



## Summary Report

### First Intensive Workshop on "Lightning Protection"

14 + 15 March 2006, "Productivity House", Ernakulam  
organised by

Lightning Awareness Cell, Regional Energy Centre, Kerala  
in association with

South Asian Lightning Information & Resources Centre, Sri Lanka  
supported by

OBO Bettermann

## Recommendations

### To Government

1. Agencies like Electrical Inspectorate Dept & Disaster Management Cell to support awareness programs and more such intensive workshops
2. Lightning warning/ early detection systems to be made mandatory for selected public places like theme parks, where public is exposed at open areas in water and at elevated places, both more prone for lightning accidents
3. Surge arrestors made mandatory for critical projects and high-rise buildings
4. Government agencies to promote/ create model installations
5. To promote research on "Lightning Protection" to help develop cost-effective systems indigenously

### To Lightning Awareness Cell

- a) Awareness programs to be organised frequently for public
- b) To circulate/ spread precautionary measures through different media
- c) One program to be arranged for builders on "need for Lightning Protection"
- d) Should canvas against use of ESE Devices
- e) Such workshops to be organised in educational institutions also

## Course Agenda

### 14 March 2006; 9.30 am - 5.00 pm

- o Fundamentals of lightning
- o Lightning accidents in Kerala
- o Lightning protection of human beings & livestock
- o Lightning protection of structures
- o Risk assessment\*
- o Alternative air-termination systems
- o Panel discussion

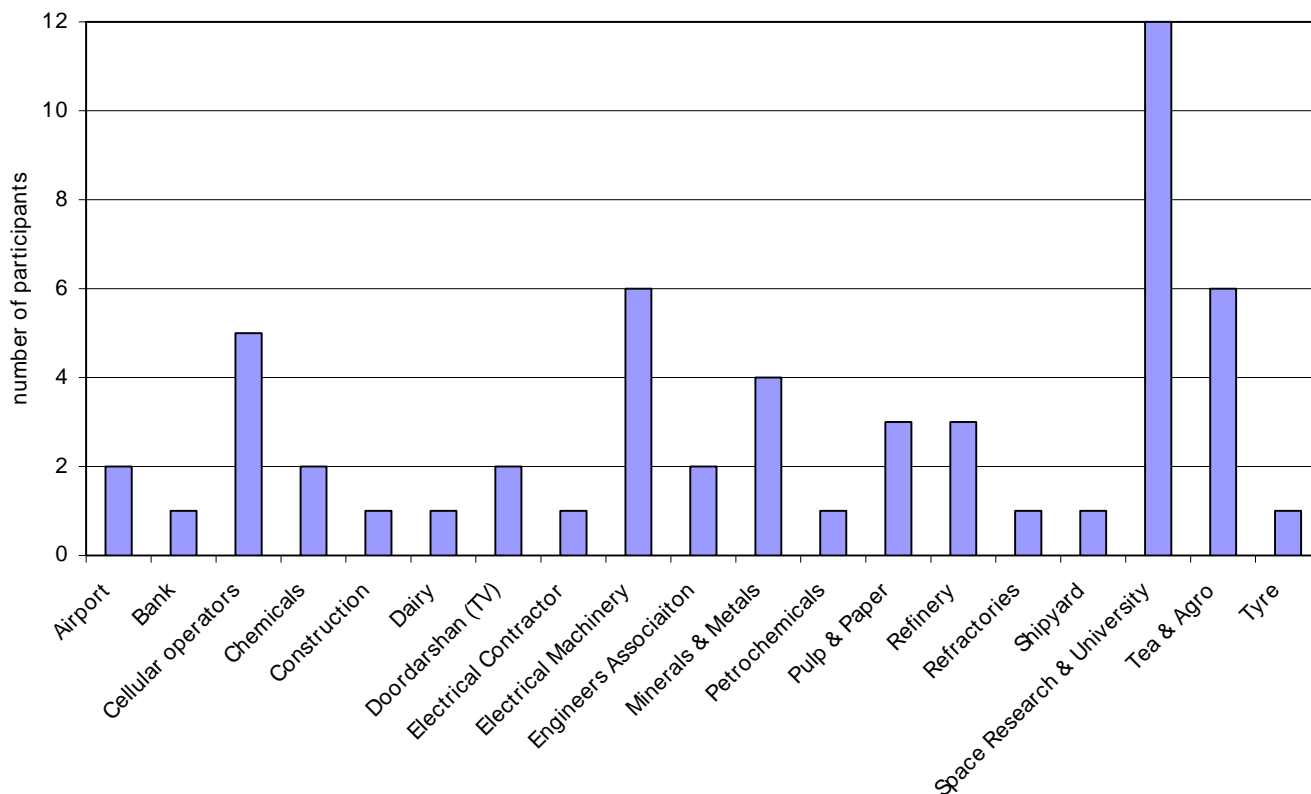
*\*could not be covered for paucity of time*

### 15 March 2006; 9.30 am - 4.30 pm

- o Lightning protection of power systems
- o Lightning protection of communication systems and equipment
- o Special concerns of grounding
- o Latest techniques developed on lightning protection
- o Protection of High risk installations
- o Technical description of the products and services of sponsors

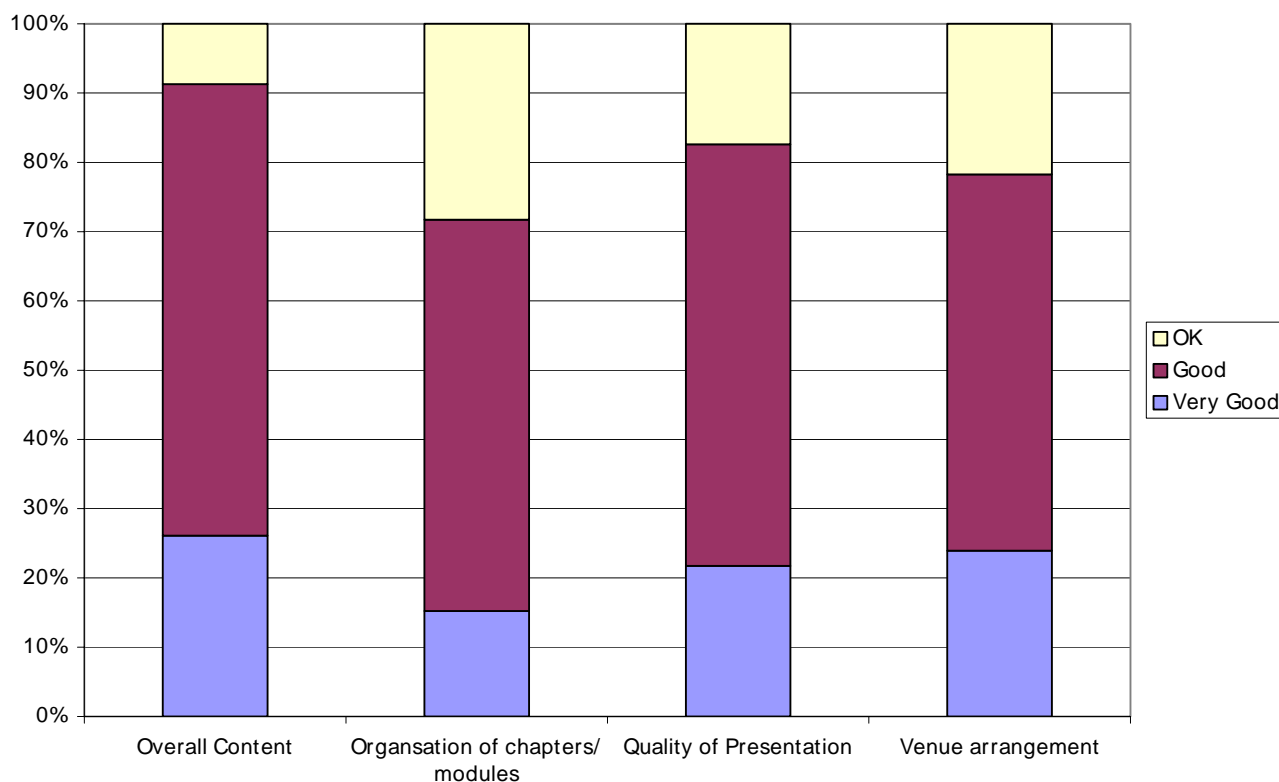


**Representation** (total - 55 participants)





## Feedback on the content & organisation of the program

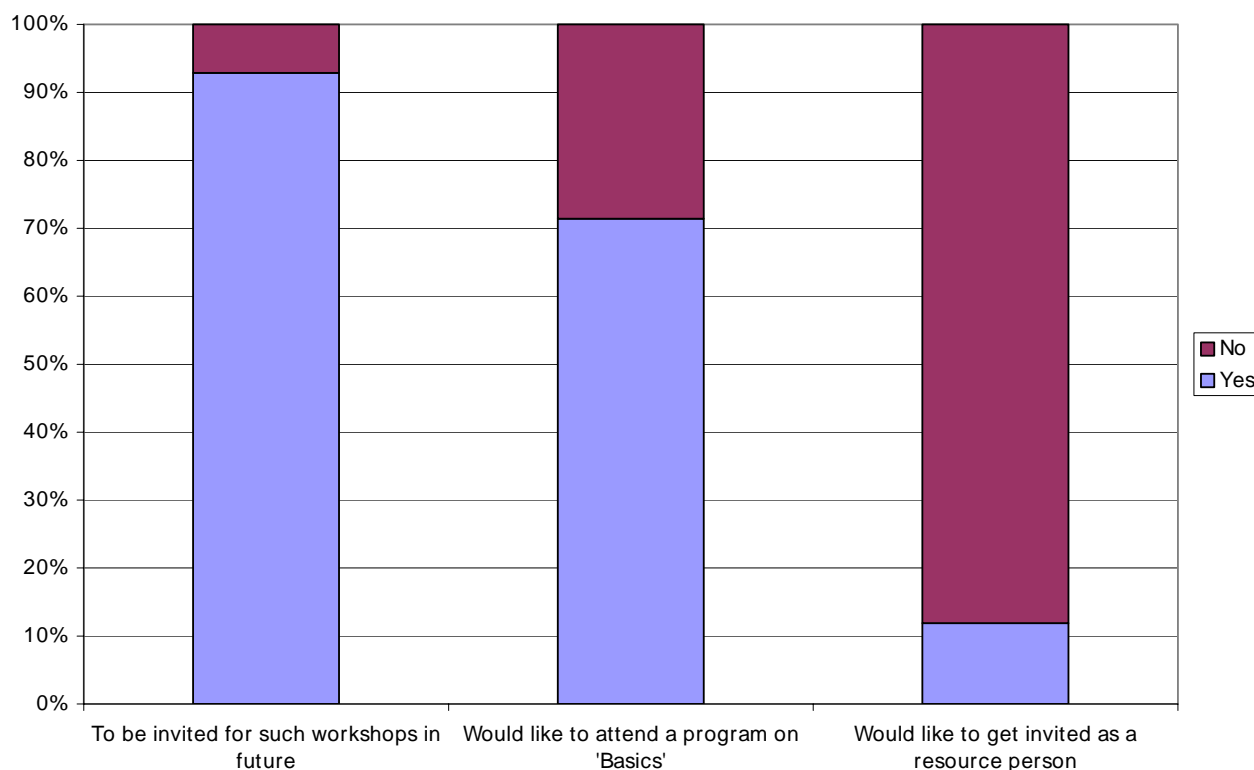


Suggested modifications/ additions: -

- o To be designed as a 3-day event
- o Good Earthing Practices
- o A chart/ ready reckoner on "Dos & Don'ts"/ Precautions
- o Modules on practical hands-on experience
- o Case studies



### Opinion on future association with LAC



Remarks: -

Specific programs on

- Basics of Lightning & its Protection
- Protection for High voltage equipment
- Electrical & Control installation
- High-rise industrial systems like Distillation Columns & Storage tanks
- HT & LT installations

#### Speakers

- ✓ Dr Chandima Gomes, Director, South Asian Lightning Information & Resources Centre, Sri Lanka & Hon. Advisor, Lightning Awareness Cell, Regional Energy Centre, Kerala
- ✓ Dr S Murali Das, Scientist, Centre for Earth Science & Studies, Akkulam, Trivandrum
- ✓ Mr S Gopakumar, Director, Cape Electric Corporation, Nagercoil
- ✓ Mr K.V.Varadarajan, General Manager- Marketing, Cape Electric Corporation, Chennai
- ✓ Mr V Shanthi Prasad, Sr. Manager - Technical Support, MTL India, Chennai

Contact: Lightning Awareness Cell, Regional Energy Centre - [rectvm@sancharnet.in](mailto:rectvm@sancharnet.in)

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