

# **KNOWLEDGE SHARING IN ENVIRONMENTAL MANAGEMENT**

## **Partnership between GPCB, ICC, and ALEPH CARE**

**Advanced Practices in  
Environnemental Management  
Remediation of Contaminated Soil &  
Groundwater – Case Studies  
Wastewater Treatment – Zero Liquid  
Discharge Concept – Potential and  
Limitations in Biological Treatment**

**JUNE 13-14, 2016  
GPCB Auditorium, Paryavaran Bhavan,  
Sector 10 A, Gandhinagar  
Gujarat - 382010**

**Advanced Practices in  
Environnemental Management  
Remediation of Contaminated Soil &  
Groundwater – Fundamentals and  
Overview of Remedial Strategies  
Wastewater Treatment – Zero Liquid  
Discharge and Biological Treatment  
– Trouble Shooting and  
Optimization**

**Air Pollution – Management Of  
Diffuse Emissions**

**JUNE 15-16, 2016  
Hotel Lords Plaza, Ankleshwar, Gujarat**

### **Background and general framework**

**Knowledge sharing in environmental management - a joint initiative between the Environmental Authorities of Gujarat, the Indian Chemical Industry and Aleph Care (Belgium)**

In coherence with their formal commitment to address the challenge of pursuing economic development and care for the environment and environmental health, the Gujarat Pollution Control Board and the Indian Chemical Council initiated with Aleph Care, Belgium-based Consultancy, a Knowledge sharing program in the field of environmental management.

The basis for the Knowledge sharing program has been laid down in a tri party *Memorandum of Understanding* undergone by Aleph Care and Indian Chemical Council with Forest and Environmental Department, Government of Gujarat. The official certificate has been issued to Aleph Care and ICC during function held 13<sup>th</sup> January, 2015, in presence of Hon'ble Cabinet Minister Forest and Environment Department - Government of Gujarat - and Hon'ble State Minister Forest and Environment Department, along with Additional Chief Secretary Forest and Environmental Department, and Chairman Gujarat Pollution Control Board.

The capacity building program, which is organized under the aegis of ICC, is managed by Aleph Care in close cooperation with the GPCB and ICC, and is executed by high level experts from industry and service providers in the field of environmental management.

To structure the knowledge sharing, training sessions - which are the backbone of the programme - are organized in 2 different locations in Gujarat and cover key topics and challenges of environmental management.

To launch the approach, first training courses were organized in 2015 on the field of *Environmental remediation of chemically contaminated sites*, and *Design and operation of biological wastewater treatment plants*. As a clear sign of its commitment, GPCB hosted in June 2015 the first training course on Environmental remediation in its Auditorium in GPCB Head Office, Gandhinagar. Building on the excellent feedback received from the participants to the first sessions, the decision has been taken to further roll-out the concept this year, and to propose a new series of training sessions.

## PROGRAM - 1

### Advanced Practices In Environmental Management Remediation of contaminated soil & groundwater – case studies Wastewater treatment – zero liquid discharge concept – potential and limitations in biological treatment June 13-14, 2016

GPCB Auditorium, Paryavaran Bhavan, Sector – 10 A, Gandhinagar, Gujarat - 382010

DAY ONE:		13 JUNE, 2016
09:00 - 09:30	Registration	
09:30 - 09:45	Welcome Address	ICC / GPCB
09:45 - 10:15	Introduction of the Program	Mr. Philip Mullier
10:15 - 11:45	Session 1 Environmental remediation – case studies (part 1) - Hexavalent chromium contamination in West Bengal, India - Investigation and remediation of a PCE impacted automotive facility. (Indian site)	Mr. Jaydeep Parikh
11:45 - 12:00	<b>Coffee / Tea Break</b>	
12:00 - 13:30	Session 2 Environmental remediation – cases studies (part 2) - Groundwater management of a site impacted by dichloroethane and mercury (Spain) - Survey of remedial approaches for soil/groundwater contamination by mercury	Mr. Thierry Duren
13:30 - 14:30	<b>Lunch Break</b>	
14:30 - 16:00	Session 3 Environmental remediation – case studies (part 3) - Assessment of the effectiveness of steam injection in accelerating the remediation of soil & groundwater contaminated by 1,2 dichloroethane (Ferrara Site – Italy)	Mr. Aldo Trezzi
16:00 - 16:15	<b>Coffee / Tea Break</b>	
16:15 - 17:45	Session 4 Environmental remediation – case studies (part 4) - Soil and groundwater contamination by hexavalent chromium and chloromethanes (Italian site)	MM. Thierry Duren / Aldo Trezzi
17:45 - 18:00	Question & Answers	

DAY TWO:		14 JUNE, 2016
09:00 - 09:15	Opening remarks	Mr. Ph Mullier
09:15 - 11:15	Session 5 Environmental remediation – cases studies (part 5) - Investigation and remediation at a Chemical manufacturing facility. Contamination by volatile organics including phenols, petroleum hydrocarbons and acetone. (Indian site)	MM. Jaydeep Parikh / Aldo Trezzi

	- Bioremediation of groundwater contaminated by Chlorinated Compounds and Chromium VI (industrial site located in northern Italy)	
<b>11:15 - 11:30</b>	<b>Coffee / Tea Break</b>	
11:30 - 13:00	Session 6 Design and operation of wastewater treatment plants – Approach of an Integrated treatment scheme - Zero liquid discharge	<b>Mr. Ashish Naik</b>
<b>13:00 - 14:00</b>	<b>Lunch Break</b>	
14:00 - 15:30	Session 7 Design and operation of wastewater treatment plants – Biological wastewater treatment units – potential and limitations (part 1)	<b>Mr. Cees Vallentgoed</b>
<b>15:30 – 15:45</b>	<b>Coffee / Tea Break</b>	
15:45 - 17:15	Session 8 Design and operation of wastewater treatment plants – Biological wastewater treatment units – potential and limitations (part 2)	<b>Mr. Cees Vallentgoed</b>
<b>17:15 - 17:30</b>	<b>Concluding remarks</b>	<b>Mr. Philip Mullier / ICC / GPCB</b>

## PROGRAM-2

**ADVANCED PRACTICES IN ENVIRONMENTAL MANAGEMENT**  
**Remediation of Contaminated Soil & Groundwater – Fundamentals and Overview of Remedial Strategies Wastewater Treatment – Zero Liquid Discharge and Biological Treatment – Trouble Shooting and Optimization, Air Pollution – Management of Diffuse Emissions**  
**June 15-16, 2016 ❖ Hotel Lords Plaza, Ankleshwar. Gujarat**

<b>DAY ONE:</b>		<b>15 JUNE, 2016</b>
<b>09:00 - 09:30</b>	<b>Registration</b>	
<b>09:30 - 09:45</b>	<b>Welcome Address</b>	<b>ICC</b>
<b>09:45 - 10:00</b>	<b>Introduction of the Program</b>	<b>Mr. Philip Mullier</b>
10:00 - 11:45	Session 1 Environmental remediation of chemically contaminated sites – Fundamental concepts and methodological approach	<b>MM. Jaydeep Parikh / Thierry Duren / Aldo Trezzi</b>
<b>11:45 – 12:00</b>	<b>Coffee / Tea Break</b>	
12:00 - 13:45	Session 2 Environmental remediation of chemically contaminated sites – Overview of remedial strategies and techniques	<b>Mr. Jaydeep Parikh / Thierry Duren / Aldo Trezzi</b>
<b>13:45 - 14:45</b>	<b>Lunch Break</b>	
14:45 - 16:15	Session 3 Air Pollution - management of diffuse emissions (Webinar part 1)	<b>Mr. Jean-Paul Bindelle</b>
<b>16:15 – 16:30</b>	<b>Coffee / Tea Break</b>	
16:30 - 17:45	Session 4 Air Pollution - management of diffuse emissions (Webinar part 2)	<b>Mr. Jean-Paul Bindelle</b>
<b>17:45 - 18:00</b>	<b>Question &amp; Answers</b>	

<b>DAY TWO:</b>		<b>16 JUNE, 2016</b>
<b>09:00 - 09:15</b>	<b>Opening remarks</b>	<b>Mr. Philip Mullier</b>
<b>09:15 - 11:00</b>	Session 5	<b>Mr. Himanshu Gondaliya</b>

	Design and operation of wastewater treatment plants – Integrated treatment scheme - Zero liquid discharge – trouble shooting and optimization	
<b>11:00 - 11:15</b>	<b>Coffee / Tea Break</b>	
11:15 - 13:15	Session 6 Design and operation of wastewater treatment plants – Biological treatment units – advanced techniques, troubleshooting and optimization (part 1)	<b>Mr. Cees Vallentgoed</b>
<b>13:15 - 14:15</b>	<b>Lunch Break</b>	
14:15 - 15:45	Session 7 Design and operation of wastewater treatment plants – Biological treatment units – advanced techniques troubleshooting and optimization (part 2)	<b>Mr. Cees Vallentgoed</b>
<b>15:45 - 16:00</b>	<b>Coffee / Tea Break</b>	
16:00 - 17:15	Session 8 Design and operation of wastewater treatment plants – Biological treatment units – advanced techniques troubleshooting and optimization (part 3)	<b>Mr. Cees Vallentgoed</b>
<b>17:15 - 17:30</b>	<b>Concluding remarks</b>	<b>Mr. Philip Mullier / ICC</b>

## **REGISTRATION FORM**

### **“TRAINING PROGRAMMES IN ADVANCED PRACTICES IN ENVIRONMENTAL MANAGEMENT”**

**Organized by GPCB and ICC**

#### **Programme 1**

**Date : June 13-14, 2016**

**Topic : Remediation of contaminated soil & groundwater – case studies, Waste water treatment – zero liquid discharge concept – potential and limitations in biological treatment.**

**Venue : GPCB Auditorium, Paryavaran Bhavan, Sector – 10 A, Gandhinagar - 382010**

#	Name of Delegate	Designation	Mobile no.	Email id

#### **Programme 2**

**Date : June 15-16, 2016**

**Remediation of Contaminated Soil & Groundwater – Fundamentals and Overview of Remedial Strategies, Wastewater Treatment – Zero Liquid Discharge and Biological Treatment – Trouble Shooting and Optimization, Air Pollution – Management of Diffuse Emissions**

**Venue : Hotel Lords Plaza, GIDC, Old NH 8, Ankleshwar, Gujarat**

#	Name of Delegate	Designation	Mobile no.	Email id

#### **Registration Fees**

**Rs. 5,000 (plus 15% Taxes) per delegate per programme.**

Kindly draw the cheque / DD in favour of “Indian Chemical Council” and send to :

### **Indian Chemical Council – Gujarat**

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Alkapuri, Vadodara - 390007      Telefax : +91 265 234 2969  
E-mail : icceventsgujarat@gmail.com / iccvadodara@iccmil.in**