

### Venue

Stockholm Convention Regional Centre for Asia on POPs, India  
(CSIR-NEERI)  
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### Accommodation

Lodging and boarding will be provided to the participants  
by CSIR-NEERI, Nagpur.

### Daily Subsistence Allowance (DSA)

The DSA will be provided to the participants as per rules.

### Note :

The complete name & address of the participants including their respective organization should be indicated through fax/ e-mail.

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# CSIR-NEERI

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NEERI

Training Programme  
on

**Capacity Building for Environmentally Sound  
Management of PCB Oil and PCBs Containing  
Equipments, at Ship Breaking Yard,  
Alang, Gujarat, India**  
(November 21-29, 2011)



Supported by



Secretariat of Stockholm Convention, Geneva



Organized by

(CSIR-NEERI)

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## Background/Preamble

Polychlorinated biphenyls (PCBs) are synthetic aromatic compounds notorious for their recalcitrance and potential toxicity. The chemical and physical stability along with electrical insulating properties led to their commercial utility. Apart from the commercial utility, the chemical and physical stability of PCBs are responsible for the environmental contamination and have been deemed hazardous to human and environmental health. All PCB congeners are lipophilic and have very low water solubility. On the basis of these properties, PCBs are highly persistent, and they can be expected to partition into the atmosphere and accumulate within food chains. These characteristics predispose them to environmental persistence and to long-range transport. They intensively adsorb on to particles in air, soil and sediment and accumulate in fat-containing tissues. PCBs can be released into the environment from poorly maintained hazardous waste sites that contain PCBs; illegal or improper dumping of PCB wastes; leaks or releases from electrical transformers containing PCBs; and disposal of PCB-containing consumer products into municipal or other landfills not designed to handle hazardous waste. PCBs may also be released into the environment by the burning of some wastes in municipal and industrial incinerators.

The proposed training programme will be organized at CSIR-NEERI, Nagpur and at Ship Breaking Yard, Alang, Gujarat which is one of the most highlighted Ship Breaking Industry in the globe. The training programme is not only meant for workers of ship breaking yard but also for the officials from different agencies who are directly or indirectly involved in handling and disposal of PCBs and PCBs containing equipments. The stakeholders/experts invited from different countries for the capacity building programme which will directly benefit them for tackling PCBs in an environmentally sound manner. Capacity building on environmentally sound management of PCBs in the training programme will inspire the concerned authorities and general public to understand risk associated with handling of PCBs, urgency to stop its use permanently, and decontaminate the contaminated areas in a scientific manner.

CSIR-NEERI was nominated as Stockholm Convention regional centre for Asia region in September 2010 and has been endorsed as the Regional Centre for Capacity Building and Technology Transfer for Asia Region at COP-5 meeting held at Geneva, 2011.

Your active participation will help not only to enrich the knowledge but also to spread the message on awareness of PCBs. We look forward to welcome you at Nagpur.

## Topics

- The Stockholm Convention on POPs
- An introduction to POPs including newly added POPs
- PCBs: A threat to the environment
- Sources of PCBs contamination
- Health impacts of PCBs
- Issues related to PCBs in Asia region
- Status of PCBs in Nepal
- Status of PCBs in Sri Lanka
- Status of PCBs in Bangladesh
- Legal situation of PCBs in India
- PCB contaminated site characterization and identification for decontamination
- Analytical techniques / tools for identification of PCBs in different matrices for identification of contaminated sites
- Guidance for environmentally sound management techniques / technologies for PCBs and PCBs containing equipments on; Handling, Storage and Disposal
- Field visit to Ship Breaking Yard, Alang
- Training of workers at the ship breaking yard on environmentally sound handling and disposal of PCBs and PCBs containing equipments

## Experts

- CSIR-National Environmental Engineering Research Institute (CSIR NEERI)
- Ministry of Environment and Forests, Government of India
- Central Power Research Institute (CPRI), Bangalore, India
- Officials of Ship Breaking Yard, Alang
- Central and State Pollution Control Boards