NETWORKING CAFÉ
EU - India S&T Cooperation Days 2012

8th - 9th of November
Hyderabad India

EU-India STI Cooperation Days
8-9 November 2012, Hyderabad
www.euindiacoop.org/2012

PARTICIPANTS CATALOGUE

This event is co-financed by the European Commission through the involvement of several projects.

A joint event organized by

Hosted by National Geophysical Research Institute (NGRI- CSIR).

PARTICIPANTS List

r	First Name	Last Name	Organisation	Country	Scientific Conference	Networking (8th)	Networking (9th Morn)	Networking (9th After)	Poster Session	TTBO Session
1	Bodil	Palmberg	Europa Media	Hungary	♦					
2	Marie-Alix	Riou	CNRS	France	♦		♦			
3	Eddy	Moors	Wageningen UR - Alterra	Netherlands	♦			♦	♦	♦
4	Mohan	Kandaswamy	Oriental Aquamarine Biotech India Private Limited	India		♦	♦	♦		♦
5	Rima	Biswas Mondal	National Environmental Engineering Research Institute (NEERI)	India	♦	♦	♦	♦	♦	
6	Dr Nitai	KUNDU	Dr Nitai Kundu	India	♦	♦	♦	♦		
7	Francesca Maria	Giorgio	Tecnopolis	Italy	♦	♦	♦	♦	♦	♦
8	Mira	Petrovic	ICRA Catalan Institue for Water Research	Spain	♦	♦		♦		
9	diego	liberati	national research council of italy	Italy	♦	♦	♦	♦	♦	♦
10	Dr. Sudip	Chakraborty	University of Calabria	Italy	♦	♦	♦	♦	♦	
11	Vivek	Ranade	National Chemical Laboratory	India	♦				♦	♦
12	Leelavinothan	Pari	Annamalai University	India	♦	♦	♦	♦	♦	
13	Eleni	Psychari	Observatoire des Sciences et des Techniques (OST)	France	♦					♦

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16	Cosima	Blasy	Centre for Social Innovation	Austria	♦				♦	♦
17	Antonio	ZUORRO	Sapienza - University of Rome	Italy	♦	♦	♦	♦	♦	♦
18	Ignasi	Rodriguez-Roda	ICRA Catalan Institute for Water Research	Spain	♦				♦	
19	BEGOÑA	BENITO BARAJAS	GAIA	Spain	♦					♦
20	Ganesh	Patil	Arts, Commerce & Science College, Nandgaon	India	♦	♦	♦		♦	♦
21	Ursina	Roder	EPFL	Switzerland	♦					♦
22	Sankar Ganesh	Palani	Birla Institute of Technology and Science, Pilani, Hyderabad Campus	India	♦	♦			♦	♦
23	Seshagiri Rao	Ambati	National Institute of Technology	India	♦		♦		♦	♦
24	Rabidyuti	Biswas	School of Planning and Architecture, New Delhi	India	♦	♦	♦	♦		
25	Elango	Lakshmanan	Anna University	India	♦		♦			
26	Jasveen	Jairath	SAVE OUR URBAN lAKES (SOUL), HYDERABAD	India	♦		♦			
27	Madalena	Alves	University of Minho	Portugal	♦			♦		♦

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30	Mehul	Vesvikar	BIOMATH, Ghent University	Belgium	♦	♦	♦	♦	♦	♦
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32	karolien	vanbroekhoven	VITO	Belgium	♦	♦	♦		♦	♦
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34	Thomas	Maere	BIOMATH (Ghent University)	Belgium	♦				♦	
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45	Anuj	Tripathi	Bhabha Atomic Research Center	India	♦	♦	♦	♦	♦	♦
46	Dr.Suresh Kumar	Agarwal	Institute of Education,Research and Development	India	♦	♦	♦			♦
47	N	ARLAPPA	National Institute of Nutrition (NIN)	India	♦					
48	Gangadhar	Taduri	Nizams Institute of Medical Sciences	India	♦	♦				♦
49	Mahipal Reddy	Benjaram	Indian Institute of Chemical Technology	India	♦	♦	♦	♦		
50	Chaitanya	Billakanti	Jawaharlal nehru Technological university	India	♦	♦	♦	♦	♦	♦
51	Raman	Saravanane	Pondicherry Engineering College	India	♦		♦	♦	♦	♦
52	Santosh	Bothe	Daksh Foundation	India	♦		♦		♦	♦
53	Javid	Parray	University of Kashmir	India	♦	♦	♦	♦	♦	
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76	Dr.Venkata Ravibabu	Mandla	VIT University	India	♦	♦	♦	♦	♦	♦
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100	Chandrakanth	Gadipelly	Institute of Chemical Technology	India	♦	♦	♦	♦	♦	
101	Vineet	Saini	Department of Science and Technology (DST)	India	♦	♦	♦	♦		
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109	Nazish	Rana	CSIR-National Geophysical Institute	India	♦					
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121	Nilesh	Jaiswara	NGRI	India	♦	♦	♦	♦		
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146	Pinki	Hazarika	National Geophysical Research Institute	India	♦					
147	k	Sushini	National Geophysical Research Institute	India	♦					
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150	MAHAK SINGH	CHAUHAN	NGRI	India	♦					
151	RAJ	KUMAR	NGRI	India	♦					
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164	sachin	halgode	college of engineering pune	India	♦	♦	♦		♦	
165	sachin	halgode	college of engineering pune	India	♦	♦	♦		♦	
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168	Ratnakar	Dhakate	National Geophysical Research Institute	India	♦	♦	♦	♦		
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176	PRADIP	MAURYA	NATIONAL GEOPHYSICAL RESEARCH INSTITUTE	India	♦					
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178	Serena	Borgna	APRE	Italy	♦	♦	♦	♦	♦	♦
179	Martina	Desole	APRE	Italy	♦	♦	♦	♦	♦	♦

NETWORKING CAFÈ

Participants profile

This event is co-financed by the European Commission through the involvement of several projects.
A joint event organized by
Hosted by National Geophysical Research Institute (NGRI- CSIR).

BIOMATH (Ghent University)

Organisation

Address	Coupure Links 653 B-9000 Gent Belgium
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Phone	
Org. Type	University

Participant Details

Name	Thomas Maere
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Organisation Details

The mission of BIOMATH is to develop and apply mathematical methods for the analysis, understanding and optimization of bioprocess-related systems. More specifically, quantitative model-based methodologies for these biological systems are developed and used to support of a variety of priority areas: industrial biotechnology, environmental biotechnology, wastewater treatment, software development, management of natural water bodies, pharmaceutical systems, and food process technology. More information can be found on http://biomath.ugent.be/

Areas of Activity

Cooperation Profiles

BIOMATH, Ghent University

Organisation

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Participant Details

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Organisation Details

The BIOMATH research unit assists in the development of mathematical models by interpreting experimental results and combining this with in-depth knowledge of the processes by the domain experts.
Furthermore, expertise with regard to the following methodologies can be consulted (contact Prof. Ingmar Nopens):

Model development and calibration/validation
Model-based process optimisation
Sensitivity Analysis (local and global)
Uncertainty Analysis
Optimal Experimental Design (OED)

Areas of Activity

Cooperation Profiles

BIOMATH, Ghent University

Organisation

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Participant Details

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Organisation Details

BIOMATH (Ugent) is a research group that deals with model-based analysis and optimisation of bioprocesses. The group is composed of about 20 people (PhD and post-doc level) and deals with advanced modelling of wastewater treatment systems.

Areas of Activity

Cooperation Profiles

model-based optimisation of wastewater treatment processes

Description/abstract (project idea, main goals):

improve the cost-effectiveness of wastewater treatment systems

Innovative aspects and main advantadges / benefits:

lower cost operation of facilities, still reaching its permit requirements

Target partner sought (Expertise, Type, Country):

utilities responsible for wastewater treatment

Current stage of development:

detailed knowledge about process modelling and modelling methodologies available

KU Leuven

Organisation

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Organisation Details

We suggest to present your organisation in general, its history, products and services, and clients. Details about your specific research cooperation offer/demand should be inserted in the cooperation profile which follows on the next page.

Areas of Activity

Cooperation Profiles

Study and remediation of membrane biofouling

Membrane bioreactors (MBRs) are commonly used for the biological treatment of wastewater. MBRs are a new generation technology for wastewater treatment. They combine biological treatment by activated sludge with water separation by membrane filtration. One of the major drawbacks of MBR is the membrane fouling. Fouling is the result of interactions between the activated sludge microorganisms and the membrane surface, leading to biofilm development. Biofilm enables aggregation of other sludge or wastewater components (i.e. minerals) on the membrane surface which consequently form a dense cake layer, significantly declining the membrane performance and in general the MBR efficiency. This doctoral thesis aims to get insight into the membrane biofouling problem in order to prevent and reduce this potential challenge.

VITO

Organisation

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Participant Details

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Organisation Details

VITO - Flemish Institute for Technological Research - is a contract research organization that implements client-driven research projects and develops innovative products and processes. The multidisciplinary skills and technological know-how of more than 600 researchers make this organization a crossroads of technology, where state-of-the-art technologies are successfully blended into practical applications. The business unit **Separation and Conversion Technology (SCT)** has organized its strategic research program around the theme „Sustainable Chemistry". The unit has specific experience, a 20-year long tradition and an international reputation in the field of water treatment and membrane –based **separation** technology, ranging from membrane development to process design and pilot testing. VITO holds several patents on innovative membrane concepts and has a strong collaboration with industry. The research team on Water is specialised in industrial water saving studies and in pilot testing and demonstration projects on innovative water treatment concepts. For this purpose, VITO is equipped with lab and pilot test infrastructures, including MF/UF, RO/NF, MBR, ED and membrane distillation. With respect to **conversion** processes, past and ongoing research activities in the field of fermentation processes (whole cell biocatalysts) focus on in situ product recovery (ISPR) using available strains. The unit SCT has experience on design and operation of units, on the use of pure substrates as well as organic waste streams, on batch and continuous processes, sterile and non-sterile operating conditions and individual or coupled set-ups. Next to whole cell biocatalysis, we are currently investigating a general approach for the process intensification of enzymatic reactions. Our approach consists of using available enzymes and combining them with tailored membranes/electrodes using different immobilization technologies like plasma (patented) and crosslinking using mixed matrix membranes. More recently, **bioelectrochemical conversions** are studied as an emerging technology for energy-efficient wastewater treatment.

On the European level, VITO can rely on a broad academic and industrial network. VITO is founding member of the EMH (European Membrane House) and is member of the WssTP (Water Supply and sanitation technology platform). VITO has a track record of over 100 bilateral projects with industry and participated in several relevant European research projects as coordinator (e.g. FP7 Aquarehab, FP7 Nametech) or as partner (FP7 Reapower, FP7 Aquafit4use, FP6 Amedeus, FP6 Space2Tex, FP6 P-Three, FP5 Space2tex). Complementary, VITO has specific experience towards innovation projects with SMEs, both on the regional level in Flanders (dedicated activity on Promotion and Demonstration of Environmentally friendly technologies for SMEs) as on the European level (FP7 Hifre, FP7 SOLVER, FP6 CA Prodests).

Areas of Activity

Cooperation Profiles

Research Organization expert in Conversion (mainly biochemical) and Separation technologies (mainly membrane based)

Description/abstract (project idea, main goals):

VITO is a research organization active carrying out research projects (lab to pilot schale) and bilateral contracts in field of valorization of waste/side streams, renewable chemicals, process intensification and water reuse/valorization. Main strengths are demonstrating technological and economical feasibility of innovative processes/concepts like algae harvesting using membrane based technology, 5 x higher biochemical production in a similar reactor, enzymatic conversion process and simultaneous removal of products, energy efficient desalination technologies for water.

Innovative aspects and main advantadges / benefits: developing sustainable processes, energy -efficient technologies combining salt recovery, metal recovery, product synthesis using waste(water) or CO2.

Target partner sought (Expertise, Type, Country):

end-users of the developed technologies, companies that want to upscale from pilot to full scale, research institutes/universities to define joint programmes

Current stage of development:

depending on technology, proof-of-concept at lab scale to pilot demonstration

VITO

Organisation

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Email	ludo.diels@vito.be

Organisation Details

VITO - Flemish Institute for Technological Research - is a contract research organization that implements client-driven research projects and develops innovative products and processes. The multidisciplinary skills and technological know-how of more than 600 researchers make this organization a crossroads of technology, where state-of-the-art technologies are successfully blended into practical applications. The business unit**Separation and Conversion Technology (SCT)** has organized its strategic research program around the theme „Sustainable Chemistry". The unit has specific experience, a 20-year long tradition and an international reputation in the field of water treatment and membrane –based **separation** technology, ranging from membrane development to process design and pilot testing. VITO holds several patents on innovative membrane concepts and has a strong collaboration with industry. The research team on Water is specialised in industrial water saving studies and in pilot testing and demonstration projects on innovative water treatment concepts. For this purpose, VITO is equipped with lab and pilot test infrastructures, including MF/UF, RO/NF, MBR, ED and membrane distillation. With respect to **conversion** processes, past and ongoing research activities in the field of fermentation processes (whole cell biocatalysts) focus on in situ product recovery (ISPR) using available strains. The unit SCT has experience on design and operation of units, on the use of pure substrates as well as organic waste streams, on batch and continuous processes, sterile and non-sterile operating conditions and individual or coupled set-ups. Next to whole cell biocatalysis, we are currently investigating a general approach for the process intensification of enzymatic reactions. Our approach consists of using available enzymes and combining them with tailored membranes/electrodes using different immobilization technologies like plasma (patented) and crosslinking using mixed matrix membranes. More recently,**bioelectrochemical conversions** are studied as an emerging technology for energy-efficient wastewater treatment.

On the European level, VITO can rely on a broad academic and industrial network. VITO is founding member of the EMH (European Membrane House) and is member of the WssTP (Water Supply and sanitation technology platform). VITO has a track record of over 100 bilateral projects with industry and participated in several relevant European research projects as coordinator (e.g. FP7 Aquarehab, FP7 Nametech) or as partner (FP7 Reapower, FP7 Aquafit4use, FP6 Amedeus, FP6 Space2Tex, FP6 P-Three, FP5 Space2tex). Complementary, VITO has specific experience towards innovation projects with SMEs, both on the regional level in Flanders (dedicated activity on Promotion and Demonstration of Environmentally friendly technologies for SMEs) as on the European level (FP7 Hifre, FP7 SOLVER, FP6 CA Prodests).

Areas of Activity

Integrated appraoch for treatment of wastewater and organic waste

Description/abstract (project idea, main goals):

VITO is a research organization active carrying out research projects (lab to pilot schale) and bilateral contracts in field of valorization of waste/side streams, renewable chemicals, process intensification and water reuse/valorization. Main strengths are demonstrating technological and economical feasibility of innovative processes/concepts like algae harvesting using membrane based technology, 5 x higher biochemical production in a similar reactor, enzymatic conversion process and simultaneous removal of products, energy efficient desalination technologies for water.

Innovative aspects and main advantadges / benefits: developing sustainable processes, energy -efficient technologies combining salt recovery, metal recovery, product synthesis using waste(water) or CO2.

Innovative aspects and main advantadges / benefits:

users of the developed technologies, companies that want to upscale from pilot to full scale, research institutes/universities to define joint programmes

Target partner sought (Expertise, Type, Country):

depending on technology, proof-of-concept at lab scale to pilot demonstration

Jaana Roos

Organisation

Address	Hakaniemenranta 6 00531 Helsinki Finland
Web site	www.aka.fi
Phone	
Org. Type	Governmental body

Participant Details

Name	Jaana Roos
Email	jaana.roos@aka.fi

Organisation Details

The Academy of Finland's mission is to finance high-quality scientific research, act as a science and science policy expert, and strengthen the position of science and research.

The Academy works to contribute to the renewal, diversification and increasing internationalisation of Finnish research. Its operation covers the full spectrum of scientific disciplines.

The Academy supports and facilitates researcher training and careers in research, internationalisation as well as the practical application of research results. The Academy is keen to emphasise the importance of the impact of research and breakthrough research by encouraging researchers to submit boundary-crossing funding plans that involve risks but that also offer promise and potential for scientifically significant breakthroughs.

The Academy funds research annually with 327 million euros (year 2012). Each year the Academy receives funding applications worth 1.1 billion euros. Funding is provided for research projects, research programmes, Centres of Excellence in research, research posts, foreign visiting professors' work in Finland, researcher training, international networking and research collaboration between universities, research institutes and business companies. Each year Academy-funded projects account for some 3,000 researcher FTEs at universities and research institutes.

Areas of Activity

Cooperation Profiles

BRGM / IFCGR

Organisation

Address	Av Claude Guillemin 45060 Orléans France
Web site	www.brgm.fr
Phone	+ 33 2 38 64 34 34
Org. Type	Research Organisation

Participant Details

Name	Alexandre Boisson
Email	a.boisson@brgm.fr

Organisation Details

The BRGM is France's leading public institution in Earth science applications for the management of surface and subsurface resources and risks. The BRGM plays 4 key roles : scientific research, support to public policy development, international cooperation and mine safety. The BRGM's two key objectives are: • Understanding geological processes and associated risks, developing new methodologies and techniques, and producing and disseminating relevant high-quality data. • Developing and providing necessary tools for surface, subsurface and resource management, prevention of risks and pollution and support to climate change policies. The BRGM is the french geological survey.

Areas of Activity

Cooperation Profiles

Scientific research in hydrological sciences

BRGM, the French geological survey, and is France's leading public institution in Earth science applications for the management of surface and subsurface resources and risks. In collaboration with NGRI/CSIR the BRGM established the IFCGR (Indo-French Centre for Groundwater Research)in Hyderabad in 1999. BRGM and IFCGR have a strong experience in various international projects on all fields related to water The IFCGR currently involved in 2 EU collaborative projects SAPH PANI and SARASWATI Our activities include hydrogeology, geochemistry, modelling, geophysics, socio-economic studies in water related topics.

Scientific research in hydrological sciences

BRGM, the French geological survey, and is France's leading public institution in Earth science applications for the management of surface and subsurface resources and risks. In collaboration with NGRI/CSIR the BRGM established the IFCGR (Indo-French Centre for Groundwater Research)in Hyderabad in 1999. BRGM and IFCGR have a strong experience in various international projects on all fields related to water The IFCGR currently involved in 2 EU collaborative projects SAPH PANI and SARASWATI Our activities include hydrogeology, geochemistry, modelling, geophysics, socio-economic studies in water related topics.

Observatoire des Sciences et des Techniques (OST)

Organisation

Address	21 boulevard Pasteur 75015 Paris France
Web site	
Phone	
Org. Type	Governmental body

Participant Details

Name	Eleni Psychari
Email	eleni.psychari@obs-ost.fr

Organisation Details

The Observatoire des Sciences et des Techniques (OST) designs and produces R&D indicators. To carry out its missions, OST maintains a database on international research, constructed from multiple sources. By providing both indicators and expertise OST serves the actors of the French national research system. For more information, please visit the website: www.obs-ost.fr/en.html

Areas of Activity

Cooperation Profiles

University of Düsseldorf

Organisation

Address	Universitätsstr. 1 40225 Düsseldorf Germany
Web site	
Phone	
Org. Type	University

Participant Details

Name	Christoph Janiak
Email	janiak@uni-duesseldorf.de

Organisation Details

The city of Duesseldorf with its 600 000 inhabitants is the capital of Northrhin Westfalia and one of the five most important cities in Germany, besides Frankfurt, Berlin, Munich and Hamburg, with regard to economy, global networks, traffic and culture. The Heinrich Heine University was founded in 1964, today around 17000 students are enrolled in one of the 69 different degree programs and 5 graduate programs are offered. Additionally 4 research groups with broad scientific background and 7 special research fields are investigating.

Our team which is involved in this proposal is located at the Institute of Inorganic and Structural Chemistry, with a large add-on Analytical Chemistry unit where in total around 50 researchers are working on quite different topics. Our group is focused on functional materials, hybrid materials as well as nanocomposites with metal-organic frameworks (MOFs) and metal-nanoparticles being investigated. The main topics we are currently working on are porous networks for gas-storage and separation (including MOFs in mixed-matrix membrane), water-storage for heat transformation and metal-nanoparticles in ionic liquids for catalysis..

Areas of Activity

Cooperation Profiles

mixed-matrix membranes

Description/abstract (project idea, main goals):

Inorganic fillers/additives in organic polymers can enhance the separation aspects of a membrane device. We are looking for partners from the polymer side or for partners offering new inorganic additive components.

Innovative aspects and main advantadges / benefits:

Mixed-matrix
membranes (MMMs) with metal-organic frameworks (MOFs) as additives (fillers) exhibit enhanced gas permeabilities and possibly also selectivities when compared to the pure polymer. Please see our recent review:

H. B. Tanh Jeazet, C. Staudt, C. Janiak,

Metal-organic frameworks in mixed-matrix membranes for gas separation;

Dalton Trans. **2012**, *41*, in press. http://dx.doi.org/10.1039/C2DT31550E

Target partner sought (Expertise, Type, Country):

Expertise in new polymer materials

or expertise in new inorganic additives.

Current stage of development:

Our group is focused on
functional materials, hybrid materials as well as nanocomposites with metal-organic frameworks (MOFs) and metal-nanoparticles being investigated. The main topics we are currently working on are porous networks for gas-storage and separation (including MOFs in mixed-matrix membrane), water-storage for heat transformation and metal-nanoparticles in ionic liquids for catalysis.

We can manufacture and test membranes for gas separation.

SAVE OUR URBAN lAKES (SOUL), HYDERABAD

Organisation

Address	F-1, EDEN BANJARA, AURORA COLONY, BANJARA HILLS 500034 HYDERABAD India
Web site	www.soulhyd.org
Phone	040-65541838
Org. Type	NGO - CSO

Participant Details

Name	Jasveen Jairath
Email	jasveenjairath@gmail.com

Organisation Details

We suggest to present your organisation in general, its history, products and services, and clients. Details about your specific research cooperation offer/demand should be inserted in the cooperation profile which follows on the next page.

We are a citizens platform that works towards protection and rehabilitation of urban water bodies through a process of research, documentation, collective negotiations and mobilisation of social resources. We have been active for past more than three years in Hyderabad.

Areas of Activity

Cooperation Profiles

urban water bodies

Description/abstract (project idea, main goals): research on ecological methods of water treatement of waste water

Innovative aspects and main advantadges / benefits:cost effective, low carbon footprint, conservaing of water resource

Target partner sought (Expertise, Type, Country):technical and social expertise in lake management

Current stage of development:begining

Aarvee Associates Architects Engineers & Consultants Pvt Ltd

Organisation

Address	Srinagar Colony 500082 Hyderabad India
Web site	www.aarvee.net
Phone	09490623701
Org. Type	Company

Participant Details

Name	Thota Anand Mohan
Email	kprasad@aarvee.net

Organisation Details

Aarvee Associates,an **ISO9001:2008**is a certified engineering and infrastructure consulting company based at Hyderabad. Ou ject management, design and supervision of engineering and infrastructure projects in sectors such as Water Supply & Sanita Urban Planning, Buildings, Environmental Engineering, Irrigation, Ports and Power. In addition, we also provide services in su for all the engineering and infrastructure sectors. The company which was established in 1989 now has a pan-India presence, and several project offices in all the major states across the country. In addition to over 1000 successful assignments in India Bangladesh and Srilanka as well as some African countries.

We have experience of working for several prestigious projects under Jawaharlal Nehru National Urban Renewal Mission (JNN Development Scheme for Small and Medium Towns (UIDSSMT), Rajiv Awas Yojana (RAY) and Integrated Housing and Slum Dev We are empanelled with many government and semi-government organizations, various urban local bodies and other public & India. We have sufficient manpower experienced in projects of a similar nature, full-fledged material investigation laboratory surveying equipment.

Our considerable experience is in Preparation of Detailed Project Reports, Conceptual Plans & Conducting of Feasibility Stud & Structural Designs, for Water Supply System, Sewerage Network, Storm Water, Underground Drainage Network, Sanitation, Recycling, Pollution Control. We also have good experience in Construction Supervision, Third Party Quality Control (TPQA), T Agency (TPIMA), Project Implementation & Construction Supervision (PICS). EnvironmentalImpactAssess-ment,EnvironmentalManagementPlans,EnvironmentalMonitoring,PreparationofConceptualDesignReportsforcontaminatedsites, Schemes, Urban Regeneration Projects, Inventory of Roads & Urban Municipal Infrastructure, Surveys, Mapping & GIS Services Creation of Network Models, Project Management and Training equips us with the knowledge and expertise required to succe

Aarvee has a total of 1036 staff members, out of which around 85% are professionally qualified management and engineering ence of providing training to client's staff in different aspects of project execution as required.

We are awarded with

- National Award from Construction Industry Development Council (CIDC) for Best Professionally Managed Company.
- Prestigious Euro-India International Award i.e., Environmentally Sustainable City Award (ESCA) as a partner to Vijayawad
- CII, National Award for Excellence in Water Management for preparing Innovative Services for the preparation of Water (South Musi).
- National Award for Excellency in Consultancy Services for the Preparation of Conceptual Design Report for 12 surroundin CDC, Ministry of Science & Technology, GoI.

Areas of Activity

Cooperation Profiles

Anna University

Organisation

Address	Sardar Patel Road 600025 Chennai India
Web site	www.annauniv.edu
Phone	
Org. Type	University

Participant Details

Name	Elango Lakshmanan
Email	elango34@hotmail.com

Organisation Details

Anna University is a technological university whic was formed a few decades ago by upgrading the one of the oldest Engineering College (Year 1793) of India

Areas of Activity

Cooperation Profiles

Groundwater investigation

Hydrogeological studies related to environment

Anna University

Organisation

Address	Sardar Patel Road 600025 Chennai India
Web site	www.annauniv.edu
Phone	04422358450
Org. Type	University

Participant Details

Name	Suganthi S
Email	geoamethyst@gmail.com

Organisation Details

Anna University was established on 4th September 1978 as a unitary type of University. It offers higher education in Engineering, Technology and allied Sciences relevant to the current and projected needs of the society. Since December 2001,it has become a large, highly renowned Affiliated University, having brought into its fold about 426 Self-financing Engineering Colleges six Government Colleges and three Government-aided Engineering colleges located in various parts of Tamilnadu State. The Anna University ,which is of the affiliated type is a member of the Association of Indian Universities, the Association of Commonwealth Universities and Partner of UNESCO International Center for Engineering Education (UICEE). UGC have accredited Anna University with Five Star Status in 2002 which is the highest rating. With proven capabilities both in academic and research areas, Anna University was able to receive this honour for a period of five years for excellence in Technical Education.

Areas of Activity

Cooperation Profiles

Annamalai University

Organisation

Address	Faculty of Science 608002 Annamalainagar India
Web site	
Phone	09345168663
Org. Type	University

Participant Details

Name	Leelavinothan Pari
Email	jayampari@gmail.com

Organisation Details

Our **ANNAMALASI UNIVERSITY** is one of the most **popular University** in **South India** and our **Dept. of Biochemistry & Biotechnology is** one the poinering department. Our dept. **offering M.Sc., Biochemistry & M.Sc., Biotechnolgy (CBCS) 2 year courses & M.Sc., Biotechnology Integrated courses.**

Our dept. actively doing research (**M.Phil., & Ph.D**) on **phytochemicals in various dieeases** and published more than **500 research articles in peer reviewed International Journals** and more than **250 research papers presented** in **National & International conferences.**

Our dept. **received** huge **research grants** from **National & International funding agencies.** Many **Scientists visited** many **countries** such as **USA, UK, JAPAN, SIGAPORE, MALAYSIA, GERMANY, FRANCE and AUSTRALIA.**

Areas of Activity

Cooperation Profiles

Role of Phytochemicals in Health & Disease

Description/abstract (project idea, main goals):

Role of phytochemicals (daily consumed vegitables, nuts & medicinal plants) on liver and pancreatic diseases (especially on diabetes) at Molecular level.

Innovative aspects and main advantadges / benefits:

1. Elucidate the mode of action at molecular level 2. Design a drug without any side effects

Target partner sought (Expertise, Type, Country):

Expert from Germany, Finland, France, Sweeden, The Netherland, Swiss, Denmark, Holland, who are actively working Phtochemicals allevating diseases.

Current stage of development:

Currently working on the Role of phytochemicals (daily consumed vegitables, nuts & medicinal plants) on liver and pancreatic diseases.

Arts, Commerce & Science College, Nandgaon

Organisation

Address	Malegaon Road, Nandgaon 423106 Nandgaon (Nashik) India
Web site	www.nandgaoncollege.com
Phone	02552242462
Org. Type	Other

Participant Details

Name	Ganesh Patil
Email	ganeshpatil_phy@rediffmail.com

Organisation Details

Arts, Commerce and Science College, Nandgaon is situated in Nandgaon Tahasil, which is always suffering the problem of water. Our college is situated in drought zone, yet we are trying our best to spread the education to the students from rural area. This college was established in 1972. Our college is only 90 Kms away from famous historical city Aurangabad. It is also 110 Kms. away from famous pilgrim city Nashik. Our college is affiliated to University of Pune. The college is run by a very famous educational institute in Maharashtra named as “Maratha Vidya Prasarak Samaj”, Nashik. The University Grant Commission, New Delhi has recognized this college and included under section 2F and 12A. The NAAC peer team had visited our college in 2011 and the college was awarded “A” Grade.

Areas of Activity

Cooperation Profiles

Nanotechnolgy

Description/abstract (project idea, main goals):

Innovative aspects and main advantadges / benefits:

Target partner sought (Expertise, Type, Country):

Current stage of development:

Ascent Informatics (India) Pvt. Ltd.

Organisation

Address	40 Mrutyunjay Colony 411038 Pune India
Web site	www.ascentautomation.com
Phone	020 65004608
Org. Type	Company

Participant Details

Name	Arvind Tilak
Email	arvind.tilak@aiplindia.com

Organisation Details

Ascent Informatics (India) Pvt. Ltd. is dedicated to provide innovative IT solutions to its customers. Incorporated in year 2000, AIPL is an ISO 9001:2008 company.

AIPL - Industrial Automation Division

This division is dedicated to PC based and Embedded Solutions for Industrial Automation domain. We have been working in this domain for past 10 years and have teams with domain knowledge and industrial automation applications knowledge.

We leverage our domain expertise to add value to solutions, close gaps in requirements and exceed customer expectations

Service Areas

- PlantConnect® - Implementations & Customizations
- Projects in Industrial Automation Domain

Pollution monitoring and regulation assistance solutions

PlantConnect® Air Quality Monitoring System

Browser based software solution for monitoring and viewing Stack and Ambient Air Quality at multiple locations. PlantConnect® AQMS is robust and can scale from a single station installation to a nation-wide installation of hundreds of stations.

Implement PlantConnect® AQMS for

1. Stack and Ambient Air monitoring within Power Plants, Steel Plants, Cement Plants etc.

2. Nationwide network for Stack and Ambient Air monitoring
3. City wide pollution monitoring
4. Indoor air quality monitoring

System compliant with Central Pollution Control Board specifications including a public portal to provide Real Time Air Quality Data to any citizen

•

Features

Data Acquisition

Data acquisition from multiple Gas Analyzers, SPM Analyzers, Dust Monitors and Weather Stations **at** single or multiple locations

1. All data collected on PlantConnect® web server
2. Accessible to clients from anywhere, anytime, 24x7
3. Clients use a standard browser on PC / tablet / cell phone

Visualization

1. Hierarchical tree view of all sites at a glance
2. Dashboard showing comprehensive information of Air Quality in and around a plant
3. Real-time data trends and values
4. Historical data average, min, max - values and trends with user defined interval (5 / 10 / 30 / 60 minutes, daily etc.)

Alarms and Data Flags

1. Define alarm limits as well as various flags
2. Send alerts by SMS, email
3. Alarm history

Reports & Charts

1. Standard reports in MoEF stipulated formats
2. Daily and Monthly Environment Report
3. Average Tabular Report

4. Single Station and Multi-station Report
5. Robust reporting engine for development of custom reports
6. Automatic report scheduling and delivery by email / print
7. Charts
8. Wind rose / Poll Rose
9. Frequency analysis
10. Perspective bar and line charts

Data Storage

1. Secure data storage on PlantConnect® server for large periods
2. Data export in excel (.csv) format

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Areas of Activity

Cooperation Profiles

Dr. Arvind Tilak, Ascent Informatics

Description/abstract (project idea, main goals):

AIPL already has a solution for air pollution monitoring and data analytic. the solution can be upgraded to work for measureing and monitoring water pollution levels and related areas. We will like to work on this theme and build a regional/ national level reference portal where all polluting inudstries will be madated to upload data. Such data can then be accessed by citizens and other stake holders.

Innovative aspects and main advantadges / benefits:

AIPL soluton is a third part software solution and can connect to every single analyser and pollution measurement and monitoring instrument. Thus regulators will be able to implement a neutral solution and use it for enforcement and policy making.

Target partner sought (Expertise, Type, Country):

Water and other liquid pollution measurment and monitoring equipment manufacturers

State/ Regional/ National Regulatory bodies looking to build such a solution

Indistries that want to make such data availabel as part of CSR

Current stage of development:

Air Qulaity monitoring solution is ready and implemented. Water pollution solution can be build on similar lines with minimal efforts.

balabhaskar

Organisation

Address	d:no 24-21-2 ,Ashramam street 520003 vijayawada India
Web site	tbmics.in
Phone	09014278129
Org. Type	Other

Participant Details

Name	balabhaskar kalapatapu
Email	kbalabhaskar@gmail.com

Organisation Details

We suggest to present your organisation in general, its history, products and services, and clients. Details about your specific research cooperation offer/demand should be inserted in the cooperation profile which follows on the next page.

Areas of Activity

Cooperation Profiles

High performance parallel computational nanotechnology for Nano- molecular structures

Description/abstract (project idea, main goals): we all see how simple is some molecules in Nature like water, Ammonia, Co2, No2 etc but these form the basic bulding blocks for chemical, biological and physical properties obeying the mathematical principles behind them.

Innovative aspects and main advantadges / benefits:If we able to find the mathematical problem of each atom and molecules their peculiar behavior as atom and also a molecule we can mimic the nature like melting ice of Arctic, Acid rains, water pollution, rising sea levels, carbon fixation in oceans, trees and Green house effect.As we find the principles as we can use it any where in the universe and create the Real life Green-Technologies to save Humans and also Mother Earth

Target partner sought (Expertise, Type, Country):I need the expertise the EU countries they are early starters of research on these basic compounds in Nature and need to explore the mathematical background using to find the algorithms and recreate and mimic the Nature.

Current stage of development:Still at Ideating!

I seek the techincal expertise and funding to make it as I am interested to make as the ph.d for me

hope that I will make it.

about the nanogreen technology for the water

Description/abstract (project idea, main goals): Nano -green technologies make the water and waste water to change to potable drinking water with challenge of zero carbon foot print.

Innovative aspects and main advantadges / benefits: making the waste water as drinking water at the same time generate the electricity with zero carbon foot print using the Nanotechnology

Target partner sought (Expertise, Type, Country): EU countries mostly the Dutch, German , French, and Uk

Current stage of development: as I already presented this idea at INDO-French delegation for the International Nanosciences and Nanotechnology seminar conducted at Ansal Insitute of Technology, Gurgaon, Haryana in october 2009.

Now I seek the technical support and funding to make it happen and also I require the Expert advice where to find the optimal and feasiable soolution for the "THIRD WORLD " countries to make it "Ready-to-use technology for a common man at an optimal price and value for money to create the Green Earth.

I show cased this idea as I am interested to pursue the ph.d in the guidance of the European Experts and I seek their help in all the ways like funding and support

Bangalore University

Organisation

Address	Bangalore University 560 056 Bangalaore India
Web site	www.bangaloreuniversity.ac.in
Phone	+91-80-22961367
Org. Type	University

Participant Details

Name	Nandini Nandini.N
Email	sakthisiva1982@yahoo.com

Organisation Details

BANGALORE UNIVERSITY

Bangalore University is located in the Garden City of Bangalore aptly hailed as the "I.T. Capital of India", was established in July 1964 as an off shoot of the University of Mysore, primarily to include institutions of higher learning located in the metropolitan city of Bangalore and the districts of Bangalore, Kolar and Tumkur, which eventually became a separate university. Initially, the two premier colleges of the city, the Central College (CC) and the University Visvesvaraya College of Engineering (UVCE) formed the nucleus of Bangalore University.

Dr.Nandini.N Research Profile

Research Specialization: Environmental Microbiology, Aerobiology, Biodiversity, Climate change, Pollution and Toxicology Studies

RESEARCH EXPERIENCE:

- Studied the Microbial; Physico-Chemical analysis of Urban Lake in Bangalore.
- Multiply antibiotic Resistant (MAR) Bacterial assessment in ground water.
- Research on Bacterial Organism in Ground Water which are Resistant to metals, source of pollution and measure to control them. (Ongoing).
- Research on impact Assessment of quarrying on plants.
- Quantification of Carbon Sequestration Potential in Bangalore Urban.

PROJECT UNDERTAKEN

Total : 7

TOTAL NUMBER OF YEARS OF RESEARCH EXPERIENCE:

- **Since 1993 December till date 17 years**

RESEARCH GUIDANCE

- Ph.D. Guidance: Degrees conferred: Guiding 11

RESEARCH PUBLICATIONS

International Publications: TOTAL: 34

National Publications : TOTAL: 2

Full Paper in Final Proceedings of International Conference: TOTAL - 11

Full paper in final proceedings of National Conferences: TOTAL - 8

Abstracts of International Seminar: TOTAL - 11

Abstracts of National Seminar: **tOTAL - 22**

BOOKS PUBLISHED

1. **A text book on environmental studies**- As per UGC syllabus for UG Compulsory Paper on Environmental studies. Sapna publishers, Bangalore. First edition Published in Feb 2007.
2. **A text book on environmental studies**- As per UGC syllabus for UG Compulsory Paper on Environmental studies. Sapna publishers, Bangalore. Second edition in December 2007,Third & Fourth edition in 2009.
3. **Floral Treasures of Bangalore University-a glimpse**. Prasaranga-BUB. (Under Print)
4. **People Biodiversity Register of Bangalore North Zone**
5. **People Biodiversity Register of Bangalore South Zone**
6. **People Biodiversity Register of Bangalore East Zone**
7. **People Biodiversity Register of Bangalore west Zone**
8. **People Biodiversity Register of Bangalore Central Zone**

Total Number of Books: 8

INTERNATIONAL AND NATIONAL SEMINARS & CONFERENCES ATTENDED / INVITED TALKS / PAPERS PRESENTED /RESOURCE PERSON/ KEYNOTE ADDRESS:

Total : 72

ARTICLES IN THE LEADING NEWSPAPERS:

DECCAN HERALAD, THE HINDU, NEW INDIAN EXPRESS, DECCAN CHRONICLE,DNA

TIMES OF INDIA, VIJAYA KARNATKA,UDAYA VANI

MEMBERSHIP OF SCIENTIFIC SOCIETIES:

1. India Microbiologist Association, 1994, Life member
2. Society for Environmental Protection (SEP), 2001, General Member
3. National Environmental Science Academy (NESA), 2003, Life member
4. “National seminar on plant resources of Western Ghats” conducted by Karnataka Biodiversity Board, 2006, member
5. Carbon Sequestration School, Karnataka. 2006, Member
6. B .B.M.P local biodiversity Management committee. 2006, Member
7. The Indian Science congress Association, 2009, Life Member
8. Executive member of Institute of Indian Geographers

PAPER REVIEWER OF JOURNALS:

1. African journal of Environmental Science and Technology, Paper Reviewer
2. STOTEN, Science and Technology of Total Environment, Paper Reviewer

EXTRA-CURRICULAR ACHIEVEMENTS AND AWARDS:

1. Awarded Commendation and Gold Medal from the Ministry of Defence, Defence Secretary, Govt. of India during for the service rendered by me during the Republic Day Parade in New Delhi in 1993-94
2. Direct commissioned as NCC (National Cadet Corps) Officer, 2^{n} “Leuitenent”, 1987. Promoted as Leuitenent in 1993, Promoted as Captain in 1996
3. Conferred Fellow of National Environmental Science Academy for the year 2007-08 by National Environmental Science Academy.
4. Onkaobbava Award Presented by Light Minded Serving Association (NGO), Karnataka in 2009.
5. Conferred honorary fellowship of International society of ecological communications during the year 2008.

EXTENSION WORK / CONFERENCES / SEMINARS / SYMPOSIA NATIONAL & INTERNATIONAL WORKSHOPS CONDUCTED / UNDERTAKEN:

Conference: 8

Seminar : 5

International workshop: 2

Interest to Exchange the Technology:

1. Waste water Sanitation Technology

2. Waste water Recycling technology

Areas of Activity

Cooperation Profiles

Description/abstract (project idea, main goals)

Description/abstract (project idea, main goals):
Innovative aspects and main advantadges / benefits:
Target partner sought (Expertise, Type, Country):
Current stage of development:

Bangalore University

Organisation

Address	Bangalore University 560 056 Bangalaore India
Web site	www.bangaloreuniversity.ac.in
Phone	+91-80-22961367
Org. Type	University

Participant Details

Name	Nandini N
Email	nandini.sai@rediffmail.com

Organisation Details

ABOUT BANGALORE UNIVERSITY

Bangalore University is located in the Garden City of Bangalore aptly hailed as the "I.T. Capital of India", was established in July 1964 as an off shoot of the University of Mysore, primarily to include institutions of higher learning located in the metropolitan city of Bangalore and the districts of Bangalore, Kolar and Tumkur, which eventually became a separate university. Initially, the two premier colleges of the city, the Central College (CC) and the University Visvesvaraya College of Engineering (UVCE) formed the nucleus of Bangalore University.The Bangalore University has achieved milestones by establishing MOU5 with Universities and Institutions of national and international repute. To cater to a student population of over three lakhs, the University is striving to provide access, expansion and excellence in higher education. The vision of the University is to make distinctive and significant contributions to the cause of higher education in Humanities, Social Science Law, Commerce, Science & Technology.

Research Specialization: Environmental Microbiology, Aerobiology, Biodiversity, Climate change,

Pollution and Toxicology Studies, Waste Management Technology.

Specific Research Cooperation:

1. Green and clean technology to treat domestic and Industrial waste water to drinking water standards.

2. Water Quality monitoring and conservation strategies for Periurban lakes and ground water of Bangalore.

3. Environmental Assessment and Monitoring of Micro-watershed Zones of Arkavathi River Basin in Bangalore Region.

Areas of Activity

Cooperation Profiles

ECOFRIENDLY TECHNOLOGY TO PURIFY WATER AND WASTE WATER

Remediation is defined as any process used to make the environment safe by absorbing, destroying, neutralizing or making harmless contaminants or decreasing them to acceptable levels. Bioremediation is the process of using microbes, algae and plants to decompose hazardous substances (such as oil) to their basic, non-toxic elements.

Treatment using Activated Carbon: Activated carbon is generally used in most of the water treatment plants after secondary treatment. It is efficient in removing almost all pollutants from waste water. Generally application of activated carbon is avoided due to its high cost. If the carbon is prepared from agriculture waste material it would be economically viable and is also found to give results comparable to commercial carbon in purifying water.

Treatment using Micro alge:

uncontrolled urbanization and proliferation, Bangalore urban is suffering a loss in both water quantity and quality. Pure water is becoming like pearl, scarce and costly.Thus our Experience from all the above conducted studies at laboratory level would be utilized for recycling waste water and conservation. Use of Eco-Friendly Phytoplankton's and waste recycled products for treating waste water more efficient and cheaper than artificial chemical agents to remove pollutants.

Eco-Friendly phytoplankton's are efficient for wastewater treatment which would be significantly cheaper than traditional flocculants and is believed to be less potentially toxic than synthetic polymers which are currently available. Saturated phytoplankton's can be harvested from treatment pond are commercially valuable for aqua culturing and animal husbandry form.

Bhabha Atomic Research Center

Organisation

Address	Anushakti Nagar 400085 Mumbai India
Web site	
Phone	0091-22-25592760
Org. Type	Research Organisation

Participant Details

Name	Anuj Tripathi
Email	anujtri@barc.gov.in

Organisation Details

Bhabha Atomic Research Center is a multi-disciplinary research centre with extensive infrastructure for advanced research and development covering the entire spectrum of nuclear science, engineering and related areas. Its research focus areas are applications for isotopes in industries, medicine, agriculture, etc

Areas of Activity

Cooperation Profiles

Bharti Vidyapeeth University COE, Pune

Organisation

Address	Near Katraj 411046 Pune India
Web site	
Phone	
Org. Type	University

Participant Details

Name	SAchin Patil
Email	patil.ss@jains.com

Organisation Details

Basically i am student of Bharti Vidyapeeth University for M Tech (Hydraulics). But same time i am working as Product Development Engineer in Jain Irrigation Systems Ltd., Jalgaon (India). Jain Irrigation manufactures Drip Irrigation system components, Sprinkler / Raingun Irrigation system components, Greenhouse temperature and humidity maintaining components. We also have our food processing units, Energy park (for biogas preparation and convertion in electricity and Solar systems) and so on..

Areas of Activity

Cooperation Profiles

Micro Irrigation Systems

Description/abstract (project idea, main goals):

Effective utilization of water for Agriculture.

Innovative aspects and main advantadges / benefits:

1. Water application efficiency is high.
2. Field levelling is not necessary.
3. Soil erosion is minimized.
4. Water distribution is highly uniform, controlled by output of each nozzle.
5. Labour cost is less.
6. Fertigation can easily be included with minimal waste of fertilizers.
7. Fertilizer and nutrient loss is minimized due to localized application and reduced leaching.

Target partner sought (Expertise, Type, Country):

Micro & Macro Irrigation Systems, India

Current stage of development:

Ongoing process depends on Farmers tendency.

BIA Platform of Excellence-CBST-VIT Unversity

Organisation

Address	CBST-VIT University 632014 Vellore India
Web site	
Phone	+91 9443311374
Org. Type	Research Organisation

Participant Details

Name	Viji Vijayalakshmi
Email	indviji@yahoo.com

Organisation Details

BIA Separations is the only worldwide manufacturer of Short Monolithic Columns optimized to meet the research and production needs of the biotechnology industry. The company is headquartered in Villach, Austria and currently has three subsidiaries: Slovenian subsidiary, located in Ajdovščina, consists of Research & Development as well as Production facilities and sales offices located in Wilmington, Delaware, US and Shanghai, China.

BIA Separations was founded by a group of scientists and venture capital investors whose purpose is to become leaders in innovative liquid chromatographic methods and develop monolithic materials. Based on more than 10 years of experience, BIA Separations has developed a wide range of CIM Convective Interaction Media® that address the growing need for timesaving innovations in therapeutic biomolecule purification. Through both internal initiatives and external collaborations, this ISO certified company pursues the highest quality standards in its research, development, production, and customer service efforts. Additionally, the company uses its expertise in liquid chromatography to develop and validate analytical methods and design industrial purification processes. The people of BIA Separations are committed to providing customers the most reproducible and innovative products to meet their current and future separation needs. In **1998** BIA Separations Founded.

Areas of Activity

Cooperation Profiles

University

Description/abstract (project idea, main goals):

Innovative aspects and main advantadges / benefits:

Target partner sought (Expertise, Type, Country):

Current stage of development:

University and R&D Centre

Birla Institute of Technology and Science, Pilani, Hyderabad Campus

Organisation

Address	Jawahar Nagar, Shameerpet Mandal, RR District 500078 Hyderabad India
Web site	http://universe.bits-pilani.ac.in/hyderabad/
Phone	0091 40 66303547
Org. Type	University

Participant Details

Name	Sankar Ganesh Palani
Email	sangan@bits-hyderabad.ac.in

Organisation Details

BITS, Pilani, is one of the premier institutes in India, with a world-wide reputation. BITS, Pilani, is a university under the UGC Act and started functioning in 1964. The unique features such as modular and flexible curriculum, University-Industry linkage schemes such as Practice School and the work-integrated learning programmes for employed professionals and its high standards of education have made BITS a world class institution. With its team of committed faculty, BITS has a clearly focused mission of producing self-reliant, competent and young professionals. BITS has produced some of India's finest Science, Engineering and Management graduates. The Institute has been accredited by National Assessment and Accreditation Council (NAAC) with a Five Star ranking. Recently, at the request of Govt. of Andhra Pradesh, BITS has come forward to establish its fourth campus in Hyderabad. With the help of the Govt. of Andhra Pradesh, BITS acquired 200 acres of land which is 25 km away from the heart of the city. The proposed site for BITS campus is situated in a serene and pollution free atmosphere. BITS-Pilani, Hyderabad Campus initially offers all Under Graduate and First Degree programmes which include (i) B.E. (Hons.) in 5 branches of engineering (*Chemical, Civil, Computer Science, Electrical & Electronics, Electronics & Instrumentation*, and *Mechanical*), (ii) B.Pharm. (Hons.), (iii) M.Sc. (Hons.) in 5 subject areas (*Biological Science, Chemistry, Economics, Mathematics,* and *Physics*), and (iv) M.Sc. (Tech.) in *Information Systems*. BITS also has Higher Degree Programmes such as M.E., M.Pharm., M.Phil., and Ph.D with major emphasis on faculty research. The admission process in BITS is highly competitive and is made on All-India basis purely based on merit, with the best students being drawn from all over the country and opting for all its degree programmes. Admission to all Under Graduate and First Degree programmes offered at BITS campuses in Pilani, Goa, and Hyderabad are made through a unique and transparent computer based online test known as BITSAT (BITS Admission Test). Offered along the length and breadth of the country and spreading over two months, this test offers candidates the choice for place, date and time. Since its inception, BITS has adopted the semester system with continuous and internal evaluation comprising regular tests, seminars, group-discussions, assignments, quizzes and a comprehensive examination which leads to a holistic assessment of student performance. Use of cumulative letter grading at the end of each semester leads to the Cumulative Grade Point Average (CGPA) an indicator of student's performance. Students can choose electives of their choice from a large pool of elective courses and also eligible to take up various types of projects. The Dual Degree scheme enables students to work for and complete concurrently two first degrees within a reasonable period. Students admitted to science programmes are assured of getting a Dual Degree with a second degree picked from among the engineering

programmes. The transfer option within First Degree, First Degree to Higher Degree or to Ph.D. degree facilitates bright students to get the respective transfer of their choice subject to certain criteria.

Areas of Activity

Cooperation Profiles

Nano (eco) toxicology

Description/abstract (project idea, main goals):

The study aims at the novel biomarker responses to validate acute toxicity of engineered nanoparticles and their physicochemical interactions in earthworm as a model bio indicator of nano (eco) toxicology.

Innovative aspects and main advantadges / benefits:

This study is designed to address the gaps that are existing in the evaluation of exposure-dose response which is critical to validate the toxicological assessment of engineered nanoparticles.

Target partner sought (Expertise, Type, Country):

Toxicologists affiliated to academic institutions from France

Current stage of development:

Acute toxicity of chlorpyrifos on earthworms was ascertained using paper contact method as per OECD-guide lines. About 21% of less concentration of LC_{50} for 24hrs of chlorpyrifos (47±1.8 ng/cm^2) was enough to exhibit 50% mortality at LC_{50} for 48hrs (37±3.6 ng/cm^2). This indicates that duration is inversely proportional to the available concentration in the media. The various morphological features during the exposure time, such as coiling, curling & fragmentation of the body, bulging of clitella were observed. Activity of the neurotransmitter enzyme, which is also a marker enzyme for OP pesticides *i.e.* AChE (acetylcholine esterase) was inhibited by 90% after 24 hrs and 48 hrs exposure. Apart from AChE the antioxidant enzymes SOD (Superoxide Dismutase), CAT (Catalase) & GR (Glutathione Reductase) activities & lipid peroxidation were also influenced by inhibiting the source of enzyme activity. Catalytic activity reported in terms of percent reduction after 24 and 48 hrs was found to be reduced for the above mentioned enzymes and lipid peroxidation. It was hence concluded that biomarker responses are of interest because they integrate a wide array of environmental, toxicological and ecological factors that control and modulate exposure contaminants. *In vivo* exposure of earthworm *Eisenia foetida* to chlorpyrifos revealed the decrease in AChE (Acetylcholine esterase) activity, SOD (Superoxide Dismutase), and CAT (Catalase) & GR (Glutathione Reductase) activities. The above results may serve as biomarkers and could be used in assessing the risk of environmental contaminants.

Centre for Water Resources, Institute of Science and Technology

Organisation

Address	KPHB COLONY 500085 HYDERABAD India
Web site	www.jntuh.ac.in,www.cwr.org.in
Phone	091-9440590695
Org. Type	University

Participant Details

Name	Giridhar M.V.S.S
Email	mvssgiridhar@gmail.com

Organisation Details

The Centre for Water Resources which forms a part of the Institute of Science and Technology, JNT University, Hyderabad was established in the year 1984 with the funding from the then Ministry of Education and Culture, Government of India to impart training in the management of water resources at an advanced level and to undertake research and developmental activities in the field of water, land and environmental management and other related areas. Since then the Centre has acquired a reputation among user agencies like State and Central Government Departments and other public sector and private organisations as an apex body for imparting training and undertaking field oriented research projects in water and environmental management. In the past decade the activities of the centre has been greatly diversified and is concentrated on water and environment for sustainable development. Central Public Health and Environmental Organization has recognized this centre as one of the renowned institutes offering P.G. coerces in water and environment. The centre is funded by the World Bank under Technical Education Quality Improvement Programme (TEQIP) and established well-equipped laboratories. Research projects were taken up in many areas of Water Resources and environment at National and International levels.

Areas of Activity

Cooperation Profiles

Spatial applications for artificial recharge and use of rainwater and development

Innovative aspects and main advantadges / benefits:

- Recharge of excess water into the ground, thereby increasing the ground water levels and reduction in power consumption.
- Harvesting, storage and re-use for drinking and gardening in the campus.
- Assured water supply and quality improvement in groundwater
- Useful to educate and bring awareness to the society, as learned and opinion builders pass though these portals.
- Increase in green canopy thereby development of healthy ecosystem
- Flood control and control of soil erosion
- Demonstration facility to the students in particular and society in general.
- Report preparation and dissemination to the public and government agencies

CSIR - National Geophysical Research Institute

Organisation

Address	Uppal Road 500007 Hyderabad India
Web site	www.ngri.org.in
Phone	
Org. Type	Research Organisation

Participant Details

Name	Mahjoor Lone
Email	lonemahjoor@gmail.com

Organisation Details

National Geophysical Research Institute (NGRI), a constituent Laboratory of CSIR, was established in 1961 with the mission to carry out research in multidisciplinary areas of Earth Sciences. The Institute plays a pivotal role in the exploration of Hydrocarbons, Mineral and Groundwater resources in addition to studies in Engineering Geophysics, Seismology, Geo dynamics and Geo environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations. Capabilities Earthquake hazard assessment: Monitoring, modelling and zoning of seismically active regions, hazard assessment, quantiification of reservoir triggered seismicity. Engineering geophysics:Civil engineering and mining applications such as bedrock, tunneling, heavy engineering structures, rippability, dynamic elastic properties, Delineation of archaeological structures, vibration and noise studies for stability studies. Groundwater management studies:Assessment of groundwater resources and modeling of complex aquifer systems for hazard-free optimal management, water harvesting and subsurface recharge studies. Natural resource exploration: Reflection and refraction seismics, Deep resistivity, IP, EM, MagnetoTellurics, magnetic, gravity, scintillometric, helium-emanometry studies for the exploration of oil, groundwater and minerals such as coal, diamond, gold and base metals, and geothermal energy. Antarctic studies:Geophysical surveys to characterize subglacial basement geology, structure, tectonics, palaeo-reconstruction, wide-band seismic station, GPS measurements in Antarctica for crustal deformation studies. Marine geophysical surveys:Magnetic, gravity, seismic and bathymetric surveys in offshore regions for study of processes relating to the evolution of the Indian Ocean floor and hydrocarbon exploration. Airborne geophysical surveys:Multiparametric (magnetic, radiometric and electromagnetic) aero-geophysical (including helicopter borne) surveys, contour and image maps for regional and detailed studies. Interpretation of geophysical data:Processing, modeling, and inversion of geophysical data, preparation of depth-sections and image maps for natural resource exploration and geodynamic studies Study of deep crustal and lithospheric structures: Imaging through seismic soundings, seismic tomography, magneto telluric, gravity and geothermal investigations Environmental studies:Field investigation and modelling for waste disposal sites and migration of pollutants and suggestion of remedial measures.

Areas of Activity

Cooperation Profiles

Geoinformatics for Hydrological sciences and Paleoclimate studies.

Studies related to remote sensing and GIS applications in hydro-geological sciences. Besides I intend some collaboration related to paleoclimate studies specially on Asian monsoon using speleothem, corals and other proxies.

CSIR-National Geophysical Research Institute

Organisation

Address	Uppal Road 500076 HYDERABAD India
Web site	www.ngri.org.in
Phone	
Org. Type	Research Organisation

Participant Details

Name	Tanvi Arora
Email	tanvi@ngri.res.in

Organisation Details

National Geophysical Research Institute (NGRI), a constituent Laboratory of CSIR, was established in 1961 with the mission to carry out research in multidisciplinary areas of Earth Sciences. The Institute plays a pivotal role in the exploration of Hydrocarbons, Mineral and Groundwater resources in addition to studies in Engineering Geophysics, Seismology, Geo dynamics and Geo environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations.

Areas of Activity

Cooperation Profiles

Hydro Geophysicist

I am a Hydro-Geophysicist interested to work on Geobattery concept.

CSIR-National Geophysical Research Institute

Organisation

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Web site	www.ngri.org.in
Phone	+914023434700
Org. Type	Research Organisation

Participant Details

Name	Sahebrao Sonkamble
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Organisation Details

National Geophysical Research Institute (NGRI), a constituent Laboratory of CSIR, was established in 1961 with the mission to carry out research in multidisciplinary areas of Earth Sciences. The Institute plays a pivotal role in the exploration of Hydrocarbons, Mineral and Groundwater resources in addition to studies in Engineering Geophysics, Seismology, Geo dynamics and Geo environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations.

Areas of Activity

Cooperation Profiles

CSIR-National Geophysical Research Institute

Organisation

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Org. Type	Research Organisation

Participant Details

Name	Nepal Mondal
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Organisation Details

National Geophysical Research Institute (NGRI), a constituent Laboratory of CSIR, was established in 1961 with the mission to carry out research in multidisciplinary areas of Earth Sciences. The Institute plays a pivotal role in the exploration of Hydrocarbons, Mineral and Groundwater resources in addition to studies in Engineering Geophysics, Seismology, Geo dynamics and Geo environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations.

Areas of Activity

Cooperation Profiles

http://www.ngri.org.in/ngri_people_dis.jsp?user=1038

In the field of groundwater management studies we are fully engaged for assessment of groundwater resources and modeling of complex aquifer systems for hazard-free optimal management, water harvesting and subsurface recharge studies.

No life without water!

We know "no life without water". Thus I have keen interested to principal research topics encompassed: (1) exploration of groundwater resources; (2) natural groundwater recharge estimation; (3) saltwater intrusion, (4) groundwater modeling; and (5) entropy theory in water resources. Under my reserarch developement in the field of (1) efficient & versatile technique for estimation of groundwater potential zones, (2) an entropy-based approach for assessing natural groundwater recharge, and (3) an index called Saline Water Mixing Index (SWMI) for evaluating the relative degrees of seawater mixing in coastal aquifers, I am requesting for discussion in details.

CSIR-National Geophysical Research Institute

Organisation

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Web site	www.ngri.org.in
Phone	
Org. Type	Research Organisation

Participant Details

Name	SADIA FARNAAZ
Email	sadiaf@ngri.res.in

Organisation Details

National Geophysical Research Institute (NGRI), a constituent Laboratory of CSIR, was established in 1961 with the mission to carry out research in multidisciplinary areas of Earth Sciences. The Institute plays a pivotal role in the exploration of Hydrocarbons, Mineral and Groundwater resources in addition to studies in Engineering Geophysics, Seismology, Geo dynamics and Geo environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations.

Areas of Activity

Cooperation Profiles

CSIR-National Geophysical Research Institute

Organisation

Address	Uppal Road 500007 Hyderabad India
Web site	www.ngri.org.in
Phone	
Org. Type	Research Organisation

Participant Details

Name	TABISH RAZA
Email	geo.tabish65@gmail.com

Organisation Details

National Geophysical Research Institute (NGRI), a constituent Laboratory of CSIR, was established in 1961 with the mission to carry out research in multidisciplinary areas of Earth Sciences. The Institute plays a pivotal role in the exploration of Hydrocarbons, Mineral and Groundwater resources in addition to studies in Engineering Geophysics, Seismology, Geo dynamics and Geo environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations.

Areas of Activity

Cooperation Profiles

CSIR-National Geophysical Research Institute

Organisation

Address	Uppal Road 500007 Hyderabad India
Web site	www.ngri.org.in
Phone	
Org. Type	Research Organisation

Participant Details

Name	VIKASH KUMAR
Email	vikashkmr212@gmail.com

Organisation Details

National Geophysical Research Institute (NGRI), a constituent Laboratory of CSIR, was established in 1961 with the mission to carry out research in multidisciplinary areas of Earth Sciences. The Institute plays a pivotal role in the exploration of Hydrocarbons, Mineral and Groundwater resources in addition to studies in Engineering Geophysics, Seismology, Geo dynamics and Geo environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations.

Areas of Activity

Cooperation Profiles

Daksh Foundation

Organisation

Address	Nagar Road 411014 Pune India
Web site	www.dakshgroup.org
Phone	
Org. Type	Research Organisation

Participant Details

Name	Santosh Bothe
Email	santoshbothe@yahoo.com

Organisation Details

We are the research organisation established in 2006. Research & Development wing is established to make the technology reachable to every business sector. We do multidisciplinary research. Our continuous efforts in Research activities have enabled us to develop innovative processes,
products and technologies. By launching new ways of collecting and managing information and knowledge, we have strengthened and extended our R&D activities to distinctive areas. Our team has vast expertise in building technology from the concept. We are equipped with state-of-the-art technologies, well structured methodologies, documented coding standards, and established
proven processes for large scale, complex applications development. Our lab with sophisticated infrastructure is capable of carrying out research in multidisciplinary technologies

Areas of Activity

Cooperation Profiles

Daksh Foundation

Audio Sample Based Disease Diagnosis. (Patent No RM2012A000173)

Target partner sought (Expertise, Type, Country):

IT, Medical Instumentation,

Current stage of development:

Under Testing

Department of Civil Engineering, PDPU Gandhinagar

Organisation

Address	B-111, Royal Orchid, Corporate Road 380015 Prahladnagar, Ahmedabad India
Web site	http://www.pdpu.ac.in/ri_anupamkumar.html
Phone	07923275239
Org. Type	University

Participant Details

Name	Anupam Kumar Singh
Email	anupam.singh@gmx.net

Organisation Details

PDPU is a research led university established by Gujarat Energy Research Management Institute and Gujarat State Petroleum Corporation under act 14 April 2007 by State Assembly of Gujarat. We offer courses in Civil, Petroleum, Chemical, Mechanical and Electrical Engineering.

Areas of Activity

Cooperation Profiles

Assessing climate change impact on water resources in Sabarmati basin

Sabarmati river is parring through state of Gujarat, a semi-arid climatic zone. Rainfall is intermittent and dependence on rainfall is high. Shortfall of water often leads to social tension leading toward unrest amongst community.

Partner: Prof Dr-Ing Erwin Zehe, Institute of Water and River Engineering, Karlsruhe Institute of Technology (KIT), Germany

Current stage of development: Contacts are being established

Department of Science and Technology (DST)

Organisation

Address	Technology bhavan, 110016 New Delhi India
Web site	www.dst.gov.in
Phone	
Org. Type	Governmental body

Participant Details

Name	Vineet Saini
Email	vineet.saini@nic.in

Organisation Details

DST promotes the science and technology programmes in the country

Areas of Activity

Cooperation Profiles

DHAN (Development of Humane Action) FOUNDATION

Organisation

Address	18 Pillaiyar Koil Street 625010 Madurai India
Web site	www.dhan.org
Phone	04522610794
Org. Type	NGO - CSO

Participant Details

Name	ARUMUGAM GURUNATHAN
Email	dhantank@dhan.org

Organisation Details

DHAN Foundation is a pro-poor professional development organisation working on alleviating poverty by improving livelihoods with thematic focus. Water is one among the themes of DHAN and operate in 6 states in India with a reach of 250000 families as on end September 2012 in 3500 villages.

Areas of Activity

Cooperation Profiles

Addressing Climate Risks and building Resilience through Community owned Water Resources development

Description/abstract (project idea, main goals): The main goal of the proposed cooperation intend to address climate risks and vulnerability of small, marginal farmers and landless in minor irrigation tanks intensive states in India. Tanks are lifelines for livelihoods. The present dilapidated structures and absence of community management led to absolute poverty in varied ecosystems.

Innovative aspects and main advantadges / benefits: Community Nested Institutions with People Governance, Self Sustainability, Rights and Entitlements through mainstream collaboration, Hydrologic linkages and Improve Water use efficiency, Increase in Productivity and Food Security.

Target partner sought (Expertise, Type, Country): EU, Asian development Bank, IFPRI, UNDP

Current stage of development:

Scaling up present initiatives of DHAN Foundation in many drought hit river basins.

DHAN Foundation

Organisation

Address	H.No: 1-8-522/7, I Floor, SISS Building, T.V. Meenaksham- ma Memorial Bhavan 500007 Chikkadapally, Hyderabad India
Web site	www.dhan.org
Phone	+91-40-65169017
Org. Type	NGO - CSO

Participant Details

Name	Sada Siva Bitra
Email	sadasiva@dhan.org

Organisation Details

DHAN Foundation, is a non-governmental development organisation working towards bringing significant changes among poor communities in 12 Indian States in Natural Resources Management, Coastal communities development, Women empowerment, Information and Communication Technologies, Rainfed agriculture, etc. We are working with different donors in this development path like Intenrational, National and multi-lateral agencies.

Development of Humane Action (DHAN) Foundation, a professional development organisation, was initiated on October 2, 1997. It has been incorporated as a Trust under the Indian Trusts Act (1882). The Trust has been promoted with the objective of bringing highly motivated and educated young women and men to the development sector. They would work on bringing out new innovations in rural development and for upscaling development interventions to eradicate poverty in vast areas of the country. The Foundation works towards bringing significant changes in the livelihoods of the poor through innovations in themes and institutions. The broad purposes for which it stands are:
I. Mothering of Development Innovations: The institution aims to promote and nurture new ideas on different development themes, which have larger potential to address the livelihoods and development of the poor in a region viz., microfinance, small scale irrigation, dry land agriculture, working with panchayats.
II. Promoting Institutions to reach scale: Exclusive thematic organisations will be promoted to undertake development work with a sub-sectoral focus. The primary role of these institutions is promotional and to ensure that benefits reach a large number of poor with quality.
III. Human Resource Development: The institution would bring young professionals into the development sector and provide them an opportunity to practice and develop relevant knowledge, attitudes and skills to work long term in the development sector.
The principles guiding it are
1. Engaging high quality human resources to work at the grassroots. The focus of the work would be on enabling rather than delivery of services.
2. Valuing collaboration with mainstream institutions and government to demonstrate new and effective ways of development interventions, thereby building viable linkages between them and people.
3. Promoting people’s organisations at various levels to ensure entitlements and to build an effective demand system.
4. Focusing on promotion of livelihoods to address poverty directly
5. Enriching the themes and retaining sub-sectoral focus would be the strategy for growth.

Policy contribution at national and global level

DHAN Foundation through the Tankfed Agriculture Development Programme has facilitated wider consultations among farmers, bureaucrats, scientists and academicians. This has been done through organising policy seminars and workshops, undertaking research and publishing documents and participating in various policy making bodies of State and Central Governments on development of water, small scale irrigation and rural development.
In Tamil Nadu and Karnataka 'Conservation Council for Small Scale Water Resources' has been constituted with eminent personalities to influence the policies on water and small scale irrigation in favour of farmers.
While through the Kalanjiam Community Banking Programme, DHAN Foundation as a member of many policy-making bodies on microfinance and through participating in national and international conferences, strongly advocates refocusing of 'microfinance' to address poverty and empowerment of poor especially women. As a resource centre, it organises many capacity building events and training programmes for bankers, government officials and representatives of NGOs within and outside the country.
DHAN Foundation is a founder member of INAFI (International Network of Alternative Financial Institutions) focuses on micro finance. It is currently coordinating the INAFI India Chapter.
Our Partners
Ford Foundation, New Delhi, Novib, The Netherlands and Sir Ratan Tata Trust, Mumbai are our institutional partners who have provided continued support for our initiatives. The District Rural Development Agencies of the districts where we are working in Tamil Nadu, Andhra Pradesh, Karnataka and Pondicherry, CAPART, New Delhi, Ministry of Rural Development, New Delhi, UNDP, New Delhi, HDFC, HUDCO, NABARD, SIDBI, Commercial banks such as Canara Bank, ICICI Bank, Pandyan Grama Bank, Indian Overseas Bank, Union Bank of India etc. and many others have provided support to our programmes.

Areas of Activity

Cooperation Profiles

MULTI FUNCTIONS OF PEOPLE INSTITUTIONS AND THEIR SUSTAINABILITY: ROLE OF TANK ASSOCIATIONS AND THEIR NESTED INSTITUTIONS FOR THE SUSTAINABILITY OF TANKS

Rehabilitation of traditional water bodies with community participation and contribution makes the community to build ownership among them.

Irrigation tanks (Traditional water harvesting structures) are our heritage handed over to us by our ancestors and are the lifelines of villages. Tanks are small irrigation structures predominantly serve small and marginal farming communities to sustain the agriculture production by supplementing the monsoon rains. There will be festivities in the villages if its irrigation tanks get filled. The tanks, which had conferred benefits to humanity for over centuries since the beginning of history, are now in a bad shape. A proper maintenance of the tanks will prevent famine, starvation and unemployment and bring in prosperity. During the British rule, the tank as a common property has become the 'state' property. The tanks belong to the 'state' and they are 'vested' with government departments for their maintenance and management. In most of the Southern states in India, the major threats to tanks are mainly from the encroachers, inefficiency in the functioning of tank system and improper use by the government itself. The main reason attributed to this situation is the 'Institutional constraint'. If the tanks are surviving and still performing, it is by and large due to the local organizations and farmer's initiatives which are mostly informal. We consider that 'institutional constraints and alternatives' should be a prime question to be addressed as that of rehabilitation itself. Some of the tanks have been restored and are maintained with the awareness created by DHAN Foundation, a Non-Governmental Development Organization by promoting Tank Associations (Water Users Associations) with an identity name "Vayalagam" in South India are in good condition.

This has been made possible due to the awareness created among the people especially underprivileged farming community, by ensuring their participation and contribution during the selection and execution of works implementation time, promotion of nested institutions among the beneficiaries and making aware them regarding the future maintenance of the tanks. Our experience of working has been through farmer's organizations formed at the habitation, cascade (chain of tanks) and district levels for conserving the tank systems are mostly in drought prone areas. Each tier of these farmers associations will have distinct identifiable roles, responsibilities and resources. DHAN Foundation's approach mainly relies upon the regeneration of Farmer's Management by establishing their organizations and involving them in rehabilitating works.

These water bodies will help the community in the Southern rural India to ensure their livelihoods in sustainable manner in the long run, as they depend mostly on these water bodies in their day-to-day works.

Directorate of Water Management

Organisation

Address	Chandrasekharpur 751023 Bhubaneswar India
Web site	www.wtcer.ernet.in
Phone	+91 674 2300010/2300016
Org. Type	Research Organisation

Participant Details

Name	Sachidulal Raychaudhuri
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Organisation Details

About DWM
Location

The Directorate of Water management (formerly Water Technology Centre for Eastern Region) was established by the Indian Council of Agricultural Research on 12 May 1988. The Institute aims to develop improved water management technologies for sustainable agricultural production and disseminate it amongst researchers, government functionaries, NGOs and farmers. The centre is located at Chandrasekharpur, Bhubaneswar on a 5.71 ha of land along with its main office-cum-laboratory building, guest house and residential complex. Research farm of the Institute (63.71 ha of farm land) is located at Deras, Mendhasal (20^{O} 30' N and 87^{O} 48'E) and is at 30 km away from main campus

Mandate

The DWM is addressing water management issues in the gambit of following mandate:

- To undertake basic and applied research for developing strategies for efficient management of on-farm resources to enhance agricultural productivity on sustainable basis.
- To provide leadership role and coordinate network of research with the State Agricultural Universities in generating location-specific technologies for efficient use of water resources.
- To act as a centre for training in research methodologies and technology update in the areas of agricultural water management.
- To collaborate with relevant national and international agencies in achieving the above objectives
- To provide consultancy in agricultural water management

Thrust areas

- Rainwater conservation and it's multiple use for higher water productivity
- Conjunctive use of rain, surface and groundwater
- Increasing water use efficiency under all sources of water
- Increasing irrigation water sources availability through location specific research (basic/applied/strategic)
- Participatory irrigation management, monitoring and evaluation
- Waterlogged area management
- Contingency crop planning for extreme events like flood, drought etc

Our research programmes

Rain water management

- Ground water management
- Canal water management
- Waterlogged area management
- On-farm research and transfer of technology

Under the five program mode, 39 research projects, 8 externally funded projects (7 NATP and 1 INCID Project) are operational

AICRP on Water Management

The scheme of AICRP on Water Management was transferred to the Institute on 1st April, 2002 from Patna. The Institute coordinates research progammes of 25 network centers which are located in SAUs and research institutes in different agro-ecological regions of the country. Out of this, 21 centers are located in major and medium irrigation commands, 4 centers are located in hilly and high rainfall areas.

AICRP on Ground Water Utilization

The Scheme was transferred to the Institute on 18th Sept., 2003 from Patna. Under the scheme the Institute coordinates research progammes of 9 network centers which are located in SAUs

Infrastructure facilities and Organization

Laboratories:

The Institute has five well-equipped laboratories i.e., irrigation and drainage laboratory, hydraulic laboratory, soil-water-plant relationship laboratory, fisheries laboratory and plant-science laboratory with state of the art analytical facilities. An engineering workshop to cater the day-to-day research related needs and activities. The center has also four field laboratories, i.e., pressurized irrigation system, solar photovoltaic pumping system, agricultural drainage, and meteorological observatory at its research farm.

ARIS Cell:

The intra-institute communication system has a backup of a digital EPABX system. The institute also has leased line Internet connection available individually to all the scientists through a LAN system. The centre has its own website which is updated regularly. The entire networking, Internet services and website management is coordinated by ARI S cell.

Technical cell:

A fully operational technical cell looks after different scientific communication and dissemination, co-ordination of various information within and out side the Institute. It also maintains various research related documents of the Institute.

Library:

The fully air-conditioned library of the institute provides congenial ambience for library consultation with support of about 2000 books, 22 International and 12 National journals.

Areas of Activity

Cooperation Profiles

DR.SANTANU GHOSH

Organisation

Address	IIT Delhi, Hauz Khas 110 016 New Delhi India
Web site	www.iitd.ac.in
Phone	91-11-26591348
Org. Type	University

Participant Details

Name	SANTANU GHOSH
Email	santanu1@physics.iitd.ernet.in

Organisation Details

I belong to Indian Institute of Technology Delhi, one of the most reputed academic Institute of this country. It has an excellance in science and Technology. Details are in the website

www.iitd.ac.in

Areas of Activity

Cooperation Profiles

Dr.

Description/abstract (project idea, main goals):
Innovative aspects and main advantadges / benefits:
Target partner sought (Expertise, Type, Country):
Current stage of development:

ELICO LIMITED

Organisation

Address	Sanatnagar 500 018 Hyderabad India
Web site	www.elico.co
Phone	+91 40 23771262
Org. Type	SME - Small Medium Enterprise

Participant Details

Name	KV Satyanarayana Raju
Email	rajuk@elico.co

Organisation Details

“ELICO” The name which pioneered and gave new meaning and direction to the word Analytical Instrumentation in India and electronics in state of Andhra Pradesh,India and this word “Electronics” has now become the identity of Hyderabad. The company commenced its operations in 1959 slightly more than a decade after Independence of Country. It was a time when there were very few players nationally in the technology arena and none locally. It was a time when country needed indigenous capabilities and people who could take the onus on innovation and technology development with responsibility and contribute in the country’s growth.

That’s when ELICO was born, which has technologically grown to become a true leader in Instrumentation today by giving lot of emphasis to growth through innovation. The principles followed by ELICO have always helped it to stand out and create a unique identity and reputation as an innovator, which has contributed to the growth of indigenous technologies. This Philosophy has made R&D the backbone of ELICO. To keep pace with technology the company established its own R&D Wing since inception, which is recognized by the Department of Science & Industry Research (DSIR) Govt. Of India.

The Company started its venture with design, development & manufacturing of Analytical Instruments like pH Meters for the first time in India and kept on adding several firsts in the areas of Spectrophotometry, Electrochemistry, Flame Photometry, Water Quality Analysis etc. These instruments are extensively used in Agriculture departments, Research & Academic Institutions, Hospitals, Pollution Control agencies, Pharmaceutical, Chemical, Petrochemical, Steel, Cement and other Industries. Today the name ELICO has become synonymous with Analytical Instrumentation in India

Areas of Activity

Cooperation Profiles

Collaborative R &D

We are interested in Collaborative Research & Development projects in Designing of Analytical Instruments for Water Analysis

ELICO LTD

Organisation

Address	B-90, A.P.I.E, Sanathnagar 500018 Hyderabad India
Web site	www.elico.co
Phone	040-44451212
Org. Type	SME - Small Medium Enterprise

Participant Details

Name	KVSK PRASAD
Email	vskprasadk@elico.co

Organisation Details

ELICO LTD

The Beginning

? Established in 1959

? 1st Analytical Instrument Manufacturing Company in India and 1st electronic industry in the State of Andhra Pradesh

? Introduced the 1st PH meter in India and continued to add several firsts in the area of spectroscopy & electrochemistry

? 1st Analytical Instrumentation company in India to be certified for ISO 9001, ISO 14001 & ISO 27001 standards.

? 1st Analytical Instrumentation company in India to Provide R&D and Manufacturing Services to global analytical instrument Companies.

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Awards
The company’s contribution to the industry has been recognized for many a time. ELICO has won a number of Awards for its R&D effort in developing new technologies. Prominent among them are the nation’s highest awards,

the National awards for R&D effort in Industry from the Department of Scientific & Industrial Research, the National R&D award from the Department of Electronics and the National award for Quality products in Small Scale sector from Ministry of S.S.I., Govt. of India.

TECHNOLOGY SERVICES

Product Engineering and R&D Services

Elico works with manufacturers of various types of analytical instruments in providing product engineering and R&D Services.

- Over **50 years** of experience in Design and Development of Analytical Instruments
- Over **10 years** of experience in working with industry leaders in USA & Europe
- Domain Expertise in **Electrochemistry, Spectroscopy and chromatography** products

Our team consists of R&D Scientists (PhDs, Post Graduates & Instrumentation Domain Experts) Spanning in different engineering disciplines with multi-discipline and cross functional skills.

Services

? New Product Development

? Product R&D

? Ongoing Product Maintenance & Support

? Reverse Engineering & Re-engineering

? Prototyping & Testing

? Value Engineering

? Regulatory Compliance (CE, UL etc.)

? Engineering Analysis

? Application Engineering

? Global Sourcing

Case Studies

? Partnered with a global leader in Lab Instrumentation, to share ELICO's intellectual property and customize a product for Private Labelling

? For a global leader in Instrumentation, Elico has re-engineered an existing product to reduce the BOM cost by 50% and maintaining the same gross margin

? For a material testing instrumentation company, ELICO has designed and developed a PID based temperature controller with special functions involving firmware based alogorithms.

? Partnered with a US based OEM Start-up company to design an Online Water Quality Analyser instrument using Colorimetric & Potentiometric methods from concept to manufacturing.

Areas of Activity

Cooperation Profiles

French Institute of Pondicherry

Organisation

Address	Saint Louis Street 605001 Pondicherry India
Web site	
Phone	
Org. Type	Research Organisation

Participant Details

Name	Franz Fardin
Email	franz.fardin@ifpindia.org

Organisation Details

FIP, research center of the French Ministry of Foreign Affairs carries out research expertise and training missions in South and South-East Asia in the fields of Indology, Social Sciences and Ecology.

Areas of Activity

Cooperation Profiles

Great Bear Promontions

Organisation

Address	Hennur Road 560043 Bangalore India
Web site	www.greatbearpromotions.com
Phone	*918025431414
Org. Type	SME - Small Medium Enterprise

Participant Details

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Organisation Details

ABOUT US

Great Bear Promotions (GBP) is an organization committed to promote Clean Technology Initiative (CTI). That means it promotes products, processes, technologies, services, concepts, knowledge communications – in fact anything that is ultimately environmentally relevant. Eco-entrepreneurship is another area, which GBP addresses in conjunction with reputed organizations already working in the specialized field.

GBP promotes Rain Tap™ PopUp filters in India. The filters are scientifically designed, developed and patented by Karnataka State Council for Science, Indian Institute of Science, Bangalore and Technologies and approved by many Government and Private Organisations.

GBP uses a combination of approaches to create a flexible and effective self-promotion plan which helps organizations reach different markets and potential area of opportunities while creating a favorable opinion and attitude among various social & industrial segments.

Focus Area - Promoting Clean Technology Initiative with Special Emphasis to Water Segment. Campaign to Promote Water Literacy, in the area of Water Harvesting, Conservation & Usage Practice Method.

Mission Statement – We Dare to Care for your Initiative.

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Raintap PopUp filters and Sand bed filters with auto first flush lock to filter the water before storing for reuse or for ground water recharge.

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Reputed organizations: International Tech Park (ITPB), Taj ITPL, Karunashraya – Bangalore Hospice Trust, Home for Cancer patients run by Daughters of St. Camillus, Mallige Pharmaceutical College, GKVK Agriculture College, K.C. General Hospital, Memorial Church Whitefield, Ramaiah Institute of Management Science, Pharmaceutical Go downs, Institution of Agricultural Technologists, Sigma Arcade, Chord Road Hospital, CMR Information Technology College (CMRIT) - Whitefield, Maharani Ammani College, RSI Club – MG Road, BTL Engineering College, Unnati an NGO, SOS Children's Village – CSR Programme by Coco Cola India, Printman India, Triveni Aeronautics, Naptha Resins and Chemicals Pvt. Ltd., Bevel Gears, Mittal Towers, Divya Shree Towers, Prem Nivas – Sisters of Tarbs, Sisters of Charity, St Francis Xavier High School, St. Joseph Convent, B M English School, etc.

Government Bodies: BWSSB, BBMP, Sir M. Vishveshwaraya Rain Water Harvesting Theme Park, 5th Block, Jayanagar, Bangalore, etc.

Rain Water Centre at Utthan, UP.

VVIP Residences: Krishna – Hon. CMs Home Office, Anugraha – Hon. CMs Official Residence, Kaveri – Hon. Speaker's Official Residence, Mr. Katta Subramanya Naidu's residence – Hon. Minister for Excise, IT, BT and BWSSB, Residences of Mr. Subash Menon of Subex, Mr. Dasharathi G. V., CEO, of Cadem Technologies Pvt Ltd.,etc..

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Parks: AmarJyothiPark, TagorePark, HMTLayoutPark, AnandNagarPark, VeterinaryCollege Park, RajaRammannaPark, CitizenPark, etc.

PICO (micro) Hydel Project at Vanachalu, Coorg

Areas of Activity

Cooperation Profiles

Clean Technology Initiative.With special emphasis to Water

Technology and Funding support for Water and Energy Efficiency activity on a Pan india network on which our organisation is been working.

Great Bear Promontions

Organisation

Address	Hennur Road 560043 Bangalore India
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Org. Type	SME - Small Medium Enterprise

Participant Details

Name	Yvonne John Daniel
Email	gbpcti@gmail.com

Organisation Details

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PICO (micro) Hydel Project at Vanachalu, Coorg

Areas of Activity

Cooperation Profiles

Promoting Clean Technology Innitiative

Creating Youth Green Club at Educational Institution for students participatory and collaborative clean practice campaign with special emphasis to Rain Water Harvesting.

Great Bear Promotions

Organisation

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Web site	www.greatbearpromotions.com
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Org. Type	SME - Small Medium Enterprise

Participant Details

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Organisation Details

ABOUT US

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PICO (micro) Hydel Project at Vanachalu, Coorg

Areas of Activity

Cooperation Profiles

Clean Technology Intiative

Technology Support required for technologies in water and energy management

Great Bear Promotions

Organisation

Address	Hennur Road 560 043 Bangalore India
Web site	www.greatbearpromotions.com
Phone	+918025431414
Org. Type	SME - Small Medium Enterprise

Participant Details

Name	John Daniel
Email	gbpcti@yahoo.co.in

Organisation Details

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Rain Water Centre at Utthan, UP.

VVIP Residences: Krishna – Hon. CMs Home Office, Anugraha – Hon. CMs Official Residence, Kaveri – Hon. Speaker's Official Residence, Mr. Katta Subramanya Naidu's residence – Hon. Minister for Excise, IT, BT and BWSSB, Residences of Mr. Subash Menon of Subex, Mr. Dasharathi G. V., CEO, of Cadem Technologies Pvt Ltd.,etc..

Apartments: Samitha Manor, Silicon Tower, Sriven Heights, Sreja Fantasy, County Square, Mana Residency, Hebron, BELAIR, Sriram Spandana, Sriram Spoorthi, Purva Carnation, Spurthi, Sampurna, Parijatha, Sundale, Metta Residency, Prakash Citadel, Vishnu Enclave, Krishna Diamond, etc..

Parks: AmarJyothiPark, TagorePark, HMTLayoutPark, AnandNagarPark, VeterinaryCollege Park, RajaRammannaPark, CitizenPark, etc.

PICO (micro) Hydel Project at Vanachalu, Coorg

Areas of Activity

Cooperation Profiles

Promoting Clean Technology Initiative

Working in the space of water, energy and shelter (all eco-friendly and sustainable)

Gujarat Energy Research and Management Institute

Organisation

Address	PDPU Campus, Raisan Village 382007 Gandhinagar India
Web site	www.germi.org
Phone	91-79-23275362
Org. Type	Research Organisation

Participant Details

Name	Baleshwar Kumar
Email	baleshk@yahoo.com

Organisation Details

Gujarat Energy research and Management Institute (GERMI) is a registered trust and Society promoted by the Gujarat State Petroleum Corporation Limited (GSPC), a Government of Gujarat, India undertaking, with the mission to provide facilities and opportunities for creation of knowledge, develop blue print of futuristic energy technologies and new business opportunities, and to commit itself for societal good in all walks of human endeavour at macro as well as grass-root levels.

GERMI has been accorded the status of Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research (DSIR), Government of India.

GERMI?s objectives are research and contribute significantly to knowledge and assist need-based transformations on various dimensions of efficiency enhancement in extraction and use of energy with appropriate innovation and adaptation of various processes / operations technologies and integrated remediation and preventive approaches and, to help realize the scalable developments of newer technologies.

Areas of Activity

Cooperation Profiles

Water management

'Water Demand for Hydraulic Fracturing of a Unconventional Gas Reservoir and Modelling of Pollution caused due to Fracture Fluid'

Hislop College

Organisation

Address	Civil Lines 440001 Nagpur India
Web site	
Phone	
Org. Type	Research Organisation

Participant Details

Name	Prof. Kishore Waghmare
Email	prof.kishore@gmail.com

Organisation Details

Hislop college has more than 125years of history in field of education and research. One of the premieremost institutes under Nagpur University, Hislop College boasts of enormous numbers in research projects and education.

Areas of Activity

Cooperation Profiles

IIT hyderabad

Organisation

Address	Yeddumailarm 502205 Hyderabad India
Web site	
Phone	
Org. Type	University

Participant Details

Name	Shiv Govind Singh
Email	sgsingh@iith.ac.in

Organisation Details

We suggest to present your organisation in general, its history, products and services, and clients. Details about your specific research cooperation offer/demand should be inserted in the cooperation profile which follows on the next page.

Areas of Activity

Cooperation Profiles

Water quality chek sensors.

Description/abstract (project idea, main goals):

Main idea of the project is check the qulaity of river water from orgine to end by placing sesers net work at every 100 km.

Objective is to develop sensros which can check the quality of water without human intervention and send the information to consern the department periodically.

Innovative aspects and main advantadges / benefits: Free form manhaldling and leak proof.

Target partner sought (Expertise, Type, Country): Not yet

Current stage of development: Intial experiment to test the idea

Indian Institute of Chemical Technology

Organisation

Address	Uppal Road 500607 Hyderabad India
Web site	http://www.iictindia.org/
Phone	+914027191714
Org. Type	Research Organisation

Participant Details

Name	Mahipal Reddy Benjaram
Email	bmreddy@iict.res.in

Organisation Details

IICToffers globally competitive and environmentally viable technologies for Drugs and Drug Intermediates, Organic and Inorganic Chemicals, Agrochemicals, Catalysts, Polymer Coatings, Adhesives, Oils and many other technologies.

Areas of Activity

Cooperation Profiles

Energy and Environment

Description/abstract (project idea, main goals):
Innovative aspects and main advantadges / benefits:
Target partner sought (Expertise, Type, Country):
Current stage of development:

Institute of Chemical Technology

Organisation

Address	Nathalal Parekh Marg, Matunga 400019 Mumbai India
Web site	http://www.ictmumbai.edu.in/
Phone	
Org. Type	University

Participant Details

Name	Karan Chavan
Email	karan.chavan@gmail.com

Organisation Details

INSTITUTE OF CHEMICAL TECHNOLOGY

[UNIVERSITY UNDER SECTION-3 OF UGC ACT-1956 WITH MAHARASHTRA GOVT.'S ELITE STATUS AND CENTER OF EXCELLENCE]

MATUNGA, MUMBAI-400 019

International Standing and Accolades: Case for special status by the Government

The Institute of Chemical Technology (ICT) Mumbai was established as the Department of Chemical Technology on 1st October, 1933 by the University of Mumbai, through active support of industries and philanthropists. The Institute was most popularly known as UDCT, Mumbai. Research has been an integral part of ICT since its inception and it has created over 500 first generation entrepreneurs. The UDCT grew significantly in stature and was granted autonomy under UGC regulations by the University of Mumbai and further converted in to an Institute on 26th January, 2002. Under the World Bank TEQIP programme, the Maharashtra government granted it full autonomy in June 2004. Due to the recommendations of the Government of Maharashtra and University of Mumbai, the ICT was granted Deemed University Status by the MHRD on 12th September, 2008, with all provisions of the UGC for funding and support as the state owned deemed university.

The ICT has brought kudos to India, despite being at a disadvantaged position with reference to other technological institutes of national importance, particularly the IITS, IISc, ISERS, NISERs and Central Universities.The ICT has been receiving various grants and projects from the UGC, DAE, DBT, DST and other agencies, and Indian and foreign industries, with several centres of excellence: Centres of Advanced Studies in Chemical Engineering, Food Engineering and Technology, Pharmaceutical Science and Technology, Physico-Chemical Aspects of Textiles, Fibres, Dyes & Polymers; UGC Networking Resource Centre in Chemical Engineering; DBT-ICT Centre in Energy Biosciences; ICT-DAE Centre in Chemical Engineering Education and Research; Centre for Green Technology. The DAE has sanctioned ` 75 crores for the Centre in Chemical Engineering Education and Research with several projects from BARC and IGCAR for development of indigenous technologies for energy.

Merit is the only criterion for admission, including government reservation policy. Several merit-cum-means scholarships (261) are awarded to needy students which range from ` 3000 to ` 75000 per student per annum. Research has been an integral part of ICT, with state-of-the art research facilities, and hostels. The faculty is highly accomplished, with multi-disciplinary interests and decorated with national and international awards and honours. All leading foreign universities and industries seek ICT graduates. Last year, a record of 161 full-time Ph D students and 120 Masters students, all with fellowships, were admitted.

The foregoing demonstrates ICT’s International standing, meriting the criterion of a special status

Areas of Activity

Cooperation Profiles

Membrane Bioreactor

Membrane Bioreactor:

Submerged Membrane Bioreactor type for the separation of contaminants from groundwater and Waste Water.

Innovative aspects and main advantadges / benefits:

Less Energy Intensive and Sustainable process for Waste Water Treatment.

Target partner sought (Expertise, Type, Country):

Membrane Bioreactor, Submerged type. Lifecycle Assesment and sustainability and collaboration for process development in the same. European Countries.

Current stage of development:

Lab Scale Membrane Bioreactor Setup ready. Immediate goals to acheive separation of Groundwater Contaminants by the same.

Institute of Chemical Technology

Organisation

Address	Nathalal Parekh Marg, Matunga 400019 Mumbai India
Web site	www.ictmumbai.edu.in
Phone	022-33612114
Org. Type	University

Participant Details

Name	Chandrakanth Gadipelly
Email	chanduom01@gmail.com

Organisation Details

INSTITUTE OF CHEMICAL TECHNOLOGY

[UNIVERSITY UNDER SECTION-3 OF UGC ACT-1956 WITH MAHARASHTRA GOVT.'S ELITE STATUS AND CENTER OF EXCELLENCE]

MATUNGA, MUMBAI-400 019

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1. The MHRD had evaluated all deemed universities in the country in 2009 and granted “A” grade to 38 universities among 135 deemed universities. The ICT is rated as Number One Deemed University with “A” grade. It is the only one among 4 in Maharashtra State, the other 3 being centrally funded TIFR, TISS and CIFE.

2. Very recently the UGC decided to recognize faculty who has supervised as single guides at least 15 Ph.Ds. The ICT has a record of 11 faculty who qualified for special grants. The Director (Vice Chancellor) Professor G. D. Yadav is the topmost among all academics with supervision of 61 Ph.Ds. and 58 Masters degree holders. He is the only serving faculty in the State to be a Fellow of the TWAS- the Academy of the Developing World, Trieste, Italy, including Fellowship of INSA.

The Institute has a glorious history of 78 years, having produced many industrialists, academics, bureaucrats, Padma awardees, secretaries to Government Departments, directors of CSIR labs and over 500 first generation entrepreneurs. The institute has very strong linkages with industry and produced some of the topmost academics and industrialists. Some of the distinguished alumni includes- Padmavibhushan Professor M.M. Sharma, Member, Scientific Advisory Committee to the Cabinet, Padmabhushan Dr. R. A. Mashelkar, former Director General, CSIR, Shri Mukesh Ambani, Chairman and Managing Director, Reliance Industries, Padmashri Dr. K. Anji Reddy, Chairman, Dr. Reddy’s Lab, Shri Ashwin Dani, Vice-Chairman, Asian Paints Ltd., Shri C.V. Gogri, Chairman, Aarti Group of Industries, Dr. K. H. Gharda, Chairman and Managing Director, Gharda Chemicals and the Late Manubhai Shah, Commerce Minister in Pt. Nehru’s Cabinet.

The ICT has been receiving various grants and projects from the UGC, DAE, DBT, DST and other agencies, and Indian and foreign industries, with several centres of excellence: Centres of Advanced Studies in Chemical Engineering, Food Engineering and Technology, Pharmaceutical Science and Technology, Physico-Chemical Aspects of Textiles, Fibres, Dyes & Polymers; UGC Networking Resource Centre in Chemical Engineering; DBT-ICT Centre in Energy Biosciences; ICT-DAE Centre in Chemical Engineering Education and Research; Centre for Green Technology. The DAE has sanctioned ` 75 crores for the Centre in Chemical Engineering Education and Research with several projects from BARC and IGCAR for development of indigenous technologies for energy.

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The foregoing demonstrates ICT’s International standing, meriting the criterion of a special status.

Areas of Activity

Cooperation Profiles

Process intensification in defluoridation and dearsenification technology

Description/abstract (project idea, main goals): The project deals with the removal of fluoride and arsenic from grouundwaters which is creating threat to the rural population. Presently, many technologies are available but majority of the processes are economically not viable to the rural areas. Thus, the main objective of the project is to completely come up with a solution to the flouride and arsenic issues.

Innovative aspects and main advantadges / benefits: The new technology can be applied at the rural ends of the countries so that the rural masses will be benefitted.

Target partner sought (Expertise, Type, Country):

Current stage of development: The project is under progress and is at the lab scale and plans for pilot plant are in review.

Institute of Chemical Technology

Organisation

Address	Nathalal Parekh Marg, Matunga 400019 Mumbai India
Web site	http://www.ictmumbai.edu.in
Phone	
Org. Type	University

Participant Details

Name	Sachin Jadhav
Email	sachinjadhav72@gmail.com

Organisation Details

[UNIVERSITY UNDER SECTION-3 OF UGC ACT-1956 WITH MAHARASHTRA GOVT.'S ELITE STATUS AND CENTER OF EXCELLENCE]

MATUNGA, MUMBAI-400 019

International Standing and Accolades: Case for special status by the Government

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The ICT has brought kudos to India, despite being at a disadvantaged position with reference to other technological institutes of national importance, particularly the IITS, IISc, ISERS, NISERs and Central Universities. Its stellar performance is reflected in the following:

1. The MHRD had evaluated all deemed universities in the country in 2009 and granted “A” grade to 38 universities among 135 deemed universities. The ICT is rated as Number One Deemed University with “A” grade. It is the only one among 4 in Maharashtra State, the other 3 being centrally funded TIFR, TISS and CIFE.

2. The ICT has also been rated as Number One Institute by NPIU among 127 TEQIP funded Institutes, all over India, in October, 2010.

Areas of Activity

Cooperation Profiles

Studies in Water Treatment Technologies

Groundwater has become a source of drinking water since last few decades, due to the scarcity, non-availability and bacteriological pollution of surface waters in many developing and transition countries. Presence of various hazardous contaminants such as fluoride, arsenic, nitrate, sulfate, pesticides, other heavy metals etc. in ground water has been reported from different parts of world. In India, about 17 states have been identified as epidemic for fluorosis. The guideline value of WHO standards permits the optimum concentration of fluoride and arsenic ion in drinking water is 1.5mg/L and 10 µg/L for good health of mammals.

Presently, membrane units are in operation in villages at domestic level, which generates fluoride free water and concentrated fluoride stream. Hence, it is proposed to carry out the comprehensive study on the removal of fluoride as well as arsenic from concentrated retentate stream overcoming the drawback of membrane technology.

The combination of membrane filtration and chemical treatment will give a comprehensive process for the removal of fluoride and arsenic from ground water. This process can be adopted in major part of the country and also in other countries like Morocco, Algeria, Libya, Egypt, Jordan, Turkey, Iran, Iraq, Kenya, Tanzania, South Africa, China, Thailand, Canada, Saudi Arabia, Persian Gulf, Sri Lanka, Syria, etc. where the ground water contents excess of fluoride. The deliverables of the project are:

1. Rational utilization of concentrated contaminated water
2. Simple and affordable technology which will solve the health problems related to fluoride and arsenic
3. The concentrated calcium fluoride will be sold to fluoride manufacturer at same price to make entire system economically attractive.

Parameter studies such as effect of pH, reactant concentration, reactant ratio and temperature have been carried out to see particle size variation. Kinetic studies showed that reaction between F^- and Ca^{++} in aqueous is very fast and follows pseudo-first order kinetics. The reactant ratio studies showed that the increase in the calcium dose decreases final fluoride concentration upto USEPA and WHO standards.

Institute of Chemical Technology

Organisation

Address	Nathalal Parekh Marg, Matunga 400019 Mumbai India
Web site	www.ictmumbai.edu.in
Phone	9133612020
Org. Type	University

Participant Details

Name	Virendra Rathod
Email	virendrakrathod@gmail.com

Organisation Details

The Institute of Chemical Technology (ICT) Mumbai was established as the Department of Chemical Technology on 1st October, 1933 by the University of Mumbai, through active support of industries and philanthropists. The Institute was most popularly known as UDCT, Mumbai. Research has been an integral part of ICT since its inception and it has created over 500 first generation entrepreneurs. The UDCT grew significantly in stature and was granted autonomy under UGC regulations by the University of Mumbai and further converted in to an Institute on 26th January, 2002. Under the World Bank TEQIP programme, the Maharashtra government granted it full autonomy in June 2004. Due to the recommendations of the Government of Maharashtra and University of Mumbai, the ICT was granted Deemed University Status by the MHRD on 12th September, 2008, with all provisions of the UGC for funding and support as the state owned deemed university.

The ICT has brought kudos to India, despite being at a disadvantaged position with reference to other technological institutes of national importance, particularly the IITS, IISc, ISERS, NISERs and Central Universities.

Areas of Activity

Cooperation Profiles

International Water Management Institute

Organisation

Address	401/5, IWMI, ICRISAT Campus, Patancheru, Hyderabad - 502 324, AP, INDIA 502 324 Hyderabad India
Web site	www.iwmi.cgiar.org
Phone	+91 9949291132
Org. Type	Research Organisation

Participant Details

Name	Mahesh Jampani
Email	j.mahesh@cgiar.org

Organisation Details

IWMI is one of 15 international research centers supported by the network of 60 governments, private foundations and international and regional organizations collectively known as CGIAR. It is a non-profit organization with a staff of 350 and offices in over 10 countries across Asia and Africa and Headquarters in Colombo, Sri Lanka. IWMI's Mission is to improve the management of land and water resources for food, livelihoods and the environment. IWMI's Vision, reflected in the Strategic Plan is water for a food-secure world. IWMI targets water and land management challenges faced by poor communities in the developing world/or in developing countries and through this contributes towards the achievement of the UN Millennium Development Goals (MDGs) of reducing poverty, hunger and maintaining a sustainable environment. These are also the goals of the CGIAR. Research is the core activity of IWMI. The research agenda is organized around four priority Themes including Water Availability and Access; Productive Water Use; Water Quality, Health and Environment; and Water and Society. Cross cutting activities in all themes include, assessment of land and water productivity and their relationship to poverty, identification of interventions that improve productivity as well as access to and sustainability of natural resources, assessment of the impacts of interventions on productivity, livelihoods, health and environmental sustainability. IWMI works through collaborative research with many partners in the North and South and targets policy makers, development agencies, individual farmers and private sector organizations.

Areas of Activity

Cooperation Profiles

Sustainable water resources management

Description/abstract (project idea, main goals):

Innovative aspects and main advantadges / benefits:

Target partner sought (Expertise, Type, Country):

Current stage of development:

Jadavpur University

Organisation

Address	Raja S C Mallik Road 700032 Kolkata India
Web site	http://www.jaduniv.edu.in/
Phone	
Org. Type	University

Participant Details

Name	Chiranjib Bhattacharjee
Email	cbhattacharyya@chemical.jdvu.ac.in

Organisation Details

Jadavpur University is among the top ranking State Universites in India. The details about the University is available at the website: http://www.jaduniv.edu.in/.

Areas of Activity

Cooperation Profiles

Development of Enzymatic Membrane Reactor (EMR) for wastewater processing

Description/abstract (project idea, main goals): The main objective of this cooperation will be to develop enzymatic membrane reactor for wastewater treatment, which would reduce the pollution load and simultaneously recover some valuable constituents from the waste, leading to economic value addition in the process. This will be a part of the “zero-effluent concept” implementation with economic feasibility of the process

Innovative aspects and main advantages / benefits: As it has been mentioned, the main advantage will be the generation of “wealth from waste” which would simultaneously tackle the pollution problem.

Target partner sought (Expertise, Type, Country): The undersigned is interested to collaborate with suitable partner in Europe or Asia-Pacific region for the development of suitable EMR technology.

Current stage of development: Dr. Chiranjib Bhattacharjee is serving in the faculty position at Chemical Engineering Department, Jadavpur University for last 21 years and presently Professor & was ex-Head of the Department. He was involved in collaborative research with University of Montpellier, France and University of Melbourne, Australia. Apart from these, he was involved in several project activities as Principal Investigator/ Coordinator, funded by AICTE, DST, DBT, and UGC. He has supervised more than 20 Master Degree projects. Already, 7 Doctoral Degrees have been awarded and works have been in progress for 12 other candidates. He is having two Indian patents to his credit. Prof. Bhattacharjee has published more than 65 research articles in international journals of repute (published by Elsevier, American Chemical Society, AIChE, etc.). He has around 30 national research publications and numerous research papers in national/international conference to his credit. He is member of international review board in reputed international journals. He has several awards to his credit, like Best Project National Award (first prize) from AICTE, Best Paper Award Institution of Engineers (India) (IIE) and Indian Institution of Chemical Engineers (IIChE). Prof. Bhattacharjee is life member of IIChE, as well as IIE. Presently his research interest is on Environmental Remediation, Novel Separation Techniques, Bioremediation of toxic materials and production of functional foods

from waste materials. He is also working on implementation of Zero Effluent Concept in Dairy and Pulp & paper industries.

Jain Irrigation Systems Ltd., Jalgaon (India)

Organisation

Address	Jain Plastic Park, PO Box No. 72 425001 Jalgaon India
Web site	www.jains.com
Phone	
Org. Type	Company

Participant Details

Name	Abhijit Joshi
Email	abhijit.joshi@jains.com

Organisation Details

Each of our products is an outcome of an effort to conserve natures precious resources through substitution or value addition. This is the legacy of a deliberate and conscious endeavor that stems from a deep-rooted concern for nature.

There is more to Jain Irrigation than irrigation. The Corporation has multi product industrial profile and manufacturers of Drip and Sprinkler Irrigation Systems and Components; PVC, Polyethylene (HDPE, MDPE) & Polypropylene Piping Systems; Plastic Sheets (PVC & PC sheets); Agro Processed Products includes Dehydrated Onions and Vegetables; Processed Fruits (Purees, Concentrates & Juices); Tissue Culture, Hybrid & Grafted Plants; Greenhouses, Poly and Shade Houses; Bio-fertilizers; Green Energy includes Solar Photovoltaic (Solar lighting and appliances, Solar pumping systems), Solar water heating systems and Bio-Energy sources. We render consultancy for complete or partial project planning and implementation e.g. Watershed or Wasteland and / or Crop Selection and Rotation.

Areas of Activity

Cooperation Profiles

Micro Irrigation System

Description/abstract (project idea, main goals):

There is more to Jain Irrigation than irrigation. The Corporation has multi product industrial profile and manufacturers of Drip and Sprinkler Irrigation Systems and Components; PVC, Polyethylene (HDPE, MDPE) & Polypropylene Piping Systems; Plastic Sheets (PVC & PC sheets); Agro Processed Products includes Dehydrated Onions and Vegetables; Processed Fruits (Purees, Concentrates & Juices); Tissue Culture, Hybrid & Grafted Plants; Greenhouses, Poly and Shade Houses; Bio-fertilizers; Green Energy includes Solar Photovoltaic (Solar lighting and appliances, Solar pumping systems), Solar water heating systems and Bio-Energy sources. We render consultancy for complete or partial project planning and implementation e.g. Watershed or Wasteland and / or Crop Selection and Rotation.

Innovative aspects and main advantadges / benefits:

Irrigation & Plastic Piping

- Collaborative research on fertigation and irrigation scheduling with national & international institutes.
- Modernization of canal regulation for on demand water supply.
- Corrugated Large Diameter (upto 3000 mm) PE & PP Pipes.
- Inline automatic Screen & Media Filter
- PC emitter & PC-CNL dripper line
- Pressure compensating drip tape

- Development of low energy, low pressure drip irrigation system.

Target partner sought (Expertise, Type, Country):

Jain Irrigation System Ltd., Jalgaon (India)

Current stage of development:

JNTU

Organisation

Address	KUKATPALLY 500085 HYDERABAD India
Web site	
Phone	
Org. Type	University

Participant Details

Name	SRIKANTH BONAKURTHI
Email	bonakurthi@in.com

Organisation Details

jawaharlal Nehru Technological University, Hyderabad (**JNTU Hyderabad**) is a university, primarily focused on engineering, located in Hyderabad, India. Founded in 1965 as the **Nagarjuna Sagar Engineering College**, it was established as a university in 1972 by *The Jawaharlal Nehru Technological University Act, 1972*, also combining colleges in Kakinada and Anantapur.[1] In 2008 the*Jawaharlal Nehru Technological Universities Act, 2008* split the university back into four universities, Jawaharlal Nehru Architecture & Fine Arts University

Areas of Activity

Cooperation Profiles

Jonnalagadda LLP

Organisation

Address	Plot No 49 St No 2 NMDC Colony East Anandbagh 500047 HYDERABAD India
Web site	
Phone	+919849004146
Org. Type	Company

Participant Details

Name	J L N Murthy
Email	jonnalagaddallp@gmail.com

Organisation Details

We are International Law firm based in India have expertise on International Law, Corporate and scientific laws. We have a cleint base in India and world wide giving our services on Legal advisory and agreements.

Areas of Activity

Cooperation Profiles

Legal Advisory

Target partners are worldwide

Legal Advisory

Supporting major scientific projects in india and world wide.

Loyola college

Organisation

Address	Nungambakkam 600034 Chennai India
Web site	
Phone	
Org. Type	Other

Participant Details

Name	Mary Mangaiyarkarasi Swaminathan
Email	kannikamary@gmail.com

Organisation Details

The institution is academic based which fosters research in various fields. The institution has separate research center which focuses on multidisciplinary research.

Areas of Activity

Cooperation Profiles

MANEESH TP

Organisation

Address	KAKKANAD CSEZ PO 682037 KOCHI India
Web site	www.cmlre.gov.in
Phone	+91-9388153575
Org. Type	Research Organisation

Participant Details

Name	MANEESH TP
Email	manumgk07@gmail.com

Organisation Details

CMLRE, Cochin under the *Ministry of Earth Sciences*,Govt. of India has been organizing , coordinating and promoting ocean development activities in the country which inter-alia include mapping of the living resources, preparing inventory of com-mercially exploitable living marine resources, their optimum utilization through ecosystem management and R&D in basic Sciences on Marine Living Resources and Ecology.

Areas of Activity

Cooperation Profiles

MD RAZA ANSARI

Organisation

Address	GSITI COPLEX ,BANDLAGUDA,HYDRABAD 500068 HYDRABAD India
Web site	
Phone	
Org. Type	Governmental body

Participant Details

Name	MD RAZA ANSARI
Email	mdraza86@gmail.com

Organisation Details

The Geological Survey of India is the third oldest survey the World over that promotes capacity building by turning out thorough-bred professionals, specialists and fundamental researchers in all fields of geosciences and allied areas both within the department and outside. Established in 1976, with headquarters in Central India (Raipur) with an intent of providing Induction training to the new incumbents of the Survey, TI now radiating into entire spread of the country, has diversified its activities over a period of three decades by establishing Satellite Centres and in the process, shifted its headquarters to Hyderabad.

Areas of Activity

Cooperation Profiles

National Centre for Cell Science

Organisation

Address	University of Pune Campus 411007 Pune India
Web site	
Phone	
Org. Type	Research Organisation

Participant Details

Name	Abdul Khalique
Email	abdul_3885@yahoo.co.in

Organisation Details

The National Centre for Cell Sciences, Pune (NCCS) was established as a National Repository of Animal Cell Culture with a mandate of basic research, teaching & training, and as a national repository for cell lines/ hybridomas etc. It also conducts manpower development in animal tissue culture through training programmes/workshops and extends infrastructural facilities to researchers and institutions in biochemical sciences.

Areas of Activity

Cooperation Profiles

National Chemical Laboratory

Organisation

Address	Dr Homi Bhabha Road 411008 Pune India
Web site	
Phone	
Org. Type	Research Organisation

Participant Details

Name	Vivek Ranade
Email	vv.ranade@ncl.res.in

Organisation Details

National Chemical Laboratory is a premier research laboratory of CSIR (Council of Scientific and Industrial Research) in the broad area of chemical sciences. It started functionining in January 1950 and has made signficant contributions to chemical sciences as well as chemical industry in India.

Areas of Activity

Cooperation Profiles

National Environmental Engineering Research Institute (NEERI)

Organisation

Address	Nehru Marg 440020 Nagpur India
Web site	www.neeri.res.in
Phone	919370768460
Org. Type	Research Organisation

Participant Details

Name	Rima Biswas Mondal
Email	ra_biswas@neeri.res.in

Organisation Details

National Environmental Engineering Research Institute (NEERI), a constituent laboratory of CSIR dedicates itself in the service of mankind by providing innovative and effective solutions to environmental and natural resource problems. Established in 1958, CSIR NEERI is one of the Central Asia's premium and leading publicly funded research organizations dealing with environmental issues. NEERI has 104 scientific staff, 40 technical staffs and more than 100 research students.
The Council of Scientific & Industrial Research (CSIR) strives to provide scientific, industrial research and development that maximizes the economic & environmental and social benefit for the people of India. CSIR, with its complement of 10,000 highly qualified scientific & technical
personnel, is amongst the largest R&D organization in the world for scientific and industrial research.

Areas of Activity

Cooperation Profiles

Anaerobic Nitrification: oxidation of ammonia to nitrate under oxygen free condition

Description/abstract (project idea, main goals):

Conversion of ammonia to nitrate was observed in a sigle-stage biological nitrogen removal (SBNR) process which was supposed to carry our partial nitritation and anammox reaction in a single reactor under a condition where oxygen was completely excluded. The aim of the process was to convert ammonia to molecular nitrogen in single step, however, we were getting significant production of nitrates (50-70%). We wish understand the mechanism of the process and also wish to know whether this is a result of some new microbial community, or due to the adaptation of nitrifying bacteria under oxygen stress condition. Further, we wish to explore its potential advantages in wastewater treatment process.

Innovative aspects and main advantadges / benefits

Nitrification is considered as a aerobic process. How ammonia is oxidized to nitrate at an DO concentration of < 0.5 mg/L is speculative. If nitrate formation can take place under oxygen free condition, then the understanding on this process can change the way we look at nitrification process in wastewater treatment.

Target partner sought (Expertise, Type, Country):

We are looking for an expertise (1) in microbial charecterization of biofilm, and (2) molecular mechanism of this phenomenon.

Current stage of development:

Currently, it is only an off-shoot of another process and is at very preliminary stage.

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Participant Details

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Organisation Details

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Areas of Activity

Cooperation Profiles

Determination of Groundwater Recharge Patterns by Combining the Hydrological and Hydrogeochemical Parameters for Designing Sustainable Management

Abstract: Groundwater is indispensable to all life in arid and semi-arid regions particularly in hard rock terrenes that lack in large and perennial surface water bodies. Because most of the places surface water resources are scarce and in some places it is disappearing. For this reason demand for groundwater increases, groundwater managers are faced with the difficult task of ensuring the future viability of the resource. With the rise in public environmental awareness, groundwater managers are also concerned with protecting natural environments that dependent upon the groundwater, such as stream baseflows, riparian vegetation, aquatic ecosystems, and wetlands. Sustainable use of groundwater must ensure not only that the future resource is not threatened by overuse and depletion, but also

those natural environments that depend on the resource are protected. There will always be trade-offs between groundwater use and potential environmental impacts, and therefore a balanced approach to water use between developmental and environmental requirements needs to be advocated. However, to properly manage groundwater resources, managers need accurate information about the inputs (recharge) and outputs (pumpage and natural discharge) within each groundwater basin, so that the long-term behavior of the aquifer and its sustainable yield can be estimated or reassessed. Innovative aspects and main advantages: ? To understand the seasonal and interannual climate variations, land use, and recharge processes influence groundwater compositions. ? To understand the geochemical process or processes influence groundwater compositions observed in the aquifers. ? To understand the groundwater compositions vary spatially and temporally, and what factors or processes are responsible for these variations? Target partner sought (Expertise, Type, Country): Expertise: Groundwater Hydrology and Hydrogeochemistry Type: Collaboration Project Country: France or Germany

NATIONAL GEOPHYSICAL RESEARCH INSTITUTE

Organisation

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Areas of Activity

Cooperation Profiles

National Geophysical Research Institute

Organisation

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Org. Type	Research Organisation

Participant Details

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Organisation Details

We suggest to present your organisation in general, its history, products and services, and clients. Details about your specific research cooperation offer/demand should be inserted in the cooperation profile which follows on the next page.

National Geophysical Research Institute (NGRI), a constituent Laboratory of CSIR, was established in 1961 with the mission to carry out research in multidisciplinary areas of Earth Sciences. The Institute plays a pivotal role in the exploration of Hydrocarbons, Mineral and Groundwater resources in addition to studies in Engineering Geophysics, Seismology, Geo dynamics and Geo environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations. Capabilities Earthquake hazard assessment: Monitoring, modelling and zoning of seismically active regions, hazard assessment, quantiification of reservoir triggered seismicity. Engineering geophysics:Civil engineering and mining applications such as bedrock, tunneling, heavy engineering structures, rippability, dynamic elastic properties, Delineation of archaeological structures, vibration and noise studies for stability studies. Groundwater management studies:Assessment of groundwater resources and modeling of complex aquifer systems for hazard-free optimal management, water harvesting and subsurface recharge studies. Natural resource exploration: Reflection and refraction seismics, Deep resistivity, IP, EM, MagnetoTellurics, magnetic, gravity, scintillometric, helium-emanometry studies for the exploration of oil, groundwater and minerals such as coal, diamond, gold and base metals, and geothermal energy. Antarctic studies:Geophysical surveys to characterize subglacial basement geology, structure, tectonics, palaeo-reconstruction, wide-band seismic station, GPS measurements in Antarctica for crustal deformation studies. Marine geophysical surveys:Magnetic, gravity, seismic and bathymetric surveys in offshore regions for study of processes relating to the evolution of the Indian Ocean floor and hydrocarbon exploration. Airborne geophysical surveys:Multiparametric (magnetic, radiometric and electromagnetic) aero-geophysical (including helicopter borne) surveys, contour and image maps for regional and detailed studies. Interpretation of geophysical data:Processing, modeling, and inversion of geophysical data, preparation of depth-sections and image maps for natural resource exploration and geodynamic studies Study of deep crustal and lithospheric structures: Imaging through seismic soundings, seismic tomography, magneto telluric, gravity and geothermal investigations Environmental studies:Field investigation and modelling for waste disposal sites and migration of pollutants and suggestion of remedial measures.

Areas of Activity

Cooperation Profiles

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The National Geophysical Research Institute (NGRI), a premier Earth Science laboratory of the Council of Scientific & Industrial Research was established in the year 1961 for basic and applied research in Earth Sciences. Presently, the institute is engaged in themes such as Studies related to Lithosphere & Earth's interior, Exploration of natural resources, Earthquake hazard assessment, Management of Groundwater Resources and the Geo-environment. The Institute has a staff strength of 550 that includes about 150 highly qualified scientists doing extensive research in Earth Sciences assisted by an equal number of highly skilled technical staff for data acquisition, data processing and field investigations. NGRI has entered into the Golden Jubilee Year (October 2010 - 2011). Over the last five decades, NGRI has been in the forefront not only in providing a comprehensive understanding of the basic earth processes but also striving towards evolving responsive exploration strategies and tangible contemporary science solutions to sustain the country's natural resources. Currently, NGRI aspires to transform itself into a unique center of excellence relevant to high science as well as the country's societal and strategic needs.

Areas of Activity

Cooperation Profiles

Space geodetic applications in Hydrology and Water Resources

The Ganga river basin is the largest river basin in India. The total catchment area(862,769 km2) of the Ganga basin lies between east longitudes 73° 30' to 89° 0' and north latitudes 22° 30' to 31° 30' which falls in four different countries, namely India, Nepal, Tibet (China), and Bangladesh. The water resource potential of the Ganga basin (Jain et al., 2007) has been assessed at 525 billion m3 out of which 250 billion m3 is considered to be utilizable. The static and dynamic ground water resources of Ganga basin are 7834.1 km3/year and 170.99 km3/year respectively. The Ganga basin has an extremely high density of population. This dense population, coupled with high growth rate, which is leading to cause the groundwater depletion in the Ganga basin. Further, agricultural and industries are rapidly growing in the region. This will create substantial additional water demand as well as problems of water quantity. This scenario will be similar in all the countries in the Ganga basin. An estimated value of total mass loss rate of Indus- Ganga basin at Northern India region during the period (April, 2002–June, 2008) is 54 km3/yr (Tiwari et al., 2009) i.e., due to agricultural and domestic activities. Continuous monitoring of ground water level and river height measurements is very expensive. But, we can monitor with help of advanced satellite technology.

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Areas of Activity

Cooperation Profiles

National Geophysical Research Institute Hyderabad

Organisation

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Org. Type	Research Organisation

Participant Details

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Organisation Details

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Areas of Activity

Cooperation Profiles

National Geophysical Research Institute Hyderabad

Organisation

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Participant Details

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Organisation Details

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Areas of Activity

Cooperation Profiles

scientific developments and recent research deveplemnts in EU and India

Description/abstract (project idea, main goals):

Innovative aspects and main advantadges / benefits:

Target partner sought (Expertise, Type, Country):

Current stage of development:

National Institute of Nutrition (NIN)

Organisation

Address	Tarnaka 500007 Hyderabad India
Web site	
Phone	
Org. Type	Research Organisation

Participant Details

Name	N ARLAPPA
Email	arlappan@yahoo.com

Organisation Details

National Institue of Nutrition (NIN),Hyderabad is a premier research institute in India and one of several research institutes of Indian Council of Medical Research (ICMR), Ministry of Health,New Delhi.The main focus of research is public health nutrition, diet and water related diseases.

Areas of Activity

Cooperation Profiles

National Institute of Technology

Organisation

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Phone	+91 431 2503002
Org. Type	University

Participant Details

Name	Seshagiri Rao Ambati
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Organisation Details

The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli, situated in the heart of Tamil Nadu on the banks of river Cauvery, was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering to the needs of man-power in technology for the country. The college has been conferred with autonomy in financial and administrative matters to achieve rapid development. Because of this rich experience, this institution was granted Deemed Univer-sity Status with the approval of the UGC/AICTE and Govt. of India in the year 2003 and renamed as National Institute of Technology. NIT-T was registered under Societies Registration Act XXVII of 1975.

Areas of Activity

Cooperation Profiles

Optimization and control of waste water treatment plants

Description/abstract (project idea, main goals): To optimize and control various dynamic quantities which determine the performance of the waste water treatment plant.

Innovative aspects and main advantadges / benefits: To improve the yield and then to improve the profits.

Target partner sought (Expertise, Type, Country): Biological treatment of waste water, India

Current stage of development: Begining.

NGRI

Organisation

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Phone	
Org. Type	Research Organisation

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Organisation Details

We suggest to present your organisation in general, its history, products and services, and clients. Details about your specific research cooperation offer/demand should be inserted in the cooperation profile which follows on the next page.

Areas of Activity

Cooperation Profiles

Mr.

Work in the field of Karst hydrogeology ofr last four years. Key interests to do pumping, tracer tests, and other tests in karst areas of India. Want to meet and discuss with those working in the filed of carbonate aquifers of the world. Am currently workin as SRF for my PhD thesis.

NGRI

Organisation

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Participant Details

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Organisation Details

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Areas of Activity

Cooperation Profiles

NGRI

Organisation

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Participant Details

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Areas of Activity

Cooperation Profiles

Nizams Institute of Medical Sciences

Organisation

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Org. Type	University

Participant Details

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Organisation Details

NIZAM's INSTITUTE OF MEDICAL SCIENCES (NIMS), Hyderabad, is a University established under the Act 1989 of Andhra Pradesh State Legislature.

The objectives of the institute are:

1. to create a Centre of Excellence for providing medical care, educational and research facilities of high order in the field of medical science in the existing super specialties and such other super specialties that may develop in future, including continuing Medical Education and Hospital Administration
2. to develop patterns of teaching in post graduate level and in super specialties so as to set a high standard of medical education
3. to provide for training in paramedical and allied fields, particularly in relation to Super-Specialties
4. to function as a referral hospital and
5. to provide for post graduate teaching and conduct of research in the relevant disciplines of modern medicine and allied sciences, including interdisciplinary fields of physical and biological sciences

Areas of Activity

Cooperation Profiles

NORTH EAST INSTITUTE OF SCIENCE AND TECHNOLOGY JORHAT

Organisation

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Participant Details

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Organisation Details

We suggest to present your organisation in general, its history, products and services, and clients. Details about your specific research cooperation offer/demand should be inserted in the cooperation profile which follows on the next page.

North East Institute of Science and Technology (NEIST) Jorhat formerly known as Regional Research Laboratory (RRL) Jorhat is a full fledged multidisciplinary research institution under Council of Scientific Industrial Research (CSIR) having research areas like Materials Science, Medicinal Chemistry, Natural Products Chemistry, Synthetic Organic Chemistry, Biotechnology, Medicinal, Aromatic and Economic Plants, Geosciences, Petroleum and Natural Gas, Applied Civil Engineering, Chemical Engineering, General Engineering, Cellulose, Pulp and Paper, Coal, etc. Over the years, the laboratory has produced more than 100 technologies in the areas of Materials Science, Cellulose-Pulp and Paper, Agrotechnology, Biotechnology and Oil Field Chemicals etc. In its last fifty one years of existance, the institute has produced more than 250 Ph.Ds. to cater the skilled human resource needed for the region in particular and the country in general. Currently the institution is equipped with state-of-the-art instruments and infrastructure to carry out research in frontier areas of science and technology. It has one branch laboratory in Arunachal Pradesh near Itanagar at Naharlagun locality and two field stations in Nagaland and Manipur states, respectively, called NEIST Experimental Farm, Mokokchung and NEIST Sub-Station, Imphal.

In the field of water related research and services the institute has carried out number of activities like development of ceramic water filter candles, development of water treatment chemicals like Partially Hydrolysed Aluminium Chloride, polymeric anionic flocculants, active carbon based deflouiriding agents, hydrotalcite based defluoriding and arsenic removal agents, mapping Fluoride and Arsenic affected areas of Assam and North East, evaluation of water quality in petroleum drilling areas as well as coal mining areas, microbial water quality evaluation of many districts of Assam and North East etc. As well as the institute very regularly for many years is continuously keeping on providing analytical services on microbial, organic and inorganic water quality evaluation to various departments of state governments of North East India, State Electricity Boards, ONGCL, OIL, Hindusthan Paper Corporation, different refineries and petrochemical industries, defense establishments, different tea companies etc.

In the field of water related research the institute has also carried out Grant in Aid projects or joint activities with Department of Science and Technology, Ministry of Environment and Forests, Government of India Water Mission, DRDO etc. Under the funding of the DST the institute has carried water quality sensitization and popularization work in tribal villages of Arunachal Pradesh Recently, similar works the institute is taking up under CSIR 800 programme in 12 th plan to reach remaining areas of Arunachal Pradesh, Tripura and Mizoram.

Areas of Activity

Solution to Drinking Water Problem of Rural People of Land-Locked North East Region of India

Description/abstract (project idea, main goals):

- Selection of utilizable of locally available bio-waste materials to produce safe-drinking water.
- Self-assembly of nanoparticles onto bio-waste and other materials.
- Testing of modified materials for removal of harmful inorganics and bacteria for producing safe-drinking water.
- Preparation of filtering media, sparation barriers and evaluation of its performance for producing safe-drinking water.
- Lab scale testing of the process at NEIST, Jorhat for producing safe-drinking water.

Innovative aspects and main advantadges / benefits:

Relieving the water treatment engineers of NE Region of India from the costly chemical supplies sourced from outside the region which results in a price of water beyond the reach of common man.

Target partner sought (Expertise, Type, Country):

Industries and academic institutions from partner countries of EU having experience in inorganic, hybrid membrane based separations, arsenic and fluoride removal, nano materials, critical phase drying etc.

Current stage of development:

Lab scale testing undergone

Oriental Aquamarine Biotech India Private Limited

Organisation

Address	U 7, Kovaipudur 641042 Coimbatore India
Web site	www.nitrifying-bioreactor.com
Phone	00914222608943
Org. Type	SME - Small Medium Enterprise

Participant Details

Name	Mohan Kandaswamy
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Organisation Details

Oriental Aquamarine Biotech India P Limited (OAB) provides a patented solution for water quality and disease management in the aquaculture industry especially in the realm of seed production, and in the ornamental fish industry. The patented product offered is the Nitrifying Bioreactor. Nitrifying Bioreactors are a self-sustaining system that removes Ammonia and Nitrites created in Aquaculture tanks and helps maintain reef quality oligotrophic conditions in leading to the production of higher numbers of higher quality, larger and seed & fish biomass. Nitrifying Bioreactors can be used for various aquatic species and for salt-water, fresh-water and brackish water fish species as well.

The Nitrifying Bioreactor technology for Re-circulating Aquaculture Systems has been patented in India, under the Patent Cooperation Treaty (PCT) and in other countries like Thailand, Japan, Philippines, South Korea and Indonesia. The technology has been reviewed and appreciated in India and abroad. The project has been implemented with support from Department of Biotechnology, Government of India under SBIRI Program.

The company proposes to scale up its operations in India and other countries with a well-developed aquaculture industry via strategic partnerships. For details, please visit the website www.nitrifying-bioreactor.com

Areas of Activity

Cooperation Profiles

DETAILED PERFORMANCE EVALUATION AND ACCELERATED COMMERCIALIZATION OF THE NITRIFYING BIOREACTOR TECHNOLOGY IN EU REGION / USE OF NITRIFYING BIOREACTOR FOR BIOLOGICAL NITRIFICATION AND DE-NITRIFICATION OF WASTE WATER.

Description/abstract (project idea, main goals):

Nitrifying bioreactors were invented to establish closed recirculation aquaculture systems (RAS) for several cultivable aquatic species of finfish and shell fishes. RAS helps maintain stable water quality throughout the period of culture under biosecured conditions.

The nitrifying bioreactors (SBSBR and PBBR) were developed primarily for shrimp and prawn hatchery systems. Nevertheless, later on, it could be observed that the same systems would be applicable for a variety of finfish and shellfishes, for brood stock development, larval production, nursery rearing etc. Besides, a global requirement for the

technology could also be experienced covering even the temperate countries. These requirements lead to the development of the present project proposal.

Following are the objectives:

1. **Optimization of stocking density of variety of finfish and shellfishes to obtain maximum growth and survival rates.**

2. **Investigations on the diseases which might break out in RAS supported by the nitrifying bioreactors.**

3. **Immune response of the reared animals under recirculation over a period of time.**

4. **Level of stress experienced by the reared stock under recirculation supported with nitrifying bioreactors**

5. **Development of prediction model for biomass generation in the RAS supported with the nitrifying bioreactors with selected species of finfish and shell fishes.**

6. **Standardization of finfish and shellfish quarantine by integrating SBSBR**

Innovative aspects and main advantadges / benefits:

The Nitrifying Bioreactor Technology can be used for the establishment of recirculating aquaculture system.

Closed Recirculating Aquaculture System fitted with the 'Nitrifying Bioreactor' actively control water quality and helps maintain reef quality oligotrophic conditions for optimum growth and development of various aquatic species

The Nitrifying Bioreactors are activated with a consortia of nitrifiers immobilized on an inert substratum designed as cartridge. They grow as a biofilm and as water passes over them, nitrification is effected

The benefits / advantages from the field trials undertaken are given below:

- A shrimp (*Penaeus monodon*) maturation system was operational without any water exchange.
- The residual NH_4^+-N estimated in the rearing tank was around 0.1 PPM.
- No ammonia nitrogen could be recorded in the outgoing water
- Nitrite was recorded almost zero
- Nitrate always stood below 9 ppm
- The bacterial consortium used for activating the reactors have denitrifying bacterial population also which further convert Nitrates to elemental Nitrogen.
- The bioreactor hereby achieves complete conversion of ammonia to nitrogen.
- When the substrate concentration in the incoming water goes up, the rate of consumption also has been found increasing to maintain the required steady state ammonia nitrogen in the system.
- Total *vibrio* stoodwithin 30 - 50 cfu/ml.
- Ammonia consumption per PBBR has been found to be 1 ppm / hr and nitrite consumption 2 ppm / hr.
- Peak removal of ammonia and Nitrites takes place at the flow rate of 2500 Liters / hr giving a throughput of 60 tonnes / day.
- Under captivity in RAS, the animals could experience gonadal development, an observation which challenge the conventional thinking that *P. monodon* grown in ponds cannot be matured under captivity. This indicates that the conditions provided in the RAS integrated with the Nitrifying Bioreactor provided congenial environment and a steady state much required for a maturation system.

Detailed report of this and other trials are available in the website www.nitrifying-bioreactor.com and also in the publications attached in the website.

Target partner sought (Expertise, Type, Country):

- Recirculating Aquaculture System
- Water Treatment for removal of dissolved nitrogenous compounds
- Research Institutions
- Industry
- Denmark, Norway, Sweden, Germany, Finland, Belgium, Spain, UK, Turkey, Greece, France, Italy

Current stage of development:

The nitrifying bioreactors (SBSBR and PBBR) were developed primarily for shrimp and prawn hatchery systems. Nevertheless, later on, it could be observed that the same systems would be applicable for a variety of finfish and shellfishes, for brood stock development, larval production, nursery rearing etc. Besides, a global requirement for the

technology could also be experienced covering even the temperate countries. These requirements lead to the development of the present project proposal.

pManifold Business Solution

Organisation

Address	14, Ankur, LIC Colony, Khamla Road 440015 Nagpur India
Web site	www.pmanifold.com
Phone	9823758532
Org. Type	Company

Participant Details

Name	Sandeep Waghmare
Email	sandeep.waghmare@pmanifold.com

Organisation Details

Our company pManifold is a young Development Strategic Consulting boutique working in Emerging Markets, and we specialise in operationalising a new emerging business model, by engaging all stakeholders. Our long focus is in **Utility segment including Power, Water, Waste, Gas** etc. with our services in Research, Consulting and Stakeholder Engagement (see attached corporate profile). We have strong team of Global experts with our Senior Team and Advisors coming from top ranked institutes like IIT, IIMA, BITS Pilani, UT Dallas, Univ. of Michigan, HEC Paris, VNIT and others (see our team profile).

We take a very integrated approach (top-to-bottom and then bottom-to-top) in our focused verticals including Market Research, Customer Research, Investment and Financial Modeling, Technical Due Diligence, Stakeholder Engagement, Operationalization, and Scale-up. We have executed all these steps for one emerging Power Distribution Franchisee Model, and we are unique in our reach and work at all India level with our services in:

- **Customer Research: Customer Opinion, Preferences and Satisfaction surveys; service quality assessments etc. (see Ujjain sample case study)**
- **Market Research: Latest report 'Input-Based Power Distribution Franchisee Market in India'**
- **Financial Modeling:** Integrated Financial modeling for DF business; bid advisory and strategy facilitation
- **Technical Due-Diligence:** Measurement-based onsite Technical DD for estimation of capex, opex and loss reduction
- **Events:** organised a conference 'Utility Monitoring & Distribution Franchise – Enhancing SEB's performance'
- **Deal Tracker:** tracks all old and new RFPs and give benchmark DF attractiveness for location prioritisation/ selection
- **Network Community:** Our hosted Linkedin group 'Power DF' is unique with growing 450+ utility's top stakeholders
- **Blogs:** Our blog has the highest visibility amongst top decision makers in this industry segment

We maintain a high degree of Independent perspective in our work to be able to cater neutrally to all stakeholders for overall scale-up of the model - Bidders, DF operators, Discoms, Regulators, PE firms, Utility professionals, Vendors etc. Our special focus has been on the Customer studies in the emerging Utility model, as most of losses are directly or indirectly contributed by customers behavior and their interactions with the Systems, and all improvements are targeted to increase value to customers, and hence top line from them. For Electric utilities, we have surveyed some 5500+ customers across 4 utilities (both public and private) in 2 states, and another 1000+ for a Water utility. Our methodology is vetted with National and International experts, and we aim to establish a standard Customer Rating for various Utilities at All India level. **Some of our Blogs on our Customer Research:**

- Why Customer's Satisfaction & Preferences are important for Electricity Utilities?
- Can Customer Engagement at Utility help expedite AT&C loss reduction?

- Leveraging Customer Perspective for a stronger Onsite, Local Due-Diligence in Pre-Bid phase

Areas of Activity

Cooperation Profiles

Emerging Utility Management/Consulting

Description/abstract (project idea, main goals):

pManifold is a Utility & Emerging Markets Consulting company, and we specialise in operationalising new emerging business models, by engaging all stakeholders. Our long focus is in **Utilities:** Power, Water, Waste, Gas, Transport and **Non Utilities:** Banks, MFIs, Education, Health etc. with our services in Research, Consulting and Stakeholder Engagement (see attached corporate profile). We have strong team of Global experts with our Senior Team and Advisors coming from top ranked institutes like IIT, IIMA, BITS Pilani, UT Dallas, Univ. of Michigan, HEC Paris, VNIT and others (see our team profile).

Innovative aspects and main advantadges / benefits:

Our special focus has been on the **Customer studies** in the emerging Utility model, as most of losses are directly or indirectly contributed by customers behavior and their interactions with the Systems, and all improvements are targeted to increase value to customers, and hence top line from them. For Electric utilities, we have surveyed some 6000+ customers across 8 utilities (both public and private) in 3 states, 1000+ for a Water utility, and ongoing 2000+ for an Industrial Waste utility. Our methodology is vetted with National and International experts, and we aim to establish a standard Customer Rating for various Utilities at All India level.

Target partner sought (Expertise, Type, Country):

- Franchisee bidders for Indian Utility Sector

- Utility companies from out-of-india as well as India

Pondicherry Engineering College

Organisation

Address	Pillaichavady 605014 Pondicherry India
Web site	www.pec.edu
Phone	+91-413-2655281
Org. Type	University

Participant Details

Name	Raman Saravanane
Email	saravananae@gmail.com

Organisation Details

Pondicherry Engineering College (PEC), Pondicherry, located on the shores of Bay of Bengal, is one of the premier technological institutions in the southern part of the Indian sub-continent. Established in the year 1984, Pondicherry Engineering College is recognized as a benchmark institution in terms of defining the contours of quality engineering education for the technology schools across Indian and Asian continents. The institute offers Undergraduate, Post-graduate and PhD programmes in the major disciplines of engineering and technology. The Department of Civil Engineering and the Environmental Engineering Division are equipped with well qualified faculties and sophisticated instrumental lab facilities. The major areas of focus are water and energy confined to wastewater engineering and energy recovery, biotransformation of recalcitrant organics, membrane separation , hazardous waste treatment, sludge treatment and Disposal, reclamation of waste dumping sites. The Environmental Engineering Division has research collaboration under FP7 projects with few European Institutes/SMEs and UK. Specific research cooperation and clients include water & wastewater process technologies, reuse & biohydrogen recovery, biotransformation of recalcitrants, & MBRs for pahrmaceutical waste streams.

Areas of Activity

Cooperation Profiles

Advanced wastewater treatment process and bioenergy recovery - Modelling and optimization

Description/abstract (project idea, main goals):

The current methods of wastewater treatment practices are energy intensive and offsets the flexibility in plant operations. A choice would therefore evolve under an advanced way of practice comprising - more effective, economical, energy efficient, and sustainable methods and control. Because of these constraints, a sea chance in

the industry would be imminent and would repalce the course of treatment by innovative methods, recycle and reuse.

Innovative aspects and main advantadges / benefits:

Cutting edge technologies, Membrane bioreactor, minimised loadings on tertiary tretament processes, forward reverse osmosis. Advantages are water reuse & Balance on utility and tariff. Combined recovery would be possible through bioH2 and CH4.

Target partner sought (Expertise, Type, Country): Advanced Biological treatment process with energy recovery, Research and expertise at Municipal and industrial sectors. India and other tropical countries - interested in achieving energy efficiency, operational costs and sustainability.

Current stage of development: To be initiated and to be sought.

PVM Innvensys Pvt. Ltd

Organisation

Address	1-7-23/2/A, Sri Sai Krupa, JSN Colony, Str No.8, Habsiguda 500007 Hyderabad India
Web site	www.pvminnvensys.com
Phone	00914040165327
Org. Type	SME - Small Medium Enterprise

Participant Details

Name	Naga Ramaneshwar
Email	ramaneshwar@pvminnvensys.com

Organisation Details

We are an IT systems house with specific interest in Water SCADA and water related supply chain technologies.

For general information about us, visit. www.pvminnvensys.com

Areas of Activity

Cooperation Profiles

Water Supply Chain and SCADA

Description/abstract (project idea, main goals):

Water Supply Chain and SCADA

Innovative aspects and main advantadges / benefits:

Water SCADA, Consumption, Monitoring and Conservation

Target partner sought (Expertise, Type, Country):

Open

Current stage of development:

Concept

RAJ KUMAR

Organisation

Address	GSITI COPLEX ,BANDLAGUDA,HYDRABAD 500068 HYDRABAD India
Web site	
Phone	
Org. Type	Governmental body

Participant Details

Name	RAJ KUMAR
Email	raj61009@gmail.com

Organisation Details

We suggest to present your organisation in general, its history, products and services, and clients. Details about your specific research cooperation offer/demand should be inserted in the cooperation profile which follows on the next page.

Areas of Activity

Cooperation Profiles

STUDENT

Description/abstract (project idea, main goals):
Innovative aspects and main advantadges / benefits:
Target partner sought (Expertise, Type, Country):
Current stage of development:

STUDENT

Description/abstract (project idea, main goals):
Innovative aspects and main advantadges / benefits:
Target partner sought (Expertise, Type, Country):
Current stage of development:

Ramky Enviro Engineers Ltd

Organisation

Address	Raj Bhavan Road 500016 Hyderabad India
Web site	www.ramkyenviroengineers.com
Phone	040 44422222
Org. Type	Company

Participant Details

Name	Pulla Reddy Botta
Email	pullareddy@ramky.com

Organisation Details

Ramky Enviro Engineers Limited is Asia's leading provider of comprehensive environment management services. We offer a whole gamut of best-in-class services under various categories such as Waste Management - hazardous, municipal, biomedical & e-waste; Recycling - waste water, paper, plastic and integrated waste. In addition we also offer renewable energy, consultancy and integrated environment services. Our ISO 9001, ISO 14001, ISO 17025 and OHSAS 18001 certifications and state-of-the-art R&D facilities have set the platform for excellence in environmental and waste management. Constantly upgrading to the latest options in environmental sustainability is the theme of our action plan.

Since the commencement of operations in 1994 at Hyderabad, India, we have made consistent progress to become one of Asia's leading players in the infrastructure development and environment management sectors. We currently have a pan-India presence in 55 locations spread across 17 States and Union Territories and operate out of 8 regional offices. To facilitate our international forays, we have established offices in UAE, Singapore and Gabon, West Africa. As part of our blueprint to be an active participant in global economic progress, we have augmented our potential in key growth sectors including Infrastructure, Construction, EPC, Waste & Water Management, Real Estate, Farming, Manufacturing, Research, Finance and Investment.

Areas of Activity

Cooperation Profiles

Advanced Technologies in Water and Waste Water Treatment

REEL(Ramky Enviro Engineers Ltd) has significant in-house skills and experience in water and waste water treatment. The company has capabilities in membrane technology (MBR/UF/RO), high TDS effluent evaporation as well as sea water desalination. It caters to the needs of industrial and government sectors.

Services Offered:

- Turnkey Projects in:

    - ETPs/CETPs
    - Water Treatment Plants
    - Zero liquid Discharge Plants
    - Desalination Plants
- O&M services for all the above
- Technology Partner: General Electric (USA)

RESHMA M ANTONY

Organisation

Address	KAKKANAD CSEZ PO 682037 KOCHI India
Web site	www.cmlre.gov.in
Phone	+91-9895679733
Org. Type	Research Organisation

Participant Details

Name	RESHMA M ANTONY
Email	reshmamantony@gmail.com

Organisation Details

CMLRE, Cochin under the *Ministry of Earth Sciences*,Govt. of India has been organizing , coordinating and promoting ocean development activities in the country which inter-alia include mapping of the living resources, preparing inventory of com-mercially exploitable living marine resources, their optimum utilization through ecosystem management and R&D in basic Sciences on Marine Living Resources and Ecology.

Areas of Activity

Cooperation Profiles

Sarthak Social Society

Organisation

Address	193 Zakir Bagh 110025 New Delhi India
Web site	
Phone	991 078 1999
Org. Type	NGO - CSO

Participant Details

Name	Fasihur Rahman
Email	rahmanf@gmail.com

Organisation Details

Sarthak Social Society is a newly constituted NGO mandated to work for natural resources conservation, environmental protection and sustainabale development. The Society is also forstering awarness among marginalised section of the society on health related issues. Education is one of the thrust areas especially for rural India and women. The Society envision capacity building among poor people of rural areas.

The President of the society is particularly interested in water and wastewater managment for protecting waterbodies of India.

Areas of Activity

Cooperation Profiles

Environmental Professional

Fasihur Rahman possess diversified professional experience in project management, infrastructure development, watershed management, research, business development as well as integrated coastal and ocean management with private sector, government, academic institution and NGO.

Mr. Rahman has lived / worked with interdisciplinary team of professionals in India, UK, UAE, Saudi Arabia, and Canada. He posses Master in Environmental Science degree and the Advanced Diploma in Coastal Zone Management, both from Memorial University of Newfoundland, Canada. He has also presented in several national and international conferences in India and abroad. Mr. Rahman is a Canadian citizen but also holds Overseas Citizen of India (OCI) status, which is a life-long visa to live and work in India. He is widely travelled and has been to all over Europe.

Recently (Feb. 2010 to June 2012), Mr. Rahman was consultant to World Wide Fund (WWF) India on Living Ganga Programme funded by HSBC. Currently, he is associated with Sarthak Social Society, an NGO, mandated to foster environmental protection.

In light of Mr. Rahman’s experience and educational background, he can contribute in the following:

- Promoting business interest of a European company in India
- Representing a European academic institution in India and promoting various programmes offered by the institution

- Liaison with relevant departments, institutions and organizations for a European company/organization/institution

sassya consulting pvt ltd

Organisation

Address	3rd floor 230A Masjid Moth Shri Jin Kushal Suri Complex South Extension - II 110049 new delhi India
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Phone	+39-329-9785056
Org. Type	Company

Participant Details

Name	stefano giaccone
Email	s.giaccone@sassya.com

Organisation Details

Sassya Consulting is an innovative technology transfer firm operating in the field of sustainable development:

—To implement and promote an ethical business model of reference increasing in value intellectual capital for both private and public sectors of economy and allowing social welfare
—To be the first choice as financial and commercial service' promoter relating to the value of intellectual capital and to R&D project management

The objectives of Sassya Consulting in the field of green economy goes beyond identifying technology needs, enabling R&D cooperation and implementing applications narrowly.

Sassya Consulting will lead to the development of a transnational technology sharing environment that prioritizes technologies, recommends an enabling framework for the diffusion of these technologies and facilitates identification of good technology transfer projects, linking them to relevant industrial or institutional partners and financing sources.

Sassya Consulting will systematically address, through its projects, practical actions necessary to reduce or remove policy, finance and technology related barriers to sustainable development of society and to cultural and naturalistic heritage protection.

Sassya Consulting aims to bring together past and current knowledge, experience and relevant stakeholders in a dialogue and operative implementation process in order to face the main challenges that global society experiences to reach more sustainable lifestyles.

— SERVICES
BUSINESS PROCUREMENT

—Identification of business opportunities —Tangible and intangible assets exploitation strategies —Information supplements on potential partner companies —Promoting trade relations —Assistance in negotiation phase

ADVISORY ACTIVITIES

—Comprehensive managing of R&D projects participating international funding programmes —Analysis and evaluation of potential industrial and commercial partner companies —Economic and financial analysis of investment projects profitability Identification of appropriate financial coverage FINAL GOALS —To increase to value innovative technologies and intellectual capital such as operationally useful also in financial market — —To provide a new and stable means of access to credit for R&D companies and research centers — —To provide a new source of financial resources supply, rotating and always steady, to research and development — —To heap state-of-the-art technological innovation on less developed social strata, involving them in welfare and fair wealth reallocation — — To offer a

permanent platform for technology transfer and, therefore, of international economic integration and cooperation for Indian and European small and medium enterprises, R&D companies and research centers

Areas of Activity

Cooperation Profiles

Indo-European Cooperation Platform on Environment and Cultural Heritage

Description/abstract (project idea, main goals):

The project involves the design, development and testing of a new system of interaction between India and the EU in the field of education and applied research; the system is based on the sharing of knowledge within a space of joint aggregation, where public and private institutions will collaborate on research and implementation of technological systems and socio-economic models for a common sustainable development.

Main goals:

- to start single technology transfer pilot projects (technologies coming from EU transferred to India and viceversa from India to EU). The themes of testing of the new system will be sustainable development in relation to the natural environment and cultural heritage, both tangible and intangible.
- to design and build an Indo-European R&D center (technical+social sciences) and production plant

Innovative aspects and main advantadges / benefits:

- Innovative technology transfer model for environmentally sound technologies (EST) between EU and India

- Innovative and inclusive IPRs management model
- Fair access to EST and to financial markets (CDM) for SMEs, NGOs and GOV Bodies to support sustainable development (green economy and lifestyles) in emerging market context
- Reverse innovation process enhancement (TT from India to EU)

The joint higher education platform will allow to overcome the division between the world of research and study, compared to the world of business and work, the inefficiency of the process of technology transfer and the incompatibility of the research results to the needs expressed by the populations of the territories both of European Union and the Indian Union; this experimenting with innovative forms of interaction that lead to non-hierarchical structures of knowledge production and development.

Target partner sought (Expertise, Type, Country):

partners

- research centers
- universities
- sme
- ngo
- public bodies

fields

- environmentally sound technologies: start pilot projects focused on optimizing the introduction of low cost energy saving water purification/sterilization/ depuration technologies and correlated behavioural models in India and in EU
- cultural heritage protection and promotion technologies and models

Current stage of development:

Start up stage

savant instruments pvt ltd,hyderabad

Organisation

Address	saroor nagar 500035 hyderabad India
Web site	www.savantindia.in
Phone	9866777049
Org. Type	Company

Participant Details

Name	Y Bhanuprasad
Email	bhanu@savantindia.in

Organisation Details

we (savant instruemnts pvt ltd)started our organtiastion in 1999 with expreined engineers.presently we have provided solutions of various drinking water supply departments and waste water monitoring solutions and groundwater applications in hydrology , we have assisted the above departemnts to get the desired reults.

we are soultion providers for water qaultity and quantity like municipal engineering,power engiennering,pharma plants , scientific institutes and scada automation to suit the requirement of users . this is in colabartion with various EU companies like HACH- USA,OTT- Germny, hydrolab -USA.

we are also part of installtion and mainatnnce of above projects .ie laboratory and process sytems with data transfer technology to remote central station (SCADA).

Areas of Activity

Cooperation Profiles

project ideas

Description/abstract (project idea, main goals):

new methods for water quality monitoring , adavanced water treatment methods and water supply revenue audit.

School of Planning and Architecture, New Delhi

Organisation

Address	4B, I.P. Estate, New Delhi 110002 New Delhi India
Web site	www.spa.ac.in
Phone	9868731874
Org. Type	University

Participant Details

Name	Rabidyuti Biswas
Email	rabidyuti@gmail.com

Organisation Details

The School of Planning and Architecture is a full-fledged institution providing facilities for undergraduate and post-graduate education, research and consultancy in the fields of architecture, physical planning, landscape architecture, urban design and transportation planning. The Ministry of Human Resource Development, Government of India has recognized the specialized nature of the field in which the School provides higher education and training and research opportunities. It has conferred on the School the status of a deemed to be a university to broaden its academic programmes relating to human settlements and environment. The School of Planning and Architecture is fully funded university by the Ministry of Human Resource Development, Government of India.

Areas of Activity

Cooperation Profiles

Society for Participatory Research for Access to Development

Organisation

Address	14, Ankur, LIC Colony, Khamla Road 440015 Nagpur India
Web site	
Phone	
Org. Type	NGO - CSO

Participant Details

Name	Rajesh Rajankar
Email	rajnil_i@yahoo.co.in

Organisation Details

Society for Participatory Research for Access to Development (SPReAD) works towards the policy analysis and execution of projects providing a pathway to continued sustainable growth. The focus areas are

1. Access to Drinking Water
2. Access to Low-Cost Housing
3. Access to Maternal Health Care
4. Access to training for better employability

SPReAD has a strong backing of academic, field and corporate stakeholders driving us towards the vision set by our founders.

Areas of Activity

Cooperation Profiles

The Institute of Science

Organisation

Address	15 Madam Cama Road 400 032 Mumbai India
Web site	
Phone	
Org. Type	Research Organisation

Participant Details

Name	Balasaheb Kulkarni
Email	balasahebk@yahoo.com

Organisation Details

The Institute of Science called as Royal Institute of Science till 1947 is established in 1920. It is managed by Government of Maharashtra and affiliated to University of Mumbai. Today The Institute is full fledged premier post-graduate center for teaching and research in basic sciences. The Institute offers courses in subjects like Botany, chemistry, biotechnology, biochemistry, mathematics, microbiology, environmental sciences, and Zoology leading to M.Sc. and PH. D. degree.

Areas of Activity

Cooperation Profiles

Cooperation in Teaching and Research in Basic Sciences

Cooperation in teaching and research in basic sciences is essential to develop research culture in young minds. Now-a-days most of the young talent is attracted towards professional courses therefore day by day demand for post graduate courses in basic sciences is decreasing. Such decline will result into shortage of human resources for research in basic sciences in future.

THIAGARAJAR COLLEGE OF ENGINEERING

Organisation

Address	THIRUPPARANKUNDRAM 625015 MADURAI India
Web site	www.tce.edu
Phone	0452-2482240
Org. Type	University

Participant Details

Name	VEL RAJAN THANGARAJ
Email	tvciv@tce.edu

Organisation Details

Thiagarajar College of Engineering is one among the several educational,industrial and philanthropic institutions founded by Late. Sri.Karumuttu Thiagarajan Chettiar.This 55 years old institution,accredited by NBA,approved by the All India Council for Technical Education and affiliated to Anna University.The college offers 9 UG,14 PG and Research programs leading to Ph.D., degree in Engineering,Science and Architecture disciplines.

With the theme area of Eco-friendly structures, the department of Civil Engineerig equipped with state of the art laboratories involved in teaching,Research and consultancy activities .The department is funded with AICTE,UGC,MHRD,DST New Delhi,Tamil Nadu Pollution Control Board and Public Works Department for various Research and sponsored projects.

Areas of Activity

Cooperation Profiles

THIAGARAJAR COLLEGE OF ENGINEERING, Madurai

Organisation

Address	THIRUPPARANKUNDRAM 625015 MADURAI India
Web site	www.tce.edu
Phone	0452-2482240
Org. Type	University

Participant Details

Name	CHANDRAN SUNDARARAJ
Email	waterthelifeline@gmail.com

Organisation Details

Thiagarajar College of Engineering, Madurai is 55 yeras old Institution , aided by Tmail Nadu government , accredited by National Board of Accredation (NBA) approved by AICTE. This department of Civil Engineerimng offers 3 PG programme and one Ug programme. The main focus of the research is on Urban Environmental Management and Sustainable wastewater treatment and Reuse.

Areas of Activity

Cooperation Profiles

Research on Phtoremediation techniques for the contaminated sites

Description/abstract (project idea, main goals):

Land and water are the most prime natural resources and improper management of such resources leads to severe environmental problems. As freshwater sources become scarcer, wastewater use has become an attractive option for conserving and expanding available water supplies. Improving wastewater use in agriculture is an emerging priority. The scarcity of soil resources as human population continuously increases will inevitably force farmers to cultivate on contaminated area, especially in developing countries. The excessive accumulation of heavy metals in agricultural soils through wastewater irrigation, may not only result in soil contamination, but also lead to elevated heavy metal uptake by crops, and thus affect food quality and safety. Underthese circumstances the remediation of theses sites becomes inevitable so as to avoid the impact of biomagnification on human health. Hence Phtostimulation through ornamental plants may be introduced to these contaminated sites .

Innovative aspects and main advantadges / benefits:

Phytostimulation is the process where root released compounds enhance microbial activity in the rhizosphere. This process is critical for the applied technology of rhizoremediation that combines phytoremediation and bioaugmentation. The rhizosphere serves as a unique soil habitat, full of organic compounds that may serve as energy sources for microorganisms. The rhizosphere bacteria deserve special attention because they can directly improve the phytoremediation process by changing the metal bioavailability through altering soil pH, release of chelators (e.g., organic acids, siderophores), and oxidation/reduction reactions.

This methodolgy can be used in urban environments without changing existing landscape at relatively low cost for non-food chain plants. Hence there is no bioaccumulation and will be accepted by Public easily.

Target partner sought (Expertise, Type, Country):

Bioremediation, wastewater reuse and Sustainable wastewater treatment methods, Urban agricuture, spain, Italy, Netherlands

Current stage of development:

Madurai in the South India, is one of the oldest continuously inhabited cities with the population of 1.2 Million. The reuse of wastewater has become order of the day since 1924 at Avaniapuram Sewage Farm (ASF) over a French Drain arrangement for the cultivation of Grass. The excess water due to the increase in the population is used at Chottathatti channel which carries the excess wastewater from the Main Pumping station. Now these sites were selected for the remediation without affecting the livelihood of the farmers, who are irrigating this wastewater as a source for their agriculture. This wastewater is reused for agriculture without any treatment. Hence contaminated site can be remediated using the ornamental plants through phytostimulation.

VIT University

Organisation

Address	Chennai Road 632014 Vellore India
Web site	
Phone	
Org. Type	University

Participant Details

Name	Seenivasan R
Email	rseenivasan@vit.ac.in

Organisation Details

VIT University established in 1984 offers more than 50 Bachelor's and Masters' programmes. With student strength of 17000 (including 1000 foreign students from 44 countries) and 1100 faculty members, it is one of the top ranked universities in India and well recognized globally for its academic excellence through national and international accreditations. Over the years, VIT has established good international co-operation with Universities abroad for collaborative academic and research developments and has also created many centres of excellence in the emerging field of Science and Technology. VIT has introduced many best practices such as Fully Flexible Credit System, Innovative Teaching Learning Methods, Application Oriented Curriculum, and Quality Research jointly with Industry and International bodies. Students get numerous job opportunities with leading MNC's and internship/project work placements at partner universities all over the world via Semester Abroad Program through need based scholarships. VIT aims to serve as a role model among Asian Universities and deliver quality education meeting global needs.

Areas of Activity

Cooperation Profiles

VIT University

Organisation

Address	SMBS, 632014 Vellore India
Web site	www.vit.ac.in
Phone	09629835050
Org. Type	University

Participant Details

Name	Dr.Venkata Ravibabu Mandla
Email	ravi.mandla@vit.ac.in

Organisation Details

VIT University, was founded in 1984 as a self-financing institution called the Vellore Engineering College. The Union Ministry of Human Resources Development conferred University status on Vellore Engineering College in 2001. Programmes at VIT are accredited by National and International agencies such as NBA, NAAC, IET (UK), Energy Institute (UK). B.Tech in Mechanical Engineering, Civil Engineering and Electronics and Communication Engineering programmes offered at Vellore campus are accredited by the Engineering Accreditation Commission of ABET. B.Tech in Computer Science Engineering is accredited by Computing Accreditation Commission of ABET III Market Place, Suite 1050, Baltimore, MD 21202 – 4012, USA

Areas of Activity

Cooperation Profiles

In the field of Geomatics Application for Natural Resource Management

Description/abstract (project idea, main goals):

Innovative aspects and main advantadges / benefits:

Target partner sought (Expertise, Type, Country):

Current stage of development:

Vrutti Livelihood Resource Centre

Organisation

Address	# 1-873/5, Behind Noble School, Near Deshmukh Apartment, Venkatesh Nagar 585401 Gulbarga India
Web site	www.vrutti.org
Phone	+91 8023419616
Org. Type	NGO - CSO

Participant Details

Name	basavaraj honnappa
Email	basavaraj@vrutti.org

Organisation Details

Vrutti is a Livelihoods Resource Centre that works towards contributing to Livelihoods promotion, improving the quality of life of disadvantaged groups.

It works directly with the communities, supports other organisations, networks and individuals working on LH promotion, and engages at policy level to improve their efficiency and effectiveness.

Vrutti consolidates one and half decades of experiences of Catalyst group in the areas of livelihood promotion. **Vrutti's Strategy for livelihoods promotion** is **4E i.e.** Enterprise, Entitlements, Employment and Education in the sectors of:

- **Agriculture and Allied -** One of the recent prominent work of Vrutti in the sector has been development of an innovation model around agriculture Enterprise Facilitation Centre (AEFC), which aim at revitalizing agriculture extension system in India.
- **Integrated Water Resource Management:** In collaboration with partners implementing the EU funded Integrated Water Resource Management Project titled "People and Panchayat-led Equitable Water governance in three Agro-Ecological Zones in India" from April 2011. With a goal of improved health and livelihoods, the project seeks to establish and demonstrate a people and panchayat led equitable water governance model. The approach focuses on three critical areas – improving water supply through the development and management of water resources; improving management of demand for water through efficient use of water for different needs and equitable distribution/access; water governance through a people and panchayat led process that builds awareness and capacities to manage water resources. The project covers the three states of Gujarat, Karnataka and Andhra Pradesh. Vrutti is the lead partner in this project and is responsible for grant management and technical support.
- **Micro, small and medium enterprises** – Vrutti has developed an innovative approach of effectively strengthening micro enterprises through provision of Business Development Support (BDS) services, enterprise enablers
- **Micro-finance** – support to large mFIs, NBFC and wholesale organisations in product development, social performance assessment, livelihoods and BDS strategies, customer satisfaction studies; support to small mFIs in transformation through process support or mentoring. ,
- **Cross-sectoral Livelihoods:** Vrutti is supporting livelihoods promotion initiatives for disaster affected communities, People living with HIV/AIDS etc.

Relevant Experiences in Livelihoods Promotion

Vrutti is currently facilitating development of livelihoods strategy for PLHIV. The work has been entrusted by UNDP and NACO. The work includes understanding of social protection measures being undertaken by various states

in different prevalence situation. Vrutti is working as Livelihood and Micro enterprise Resource Agency for Tejaswani project Government of Madhya Pradesh supported by International Fund for Agriculture Development (IFAD).

Vrutti supported **WWF (India) for developing the cotton policy framework.** The study focus was on reviewing the financing schemes and spending pattern of four target state governments including Madhya Pradesh to understand how these could facilitate the promotion of better management practices (BMP) and their broader adoption in Cotton.

- **Vrutti conducted a Scoping study on Agricultural Information Delivery Services** for Tribal Communities for MPRLP is a Rural Livelihood Projects supported by DFID.Vrutti conducted a large scale action research for CALPI for understanding the dynamics of the traditional milk market, and facilitating actions for strengthening the sector (testing an action research methodology).***This Project received the ICAR National Award 2008 under Multi-Disciplinary Team Research in Agriculture and Allied Science***
- **Vrutti recently completed a study of Impact of Corporate Supply Chains on Value Chain Actors** in Fruits, Vegetables and Dairy Sector in three major cities of India – Bangalore, Hyderabad and Mumbai, supported by Oxfam Germany
- **Estimation of Micro enterprise Market in India and Value Chain Analysis** (Paddy, Coconut, flowers, Bamboo) to develop credit products for enterprises associated with large value chains in rural areas (sub-1 lakh population)
- Vrutti carried out a Situation Analysis of Salt Workers in Tamil Nadu for **UNDP** leading to **development of district level livelihoods intervention plan** for the salt workers.
- **Understanding Vulnerabilities of Agricultural Communities to Frequent Disasters and Coping Mechanisms** A Sample Study of Tsunami Affected Agricultural Villages in Nagapattinam District for NCRC, Tamil Nadu Livestock Improvement Federation (LIFE-TN Network) is a network of 21 Non-Governmental Organisations (NGOs) in Tamil Nadu, India. Project Planning and Proposal Development for Hivos and its Partners on **"Leveraging Research Knowledge Along Agriculture Value Chains"** under the Research into Use (RIU)initiative supported by DFID

Areas of Activity

Cooperation Profiles

Italian Centre for River restoration -CIRF

Organisation

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Participant Details

Name	Andrea NARDINI
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Organisation Details

CIRF is an NGO with a technical-scientific cut. Founded in 1999 by 10 professionals of different fields has the following objec

Mission: improve the state of riverine ecosystems and quality of
life:
tives: - Convince communities , policy makers
is key also to solve Flood and Droughts problem and can be economically rewarding and more sustainable
- Raise awareness, knowledge and competence at the national and international level
- Demonstrate how to translate theory into practice
- Stimulate and involve practitioners and DMs involved in river management

ACTIVITIES:

1) EDUCATION
2) INFORMATION
3) AWARENESS RISING
4) RESEARCH
5) INT.
COOPERATION
****

- Courses
- Study trips
- Opinion documents
- Guidelines
- Meetings/Seminars
- Pilot Projects and Studies

Areas of Activity

Cooperation Profiles

river management and restoration

Description/abstract (project idea, main goals):

current management of rivers all over the world has led to tremendous problems, not only in terms of water quality or water risk and management costs, and loss of several services provided by healthy ecosystems. The idea is to take advantage of the EU in order to helo India avoiding as far as possible such problems and acquire better management practices, while EU would and facing new challenges so improving methodologies and techniques and tools and widening the space for consultancy and

The main goal is to improve quality of life and nature value, while giving rise to opportunities for economic activities.

Innovative aspects and main advantadges / benefits:

the European Water framework Directive has pushed European countries to make enormous efforts to significantly improve th suming that benefits are larger than costs. A great effort is being currently spent to assess such benefits and prove that the eral experiences are showing positive results. Approach, methodologies and tools are all innovative and need to be conextual socio-economic-cultural context.

Target partner sought (Expertise, Type, Country):

Public administrations (river basin Authorities, Municipalities, State environmental Agencies, Flood protection and Urban & La ties and research centres, consultancies and NGO and local organizations/associations

Current stage of development:

Several experiences exist all over the world and, from what I have seen, something is moving also in India. But much is to be

Italian Centre for River restoration -CIRF

Organisation

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Organisation Details

CIRF is an NGO with a technical-scientific cut. Founded in 1999 by 10 professionals of different fields has the following objec

Mission: improve the state of riverine ecosystems and quality of
life:
tives:
River Restoration is key also to solve Flood and Droughts problem and can be economically rewarding and more sustainable
- Raise awareness, knowledge and competence at the national and international level
- Demonstrate how to translate theory into practice
- Stimulate and involve practitioners and DMs involved in river management

ACTIVITIES:

1) EDUCATION
2) INFORMATION
3) AWARENESS RISING
4) RESEARCH
5) INT.
COOPERATION
****

- Courses
- Study trips
- Opinion documents
- Guidelines
- Meetings/Seminars
- Pilot Projects and Studies

Areas of Activity

Cooperation Profiles

river management and restoration

Same profile and organisation of Andrea Nardini

Description/abstract (project idea, main goals):

current management of rivers all over the world has led to tremendous problems, not only in terms of water quality or water risk and management costs, and loss of several services provided by healthy ecosystems. The idea is to take advantage of the

EU in order to helo India avoiding as far as possible such problems and acquire better management practices, while EU would and facing new challenges so improving methodologies and techniques and tools and widening the space for consultancy and

The main goal is to improve quality of life and nature value, while giving rise to opportunities for economic activities.

Innovative aspects and main advantadges / benefits:

the European Water framework Directive has pushed European countries to make enormous efforts to significantly improve th suming that benefits are larger than costs. A great effort is being currently spent to assess such benefits and prove that the eral experiences are showing positive results. Approach, methodologies and tools are all innovative and need to be conextual socio-economic-cultural context.

Target partner sought (Expertise, Type, Country):

Public administrations (river basin Authorities, Municipalities, State environmental Agencies, Flood protection and Urban & La ties and research centres, consultancies and NGO and local organizations/associations

Current stage of development:

Several experiences exist all over the world and, from what I have seen, something is moving also in India. But much is to be

Sapienza - University of Rome

Organisation

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Organisation Details

Sapienza University of Rome was founded in 1303 by Pope Boniface VIII. It is the oldest university in Rome and the largest in Europe.

Sapienza is active in many fields of research and has achieved substantial results thanks to the work of its 11 faculties, 66 departments and scientific research centres.
Sapienza is an efficient institution dedicated to helping society through research, education and international cooperation.

The Chemical Material & Environment Engineering Department is one of the much active, in products engineering, in wastewater treatment and wastes recovery and valorization.

Areas of Activity

Cooperation Profiles

Recovery of value-added functional products from agro-industrial wastes

New chemical or biotechnological process are being developed for the recovery of bioactive compounds from agro-industrial wastes.

The wastes investigated include tomato pomace, coffee grounds, spent tea leaves, artichoke, apple and wild berries wastes.

The resulting extracts are used to prepare functional foods and cosmetic products.

Tecnopolis

Organisation

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Org. Type	Research Organisation

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Organisation Details

Tecnopolis is a research center cooperating with the University of Bari and particularly intereste din environment, food security and health. It counts with an active and young team of researchers lately interested in air quality and water management. More precisely, Tecnopolis is motivated in starting virtuous cooperative projects with eastern countries on high quality research on water and sanitation.

Areas of Activity

Cooperation Profiles

University of Calabria

Organisation

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Org. Type	University

Participant Details

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Organisation Details

The Institute on Membrane Technology (CNR-ITM) is a structure created by the Italian National Research Council (CNR - Consiglio Nazionale delle Ricerche) after a process of reorganization for the development, at a national and international level, of membrane science and technology.The Institute's mission is the multidisciplinary research, development, technology transfer and high education in membrane science and engineering as well as the application of membrane operations in various fields, including water treatment, gas separation, bio artificial organs, biotechnology, agro-food. This institute is internationally recognized for its skills in membrane preparation (organic, inorganic, mixed matrix, biohybrid membrane), transport phenomena, molecular membrane separation, catalytic membranes, catalytic membrane reactors, membrane contactors (including membrane emulsification and membrane crystallizer), integrated membrane processes, membrane in regenerative medicine and tissue engineering.

Areas of Activity

Cooperation Profiles

NEW INDIGO ,

Description/abstract (project idea, main goals):
Innovative aspects and main advantadges / benefits:
Target partner sought (Expertise, Type, Country):
Current stage of development:

Wageningen UR - Alterra

Organisation

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Participant Details

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Organisation Details

ALTERRA - Wageningen UR

Changes in climate have far-reaching consequences for river discharges, droughts and water quality. Risk analyses and forecasting are vital for decisions on large infrastructure investments. Alterra is an international research institute whose mission it is to help you find sustainable solutions for water management under global change.

As part of Wageningen University and Research Centre we offer you the pioneering research, training and advisory service to meet the challenges of climate change in your sector. Our experts support water companies, industry and government with tailor made hydrological and climate simulations, coping options, spatial planning, ecosystem research and agricultural systems.

Products and services offered

Alterra focuses on four main topics: rural development, biodiversity and ecosystem services, climate change and adaptation, and risk management.

Water stands for shortage (irrigation problems) and abundance (yearly returning floodings). Consequently, water needs attention. Alterra especially concentrates on:

- Environmental Quality and Risk Assessment
- Ecology and Environmental Hydrology
- Global change, climate, land use and biochemical cycles
- Management of land and water resources

Type of customers/end users

We regularly conduct research for European, national, regional and local governments. For example in the EU Research Programme 'Global Change and Ecosystems' Alterra contributed with expertise in climate change, water management, soil degrading, biodiversity, consequences of land use and landscape development. In the Netherlands we work for the ministry of Economics, Agriculture and Innovation, the ministry of Environment and Infrastructure, and the ministry of Defense. On a local level we work for the provinces, county councils and water boards. Internationally Alterra works together with the European Commission, EEA, World Water Council, GWP, World Bank, ADB, UNESCO, WMO, UNDP, IUCN, NWP and the FAO.

Profile of commercial contacts wanted

Your environment is our concern. We are looking for matchmaking with policymakers, planners, businesses and researchers that are interested in co designing sustainable solutions for our changing environment.

Areas of Activity

Alterra: Climate Change and Water Management

Description/abstract (project idea, main goals):

Changes in climate have far-reaching consequences for river discharges, droughts and water quality.
Risk analyses and forecasting are vital for decisions on large infrastructure investments. Alterra is an international research institute whose mission it is to help you find sustainable solutions for water management under global change.

Innovative aspects and main advantadges / benefits:

Target partner sought (Expertise, Type, Country):

Your environment is our concern. We are looking for matchmaking with policymakers, planners, businesses and researchers that are interested in co designing sustainable solutions for our changing environment.

Current stage of development:

Nansen Environmental and Remote Sensing Center

Organisation

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Org. Type	Research Organisation

Participant Details

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Organisation Details

The Nansen Environmental and Remote Sensing Center (NERSC) was established in 1986 as a non-profit research foundation affiliated with the University of Bergen. The Nansen Center conducts basic and applied environmental and climate research and according to its bylaws "*The Foundation's goal is to perform interdisciplinary research and development with focus on remote sensing and modelling with respect to scientific problems within the natural sciences.*"

The Nansen Center generate interdisciplinary scientific expertise in Earth system environmental and climate research, satellite remote sensing, modelling and data assimilation. Its research foci are in Earth sciences, particularly covering topics such as physical and biology oceanography, meteorology, sea ice/cryosphere studies, hydrology and climate studies, including remote sensing in all these themes. Satellite remote sensing has been a key research topic and research departments on marine and polar remote sensing and process studies were established from the start. The Center has been leading, both at national and international level, in the early developments of satellite oceanography for marine and polar research. Research staffs are members of several scientific advisory groups and committees of the major space agencies and national and international committies.

Areas of Activity

Cooperation Profiles

University of Warsaw, Institute of International Relations, Centre for Contemporary India Research and Studies IIR UW

Organisation

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Org. Type	University

Participant Details

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Organisation Details

University of Warsaw (UW), founded in 1816, is the best university and a leading research centre in Poland. The high level of scientific research, its connection with the education of students and the diversity and attractiveness of our teaching determines the position of the University in the country and worldwide. University of Warsaw is listed among top 4% of the World-Class Universities and recognized by prestigious international rankings such as the Academic Ranking of World Universities (AKA Shanghai Ranking), the QS Top Universities, the Times Higher Education World University Rankings and the CHE Excellence Group 2010 (subjects: chemistry, physics).
The Institute of International Relations, established in 1976, is the country's first academic institution, combining high quality research with teaching. It represents an interdisciplinary study integrating diverse approaches derived from political theory, sociology, law, history and economics. The principal areas of activity of the Institute of International Relations are as follows:

- Education in international relations with academic degrees awarded at three levels: 3-year undergraduate bachelor's programme (licencjat), 2-year graduate master's programme, and 3-year postgraduate doctoral programme. 1500 young people attended all types of B.A., M.A. and Ph.D. courses in the academic year 2008/2009, including 120 foreign students from more than 30 countries;
- Carrying out research (statutory and the Institute's own) and organizing conferences result in both individual and collective publications. Preparing academic handbooks for students and course books for secondary schools is an important element of the Institute's staff's work, in which extensive knowledge of international relations, professional and methodological approach as well as teaching experience are vital. An impressive number of the Institute's scientific personnel are also involved in delivering analyses, providing explanations and writing articles for daily and weekly newspapers;
- Doing expertise as a think-tank. This finds its expression in reports drawn up for the Ministry of Foreign Affairs, the commitment of several of the Institute's members to Polish foreign policy practice and the part they play in the work of other government bodies and Polish think-tanks;;
- The Institute's international cooperation. The Institute already prides itself on having the most internationalized student body in the country. It participates in the European Union Erasmus student and teaching exchange programme and what is more, it has well-established bilateral exchange programmes

The Centre for Contemporary India Research and Studies is an innovative and interdisciplinary centre of excellence at the Institute of International Relations, University of Warsaw, based on cooperation with the United Nations Development Programme, University of Hyderabad, Jawaharlal Nehru University and other 14 European and 8 Indian universities and highly specialized institutes.
The Centre consists of the European partners which are drawn from 10 different countries across Europe, including 3 new EU members and one country pursuing closer relations with the EU (Ukraine). More than 10 Indian partners come from various regions of India.

University of Minho

Organisation

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Org. Type	University

Universidade do Minho

Participant Details

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Organisation Details

The University is located in the Minho region of Northern Portugal, a region with an extremely strong tradition of vibrant enterprise, essentially of small and medium-sized businesses. The University of Minho has 9 research centres which are financed and classified by the FCT (Foundation for Science and Technology) as Excellent. The successful internationalisation of UMinho's research is shown by the rapid evolution in the number of ISI publications by its researchers, in the increasing number of European projects, both coordinated and participated in by UMinho's researchers, in the doctoral and Masters' programmes developed within the context of international partnerships (namely MIT-Portugal, CMU-Portugal and Harvard-Portugal) and the significant implantation of international knowledge networks in European, North American and Iberian American spaces. The research group BRIDGE responsible for an India-Portugal cooperation project in the topic of water quality and wastewater treatment is part of the Centre of Biological Engineering (graded excellent).

Areas of Activity

Cooperation Profiles

Anaerobic wastewater treatment. Anaerobic digestion of solid waste.

High-rate anaerobic technology is widely accepted for industrial wastewater containing readily degradable organic pollutants such as volatile fatty acids and carbohydrates. Lipids, either fat oil or grease (FOG) do not belong to this group. FOG hydrolysis results in the production of long chain fatty acids (LCFA) which have been, for several years, considered extremely toxic to anaerobic bacteria and a nuisance because they induce floatation of biomass. Since the success of conventional anaerobic treatment systems is based on optimisation of biomass sedimentation (granulation), floatation leads to washout and subsequent process disruption. Therefore, FOG is normally removed from wastewater prior to anaerobic treatment using e.g. dissolved air floatation. At the University of Minho we performed fundamental research that supported the development of the Inverted Anaerobic Sludge Blanket (IASB) reactor and the main operational characteristics of this novel reactor were defined. A compact and robust reactor is now fully developed, was demonstrated at pilot scale in a slaughterhouse and the first industrial reference is installed at a fish processing industry located in the nord of Portugal (A Poveira). The design principles and the operational performance of the IASB technology is established and fils a gap in existing anaerobic technologies for complex industrial effluents.

We are seeking for partner companies that can collaborate in the commercialization of this innovative wastewater treatment process.

CEBAS-CSIC

Organisation

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Participant Details

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Organisation Details

The Irrigation Department of CEBAS-CSIC, is an excellence research group which has worked from a long period of time in water sustainable management in Mediterranean Agrosystems. The Consejo Superior de Investigaciones Científicas (CSIC) is the largest public multidisciplinary research organisation in Spain. It has a staff of more than 10000 employees, among these 3202 scientists and about 3802 pre and postdoctoral researchers. The CSIC has been the 5th organisation in Europe in project execution and funding in 6th Framework Programme.

Irrigation Department of CEBAS-CSIC carry out scientific research and develop technology directed at improving agricultural development within a sustainable use of natural resources for more than 20 years. This department is composed for 7 Senior Staff Research Doctors, 2 Contracted Research Doctors, 2 Staff Technicians, 7 PhD. Students and 2 Contracted Techinicians. The main projects are based in these three topics: Regulated Deficit Irrigation (RDI), precision irrigation (automatisms and sensors) and in the last 5 years, the use on non-conventional water resources. The applicant has been one of the founders of this last research line during his Ph.D. and his return phase to the EU returning institution will undoubtly contribute to the reinforcement and broadening of this research line. Thus, the returned host institution will absorb the experience of the applicant through his incorporation into running research grants, where the experience and the increased scientific background of the fellow will be applied.

Areas of Activity

Cooperation Profiles

Soil Plant Atmosphere System Production

Objetive

To provide professional service to water users in the agricultural sector in order to optimize the available water resources through interactive irrigation scheduling strategies between, on the one hand, the needs and knowledge of the user and on the other hand, the state operating current production of the soil-plant-atmosphere system, ensuring the quality and safety of fruit.

Research lines

- Reclaimed water use and salinity
- Regular Deficit Irrigation (RDI)
- Plant physiology
- Food quality and safety
- Models (Alexis, Hydrus)

- Intensive plant production
- Agronomic economy
-

Main activities

- To reinforce research and development in irrigation programming through the use of indicators based on soil and plant water status.
- To advance our knowledge of water relations and the ecophysiological behaviour of species deemed to be of special socio-economic interest.
- To encourage the establishment of new irrigation strategies to mitigate the effects of water shortages.
- To study the water status behaviour of soil and its relations with plant root systems.
- To study the use of non conventional water resources for crop irrigation.

Activities

- Development of Best Management Practices
- Development of new technologies to determine actual evapotranspiration.
- Design of irrigation scheduling programmes and associated automation needs.
- Assessing the Sustainability: Salinity and other risks.

GAIA

Organisation

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Participant Details

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Organisation Details

GAIA is the Basque Country's Telecommunications Cluster Association. GAIA is the institution that represents practically all the companies of the Electronic, Computing and telecommunications Sector, which are based in Basque Autonomous Community. GAIA has 261 industrial members. 80% SME with a staff of 11,000 employees and a joint annual turnover of 2,100 million Euro These members have invested more than 105 million Europe on R&D.

GAIA is an active member of different technology platforms such as ARTEMISIA (ARTEMIS JU – Embedded Systems), ENIAC, EPoSS (Smart System Integration) and Smart Grids (Energy) platforms among others. GAIA has considerable experience in co-ordinating projects in association with other European enterprises and companies, and has participated in a number of EU funded projects in the IV, V, VI and VII FP

GAIA takes support actions for SMEs from this positioning:

- Strategic projects identification, when high level competitive consortiums are being built.
- Actions between large companies and SMEs in order to foster direct subcontracting.
- Actions between research entities, universities and SMEs, to have these last benefited from state-of-the-art R&D.
- Identification of strategic technologies for SMEs in the TPs SRAs

Areas of Activity

Cooperation Profiles

ICRA Catalan Institue for Water Research

Organisation

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Org. Type	Research Organisation

Participant Details

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Organisation Details

ICRA is a multidisciplinary water research centre. It is an international reference point in the research of the integral water cycle, hydraulic resources, water quality (in the broadest sense of the term: chemical, microbiological, ecological, etc.) and treatment and evaluation technologies.

The research carried out at the ICRA has to do with all the aspects related with water, particularly those associated with its rational use and the effects of human activity on hydraulic resources.

The ICRA is particularly interested in investigating and solving the impacts of drought, along with the aspects of quality in the treatment and reuse of water.

Areas of Activity

Cooperation Profiles

Analysis, fate and behavior of emerging contaminants in wastewater treatment

Study of the occurrence, fate and behaviour of pollutants in conventional biological waste water treatments

Fate and behaviour of pollutants in advanced treatments of waste water from domestic and industrial origin (membrane technology, advanced oxidation processes)

Study of the transformation of pollutants and their distribution between solid and liquid phases

Assessment of the ecotoxicological relevance of the emerging pollutants

Identification of new contaminants originating from the purification of water (ozonation, chlorination by-products)

ICRA Catalan Institute for Water Research

Organisation

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Organisation Details

ICRA is an international center focused on the research of the integral water cycle, hydraulic resources, water quality (in the broadest sense of the term: chemical, microbiological, ecological, etc.) and treatment and evaluation technologies. ICRA is particularly interested in investigating and solving the impacts of drought, along with the aspects of quality in the treatment and reuse of water, dedicating priority attention to the Mediterranean Sea. The Technology area develops and evaluates methodologies and technologies for optimizing resources, energy efficiency, and cost minimization of processes related to the irban water system.

Areas of Activity

Cooperation Profiles

UNIVERSIDAD DE CANTABRIA. E.T.S.I.I.y T.

Organisation

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Participant Details

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Organisation Details

The University of Cantabria (UC) is a young modern public institution whose main purpose is to contribute to social progress through a firm commitment to teaching and scientific excellence. Within the UC, the Sustainability Production Unit in Cantabria (SOSPROCAN) is a voluntary agreement between two research groups:

Advanced Separations Processes (PAS) group: Professor Inmaculada Ortiz is the head of this group with a large background in three different subjects: Environment and protection of natural resources, food and agriculture and chemical industry.

Development of Processes and Environmental Control group (DePRO) group: leaded by Professor Angel Irabien, this group has more than twenty years of experience and is ranked among the most important groups in the search of technical solutions applied to the chemical and process industries, applying sustainability criteria.

Both teaching and research activities are held in the Department of Chemical Engineering and Inorganic Chemistry located in the E.T.S. Ingenieros Industriales y de Telecomunicación.

Areas of Activity

Cooperation Profiles

Sustainable evaluation of water purification and reuse

One of the current challenges within production process selection is the integration of sustainability criteria together with technical and financial requirements. The quantitative assessment of economical, social and environmental issues in the whole life cycle (cradle to grave approach) assures that the actual selection leads to “green processes”.

In the case of groundwater treatment for the removal of arsenic and fluorides, the considered approach is of great interest as the advantages of having superior quality water can be balanced against the environmental, social and economic impacts. By this way, it is possible to select the best arsenic and fluoride treatment process for drinking groundwater under sustainability-based criteria.

For example, while additional quantities of calcium hydroxide can be used to improve precipitation processes, additional emissions of pollutants to water, air and soil will be released in the supply chain. Additionally, this chemical is imported from other countries then there is no benefits for the community (the added value is diluted).

UNIVERSIDAD DE CANTABRIA. E.T.S.I.I.y T.

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Organisation Details

The University of Cantabria (UC) is a young modern public institution whose main purpose is to contribute to social progress through a firm commitment to teaching and scientific excellence. Within the UC, the Sustainability Production Unit in Cantabria (SOSPROCAN) is a voluntary agreement between two research groups:

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Both teaching and research activities are held in the Department of Chemical Engineering and Inorganic Chemistry located in the E.T.S. Ingenieros Industriales y de Telecomunicación (Santander, 39600, SPAIN)

Areas of Activity

Cooperation Profiles

Environmental Assessment of Drinking Water treatment

Millions of persons in many districts in India are drinking groundwater with arsenic and fluoride concentrations far above acceptable levels. Thousands of people have already been diagnosed with poisoning symptoms, even though much of the at-risk population has not yet been assessed for health problems. In this context, water purification is of major importance to cover the increasing drinking water demand in India, to solve health problems and to alleviate poverty, although water treatment processes need to follow the green chemistry principles in order to be sustainable and to promote a sustainable water management.

In the work presented in the Cooperation Days a generic and systematic powerful methodology based on the European IPPC and IPP criteria in order to develop a multiobjective index to perform the environmental sustainability evaluation of drinking groundwater treatment alternatives for arsenic and fluoride removal. Two scenarios are considered: (i) conventional processes, that is adsorption and precipitation processes, and (ii) membrane processes as an innovative alternative. This decision tool instrument allows us to select the best treatment process for arsenic and fluoride removal from drinking groundwater using sustainability-based criteria.

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Organisation Details

The university of Cantabria is a young modern public institution whose main purpose is to contribute to social progress through a firm committment to teaching and scientific excellence. In order to achieve these goals, it strives to constantly improve the quality of its work through a process that revises and improves its teaching, research and administrative activities. The application of this process has made the UC outstanding among Spanish universities due to its quality and scientific productivity.

The "Advanced Separation Research group" is one of the most actives teams at UC. Its main activities apply Process engineering methodologies with sustainability criteria to a wide range of applications, emphasizing water regeneration processes and indutrial effluents treatment for water reuse and recovery of valuable compounds.

Areas of Activity

Cooperation Profiles

Sustainable technologies for cleaning water containing arsenic and fluoride. Treatment of industrial effluents with water recycling and reuse

Research on the integration of effective technologies for cleaning water polluted with arsenic and fluoride.

Research on the sustainability of available processes

Treatment of industrial effluents with water recycling and recovery of valuable compounds. Case by case analysis of the sustainable treatment technologies that boost water reuse and at the same time recovery of valuable compounds. High water consuming sectors will constitute the first target, e.g., paper making companies, chemical companies, metallic surface companies etc

UNIVERSITY OF SANTIAGO DE COMPOSTELA

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The Group of Environmental Engineering and Bioprocesses belongs to the Department of Chemical Engineering at University of Santiago de Compostela (USC), Spain. According to the number of research projects and SCI publications, it can be considered one of the best groups of Environmental Engineering in Spain. USC is one of the historical Universities in Spain, founded in 1495. The university has more than 2,000 lecturers and more than 300 research groups.

Areas of Activity

Cooperation Profiles

Environmental Engineering

Description/abstract (project idea, main goals):

Our research group is involved since 1985 in the development of novel wastewater treatment technologies. In the period 2006-2011, the group was awarded with 8 EU and 40 national research projects and 49 contracts with companies; its publication capacity was of 284 publications, from which 170 were SCI publications; 3 patents were presented and 169 communications to international conferences were made. Since 2006, the group is recognised as a “Group of Excellence” and it was awarded recently with the “Martinez Moreno Prize 2011”.

The main topics of research include:

1. Removal of micropollutants from hospital and municipal wastewater. The group has studied the fate of these substances in CAS, MBR, enriched Nitrifying and Anaerobic reactors.

2. Removal of nitrogen by Nitrification-denitrification, Autotrophic denitrification, Anammox

3. Membrane bioreactors, specially focussing on Hybrid systems

4. Anaerobic (co-)digestion. This line develops a dynamic model of the process, based on that developed by IWA (ADM1) and also studies anaerobic (co-) digestion of organic solid wastes, especially agro-industrial wastes.

5. Aerobic granulation. The application of aerobic granular systems to industrial wastewater treatment (dairies, canneries, swine slurry ...) has been studied for years. Nowadays the focus in valorisation of different liquid wastes by means of the utilization of mixed cultures to accumulate their organic carbon fraction present in these effluents in the form of polyhydroxyalkanoates (PHA).

6. Recovery of phosphate as struvite.

7. Environmental Management: Life Cycle Assessment and carbon footprint

Innovative aspects and main advantadges / benefits:

All research topics are focussed on innovative processes which try to improve the current waste and wastewater treatment processes

Target partner sought (Expertise, Type, Country):

Industrial partners intereseted in the scale-up of these processes

Research groups working on similar topics interested in presenting EU projects

Current stage of development:

The technologies developed in the frame of topics 2-6 are already optimized at pilot scale, although new concepts are being studied at lab scale.

EPFL

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EPFL is one of the Swiss Federal Institutes in Switzerland. Like its sister institution, ETHZ, it has three missions: education, research and technology transfer at the highest international level. Associated with several specialised research institutes, the two EPFs form the EPF domain, which is directly dependent on the Federal Department of Home Affairs. Since 2005, EPFL has been appointed to develop and manage the Indo Swiss Joint Research Programme (ISJRP) (http://indo-swiss.epfl.ch). The ISJRP is jointly financed by the Swiss State Secretariat of Education and Research (SER) and the Indian Department of Science and Technology (DST). Its goal is to further cooperation in strategic scientific and technical areas relevant to Switzerland and India.

Areas of Activity

Cooperation Profiles