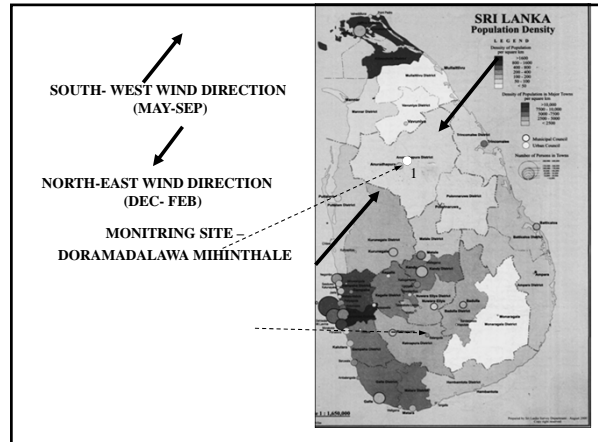


**OVERVIEW OF NATIONAL LEVEL  
IMPLEMENTATION OF MALE DECLEARATION IN  
SRI LANKA**

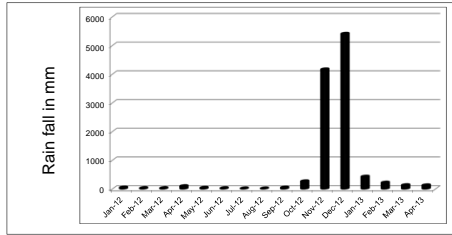
BY  
R.M. KULASENA  
CENTRAL ENVIRONMENTAL AUTHORITY  
SRI LANKA



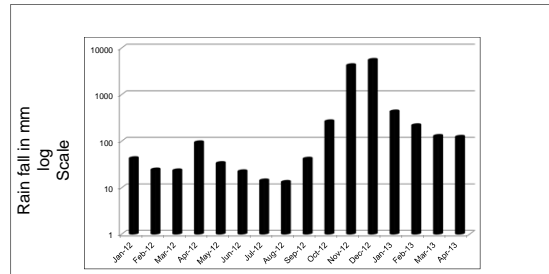
**WET DEPOSITION MONITORING**

- **Bulk Collector**
  - Rain water collects once in every week
  - pH and EC onsite measurements
  - Transport to the Colombo Central Laboratory
  - Analyze for cations and anions
- **Wet only collector is not working since October 2011**
  - Repaired locally and samples collected for 2 months
  - Permanently damaged in December 2001

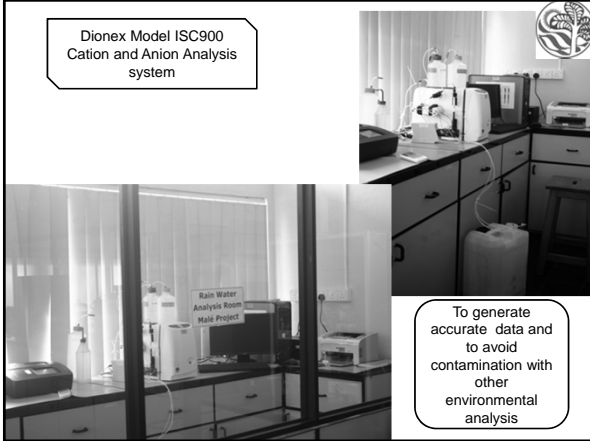
Variation of monthly total rain fall at monitoring site in 2012- Bulk collector



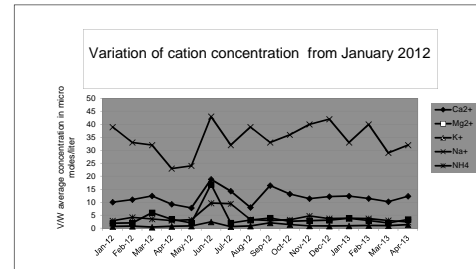
Variation of monthly total rain fall in mm



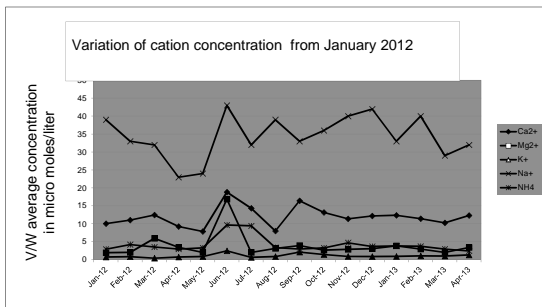
Dionex Model ISC900 Cation and Anion Analysis system



Wet deposition monitoring data



Wet deposition monitoring data



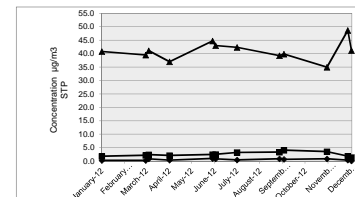
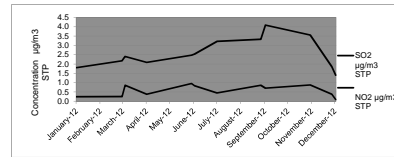
Monitoring of SO<sub>2</sub>, NO<sub>2</sub> & O<sub>3</sub> using Passive Samplers



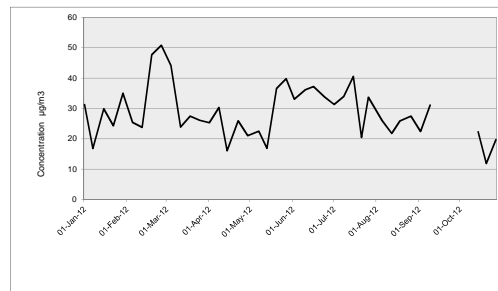
Ambient air quality monitoring activities at Doramadala site

- SO<sub>2</sub>, NO<sub>2</sub> and ground level ozone concentrations were continuously monitored using passive samplers received from IVL .
- Exposed samplers were dispatched to IVL for analysis.
- Samples were analyzed and results have been transferred to the NIA.

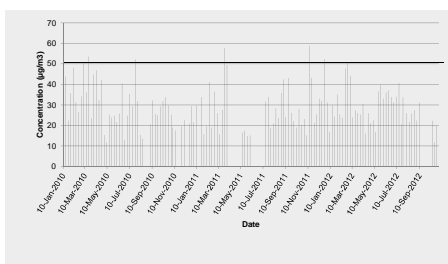
Variation of SO<sub>2</sub>, NO<sub>2</sub> and O<sub>3</sub> concentrations in 2012



PM<sub>10</sub> concentration variations in 2012



PM<sub>10</sub> Exceedences in last two years reference to National Standard



Status of Impact Assessment

- ✘ New study area has been selected for crop impact assessment for the second time 2012
- ✘ Location in Mihintale close to Doramadala monitoring site .
- ✘ New researcher has been identified in Rajarata University of Sri Lanka.
- ✘ MoU has been signed with Rajarata University and CEA with the approval of Male Secretariat.
- ✘ Initial payment as mobilization advance has been paid to start the study in July, 2012.
- ✘ As per the agreement, study will be continued to January 2013.
- ✘ Deliverables were due in April 2013.

Re-planning of the impact assessment activity

- Rajarata University appointed new researcher to continue this activity
- Students who were involved in this research are still working with new member to complete the study in the university .

Emission Inventory Preparation  
Training program for local stake holders in Sri Lanka



Emission inventory training workshop for local stake holders



5<sup>th</sup> international Training on Emission inventory preparation  
Colombo - 2012

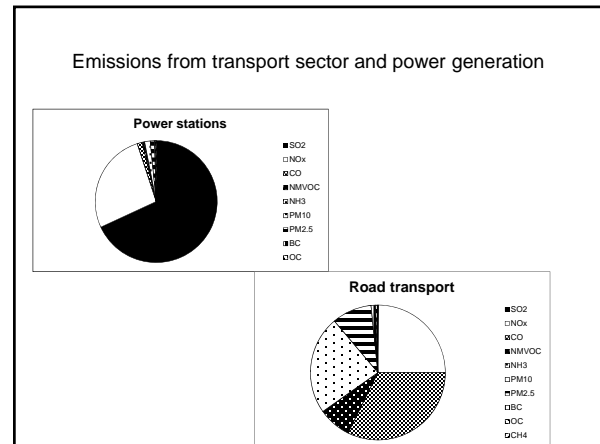
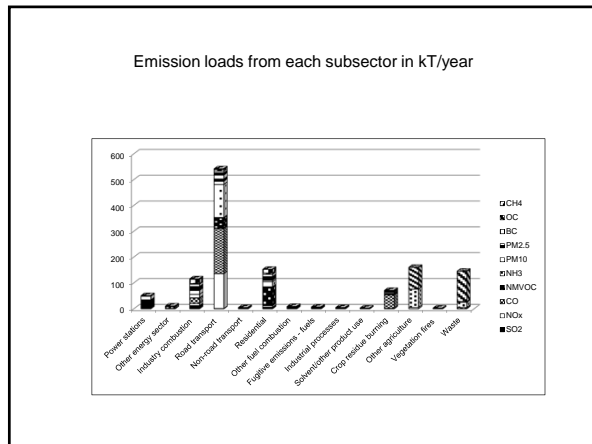


Experts delivering remarks!



Emission Inventory 2005 - Sri Lanka

- Major problem in completion of the emission inventory is data collection and data gaps
- After training is given to the responsible officers of other stake holder organizations, this problem is solved.
- Continuous data collection network has been established.
- Data collection format is also highly important in compilation of a emission inventory
- 2005 emission inventory is completed.
- Planning to initiate 2010 emission inventory.



- Remaining data gaps
- Vegetation/forest fires
  - Evaporation of solvents and other products use
  - Industrial fugitive emissions /process emissions
  - Quality control/quality assurance
    - Default emission factors have been used in many sectors
    - development of country specific emission factors are highly important

**Thank you**