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Malé Declaration on Control & Prevention of Air Pollution and its Likely Trans boundary Effects for the South Asia

Seventh Regional Stake Holders cum Coordination Meeting (RSC-7)

> Dhaka May 18-19, 2013

RSC-7, Dhaka

WELCOME DELEGATES & COUNTRY REPRESENTATVES





A SHORT COUNTRY PRESENTATION BY CENTRAL POLLUTION CONTROL BOARD, DELHI WWW.NIC.IN

9/5/2013

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Air Pollution Prevention, Monitoring & Implementation of Activities in India

National Implementation Agency: Central Pollution Control Board National Focal Point: Ministry of Environment & Forests, Govt. of India

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Institutional Arrangement-India

National Focal Point:
Ministry of Environment and Forests
Government of India

National Implementing Agency: Central Pollution Control Board

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Additional Activities (Routine)

- · Source Apportionment study in six cities
- Emission inventory in six cities & initiation for other cities
- Emission factors for vehicles and Implementation of Euro Norms
- Source profile for vehicular sources
- Source profiles for non-vehicular sources
- Development of Emission Standards & Revision of Standards
- Introduction of IS 17025/IS 9000 & OHSAS for all Environmental Laboratories
- Initiation for Pilot Project on Emission Trading Scheme for Particulate Matter in Stationary Sources (Stack)

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Additional Activities (1)

- Organization of various programs for the successful Implantation of the Declaration. Some of them are as under:

 5 Regional Refresher Courses / workshops): organized;

 - 3 Stake-holders meeting;3 Inter-governmental meetings
 - Capacity building programs on Health Impact Assessment, Emission Inventory, crop Impact Assessment etc.)
 - Assessment etc.)
 Series of Hands on Training programs, refresher courses, workshops for dry & wet deposition towards uniformity in sampling and data generation, etc.
- The Present program has the following focus:
 - To update the implementation activities under Male Formulation of future Development Plans Sustainability

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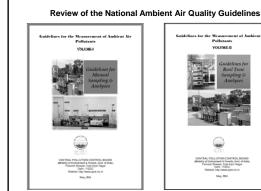
- Additional Activities (2)
 Revision of National Ambient Air Quality Standards (November 2009)
 - Uniform ambient air quality for all
 - Special monitoring for Ecologically sensitive
 - Consideration of health related parameters viz. PM_{2.5}, Benzene, Bezo(a)Pyrene.
 - Consideration of Signature metal analyses like Nickel, Arsenic and lead
 - 537 ambient air quality stations are in operation. The data generated in these stations are regularly analyzed for Trend Analyses, special attention area, problem area

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- Criteria for Comprehensive Environmental Assessment for Industrial Clusters
 - Rational to characterize the environmental quality at a given location by means of algorithm of source, pathway and receptor.
- Regional Cooperation
 - Signed MoU with Royal Government of Bhutan & CPCB for capacity building, demonstration & training (completed six years of Cooperation)
 - Similar MoU may be signed with other

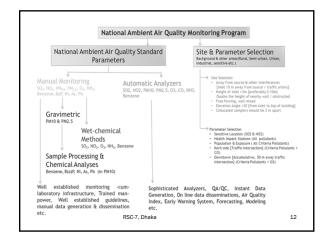
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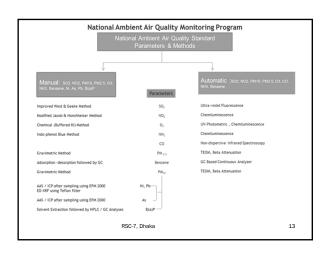
Poliusaes	Time Weighted Average	Concentration	in Ambient Air	Methods of Measurement	
		Industrial, Residential, Russi and other Areas	Ecologically Sensitive Area (Notified by Central Government)		
Sulphur Dioxide (\$O _L), µg/m²	Annual * 24 Hours **	50 80	20 80	-Improved West and Gaeke Method -Ultraviolet Fluorescence	
Nirrogen Dioxide (NO ₃), µg/m²	Annual * 24 Hours **	40 80	30 80	-Jacob & Hochhelser modified (Nuclei-NataCh) Method -Gas Phase Chemiluminescence	
Parsiculate Matter (Size less than 10µm) or PM _{in} µg/m ³	Annual * 24 Hours **	60 100	60 100	-Gravinseric -TECM -Beta attenuation	
Parsiculate Matter (Size less than 2.5µm) or PM _{AD} µg/m ³	Annual * 24 Hours **	40 60	40 60	-Gravimetric -TECM -Bets attenuation	
Ozone (O _d) µg/m²	8 Hours * 1 Hour **	100 180	100 180	-UV Photometic -Chemical Method	
Land (Pb) pg/m²	Annual * 24 Hours **	0.50 1.0	0.50 1.0	-AASICP Method after xampling on EPM 2000 or equivalent filter pa -ED-XXF using Tellon filter	
Carbon Monoxide (CO), mg/m²	8 Hours ** 1 Hour **	02 04	02 04	-Non dispersive infrared (NDIR) Spectroscopy	
Ammonia (NH _a), µg/m²	Annual * 24 Hours **	100 400	100 400	-Chemiuminecence -Indophenol blue method	
Benzene (C _A H ₄). µg/m²	Annual *	26	85	-Gas Chromatography (GC) based continuous analyzer -Adsorption and descrption followed by GC analysis	
Becook/Pyrece (BaP) Particulate phase only, agins ³	Annual *	01	01	-Solvers extraction followed by HPLC/GC analysis	
Arsanic (As), ngin ³	Annual *	- 06	66	-AASICP Method after sampling on EPM 2000 or equivalent liter p	
Nickel (NI), nalm ³	Annual *	20	20	-AAS/ICP Method after sampling on EPM 2000 or equivalent filter po	

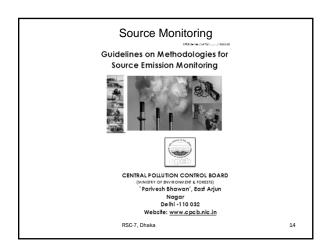


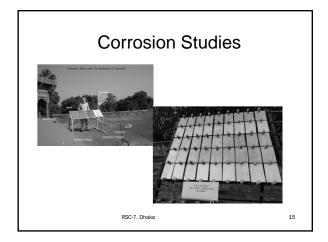


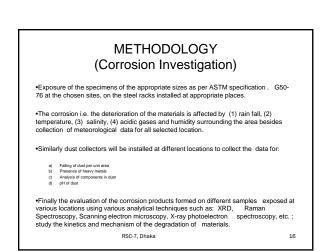
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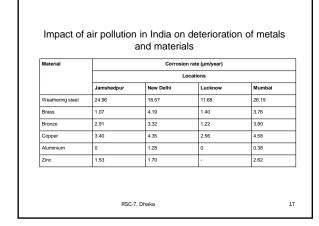


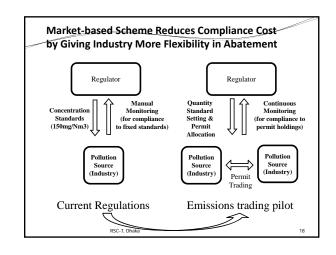












Phases of Pilot ETS

- Design Phase (Phase-I)
 - Understanding the activity Identification of project sites,

 - CEMS draft standards,
 - Data Transmission standards,
 Training and workshops
 - Synchronization
- Baseline Survey (Phase-II)
 - Baseline survey of industry and associated re-

 - Care Center setup in SPCBs and CPCB
 CEMs installation in industry and connection to CARE centers
 - ETS Implementation Phase
- Implementation Phase (Phase-III)
 - Implementation of pilot emissions trading regime and associated evaluation

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Trans-boundary Ambient Air Quality Monitoring

Establishment & operation of Trans-boundary Ambient monitoring stations, viz.;

- 1.Port Canning-West Bengal (India & Bangladesh);
- 2.Dera Baba Nanak ,Pathankot-Punjab (India & Pakistan);
- 3.Lakshadweep (India & Maldives);
- 4.Daranga-Assam (India & Bhutan) and
- 5.Dawki-Meghalaya (India & Bangladesh)
- 6.Andaman & Nicobar

		uanty mont	oring station	o iii iviale l	Jeciai ationi u	/ NAIVIF			
	Monitoring stations at (city)								
	Dawki	Port Canning	/Pathankot	Daranga	Kavaratti	Andaman & Nicoba			
State	Meghalaya	West Bengal	Punjab	Assam	Lakshadwee p	Andaman & Nicobar Islands			
No. of stations	1	1	1	1	2	5			
Name of monitoring station	Terrace Building, Dawki, Jaintia Hills District	Port Canning, Sunderban	C-PYTE Building, Dera Baba Nanak	BATAD, Baska district,	Kavaratti	Port Blair, Brookshabd, Rangat, Campbell Bay			
Bodering	Bangladesh	Bangladesh	Pakistan	Bhutan	Maldives	South East Asia			
Lat & long	26°47′06″ N	22°19 [*] 8" N	32°1 60″ N 75°1 0″	26°48′ N	10° 0′ N 73° 0′				
Sanction date	23.06.2008	2004	23.06.2008	August 2008	10.09.2010	10.09.2010			
Operating since	August 2009	2004. Stopped monitoring from December 2011	January 2010	January 2009	Yet to operate	Yet to operate			

