ISTIC

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

ESCI

9 – 13 September 2013

TRAINING WORKSHOP ON

MAINTENANCE OF INFRASTRUCTURE

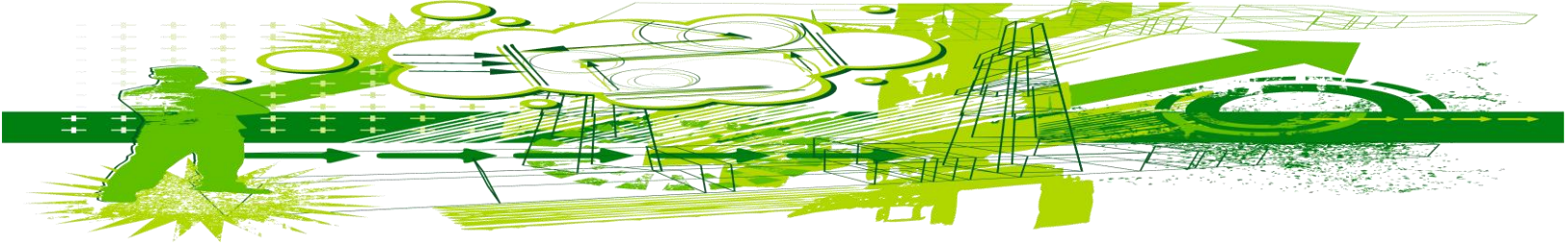
ORGANIZED BY:

ENGINEERING STAFF COLLEGE OF INDIA (ESCI)

AND

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

HYDERABAD INDIA



Content of the Training Workshop

Maintenance is used as 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 comprises life of the asset. Maintenance of existing infrastructure should not be seen as secondary importance to the apparently more attractive option of new infrastructure.

Maintaining infrastructure comes at a cost, but this is a prudent investment which will save government significantly in the medium to long term and will promote 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, design 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.

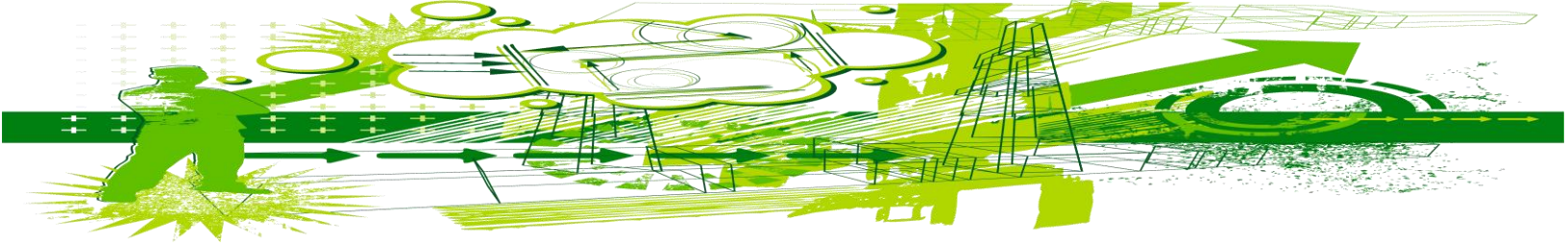
The programme covers essential contents on assessment needs, planning and execution including financial planning and budgetary control of infrastructure maintenance.

Duration of the Training Workshop

9 – 13 September 2013

Venue of Training Workshop

Engineering Staff College of India
Old Bombay Road, Gachi Bowli
Hyderabad 500 032
Andhra Pradesh
India



Fees

ISTIC will bear the cost fee of selected participant. Course fee includes cost of course material, course kit and twin-sharing accommodation as per availability, breakfast, lunch, dinner, tea / coffee and snacks.

Participant

A total of 30 participants will be selected to attend the training workshop.The combination of participants from South-South countries will allow for exchange of knowledge, ideas and experience as well as opportunities for discussions, networking and possible collaboration.

Attending participants are expected to pay their own airfare to Hyderabad, India and back.

Transport logistics at Hyderabad

Transport from Airport to ESCI campus and ESCI campus to Airport after completion of the training programme shall be provided by ESCI.

Local transport for the field visits and social visits will be arranged by ESCI.

Tentative Programme
Training Workshop on Maintenance of Infrastructure
9 – 13 September 2013, Hyderabad, India

Time / Date	0945 – 1015 Hrs	1030 – 1130 Hrs I Session	1130 – 1300 Hrs II Session	1400 – 1530 Hrs III Session	1545 – 1715 Hrs IV Session
Monday 9.09.2013	Inaugural Session	Concept of Infrastructure Maintenance	Maintenance Needs in Building Sector	Planning of Infrastructure Maintenance	Buildings and other Structural Maintenance
Time / Date	**0945 – 1115 Hrs I Session**		**1130 – 1300 Hrs II Session**	**1400 – 1530 Hrs III Session**	**1545 – 1715 Hrs IV Session**
Tuesday 10.09.2013	Operational Maintenance of Roads and Bridges			Maintenance of Dams & Irrigation Works	
Wednesday 11.09.2013	Railway Infrastructure Asset Management		Maintenance of Electrical Installations, Fittings including Lifts	Maintenance of Air – Conditioning, Air-Cooling	Water Conservation & Rainwater Harvesting
Thursday 12.09.2013	Convergence of Technologies for Evaluation and Maintenance		Concept of Green Building and Maintenance Management	Technical Field Visit to CII Green Building, Hyderabad	
Friday 13.09.2013	Infrastructure Safety (Fire Fighting, Fire Escape & Workman Safety)		Financial Planning & Budgetary Control	Interaction / Group Discussion / Case Study Presentation	Feedback & Valedictory

About ESCI - A Centre for Practicing 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.

Engineering Staff College of India, Hyderabad (ESCI) has once again won the prestigious **Golden Peacock National Training Award** for 5th time.

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, GIZ Germany, COREN Nigeria, IEMTC Malaysia, and ERB Kenya.

National: CBIP, CPRI, JNTU, CMC, C-DAC, FICCI Quality Forum, NTPC, BHEL, NHPC, DRDO, NFC, CIRE, NPC, ONGC, NMDC, UTL, all SEBs, SESI 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.

Contact

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India

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Email: cte@escihyd.org
Website: http://www.escihyd.org

Brief CV of the lecturers

Eminent faculties at National level would be conducting the workshop. The CV of the faculty confirmed for the event is listed below at present. Concurrence from other eminent professional underway.

Mr. Arvind Kumar Jaiswal

He has done his B. Tech. Civil Engineering from Institute of Technology-BHU, Banaras. With 30 years experience, presently he is Chief Consulting Engineer with EON Designers, Secunderabad. His areas of interest include 3D Computer Modeling; Continuing Education Program & Capacity building in earthquake engineering education for professional engineers; large span structures; behavior of RC frames due to earthquake loads; design, analysis, retrofit and rehabilitation of structures. He is a member of Indian Concrete Institute; Life Fellow of Association of Consulting Civil Engineers (Past Vice President), Indian Institute of Bridge Engineers, Indian Association of Structural Engineers (Founder Member), and The Institution of Engineers (India). He won Blue Ribbon Member award from World Seismic Safety Initiative- WSSI Group in India.

He was also associated with conferences on Pre-Engineered Technology for Infrastructure Development and World of innovations in Structural Engineering. His major consultancy activities are design of various laboratory buildings for DRDO, analysis and design of highly irregular buildings with horizontal as well as vertical irregularities, design of complete infrastructure for roads, drains, pipe crossings, culverts, box culverts, bridges, water supply, fire-fighting, security walls, gates for complexes, watch towers, static water sumps etc. He has to his credit a large number of technical papers presentations published nationally and internationally. He has been a member of National Disaster Mitigation Authority, NDMA's Post-Earthquake Reconnaissance Team, constituted by Govt. of India to investigate the damages sustained in the areas affected by the 18th September 2011 Sikkim earthquake in northern hill region and around Darjeeling in the State of West Bengal.

Mr. D.Madhu Babu

He has done his masters in school of planning & architecture, Delhi school of planning, he has held many positions in various private and government organizations. He has been Chief Transport Planner, Housing and Urban Transport Corporation, New Delhi. He is presently working as vice president, Cluster Development initiative, in IL & FS Infrastructure Leasing & Finance Services Limited, Hyderabad.

Dr. Chaterjee Anjan Kumar

Dr. Chaterjee, presently holding the post of Director with Dr. Fixit Institute of structural protection and rehabilitation in Mumbai, has had a long tenure with ACC limited Mumbai. As its whole time Executive director he was responsible for the company's research and consultancy directorate, Refractory Business, advanced materials Business and Project management activities. Prior to joining in ACC limited, he was a General Manager with the Cement Research Institute of India (now known as National council for building materials). He has been advisor to UNIDO for projects in Nigeria and peoples Republic of China. He is a fellow of the Indian National Academy of engineering and several other professional bodies in India and abroad. He is on the editorial board of "Cement and concrete Research". He has a large number of publications to his credit.

Mr. R.N.Raghavan

He is a Civil engineer with over 45 years of professional experience. Having worked in various capacities in Indian Railways, he retired as Chief Engineer. During his illustrious carrier, he was responsible for following special tasks. Introduced High-speed ballastless track of German concept Rheda 2000 in association with Pfleiderer AG, Germany. Design and laying of electrified double track between rawang & Ipoh Meter Gauge for high speed potential of 160 KMPH in the Malaysian Railways. Gauge Conversion between Mudked - Secunderabad (300 Kms) and Mudked - Adilabad (170 Kms) from survey to commissioning

Has been in the laying and maintenance Railway track for fifteen years on High speed routes of Indian railways. Construction of rail cum road bridge on Godavari river at Rajahmundry the second longest in Asia. Construction of Third Godavari Bridge with Bow string arch design of 100m spans, a specialized concept. Construction of Rail coach factory at Kapurthala. New Lines from Peddapalli - Karimnagar, Kakinada - Kotipalli and Nandyal – Yerraguntala. Multimod Transport Systems - Twin cities Secunderabad, Hyderabad (MMTS). Presently CEO of M/s Anurag Project Management Consultants[P]Ltd. Handling Railway, High Way Projects from Concept to Commissioning, major survey for new line 350 Kms in Burkina fasco. A practicing engineer, Mr Raghavan continues to be regular speaker at technical events and advise in the field of transportation.

Mr. Gopal Das Ojha

He is a Graduate in Civil Engineering and Post Graduate in Water Resources Engineering from NIT, Warangal, India. He has more than 38 years of professional experience as Administrator, Scientist, Engineer & Academician in Ground Water field. Former Regional Director, Central Ground Water Board, Govt of India. He is presently working as Head Water Resources Division at Engineering Staff College of India. Hyderabad. He is also an Adjunct Professor of Civil Engineering at Engineering College, Hyderabad and is a Guest Faculty for Organizations of Govt. of India.

He worked as a Consultant for Water & Power consultancy Min. of Water resources Govt. of India undertaking. He has the experience in leading Scientific Studies for Water Resource Planning Development & Management programs and organised Training programs & Awareness programs on water conservation, protection, harvesting & recharge.

He Chaired Technical Sessions in National and International Seminars organised in India on issues of Water & Women. Ground Water Governance, Hydrology & Water Shed Management etc. Led Committees for re-organisation of Departments under Min. of Water Resources in respect of Mandate, Infrastructure, Norms for work programs & improvement in operational efficiency. Has experience in Materials Management and Inventory Control Management & Disposal. He has Authored & Published around 35 Research papers at Regional & National level conferences Departmental Manuals & Reports. Visited Singapore, U.K, Malaysia

Mr. G. Ramamurthy

He has done his B.E (Electrical) at Osmania University. He has renowned experience as an electrical engineer for the past 30years. Presently he is Technical Director of M/s Elmech Enterprises Limited, G-21, Madhuranagr, Hyderabad, assisting the company in execution of turnkey jobs for 33 KV and 11 KV substations, lift irrigation projects, electrification works for manufacturing units, executing specialized jobs such as design and execution of special earthing system for Faraday's cage, High Voltage impulse testing labs and building lighting protection system etc. Earlier he worked as Sr. Electrical Consultant having provided consultancy schemes for Financial Institutions, Data Centre, Call Centers, Computerization of Banks, Bulk Drug Factories, Renovation works for Govt Hospitals under world Bank Aid, DRDO Prestigious Projects and major industries and as an Electrical Consultant in the Ministry of Finance and small scale Industries, Government of Libya and worked as Distribution Engineer in A.P State Electricity Board. He has also authored a Book, "Hand Book of Electrical Power Distribution" which was printed by M/s. Universities Press India (Pvt) Ltd and marketed by M/s. Orient Long man Pvt Ltd in the year 2004 and reprinted in the year 2005. Being encouraged by the response in the market, the Second Edition of the Book with more topics was again released in the market in the year 2009.He is also Interested in Writing articles on Electrical Power Distribution for Souvenirs, Technical magazine etc. and giving Technical lectures on Power Distribution and Safety Methods in Seminars. He has been Life time Fellow of Institution of Engineers and Chartered Electrical Engineer. (C.E.E)

Mr. S.Raghupathy

S Raghupathy, Executive Director, CII-Godrej GBC has been instrumental in conceptualizing and creating the CII–Sohrabji Godrej Green Business Centre, the Centre of Excellence in Hyderabad. Under his leadership, the Green Business Centre has evolved as a leader in energy efficiency, green buildings and water management activities. He played a key role in achieving the platinum rating for the CII Godrej GBC building under LEED (Leadership in Energy and Environmental Design) rating system.

He spearheads the conceptualization and development of the "Green co Rating System", the latest initiative of CII towards environment & sustainability; which is first of its kind in the world**.** The rating system assesses "how Green" is the company and highlights the way forward to become 'more Green'.

He has a bachelor's degree in chemical engineering from Annamalai University and was awarded a gold medal for his excellent academic record. He started his career in 1982 in a chemical MNC before shifting to the field of energy efficiency.

In 1992, he was named as a national expert on energy conservation for the prestigious UNDP-Government of India Energy Audit project. Over a period of time, with over 500 industrial energy audits and 150 training programmes to his credit, he has developed a reputation for himself as an expert in energy management in industrial and building sector. He is also a LEED Accredited Professional. Presently, he is leading a team of experts to facilitate Green Building movement, National Energy Efficiency movement, Green co Rating and Water Management practices at national level.

Mr. S. Prasada Rao

S.Prasada Rao, born on 15.06.1957. Graduate in Science in 1978 from Nagarjuna University, Andhra Pradesh. Certificate Course on Injection Molding of Plastics obtained during 1979 from Central Institute of Plastic Engineering and Tools, Chennai. Certificate course in Fire Engineering with honors obtained from National Fire Service College, Ministry of Home Affairs, Govt. of India during 1980. Joined immediately Nuclear Fuel Complex as Fire Sub-Officer on 14.02.1981 to look after fire safety and fire protection on round the clock duty and training programme.

Diploma in Fire Engineering from National Fire Services College with honors during 1985. Promoted as Station Officer in the same organization during 1988 and taken care of fire safety, fire protection and ensured the renovation of fire hydrant system from underground to over ground for better maintenance. Ensured the active and passive fire protection of new production units. Introduced modern version of fire alarm and detector system. Provided water spray protect system to the LPG and Ammonia storage bullets.

Active and Passive fire protection was recommended for the plant designed for extraction of rare material from Phosphoric acid. Enroute standby duty was provided for the special convoy for the material movement. Two lives were saved during a fire accident that took place at pyro heating production unit. Salvage operations carried out during fire accidents and hundred lakhs worth of property saved. Procedure manuals, Standing Orders and On-site emergency preparedness plans prepared for different hazards. 30 years of experience in the field of Fire Safety.

Mr. Sunkara Ranga Rao

He completed his B.E. (Hons.) - College of Engineering, Kakinada in 1958-63. He completed his M.Tech (WRD) REC, Warangal in 1979-81. Worked in Testing & Quality Control Upper Sileru Project, Vizag. Worked in CE NS Left Canals, Hill colony, Nalgonda. Worked as D.E.E. on deputation to REC Warangal, On deputation to AP State Construction Corporation, CDO.Worked as Director (Engineering & Admin.) AP-II & AP-III, WALAMTARI from 1990 - 1997. Worked as Superintending Engineer, Irrigation Circle, Hyderabad. Joined ESCI in 1998 after retirement. Worked as Head CTE Division and Projects chief Coordinator, in Engineering Staff College of India. Visited USA in 1988 under World Bank Assignment.

Mr.K.Muralidhar

Mr. K Muralidhar holds PG Diploma in Infrastructure Management and is specialized in Project Risk Management, Project Finance and Transportation Engineering. He is an expert in Design of Multi-storied structures, Repair, Rehabilitation and Retrofitting of Structures, Usage of plasticizers, Concrete mix designs, Leakages and Waterproofing, Industrial Floorings, Project Risk Management, Transportation Engineering and QA/QC in Construction Projects and holds a degree in Civil Engineering graduated from Osmania University.

He also holds M.Tech in Computer Science and Engineering graduated from from University College of Engineering Osmania University Hyderabad and Masters in Computer Applications from University College of Engineering, Osmania University HyderabadPresently working as Sr. Faculty Civil and Transportation Engineering ESCI Hyderabad. He is well versed with System and Database Administration in Windows and Unix Environments, Database Design and development of Applications using Oracle/mysql/MS Access databases and Visual Basic and Java tools. He was Author/ Co-Author /Course Writer for Text Books Published by Center for Distance Education, Osmania University.

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 musi. 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 britains 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 Secunderbad are the city is from the 18th century onwards and begins after the period of oblivion that befell the city when trhe 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 hyderabadis 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 Hyderabadi Biryani and a fragrant cup of irani chai from any corner stall.

About ISTIC – A 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.

ISTIC Programmes give focus and priority to the following areas:

a. STI Policy for Development
b. Capacity Building
c. Collaborative Initiatives with Existing STI Networks
d. WEHAB (Water, Energy, Health, Agricultural and Biodiversity)
e. New Technologies

Contact

International Science, Technology and Innovation Centre
for South-South Cooperation under the Auspices of UNESCO (ISTIC)
c/o Academy of Sciences Malaysia
902-4, Jalan Tun Ismail
50480 Kuala Lumpur
Malaysia

Tel: +603-2694 9898
Fax: +603-2698 4549
Email: info@istic-unesco.org
Website: http://www.istic-unesco.org

NOMINATION FOR TRAINING WORKSHOP ON MAINTENANCE OF INFRASTRUCTURE
9 – 13 SEPTEMBER 2013, HYDERABAD, INDIA

FOR OFFICIAL USE ONLY Reference No : Received : Checked :	Please affix latest passport photograph

1. PERSONAL PARTICULAR

Family Name (surname):	**Date of Birth :** **(Date/Month/Year)**
First Name :	**Nationality :** **(Citizenship)**
Other given names :	**Gender :** **(Male/Female)**
City and Country of Birth :	**Marital Status :** **(Single/Married)**
Passport No. :	**Designation :** **Prof. / Dr. / Eng. / Ir. / Mr. / Mrs. / Ms.** _____ **(etc)**

2. COMMUNICATION AND MAILING ADDRESS

Candidate's Office Address :				**Candidate's Home Address :**			
	Country	**Area**	**Number**		**Country**	**Area**	**Number**
Office Tel No :				Home Tel No :			
Office Fax No :				Home Fax No :			
Mobile No :				Email Address :			
Person to be contacted in case of emergency (name, telephone and address) :							

3. EMPLOYMENT RECORD

Current Post
Employer :
Duration of Service :
Title of Post :
Type of Organization : Government/Semi-Government/Private/NGO
Main functions of organization :
Total numbers of employees in organization :

Description of your current work including your responsibility : ***Please use supplementary pages if necessary***
IMPORTANT REQUIREMENT *****Please attach your curriculum vitae (CV)***

Application and Enquiries

All applicants are required to complete the prescribed application form and submit the completed form to the following address:

Secretariat
Training Workshop on Maintenance of Infrastructure
ISTIC, c/o Academy of Sciences Malaysia
902- 4, Jalan Tun Ismail
50480 Kuala Lumpur, MALAYSIA

Tel: +603-2694 9898
Fax: +603-2698 4549
Email: info@istic-unesco.org
Website: http://www.istic-unesco.org

Closing Date of Applications: All applications should be submitted to the ISTIC secretariat office before **Thursday, 1 August 2013**.

Application form also can be downloaded from http://www.istic-unesco.org