanomaterials (e.g., nanotubes, nanorods, nanofibers, nanorings, nanowires, multipods, microspheres, organic-inorganic hybrid materials, novel porous materials of transition metal oxides). Various physicochemical techniques such as PXRD, IR, TG-DTA, SEM, TEM, SAED, EDX and BET surface area were used for the characterization of nanomaterials. The studies such as magneto resistance, photoluminescence, catalytic behavior, adsorption properties of the materials were investigated. Besides, the environmental aspects such as the distribution of heavy metals in urban environment including water bodies (Bangalore lakes) was also carried out and the entire work has been published recently as a Book by Lambert Academic Publishing, Germany.</p> <p>Research achievements/interest in the area of water research Nanomaterials and their applications in water purification</p> <p>His area of working is in synthesis and processing of nanomaterials and their applications exclusively on water treatment. Certain adsorbents such as porous nanocrystalline MgO and ZnO powders possessing large surface area are made via simple and cost effective solution combustion method which is to be scaled up in large scale. Dosage of 50 mg MgO/ZnO is able to remove 95 % of fluoride from 10</p>

		<p>ppm of 100 ml and arsenic species from 2 ppm of 100 ml from drinking water. The recent investigation reveals that the MgO material (100 mg dosage) removes nitrate and heavy metals such as Pb, Cd, Cr, Ni, Fe (1ppm of 100 ml) efficiently from water contaminants. This invention has been admitted for grant of patent. The Proprietary Information Exchange Agreement for the purchase of this invention by Honeywell, Bangalore based MNC Company is under progress.</p> <p>At present we are looking at to develop a synthesis process for the doping of Ag nanoparticles in MgO and testing of the same against bacteria contaminated water in collaboration with Water Business, UL India Pvt. Ltd., Bangalore, India.</p>
14.	<p>Dr. Rao TNVV Regional Head - Water Business UL India Pvt. Ltd Underwriters Laboratories Kalyani Platina, 3rd Floor,Block I, No. 24, EPIP Zone, Phase II Whitefield, Bangalore Karnataka- 560 066</p>	<p>Dr. T.N.V.V. Rao has over 20 years of experience in the area of water management. A Ph.D. in Environmental Chemistry, he has a string of additional qualifications in environmental management, business management, and sales & marketing. He has to his credit a large number of papers that have been published in reputed Indian & international journals, and presented at prestigious seminars and symposia.</p> <p>Conversant with state-of-the-art technology and instrumentation, Dr. Rao has been associated with a wide number of important analytical and research projects for reputed institutions and associations. He has conceptualised, developed & evaluated state-of-the-art water & air purification systems, as well as handled training in sales & service, technical guidance and customer complaints. This, along with his tenure at the leading water purification company, a leader in specialty chemicals manufacturing and a leader in Flavor & Fragrance manufacturing, has brought him invaluable first hand understanding of customer needs. His experience includes being a Management Representative for ISO 9001 certification and he is conversant with good documentation practices.</p> <p>Presently working as 'Regional Head – Water Business' in Underwriters Laboratories based in Bangalore, India.</p>
15.	<p>Dr. M. Sudhakar Rao Professor, Department of Civil Engineering, Centre for Sustainable Technology, Indian Institute of Science (IISc), Bangalore 560 012</p>	<p>His areas of interest in Water include: Geochemistry of aquifers prone to geogenic and anthropogenic contamination, Water quality characterization for drinking water requirements, Developing and field implementation of treatment technologies for drinking water contaminated with geogenic and anthropogenic contaminants</p> <p>He was Moderator Commonwealth Science Council (CSC) Knowledge Network's on "Environmental Issues of Fluoride Contaminated Ground Water"</p> <p>He was Core Member Commonwealth Science Council Knowledge Network on "Arsenic pollution of groundwater in west Bengal and Bangladesh".</p> <p>He had organized DST Workshop at IISc on "Sustainable water management: S&T strategies for the future" in September 2007. The edited book "Advances in water quality & management" published by Research Publishing Singapore/Chennai (ISBN 978-981-05-9012-3) was an outcome of the Workshop.</p>

		<p>He has developed the magnesium oxide method for removing fluoride from drinking water that is being currently practiced in Tumkur District, Karnataka, Laxmangarh District Rajasthan and Luh District, Haryana. He is currently working on development on soil filters for removal of microbial and inorganic contaminants. He is also pursuing research on use of metal catalysts to remove nitrate and hexavalent chromium from water.</p> <p>He has published 9 journal papers and 2 chapters in edited book and is executing/executed 8 sponsored research projects in water research. In the broad area of geoenvironmental engineering, he has published 66 journal papers and guided 11 Ph.D. students.</p>
16.	<p>Dr. Vikrant Jain Department of Geology, Centre of Advanced Studies, University of Delhi Delhi-110 007.</p>	<p>Dr. Vikrant Jain is a fluvial geomorphologist. His field of research area includes fluvial dynamics and flood hazards, channel processes and morphological variability, and geomorphic connectivity in a river basin. He did his masters (MTech) from IIT Roorkee and PhD from IIT Kanpur. He was awarded the Dr. Shankar Dayal Sharma Gold medal-2001 for being the Best Outgoing All round PG student of IITK and received postdoctoral fellowships from Australia, Holland and USA. He has joined Delhi University as Reader in Nov, 2007. Dr. Jain has developed process based understanding of different spatial and temporal aspects of the Ganga Plains rivers, coastal rivers of NSW, Australia and Canada.</p>
17.	<p>Dr. Selvakumar R. Lecturer in NanoBiotechnology PSG Institute of Advanced Studies, Coimbatore-641 004 Tamil nadu,</p>	<p>My updated affiliation is PSG Institute of Advanced Studies, Coimbatore-641004. I have expertise in "Arsenic removal from drinking water using Microbial and nano-based water treatment technologies"</p> <p>Field of Interest:</p> <ol style="list-style-type: none"> 1. Development of microbial and nanomaterial based arsenic and fluoride removal technologies with efficient antimicrobial activity for drinking water. 2. Biological nanostructures and its applications <p>Research achievements:</p> <p>Dr. Selvakumar has 5 years in the field of arsenic removal from drinking water and have designed a household water purification system for arsenic and fluoride removal from drinking water and the technology has been handed over to DRDO-DRL, Tezpur. I have developed silver nanoparticles containing biobased adsorbent for efficient removal of As(V) along with antimicrobial activity. He has 8 national and international research publications in various peer reviewed journals like Water Research, Journal of Hazardous Materials, Separation Science and Technology, Water Science and Technology, Journal of Chemical Engineering, Journal of Environmental Sciences and Indian Journal of Chemical Technology. At present I am working on development of nanoporous S-layer based ceramic membranes for Lanthanide and simulated actinide separation in collaboration with Dr.U.Kamachi Mudali and Dr.C.Anand babu of Indira Gandhi Centre for Atomic Research, Kalpakkam.</p>

18.	Dr. Palanisami K. Director, International Water management Institute-Tata Programme, South Asia Regional Office, 405/1, care of ICRISAT, Patancheru-502324 Andhra Pradesh	K.Palanisami is an Agricultural Economist working on key issues relating to water, land and water policy aspects for the past 23 years. He was a Junior and Senior Fulbright Fellow at the University of Minnesota, USA and was the visiting Professor at the University of Minnesota during 1982-84 and 1990. Worked as a Visiting Fellow in Khon Kaen University, Thailand for 1 year (1984 -85) and also worked at IRRI, Philippines for 2 years (1986- 88). He was a Visiting Researcher at Wasesa University, Japan (2000) and RIHN, Kyoto (2004). Also worked as consultant to the UN/FAO for East African Countries during 1997. He has worked in various states of India as a consultant to Word Bank, USAID, IFAD. He was one of the expert team members for preparing the water master plan for Abu Dhabi Emirates, 2004-05. He has handled 15 international projects during 1990-2008. Currently he is the Director of the IWMI-Tata Water Policy Program at International Water Management Institute, South Asia Regional Office, Hyderabad. Also handling the more crop and income per drop program of the Ministry of Water Resources, GOI.
19.	Prof. D. Nagesh Kumar Indian Institute of Science (IISc), Bangalore 560 012	<p>Prof. D. Nagesh Kumar is working in the Department of Civil Engineering, Indian Institute of Science, Bangalore, since May 2002. Earlier he worked in IIT, Kharagpur (1994-2002) and NRSA, Hyderabad (1992-1994). He obtained Ph.D (Engg) from Indian Institute of Science, Bangalore, India in 1992. He visited Utah State University, USA in 1999 for 6 months on BOYSCAST fellowship.</p> <p>His research interests include Climate Hydrology, Water Resources Systems, ANN, Evolutionary Algorithms, Fuzzy logic, MCDM and Remote Sensing & GIS applications in Water Resources Engineering. He has published more than 100 papers in leading international journals and conferences in his research fields. He has co-authored a text book titled “Multicriterion Analysis in Engineering and Management” published by PHI.</p> <p>He is Associate Editor for ASCE Journal of Hydrologic Engineering. He is a member, Working Group on Climate Change, International Association of Hydraulic Engineering and Research (IAHR), Spain.</p> <p>He has been reviewer for more than 50 international journals including Water Resources Research and Journal of Hydrology.</p> <p>He is a Fellow of Institution of Engineers (India) and Indian Society for Hydraulics. He is a member of the ASCE, IAHS (UK), IS-MCDM (USA) and Indian Society of Remote Sensing.</p>
20.	Prof. Laksman Nandagiri NITK, Surathkal, Karnataka	Dr. Lakshman Nandagiri is Professor in the Department of Applied Mechanics & Hydraulics at the National Institute of Technology Karnataka, Surathkal. He possesses a Bachelor’s degree in Civil Engineering (Mysore University, 1983), Master’s degree in Hydraulics (Mysore University, 1986) and a Doctoral degree in Water Resources

		Engineering (IISc, 1994). His main areas of research interest are; surface water hydrology, hydrological modeling, vadose zone hydrology and irrigation & drainage engineering. He has to his credit over 80 technical papers in journals/conference proceedings and has guided 4 doctoral candidates and over 45 M.Tech/B.Tech dissertations. He has completed 5 R&D projects and several consultancy assignments in the area of Hydraulics and Water Resources Engineering and Remote Sensing/GIS.
21.	Dr. Srinivas V V Associate Professor, Water Resource and Environmental Engineering, Indian Institute of Science (IISc), Bangalore,	My area of expertise is surface water hydrology. Currently I am focusing on climate impact studies on hydrology of river basins, stochastic simulation of hydrometeorological variables, and estimation of design quantiles of hydrometeorological extreme events (rainfall, floods and low flows) in ungauged basins for use in water resources engineering.
22.	Sri Ramashesha C. S. Central Ground Water Board (CGWB)	Bachelors in Civil Engineering from the university of Mysore in the year 1971. Obtained post graduate training from Walling Ford Institute of Hydrology, UK. Intensive computer programming course from Indian Institute of Science, Bangalore. Completed course on economic analysis of water resources projects from Indian Institute of Public Administration, New Delhi. Over 37 years of valuable experience both national and international in the field of water resources development in particular in the field of ground water monitoring, survey investigation, exploration, development and management under different Hydro geological setups. Positions Held Commissioner (ground water) in the Ministry of Water Resources Member, Cntral Ground Water Board, New delhi Regional Director, South Eastern Region, Chennai Regional Director, South Western Region, Bangalore Additional Chief Engineer WAPCOS, New Delhi Technical and Economic Coperation(ITEC) Programme to identify 75 Irrigation and 100 power projects. Ground Water modelling Expert in the World Bank Assisted Gagger River Project covering Haryana, Punjab and Rajasthan. Expert , Suverna rekha World Bank Assited Project covering Orissa, Bihar and West Bengal. Carried out ground water investigations for Indira Gandhi International Airport, Delhi, Khetri copper mines, Khetri Gas Authority of India, Gujrat Over 60 national and international technical papers and reports to his credit
23.	Prof. Braun Jean-Jacques Senior Scientist IRD (Director of Research 1st class) Chairman LMI	Key expertise: surface geochemistry, chemical weathering, soil science, biogeochemical cycles ❖ Mass balance and transfer processes of organic and mineral matters in tropical ecosystems: from the small experimental

	<p>IFCWS/CEFIRSE Indo-French Cell for Water Sciences, Joint Laboratory IRD – IISc, Indian Institute of Science, Bangalore- 560012</p>	<p>watershed to the large river basin,</p> <ul style="list-style-type: none"> ❖ Geochemical tracers of weathering and hydrological processes in the critical zone (the life-sustaining layer that extends from the top of vegetation to the lower limits of groundwater at depth under soil), ❖ Study of climatic, anthropogenic, and tectonic forcing on chemical and physical weathering processes and impact of silicate weathering on atmospheric CO₂ consumption ❖ Metal cycling in soils (lanthanides, actinides, ...)
24.	<p>Dr. Ashok M. Raichur Indian Institute of Science (IISc), Bangalore 560 012</p>	<p>Water purification mainly drinking water, development of novel materials (synthesis and modification) including nanomaterials for better treatment of water, innovative technologies for using nanomaterials in water purification.</p>
25.	<p>Prof. Muddu Sekhar Indian Institute of Science (IISc), Bangalore</p>	<p>Specialisation: Hydrology and Water Resources Current Position: Associate Professor, Dept of Civil Engineering; Associate Faculty, Center for infrastructure, sustainable transportation and urban planning, IISc Bangalore, India. Years of Experience: 16 Educational professional Achievements: PhD in Engineering, Indian Institute of Science, 1993 Membership of Professional Societies and Institutions: Member, International Association of Hydrogeologists; Member, American Geophysical Union, Member, International Association for Hydrological Sciences & European Geophysical Union Research Areas: Groundwater hydrology, Urban groundwater, field-scale experiments in watershed hydrology, hydroclimatic & anthropogenic controls on groundwater, geospatial & geophysical methods. Key projects handled: Near surface soil moisture retrieval using RISAT SAR data and its assimilation for root zone soil moisture estimation at watershed scale (SAC, ISRO), 2010-2013. Validation of MT rain rate products and its application in hydrology in the Kabini river basin (SAC, ISRO), 2010-2013. Assimilation of remote sensing data for modeling the land surface fluxes at watershed scale using a distributed hydrological model (STC, ISRO), 2010-2012. An integrated study of hydrology and mineralogy for assessment of water quantity and quality in the sub-catchment/ watershed, (IRD, France), 2001-2012. Sustainable groundwater management in an urban environment. (Arghyam, an NGO), 2008-2011. Retrieval of root zone soil moisture from near-surface measurements, (STC, ISRO), 2008-2010. Hydro-bio-geochemical cycles in two experimental watersheds of South India. (CEFIPRA), 2005-2008.</p>

26.	<p>Dr. Shakeel Ahmed Team Leader (India) Indo-French Centre for Groundwater Research (IFCGR) & Dy. Director National Geophysical Research Institute, [CSIR], Hyderabad-500606, India Chairman: South Asia Regional Working Group on Hard Rock Hydrogeology of IAH</p>	<p>Dr. Shakeel Ahmed, with Master in geophysics from BHU, Varanasi, India and Doctorate from Ecole Nationale Supérieure des Mines de Paris, France joined National Geophysical Research Institute scientist in 1983.</p> <p>Dr. Ahmed has unique expertise of Advanced Aquifer Modeling and Geo statistics and supervised a number of master (more than 25 from India and 6 from France) and more than 17 doctoral theses including two French students, one Iranian and one Ethiopian. Dr. Ahmed has also the experience of organizing and participating to a number of International events. He has been the Associate Editor of the Hydrogeology Journal published by Springer, member of the Editorial Boards of the Jour. of Chemical and Environmental Research, Jour. Of Science Technology Education and Research, Jour. of Hydrology Science and Technology, Chairman, South-Asian Regional Working Group on Hard Rock Hydrogeology of IAH, member of Steering Committee of the UNESCO's GWADI-Asia program and led a scientific delegation to Tunisia. He is recipient of Young Scientist Award in Physical Sciences of 1996 from the MAAS, International Prize for Water Sciences, at Cannes Water Symposium, France in 2004 and National Mineral Award, Govt. of India, 2006. He is a fellow of Geological Society of India and National Environmental Science Academy.</p> <p>It was his effort to set up the first Indo-French Centre for Groundwater Research (IFCGR) at NGRI in 1999 with BRGM, France that he is still leading successfully. He has led a large number of International Projects funded by IFCPAR, UNESCO, ACIAR, ANR, EC and IAEA on groundwater hydrology. He was therefore, invited to deliver expert lectures to many countries abroad as well as most of the organizations in India.</p> <p>His main research interest is in the fields of Hard rock hydrogeology and groundwater management in F and As affected areas, development of optimal groundwater monitoring network using geostatistics for water level and quality measurement. He has more than 100 publications to his credit mostly published in high IF journals and edited four books and proceedings.</p>
27.	<p>Dr. Rajput T. B. S. Project Director Water Technology Centre Indian Agricultural Research Institute (IARI), New Delhi - 110012</p>	<p>I (DR. T B S Rajput) am currently Project Director of Water Technology Centre at Indian Agricultural Research Centre, New Delhi 110012. I have more than 150 publications including ten books and twenty bulletins in the field of agricultural water management with specific emphasis on enhancing water use efficiency at farmer's fields. I have supervised 10 MTech and Fifteen PhD students in Soil and Water Conservation Engineering.</p>

28.	<p>Dr. Gurnadha Rao V V S Scientist 'G' & Nodal Officer CSIR Network Project on Groundwater, Fellow Indian Geophysical Union Ecology & Environment Group, National Geophysical Research Institute, (Council of Scientific and Industrial Research) Hyderabad - 500 606</p>	<p>R&D experience in groundwater Flow modeling and Mass transport modeling for assessment of groundwater pollution over three decades (34 Yrs).</p> <p>Current interest include Ecological restoration of lakes around Hyderabad, Design of Infiltration Galleries in river bed for sustainable Water Sourcing to Industry,</p> <p>EIA Studies of Industrial Areas around Hyderabad and pesticide residues migration in groundwater in intense Agriculture Area in Punjab.</p> <p>Published more than 250 papers in Journals/proceedings and 50 Technical Reports. Aquifer modeling for assessment and management of groundwater resources including groundwater pollution in different geological terrain.</p> <p>Environmental Impact Assessment Studies:</p> <ul style="list-style-type: none"> • Ecological Restoration of Urban Lakes in and around Hyderabad city • Use of Information Technology for Sustainable Agriculture in Punjab (ITSAP), TIFAC, DST under UNDP program made Assessment of groundwater Quality from agricultural operations in Ludhiana and Muktsar districts, Punjab. • Ecological Study of Osmansagar and Himayatsagar Lakes, Hyderabad • Carrying Capacity Studies in four Watersheds of Visakhapatnam region, A.P. • Assessment of present status of Seawater Intrusion in Godavari Delta, A.P. • Design of Rain Gardens as Artificial recharges measures in Hyderabad International Air Port for sustainable groundwater supply • Sustainable Water Sourcing for Large Ultra Mega Thermal Power stations • Simulation of mass transport models in Patancheru and Bolaram IDAs due to effluent discharges from large number of chemical and Pharmaceutical industries • Assessment of impact of red mud ponds on groundwater resources from the Alumina plants, of HINDALCOs Belgaum, Karnataka and Muri Works, Jharkhand • Environmental Impact Assessment of industries in catchment areas of Manjira and Singur Drinking Water Supply reservoirs, A.P. • Environmental Impact Assessment of TSDF (Treatment, Storage and Disposal Facility) for disposal of Hazardous wastes in Hyderabad
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29.	<p>Prof. Elango L. Professor, Dept. of Geology, Anna University, Chennai (Madras) 600025</p>	<p>Vice President - IAHS International Commission on Water Quality Associate Editor - International Journal of Water Resources and Environmental Management</p> <p>Associate Editor - American Asso. of Petroleum Geologists' Journal of Environmental Geosciences (2003-2007)</p> <p>Associate Editor - International Asso. of Hydrogeologists' Hydrogeology Journal (2004-08)</p> <p>L Elango has expertise in subsurface charecterisation, hydrogeological field investigation, groundwater modelling and hydrogeochemistry. He has actively involved in a number of large research projects including those with international collaboration involving Australian Research Council, British Geological Survey and Russian Academy of Sciences. Currently he has four major research projects in the fields of radioactive transport modelling, land subsidence studies, fluoride in groundwater and effect of agrochemicals on groundwater quality. He has so far supervised 9 PhD studies in the field of hydrogeology. He is currently a Vice President of Commission on Water Quality of International Association of Hydrological Sciences.</p>
30.	<p>Dr. Shankar P A Director-Technology Filtrex Technologies Pvt Ltd</p>	<p>Filtrex Technologies Pvt Ltd is a pioneer in the manufacture of Carbon blocks using activated carbon. These blocks are extensively used in all water filtration devices used for the generation of potable water. Using its patented process the company manufactures carbon blocks of various sizes to meet the customer requirements. The carbon blocks vary in size from 4inch length to 30 inch length. The company has a manufacturing facility at Bangalore meetings the needs of the domestic and international markets. Its customers include Eureka Forbes, Philips, Kent RO of India and Brita, Dupont of USA. All these blocks have received NSF and WQA approvals.</p> <p>In collaboration with IISc the company has build a reactor to manufacture char from coconut shells and this reactor is located in coconut belt of Karnataka, Tiptur. This reactor, the first of its kind in the country, produces not only char but also gases which are used for power generation. Using this char the company manufactures activated carbon using rotary kilns and steam activation.</p> <p>The company has a strong R & D centre in Bangalore with state-of-the-art-research-facility for carrying out studies related to surface modification of activated carbon, plasma treatment of carbon for enhanced perofrmance, application of nanotechnology for removal of organics from drinking water.</p> <p>The company is actively involved in research colloborations with IISc, IIT-K, Plasma Institute, Ahmedabad, CECRI, Karaikudi.</p>

31.	<p>Dr. M. Prithviraj Executive Secretary Karnataka State Council for Science and Technology (KSCST), Bangalore – 12 Ph No - Off : 080 - 23341652 Res : 080-23461688 Mob: 94490 75162 Email: prithvi@kscst.iisc.ernet.in</p>	<p>Dr. M. Prithviraj, a Marine Geologist by training, had worked on the sediment characterisation and dynamics of the beach and near shore zone. While working in the Department of Space he engaged himself on the application of the satellite remote sensing techniques for coastal geomorphologic studies.</p> <p>At the Department of Science and Technology (DST), he evolved sub-programs on Coastal Zone Management and Conservation, Ground water modeling and promoted the technique of SAR Interferometry. He developed scientific manpower and established major national facilities for supporting research in earth sciences.</p> <p>When Tsunami hit the coast of India – he quickly evolved a program to understand the effects/ recovery of the eco-system.</p> <p>He was involved in the preparation of the mission document on 'National Mission on Sustaining Himalayan Ecosystem' – one of the eight national missions identified by the Government of India in the context of Climate Change mitigation initiatives.</p> <p>Dr. M. Prithviraj has to his credit a number of national and international publications and has participated in several symposia both in India and abroad and has presented papers. He is on several committees at the national level.</p>
32.	<p>Sri. A.R. Shivakumar Senior Fellow, KSCST Ph No - Off : 080 - 23341652 Mob: 9845212314 Email: ars@kscst.iisc.ernet.in</p>	<p>Principal Investigator – RWH and Scientist Lectures, Presentations and Programmes: 215 Publications & Reports : 30 Equipments / Process Developed: 7 Papers Presented Abroad: 5 Patents: 2 awarded, 3 awaiting award</p>
33.	<p>Dr. S.G. Srikanteshwara Swamy Fellow, KSCST, Bangalore Ph No - Off : 080 - 23341652 Mob: 94485 15976 Email: swamy@kscst.iisc.ernet.in</p>	<p>Working as Fellow in Karnataka State Council for Science and Technology and he has done his Ph.D., in Environment and Mining aspects in the Western Ghats Region of Karnataka. He is coordinating the Student Project Programme in Engineering Colleges of Karnataka. Further, he has involved in major projects as a Principal Investigator for Identification of Strategies for Mapping of Science and Technology needs in a state, Impact assessment on Soil and Water through Solid Waste Dumping Sites in Karnataka, Electronic Waste safe disposal, Demonstration and Scientific Evaluation of Stand alone water purification systems in Schools and Science and Technology out rich programmes for the school students. His special interest lies in environmental impact analysis and project planning, management and water conservation including promoting innovative ideas from the students and faculty members.</p>

34.	<p>Mr. H. Hemanth Kumar Fellow, KSCST, Bangalore Phone : 080 – 23341652 Mobile: 98457 07380 Email: hemanth@kscst.iisc.ernet.in</p>	<p>He is associated with Geo spatial technologies, Watershed Management and Minor Irrigation Tanks.</p>
35.	<p>Sri. U.T. Vijay Project Engineer KSCST, Bangalore Ph No - Off : 080 - 23341652 Res : 080-32922466 Mob: 98809 84766 Email: utv@kscst.iisc.ernet.in</p>	<p>A Civil Engineer by profession, has been involved in carrying out preparation of Action plan for Watershed development, Monitoring of watersheds, Evaluation of watershed development, Assessment of few Minor Irrigation Tanks, assessing the status of Kalyanis, Traditional Rain water Harvesting systems in Karnataka. While working in the Council he engaged himself on the application of the Geo-spatial technologies in Natural resources management and Infrastructure development for Rural decentralized planning.</p> <p>Co-investigator for development of Geo-portal and Spatial data Clearing house under Karnataka State Spatial Data Infrastructure(KSSDI) Project sponsored by Dept. of Science & Technology, Govt. of India and Govt. of Karnataka.</p> <p>Being part of Core group of State NRDMS Centre under “Natural Resources Data Management System(NRDMS)” Project initiated by Dept. of Science & Technology, Govt. of India and GOK, guiding and monitoring the implementation of Geospatial technologies at various districts of the state for decentralized planning by carrying out various GIS applications, technical reports and analysis, which are being utilized by the District administration, Zilla Panchayath, Line departments and Academic and Non government organizations.</p> <p>He has to his credit a number of national and international publications and has participated in several symposia both in India and abroad and has presented papers.</p>

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6. List of invited Indian Participants Associated with EU Projects

Sl. No	Name	Address of Serving Organisation Phone No. and Email Addresses	Area of Expertise
1.	Atul K. Mittal	Indian Institute of Technology Delhi - New Delhi Email: akmittal@civil.iitd.ac.in	Water Technologies
2.	Prof. Dr. Nayan Sharma	Indian Institute of Technology Kanpur – Kanpur Email: nayanfwt@gmail.com	River basin twinning, Water resources management
3.	Ms. Sunita Narain	Centre for Science and Environment - New Delhi Email: sunita@cseindia.org	Water Technologies
4.	Prof. K. V. Raju	Institute for Social and Economic Change, Bangalore Email: kvraju@isec.ac.in	River basin twinning, Water resources management
5.	Ms. Suruchi Bhadwal	The Energy and Resources Institute - New Delhi Email: suruchib@teri.res.in	Climate Change/ Himalayan glaciers
6.	Ms. Surbhi Sharma	ITSMA - Interactive Technology, Software and Media Association Email: surbhi@itsmaindia.org	Mapping of research excellence
7.	Dr. Rajeshwar Mishra	Centre for the Development of Human Initiatives – Jalpaiguri Email: rajeshwarmishra789@rediffmail.com	Sustainable management of resources
8.	Prof. Kapil Gupta	Indian Institute of Technology Bombay – Mumbai Email: kgupta@civil.iitb.ac.in	Risk, prevention and management of urban floods

7a. List of Invited Indian Participants for Indo-EU Workshop on Water Technology Research and Innovation Collaboration (WTRIC 2010)

Sl. No	Name, Phone No. and Email Addresses	Address of Serving Organisation
1.	Dr. S. Prabhakar Mobile: 9869018393, 9323183276 Off: 022-25594647 Res: 022-25567171 Fax: 022-25505151 Email: sprabha@barc.gov.in sprabha50@rediffmail.com	Former Scientist & Head Separation Technology Section, Desalination Division, Department of Atomic Energy, Bhabha Atomic Research Centre (BARC), Trombay, Mumbai
2.	Dr. Arunabha Majumder Mobile: 9830305218 Off: 033-24146161 Res: 033-22418508, 033-23372470 Fax: 033-22418508, 033-24146161 Email: arunabhamajumder@hotmail.com	Head, Department of Sanitary Engineering & Visiting Faculty, All India Institute of Hygiene & Public Health & Jadavpur University, 110 CR Avenue, Jadavpur University, Kolkata
3.	Dr. Sanjeev Chaudhari Mobile: 9833957855 Off: 022-25767855, 25768855, 25767851, 25767852 Fax: 022- 25764650 Email: sanjeev@iitb.ac.in , kartic@che.iitb.ac.in	Associate Professor, Centre for Engineering Science, Indian Institute of Technology (IIT- Bombay), Powai, Mumbai- 400 076
4.	Dr. Leela Iyengar Email: leela.iyengar@gmail.com	Adjunct Professor Centre for Postgraduate Studies Jain University, Bangalore
5.	Dr. A.Q. Contractor Mobile: 9899807691 Off: 022-25767170, 7151, 4193 Res: 022-25701659 Fax: 022-25767152 Email: aqcontractor@iitb.ac.in	Professor, Department of Chemistry, Indian Institute of Technology-Bombay, Powai, Mumbai
6.	Dr. Ram Gopal Mobile: 9413327502 Off: 07422- 239111, 12 Res: 07422- 239114 Fax: 07422- 239113 Email: drramgopal@sify.com , drramgopal@mitmandsaur.info	Director and Chairman, BRNSS Research Council, Former Director (DRDO Retd.) Mandsaur Institute of Technology, Rewas Devda Road, Mandsaur Madhya Pradesh 458 001

7.	Dr. Purnima Jalihal Off: 044- 6678 3350 Res: 044- 2257 0161, 2257 6418 Fax: 044- 6678 3335, 2246 0645, 2246 0275 Email: purnima@niot.res.in	Project Director, Scientist F NIOT Campus, Velachery- Tambaram Main Road, Pallikaranai, Chennai- 600 100
8.	Dr. K. Vijaya Lakshmi Mobile: 9871439649 Off: 2613-4103, 2689-0380, EPABX : 2613-4103 Extn. 273 Fax: 011- 26130817 Email: tara@devalit.org , kvijayalakshmi@devalit.org koneru.vl@gmail.com	Vice President & Head of Innovation Systems Branch Development Alternatives 111/ 9 - Z, Kishangarh Vasant Kunj, New Delhi – 110 0070
9.	Dr. S. Khuntia Mobile: 94370 12679 Email: khuntias@gmail.com , khuntias@yahoo.com	Scientist G & Head Design & Rural Technology Department IMMT (CSIR), Bhubaneswar-751013, Orissa
10.	Dr. K. Ulhas Kharul Mobile: 9325093961 Off: 020-25902180- 3 Fax: 020- 2590 2618-5 Email: uk.kharul@ncl.res.in	Scientist, Polymer Science & Engineering Division, National Chemical Laboratory (NCL), Dr. Homi Bhabha Road, Pune Maharashtra 411 008
11.	Dr. Tata Narasimha Rao Email: tata Narasinga Rao tatanrao@gmail.com	ARCI, Hyderabad, Andhra Pradesh
12.	Dr. Pawan Labhasetwar Off: 712-2243797 Fax: 712-2249756 Email: Pawan Labhasetwar pk labhasetwar@neeri.res.in	Scientist and Head, Geo-environment Management Division NEERI, Nehru Marg Nagpur - 440 020, Madhya Pradesh
13.	Dr. P. K. Subramanian Off: 044-24349519, 24349542 Fax: 044-24341753 Email: pksubramanian@cpcl.co.in	Deputy General Manager, Chennai Petroleum Corporation Limited (CPCL) No:536, Anna Salai, Teynampet Chennai 600 018
14.	Dr. K.M. Paknikar Mobile: 9823087687 Off: 020-25653680 Ext.372 Res: 020-25285536 Fax: 020-25651542 Email: kpaknikar@gmail.com	Dr. K.M. Paknikar, Head, Centre for NanoBioscience, Agharkar Research Institute, GG Agarkar Road, Pune
15.	Mr. Kiran Deshpande Email: kdeshpande@thermaxindia.com	D-13, MIDC Industrial Area R D Aga Road, Chinchwad, Pune, Maharashtra 411 019
16.	Dr. N Verma Off: 512- 259 6524 Fax: 512-2590063 / 2590260 Email: nishchal@iitk.ac.in	Assistant Professor Department of Electrical Engg. Indian Institute of Technology, Kanpur, Uttar Pradesh

17.	Dr. Ligy Philip Off: 044-22574274 Res: 044- 22576274 Fax: 044-22574252 Email: ligy@iitm.ac.in	Associate Professor, Dept. of Civil Engineering, Indian Institute of Technology Madras, Chennai – 600 036
18.	Prof. T. Swaminathan Off: 44-22574166, 22575166 Fax: 44-22574152, 22570509 Email: tswami@iitm.ac.in	Department of Chemical Engineering Indian Institute of Technology (IIT- Madras), Chennai - 600 036,
19.	Prof. A. B. Gupta Mobile: 94144 63066 Off: 141-2713259, 2529062 Res: 141- 2529060	Malaviya National Institute of Technology (MNIT), JLN Marg, Jaipur, Rajasthan- 302017
20.	Dr. N. Venkateshwara Rao Mobile: 9177313135 Off: 040- 23884546, 2388 4251 Fax: 040- 23875932, 23550211 Email: vvrao@nrsdc.gov.in	Head (WR Division), Indian Space Research Organisation (ISRO), Balanagal, Hyderabad- 500 625, Andhra Pradesh
21.	Prof. G. T. Chandrappa Off: 080-22961350 Fax: 080-22961350 Email: gtchandrappa@yahoo.co.in	Associate Professor Department of Chemistry Central College Campus Bangalore University, Bangalore-560001
22.	Dr. TNVV Rao Mobile: 9611809032 Off: 80-41384400 Fax: 80-28413759 Email: tnvv.rao@gmail.com	Regional Head - Water Business UL India Pvt. Ltd Underwriters Laboratories Kalyani Platina, 3rd Floor, Block I, No. 24, EPIP Zone, Phase II Whitefield, Bangalore Karnataka- 560 066
23.	Dr. Debabrata Rautaray Off: +91-20-6654 9723 Fax: +91-20-6654-9735 Email: drautaray@tatachemicals.com	Tata Chemicals Innovation Centre, Mumbai, Maharashtra
24.	Prof. M. Sudhakar Rao Email: msrao@civil.iisc.ernet.in	Professor, Department of Civil Engineering, Centre for Sustainable Technology, Indian Institute of Science (IISc), Bangalore Karnataka 560 012
25.	Prof. Giridhar Madras Email: giridhar@chemeng.iisc.ernet.in	Indian Institute of Science (IISc), Bangalore Karnataka 560 012
26.	Prof. R. Shaktivadivel Mobile: 9444468310 Email: saktivadivelr@yahoo.com	Faculty of Civil Engineering, Centre for Water Resources, Anna University, Chennai – 600 025, Tamil Nadu
27.	Dr. Shashi Mathur Email: smathur@civil.iitd.ernet.in	Professor, Department of Civil Engineering, IIT Delhi

28.	Dr. Kapil Gupta Mobile: 9820409433 Off: 022-2576 7324 Email: kgupta@civil.iitb.ac.in	Professor, Department of Civil Engineering, Indian Institute of Technology (IIT- Mumbai), Mumbai, Maharashtra- 400 076
29.	Prof. P Rajendra Prasad Mobile: 9701155589 Off: 0891- 2575500 Res: 0891- 2755589 Email: rpatury@yahoo.com	Vishakapattanam Andhra University
30.	Dr. P. B. Ramamurthy Off: 22945100 Email: chairman@bwssb.org	Chairman, Board of Water Supply Sewage of Bangalore (BWSSB)
31.	Prof. Vishwas Kale Off: 20-25601247 Res: 20-25436847 Email: vskale@unipune.ernet.in	Department of Geography, University of Pune, Ganeshkhind Road, Pune - 411 007 Maharashtra
32.	Dr. Himanshu Kulkarni Off: 020-5532344 Email: himan_6@hotmail.com	Hon. Secretary, Advance Centre for water Recourse Development and Management, Plot No.4, Lenyadri Cooperative Housing, Sus Road, Pashan Pune- 411 021 , Maharashtra
33.	Dr. Vivek Kale Email: vivekkale@pn2.vsnl.net.in	Advance Centre for water Resourse Development and Management, Plot No.4, Lenyadri Cooperative Housing, Sus Road, Pashan Pune- 411 021, Maharashtra
34.	Dr. Anjana Vyas Email: anjanavyas@cept.ac.in	Centre for Environment Planning and Technology (CEPT), Kasturbhai Lalbhai Campus, Univesity Road, Ahmedabad- 380009, Gujarat
35.	Dr. Janardan Raju Email: rajuni@mail.jnu.ac.in	School of Environmental Science (SOES), JNU
36.	Dr. N. Sahoo	DWM, Indian Council of Agricultural Research (ICAR),
37.	Dr. Amal Kar Off: 291 2786534 Email: amalkar@cazri.res.in	Head, Division of Natural Resources & Environment Central Arid Zone Research Institute (CAZRI) Jodhpur - 342003, Rajasthan
38.	Dr. Vikrant Jain Mobile: 9958606154 Off: 27667725 Fax: 011-27666295 Email: vjain@geology.du.ac.in , vikrantgeo@gmail.com	Department of Geology, Centre of Advanced Studies, Delhi University, Delhi-7 University of Delhi Delhi-110 007.
39.	Dr. N. C. Ghosh (01332) – 272906-09 Extn. 219 Email: ncg@nih.ernet.in	Scientist – F & Organizing Secretary National Institute of Hydrology, Roorkee

40.	Sri M. N. Thippeswamy Email: mntswamy@hotmail.com	Chief Engineer (Rted), BWSSB,
41.	Dr. Manoj Khanna Off: 011-25846790 Email: mkhanna@iari.res.in	Senior Scientist at WTC, Indian Agricultural Research Institute (IARI), New Delhi
42.	Dr. M. Gopalakrishnan Off: 011- 2611 6837, 2611 5679 Fax: 011- 2611 5962 Email: icid@icid.org , M Gopalakrishnan gopal_sgicid@yahoo.co.in	Secretary General, International Commission on Irrigation and Drainage (ICID), 48 Nyaya Marg Chanakyapuri, New Delhi 110 021
43.	Dr. A.K. Gosain Off: 011- 2686 1977 Email: gosain@civil.iitd.ernet.in	Professor, Department of Civil Engineering, Indian Institute of Technology-IIT- Delhi-110016
44.	Dr. Ranbir Chhabra Mobile: 09416031517 Email: Ranbir Chhabra chhabra1945@gmail.com	Central Soil Salinity Research Institute (CSSRI), Karnal
45.	Prof. M. S. Mohan Kumar Off: 080- 2293 2814, Res: Email: msmk@civil.iisc.ernet.in	Professor, Department of Civil Engineering, Indian Institute of Science (IISc), Bangalore- 560 012
46.	Dr. A. V. R. Reddy Off: 0278 25665111 Email: avreddy@csmcri.org	Scientst E-II, Head, Reverse Osmosis Membrane Division, CSMCRI, Bhavnagar- 364 002, Gujarat
47.	Dr. R. Selvakumar Off: 0422- 4344000 Ext 4104 Fax: 0422- 2573833 Email: rsk@ias.psgtech.ac.in , selvabiotech@gmail.com	Nano Biotechnology Group, PSG Institute of Advanced Studies, Peelamedu, Coimbatore- 641 004, Tamil Nadu
48.	Dr. C Ananda Babu Off: 044-27480240/ 27480234 Fax: 044-27480060/27480301 Email: cababu@iqcar.gov.in	Scientist H, Indira Gandhi Centre for Atomic Research, Kalpakkam- 603 102
49.	Shri. A. Gurunathan Off: 0452-2601673 Fax: 0452-2602247 Email: a.gurunathan@dhan.org , dhanfoundation@dhan.org	Chief Executive, HHAN (Tank) Foundation, 18-Pillayar Koil Street, Madurai-625010
50.	Dr. K Palanisami Off: 040-30713732 Fax: 040-30713074 Email: k.palanisami@cgiar.org	Director, International Water management Institute-Tata Programme, South Asia Regional Office, 405/1, care of ICRISAT, Patancheru-502324 Andhra Pradesh
51.	Dr. V Selvam Off: 04144-238509 Email: vselvam@hotmail.com	Sr Director, MS Swaminathan Research Foundation, 322-Mariappa nagar North (2nd Main Road), Annamalai Nagar-608002 Tamil Nadu

52.	Prof. D. Nagesh Kumar Email: nagesh@civil.iisc.ernet.in	Department of Civil Engineering, Indian Institute of Science (IISc), Bangalore
53.	Prof. A. Ramakrishna Rao Email: ark@civil.iisc.ernet.in	Department of Civil Engineering, Indian Institute of Science (IISc), Bangalore
54.	Dr. Porst Email: jporst@gmx.net	GTZ-HAWA Bangalore, Karnataka
55.	Prof. Laksman Nandagiri Email: lnand@rocketmail.com	NITK, Surathkal, Karnataka
56.	Dr. Monto Mani Email: monto@astra.iisc.ernet.in	CST, Indian Institute of Science (IISc), Bangalore Karnataka 560 012
57.	Dr. V V Srinivas Email: vvs@civil.iisc.ernet.in	Dept. of Civil Engineering Indian Institute of Science (IISc), Bangalore- 560 012
58.	Dr. G. S. Bhat Email: bhat@caos.iisc.ernet.in	Indian Institute of Science (IISc), Bangalore-560 012
59.	Dr. U. C. Kotiyarii Email: umeshfce@iitr.ernet.in	Indian Institute of Technology- Roorkee, Uttarakhand
60.	Sri. Ramashesha Email: cs_ramashesha@yahoo.com	Commissioner (Rtd) Central Ground Water Board (CGWB)
61.	Dr. S. K. Gupta Email: skgupta@prl.res.in	PRL, Ahmedabad
62.	Prof. Braun Email: jjbraun1@gmail.com	Chairman, Indo-French Cell
63.	Dr. A. M. Raichur Email: amr@materials.iisc.ernet.in	Dept. of Materials Engineering Indian Institute of Science (IISc), Bangalore Karnataka 560 012
64.	Prof. M. Sekhar Email: muddu@civil.iisc.ernet.in	Dept. of Civil Engineering Indian Institute of Science (IISc), Bangalore Karnataka 560 012
65.	Prof. S. Subramanian Email: ssmani@materials.iisc.ernet.in	Dept. of Materials Engineering Indian Institute of Science (IISc), Bangalore Karnataka 560 012
66.	Prof. K.S. Hariprasad Email: suryafce@iitr.ernet.in	Indian Institute of Technology- Roorkee, Roorkee, Uttarakhand
67.	Dr. Pradeep Mujumdar Email: pradeep@civil.iisc.ernet.in	Dept. of Civil Engineering Indian Institute of Science (IISc), Bangalore Karnataka 560 012
68.	Prof.C. S. Manohar manohar@civil.iisc.ernet.in	Dept. of Civil Engineering Indian Institute of Science (IISc), Bangalore Karnataka 560 012
69.	Dr. S. K. Subramanian Email: manian_sks@nrsc.gov.in	NRSC ISRO Department of Space Hyderabad

70.	Dr.M.V.Shashirekha Email: mvshashirekha@yahoo.co.in	Chief Chemist Dept. of Mines & Geology Govt. of Karnataka Bangalore
71.	Dr.Shakeel Ahmed Email: shakeelahmed@ngri.res.in	Scientist National Geographic Research Institute(NGRI) Hyderabad
72.	Dr.V.V.Gurunanda Rao Email: gurunandarao@ngri.res.in	Scientist National Geographic Research Institute(NGRI) Hyderabad
73.	Dr.H.N.Chanakya Email: chanakya@astra.iisc.ernet.in	CST, Indian Institute of Science (IISc), Bangalore Karnataka 560 012
74.	Dr. K H V Durga Rao Scientist	NRSC ISRO Hyderabad
75.	Sri P V Raju Scientist	NRSC ISRO Hyderabad
76.	Dr T. B. S. Rajput Email: tbsraj@iari.res.in	Project Director Water Technology Centre, Indian Agricultural Research Institute, New Delhi
77.	Dr Ashwani Kumar Director Tel-0674 2300060 Fax-0674 2301651 Email : ashwani_wtcer@yahoo.com	Directorate of Water Management (Formerly Water Technology Centre for Eastern Region) C S Pur, Bhubaneswar-751023
78.	Dr.L.Elango Tel:(W)91-44-22358445 (H)91-44-24418031 elango34@hotmail.com elango@annauniv.edu	Professor Dept. of Geology Anna University Chennai - 600025
79.	Dr. K.M. Paknikar Tel. +91-20-25653680 Extn 372 Fax +91-20-25651542 kpaknikar@gmail.com	In- Charge, Centre for Nano bioscience Agharkar Research Institute GG Agarkar Road Pune 411004, India
80.	Dr. Raghavenda	Regional Co-ordinator DHAN Foundation Mysore, Karnataka

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7b. List of invited DST Participants for Indo-EU Workshop on Water Technology Research and Innovation Collaboration (WTRIC 2010)

Sl. No	Name	Address of Serving Organisation
1.	Dr D R Prasada Raju	Scientist-G/Adviser & Head (TMC) Department of Science and Technology New Delhi-110016 Tel: 011-26868242/26590296 , Fax: 011-26510686 Email: drpraju@nic.in
2.	Dr Akhilesh Gupta	Adviser/ Scientist-G Coordinator- Climate Change Programme Room No 10, Admin. Block Department of Science & Technology Technology Bhavan, New Delhi-110 016, INDIA Phone: +91-11-26590241,Telefax: +91-11-26522815 Email: gakhilesh2002@yahoo.co.in , akhilesh.g@nic.in
3.	Dr. Anil K Sood	Head International Cooperation Department of Science & Technology N. Delhi - 110016 Tel : 91-11- 26961912,Fax : 91-11-2686 2418 Email: drak.sood@nic.in
4.	Sadhana Relia	Adviser/Scientist G, International Cooperation Division Department of Science& Technology (DST) New Delhi-110016 Tel: 011-26602216,Mob. 9810566412,Fax: 011-26862418 Email: srelia@nic.in
5.	Sanjay Bajpai	Director/ Scientist 'F' Technology Mission Cell Department of Science & Technology Technology Bhavan, New Mehrauli Road New Delhi- 110016 Tel : 011-26590283, Fax : 011-26565337 Email: sbajpai@nic.in
6.	Vineet Saini	Scientist 'C' Room no. 5, Hall J , Ministry of Science and Technology, New Delhi-110016 Phone: 26590372

7c. List of invited KSCST Participants for Indo-EU Workshop

Sl. No	Name	Address of Serving Organisation
1.	Dr. M. Prithviraj	Executive Secretary, KSCST, Bangalore – 12 Ph No - Off : 080 – 23341652 Res : 080-23461688 Mob: 94490 75162, Email: prithvi@kscst.iisc.ernet.in
2.	Sri. A.R. Shivakumar	Senior Fellow, KSCST, Bangalore – 12 Mob: 9845212314, Email: ars@kscst.iisc.ernet.in
3.	Dr. S.G. Srikanteshwara Swamy	Fellow, KSCST, Bangalore – 12 Mob: 94485 15976, Email: swamy@kscst.iisc.ernet.in
4.	Sri. H. Hemanth Kumar	Fellow, KSCST, Bangalore – 12 Mob: 98457 07380, Email: hemanth@kscst.iisc.ernet.in
5.	Sri. S.N. Sondur	Fellow, KSCST, Bangalore – 12 Mob: 98806 97562, Email: sns@kscst.iisc.ernet.in
6.	Sri. U.T. Vijay	Project Engineer, KSCST, Bangalore – 12 Res : 080-32922466 Mob: 98809 84766, Email: utv@kscst.iisc.ernet.in
7.	Sri. H.R. Phalanetra	Fellow, KSCST, Bangalore – 12 Mob: 94489 57488, Email: netra.hrp@gmail.com
8.	Sri. K.V. Shivakumar	Project Engineer, KSCST, Bangalore – 12 Mob: 98459 85968, Email: kumarkv.1958@gmail.com
9.	Sri. D.R. Ramesh	Scientist – B, KSCST, Bangalore – 12 Mob: 97410 11636, Email: ramesh_1158@hotmail.com
10.	Sri. Anil R Naik	KSCST, Bangalore – 12 Mob: 94481 00413, Email: anilnaik@gmail.com
11.	Sri. G. Ravishankar	Fellow, KSCST, Bangalore – 12 Mob: 99003 99427, Email: grs14@rediffmail.com
12.	Sri. S.N.Jayaram	KSCST, Bangalore – 12 Res : 080-32922466 Mob: 9242965655, Email: sni@kscst.iisc.ernet.in
13.	Sri. K.N.Venkatesh	KSCST, Bangalore – 12 Mob: 9241241433, Email: knv@kscst.iisc.ernet.in

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