



## Regulators Training on Continuous Emission Monitoring System: From Understanding to Implementation 6 - 10 February, 2017

Day 1 (6 February, 2017)			
09:30 - 10:00 am	<b>Registration</b>		Kanika Bahel, Research Associate, CSE
10:00 - 10:30 am	<b>Welcome &amp; Introduction</b>	<ul style="list-style-type: none"> <li>- About CSE</li> <li>- About Regulator Training Programme</li> <li>- About CSE's CEMS Programme</li> </ul>	Nivit Kumar Yadav, Sr. programme Manager, CSE
10:30 - 11:00 am	<b>Tea</b>		
11:00 - 11:30 am	<b>Status of CEMS implementation and relevance of training</b>	<ul style="list-style-type: none"> <li>- CEMS implementation status in India</li> <li>- Importance of training programme</li> <li>- Programme agenda</li> </ul>	Sanjeev K. Kanchan, Programme Manager, CSE
11:30 - 12:30 am	<b>Particulate Matter CEMS</b>	<b>Technology selection</b> <ul style="list-style-type: none"> <li>- Available technology options</li> <li>- Points to check for regulators</li> <li>- Discussion</li> </ul>	Sankar Kannan, National manager, SICK
12:30 - 01:30 pm		<b>Operation and Maintenance</b> <ul style="list-style-type: none"> <li>- Calibration</li> <li>- Zero and span check</li> </ul>	Sankar Kannan, National manager, SICK
01:30 - 02:30 pm	<b>Lunch</b>		
02:30 - 03:30 pm	<b>Group exercise</b>	<b>Inspection checklist preparation for PM CEMS installation</b> <ul style="list-style-type: none"> <li>- Technology options</li> <li>- Installation- location and position</li> <li>- Calibration and maintenance</li> </ul>	Kanika Bahel, Research Associate, CSE
03:30 - 04:00 pm	<b>Tea</b>		
04:00 - 05:00 pm	<b>Group presentation</b>	PM CEMS- inspection checklist preparation	Sanjeev K. Kanchan, Programme Manager, CSE
Day 2 (7 February, 2017)			
09:30 - 10:30 am	<b>Gaseous CEMS</b>	<b>Technology selection</b> <ul style="list-style-type: none"> <li>- Technology option and installation</li> <li>- Points to check for regulators</li> <li>- Discussion</li> </ul>	Angshuman Paul, Director, Adage Automation
10:30 - 11:00 am	<b>Tea</b>		
11:00 - 12:00 am		<b>Operation and Maintenance</b> <ul style="list-style-type: none"> <li>- Calibration</li> <li>- Zero and span check</li> </ul>	Angshuman Paul, Adage
12:00 – 01:30pm	<b>Group exercise</b>	<b>Group exercise- checklist preparation for PM CEMS installation</b> <ul style="list-style-type: none"> <li>- Technology options</li> <li>- Installation- location and position</li> <li>- Calibration and maintenance</li> </ul>	Kanika Bahel, CSE

01:30 - 02:30 pm	<b>Lunch</b>		
02:30 - 04:00 pm	<b>Group presentation</b>	PM CEMS- Check list preparation	Sanjeev K. Kanchan, CSE
04:00 - 04:30 am	<b>Tea</b>		
04:30 - 05:00 pm		<b>Quality assurance</b> - Certification process - System in EU and US	Sanjeev K. Kanchan, CSE
<b>Day 3 (8 February, 2017)</b>			
	<b>Site visit</b>	- PM CEMS installations and Operation & maintenance - Gaseous CEMS installation and Operation & maintenance	Angshuman Paul, Adage  Sanjeev K. Kanchan, CSE
<b>Day 4 (9 February, 2017)</b>			
09:30 - 10:30 am	<b>Effluent Quality Monitoring Systems</b>	<b>Technology selection</b> - Technology option and installation - Points to check for regulators - Discussion	Amol Malode, Product manager, Forbes Marshall
10:30- 11:00 am		<b>Device operation &amp; maintenance</b> - Device calibration, drift, span etc.	Amol Malode, Forbes Marshall
11:00 - 11:30 am	<b>Tea</b>		
11:30 am onwards	<b>Site visit</b>	- Visit to CETP - Understanding of effluent quality monitors	Amol Malode, Forbes Marshall Sanjeev K. Kanchan, CSE
<b>Lunch</b>			
<b>Day 5 (10 February, 2017)</b>			
09:00 - 10:00 pm	<b>Data Acquisition &amp; Handling System</b>	- Understanding data acquisition and Handling system - Existing scenario & challenges - Tampering issues- field experience - Points to check	Sudheesh Narayan, CEO, Glens
10:00 - 10:30 am	<b>Tea</b>		
10:30 - 12:00 am	<b>Group exercise</b>	- Checklist preparation - Data analysis	Kanika Bahel, CSE
12:00 - 01:00 pm	<b>Group presentation</b>	- Checklist preparation - Data analysis	Sanjeev K. Kanchan, CSE
01:00 -01:30 pm	<b>Certification distribution and feedback session</b>		
<b>Lunch</b>			

<b>Venue</b>	<b>Contact</b>
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