



ISTIC

INTERNATIONAL SCIENCE, TECHNOLOGY AND
INNOVATION CENTRE FOR SOUTH-SOUTH
COOPERATION UNDER THE AUSPICES OF UNESCO



Training Workshop on Maintenance of Infrastructures

31 May – 4 June 2010
Hyderabad, India



Organized by:

Engineering Staff College of India (ESCI)

and

**International Science, Technology and Innovation Centre
for South-South Cooperation under the Auspices of UNESCO (ISTIC)**

Content of the Training Workshop

Maintenance is used a generic term to include planned maintenance, repair & reimbursement and provision for replacement of the structure. The goal of Infrastructure maintenance is to sustain the life of major assets. When maintenance is carried out too soon or too late, the provider of the assets/ Infrastructure impairs unnecessary costs and compromise life of the asset. Maintenance of existing infrastructure should not be seen of secondary importance to the apparently more attractive option of new infrastructure.

Maintaining infrastructure comes at a cost, but this is a prudent investment which saves significantly in the medium to long term and promotes both the economic and human capital development.

There are other significant costs associated with inadequate maintenance and consequent breakdowns. These costs could include loss of production and consequent economic loss, health risks, injury or loss of life, and the cost of alternative measures needed during breakdowns.

Maintenance norms and standards are yet to be developed for the various sectors (e.g. roads, water, sanitation, etc). Good practice guidelines for planning, designing and implementing maintenance programmes will be identified Based on the maintenance standards, budgeting norms will be developed to facilitate accurate long-term maintenance budget forecasting, taking into account the type, age and condition of the infrastructure.

The programme covers essential contents on assessment needs, planning and execution, including financial planning and budgetary control of infrastructure maintenance.

Duration of the Training Workshop

31st May 2010 – 4th June 2010

Venue of Training Workshop

Engineering Staff College of India
Old Bombay Road, Gachi Bowli
Hyderabad 500032
Andhra Pradesh
India

Details Daily Lecture Programme Including the Time by hours

TIME	TOPIC
Monday - 31.5.2010	
09.45-10.15 hrs	Inaugural Session
10.15-10.30 hrs	High Tea
10.30-11.30 hrs	Overview on the Concept of Infrastructure Maintenance
11.30-13.00 hrs	Infrastructure Maintenance Needs (Assessment)
13.00-14.00 hrs	Lunch
14.00-15.30 hrs	Maintenance Needs in Building Sector Including Services
15.30-15.45 hrs	Tea
15.45-17.15 hrs	Maintenance Needs of Roads and Bridges
Tuesday - 1.6.2010	
09.45-11.15 hrs	Planning of Infrastructure Maintenance (Pre, Routine and Breakdown)
11.15-11.30 hrs	Tea
11.30-13.00 hrs	Buildings and Other Structural Maintenance
13.00-14.00 hrs	Lunch
14.00-17.15 hrs	Field Visit to Airport on Maintenance Practices

TIME	TOPIC
Wednesday - 2.6.2010	
09.45-11.15 hrs	Operational Maintenance of Roads and Bridges
11.15-11.30 hrs	Tea
11.30-13.00 hrs	Maintenance of Electrical Installations, Fittings Including Lifts
13.00-14.00 hrs	Lunch
14.00-15.30 hrs	Maintenance of Air – Conditioning, Air-Cooling Including Telecom
15.30-15.45 hrs	Tea
15.45-17.15 hrs	Landscaping and Horticulture Maintenance
Thursday - 3.6.2010	
09.45-11.15 hrs	Maintenance Operation Systems / Monitoring and Evaluation
11.15-11.30 hrs	Tea
11.30-13.00 hrs	Concept of Green Building and Maintenance Management
13.00-14.00 hrs	Lunch
14.00-17.15 hrs	Field Visit to CII Green Building, Hyderabad
Friday - 4.6.2010	
09.45-11.15 hrs	Infrastructure Safety (Fire Fighting, Fire Escape and Workmen Safety)
11.15-11.30 hrs	Tea
11.30-13.00 hrs	Financial Planning & Budgetary Control
13.00-14.00 hrs	Lunch
14.00-17.15 hrs	Interaction / Group Discussion & Valedictory

Brief CV of the Eminent Speakers

Eminent faculties at National level would be conducting the workshop. The CV's of the faculty confirmed for the event are listed below. Concurrence from other eminent professionals awaited.

1. Prof. D.S Prakash Rao

Prof. D.S Prakash Rao has rich experience of 30 years in the field of research, teaching and consultancy. He has Doctorate Degree from University of Melbourne, Australia and Masters Degree of Structural Engineering from Indian Institute of Sciences, Bangalore. Presently he is Head in Auroras Scientific Technological Research Academy.

He worked with Structural Engineering Research Centre, Roorkee for about fourteen years, and later with educational institutions in India. Prof. Rao also worked with Stuttgart University, Germany, University of Melbourne and Royal Melbourne Institute of Technology, Australia.

He has published over 150 papers and 200 reports. Dr. Rao is the recipient of several awards including the Best Publication in Civil Engineering (Association of Consulting Civil Engineers, India) 1997, Bharat Ratna Sir Mokshagundam Visvesvaraya award (Institution of Engineers, A.P. State Centre and Government of A.P.) 1998, and Indian Society for Technical Education for outstanding contribution to education development 1999. He is listed in several international biographical directories.

2. Dr. S. Nagabhushana Rao

Dr. S. Nagabhushana Rao is holder of Masters Degree in Structural Engineering from JNTU and Doctorate in Transportation Engineering from NIT (REC), Warangal. Former Executive Director (Civil) in APSRTC. He has had more than 35 years experience in Designs, Construction, Maintenance of Civil Engineering projects. He is also visiting faculty to JNTU, CIRT, REC Warangal.

Former Director of Engineering Staff College of India, he is Chairman Institute of Urban Transport (India), AP Chapter, Member-Indian Road Congress, Member-Geo Technical Society of India and has to his credit 30 papers published in various Technical Journals and Seminars at National and International level. He has toured USA, European countries and South East Asia extensively on a number of projects.

3. Shri D.V.Bhavana Rao

He had over thirty years experience in civil projects and presently Chief Engineer, Quality Control, Roads & Buildings of Government of Andhra Pradesh. Mr. Rao has done extensive work on analyzing reasons for Pre-mature damage of road works.

He has also given presentations at National Seminar on Durable Concrete structures at J.N.T.U Engineering College, Hyderabad, National Conference on roads 2007 at Belgaum and National CONCEPTS Seminar organized by I.G.S. and J.N.T.U. Engineering College, Kakinada at Kakinada.

His article in IRC magazine "**INDIAN HIGHWAYS**" in the month of February 2005 was well received and appreciated. His article on "**Steps to Improve Roads on Black Cotton Soils**" was published in September 2007 on New Buildings Materials and Construction World (NBM & CW).

About Hyderabad-City of Pearls

The ancient city of Hyderabad has been once the Nizam's Capital is now the capital of Andhra Pradesh. The fifth largest city in the country and sprawled and flourished on the banks of the river musli. The city was founded in 1589 by Sultan Mohmad Quli Qutubshah of the Shahi Dynasty

The city was formally called as Bhagyanagar named after Bhagyamati, the sultans lover and also described as a panchanami sangam a place where five linguistic and cultural patterns met here Telugu, Marathi, Kannada, Tamil and Urdu have mingled and enriched a city famous for its nawabi traditions of graciousness. Introducing a Sixth culture streams to the sangam has been Britain's age of Empire.

Hyderabad Secunderabad twin cities fused in to one, is a city where north meets south, Islam meets Hinduism and consent meets cosmopolitanism. The Hyderabad Secunderabad are the city is from the 18th century onwards and begins after the period of oblivion that befell the city when the quli-qutub shahi dynasty gashed.

All the cultures that have reigned in the two cities have left indelible marks on them the result is a unique cultural amalgam a social blend to which modernism has added its might. Major industries, Educational institutions and important research and training centers are located in this city that are pride of deccan and enjoys a central location in India. A mild climate and air of spaciousness and world values of courtesy and politeness as to the attraction of the town cities.

Food Hyderabad's love to eat out and this is apparent from the number of Restaurants and eating-joints that dot the landscape all across the city. They cater to a wide range of tastes offering everything from spicy Andhra cuisine to exotic Thai and u can serve the delicious Hyderabad Biryani and a fragrant cup of irani chai from any corner stall.

About ESCI - A Centre for Practising Engineers

Genesis

Engineering Staff College of India (ESCI) is a unique institution set up in October 1981 by the premier body of professional engineers in India, The Institution of Engineers (India).

Philosophy & Objective

The primary objectives of ESCI are to impart professional & need-based continuing professional development education and training in frontier areas of engineering and management fields, simultaneously providing professional consultancy & technical services to the industry. ESCI's operations are firmly grounded in its desire to act as a bridge between academic institutions, R&D laboratories and organisations in the government, manufacturing & industry sectors to promote the growth and increased availability of latest know how & expertise to professional engineers & managers in all these sectors.

Training Programmes

Continuing Professional Development Programmes are formulated by ESCI from time to time and announced, on topics of current technology and relevance. ESCI also organizes & conducts customised programmes to meet specific requirement of such organizations. These are held either at ESCI campus or at other locations desired by the sponsoring organizations.

Campus & Hostel Facilities

The 70 acre sprawling campus of ESCI is about 15 km from the centre of Hyderabad city. ESCI, situated in serene and tranquil surroundings, has its main building and five hostel blocks which can accommodate up to 150 participants. The A.C hostel rooms are well furnish for comfortable stay of the participants and arrangements for catering and recreational activities on campus are also provided. The class rooms are well equipped with all modern audio – visual aids to conduct concurrent programmes.

Faculty

ESCI has core faculty in all the engineering and management disciplines comprising of very senior engineers, eminent scientists and teachers who have rich experience in respective fields, collectively representing several decades of professional experience.

Information Centre

ESCI Information Centre has a valuable collection of about 8000 books & reports and 100 periodicals including International journals.

Consultancy Assignments

ESCI provides consultancy services to suit the requirements of clients in all engineering disciplines, Quality (ISO 9000/ ISO 14000), Management and Technology areas. ESCI's groups of thoroughbred consultants with their proven expertise execute these assignments and co-opt experts as necessary. ESCI has successfully executed many prestigious projects in the areas of Water Resources, Power & Energy, Transportation, Mining etc.

Collaborations

International: Massachusetts Institute of Technology (MIT) USA, Kansas State University (USA), University of Illinois at Chicago (USA), British Council, Nigel Bauer & Associates, Marsden International, U.K, DFID, Govt. of UK.

National: CBIP, CPRI, JNTU, CMC, C-DAC, FICCI Quality Forum, NTPC, BHEL, NHPC, DRDO, NFC, CIRE, NPC, ONGC, NMDC, UTL, all SEBs, and State Govt. Depts., In addition, ESCI makes use of the various bilateral agreements between its parent body, The Institution of Engineers (India), and professional bodies in many other countries to further its overall goals & activities.

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About ISTIC - An International Platform for South-South Cooperation in Science, Technology and Innovation (STI)

The creation of the International Science, Technology and Innovation Centre for South-South Cooperation under the Auspices of UNESCO (ISTIC) is a follow up of the Doha Plan of Action which has been adopted by the Head of States and Government of the Group of 77 and China, during the meeting in Doha, Qatar, from 12 to 16 June 2005 on the occasion of the Second South Summit of the Group of 77.

The Summit urged UNESCO to develop and implement a programme for South-South cooperation in science and technology with the objective of facilitating the integration of a developmental approach into national science and technology and innovation policies, capacity building in science and technology through providing policy advice and exchange of experience and best practices, and creating a problem solving network of centres of excellence in developing countries as well as supporting the exchange of students, researchers, scientists and technologists among developing countries.

ISTIC will act as an International Platform for South-South Cooperation in Science, Technology and Innovation and make use of the network of the G77 plus China and the Organization of the Islamic Conference (OIC). The overall goal of ISTIC is to increase the capacity for management of science, technology and innovation throughout developing countries. ISTIC Secretariat is hosted by Academy of Sciences Malaysia (ASM) for five years before making ISTIC an autonomous organization.

Contact

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