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ADMINISTRATIVE STAFF COLLEGE OF INDIA

Bella Vista, Raj Bhavan Road, Hyderabad - 500 082, India
Ph : 0091-40-66533000, 66534247, : (Programmes Office)
Fax : 0091-40-66534356, email : poffice@asci.org.in,
URL: <http://www.asci.org>.

Prof. V.Srinivas Chary
Programme Director

August 5, 2019

Training Programme on
NON-REVENUE WATER MANAGEMENT
(October 16-18, 2019)

Sub: Training Programme on “**Non-Revenue Water Management**” from **October 16-18, 2019** at ASCI, Hyderabad-Request for participation/nomination – Reg.

The Administrative Staff College of India (ASCI) is pleased to announce a three day training programme – “Non-revenue Water Management” during October 16-18, 2019 at ASCI, Hyderabad. With cities being highly water stressed, the urgency of ensuring safe and affordable water supply is becoming a pressing issue. Ministry of Housing and Urban Affairs, GOI estimates NRW to be over 45% of water produces in most of the Indian cities. NRW is a pain point for most of the water utilities in India. Hence, it is imperative to address the issue of high system losses for achieving optimal service delivery. The programme gains utmost relevance in the context of Jal Shakti & Government of India (GOI).

The programme is aimed to enhance the capacity of the senior and middle level officers of Public Health and Engineering Department, Water supply Board and engineers of urban local bodies, Urban sector professionals, Project Managers and Consultants.

The programme brochure and nomination form are herewith attached with a request to nominate few officers from your organisation.

We look forward to receive your confirmation at the earliest

Thanking You

V. Srinivas Chary

Encl: Programme Brochure along with Nomination form



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Programme on

NON-REVENUE WATER MANAGEMENT

October 16-18, 2019

24 x 7 Water Supply

Operational efficiency	System Input Volume (Water Produced)	Authorized Consumption	Billed & Authorized Consumption	Billed & Metered	Revenue Water	Collected	
				Billed & Un-Metered		Un- Collected	
	Water Losses	UFW	Un-Billed Authorized Consumption	Un-Billed & Metered	Non-Revenue Water	NRW	Un-Billed
				Un-Billed & Un-Metered			
		Apparent Losses	Theft				
			Customer Meter Errors				
			Data Errors				
		Real Losses	Storage Leakage				
			Transmission Main Leakage				
			Service Connection Leakage				

Financial sustainability

Resilient Cities

Program Overview

India is suffering from the worst water crisis in its history and millions of lives and livelihoods are under threat. Currently, 600 million Indians face high to extreme water stress. The condition is only going to get worse. By 2030, the country's water demand is projected to get doubled, implying to severe water scarcity for hundreds of millions of people. The Ministry of Housing and Urban Affairs (MOHUA) has identified 255 districts (756 ULBs) in India as water stressed. About 17% notified cities and town in India are facing water scarcity. Delhi, Hyderabad, Jaipur, Bengaluru, Chennai, Puducherry, Amravati, Mumbai are some of the listed cities.

With cities being highly water stressed, the urgency of ensuring safe and affordable water supply is becoming a pressing issue. One of the major reasons why cities are in high water shortages is the high system losses. A recent study by the Ministry of Housing and Urban Affairs, GOI estimates Non-Revenue Water (NRW) to be over 45% of water produced in most of the Indian cities. NRW is a pain point for most of the water utilities in India. Hence, it is imperative to address the issue of high system losses for achieving optimal service delivery.

Non-Revenue Water (NRW) is the difference between the volume of water put into a water distribution system and the water for which customers are billed. High level of non-revenue water reduces the water utility's capacity to fund necessary expansions of services. It is a key indicator for a utility's operational and financial performance.

The training programme of Non-Revenue Water Management focuses on addressing technical, operational and managerial issues associated NRW management service chain. The programme details out steps for computing a water balance, consequences of physical and commercial losses and strategies to reduce them. The financial aspects of NRW reduction will be discussed as well as guidance on how to make a smooth transition from intermittent to 24x7 water supply.

Objectives

To enhance knowledge and skills of practitioners to plan and implement a city level non-revenue water management.

The objectives of the program are:

1. Introduce the components of non-revenue water and assess the impact of NRW on service delivery

2. Learn to compute a water balance and its applicability in water supply management systems
3. Understand and identify the different causes of physical and commercial water losses
4. Discuss various leak detection techniques and control mechanisms
5. Develop a strategy and action plan for non-revenue water reduction

Content and Pedagogy

The program adopts an interactive approach, with a blend of lectures, ICT based tools, videos, hands on group exercises, panel discussions, exchange of experiences and field visits. National and international cases, good practices and recent successful developments will be shared and analyzed.

- ▶ Introduction to Non-revenue water management
- ▶ Understanding the key components of NRW and assessing its impact on service delivery
- ▶ Computing a water audit for a city and understanding the nuances of each water loss component
- ▶ Understanding district metering area (zoning concept)
- ▶ Active leak detection techniques
- ▶ Managing commercial losses
- ▶ Strategies to reduce and manage NRW
- ▶ Monitoring performance of NRW management

Programme Participation

The programme is primarily aimed at municipal commissioners, engineers and public health officers associated with water supply department, national and international development sector partners, NGOs, consultants and private operators engaged in water supply sector.

Organizational sponsorship is essential

VENUE

The programme is fully residential and the participants will be accommodated in air-conditioned single occupancy rooms. However, the College does not provide accommodation for the family. Transport between airport/railway station and venue will be arranged by the College. The College is WiFi enabled in a comprehensive way.

DURATION

The programme duration is from **October 16-18, 2019**. The participants are expected to arrive a day before the commencement and may leave after the conclusion of the programme

PROGRAMME FEE

Residential Fee: Rs. 37,500/- (US \$700 for foreigners) plus GST as applicable, presently 18% per participant. The fee covers tuition, board and lodging, courseware (in electronic form) and other facilities of the College including internet usage.

Non-Residential Fee: Rs. 31,500/- plus GST as applicable, presently 18% per participant. The fee covers tuition, course ware (in electronic form) working lunch and other facilities of the College including internet usage.

A discount of 10% on the Programme fee for three or more participants from the same organisation will be given, provided the payment is credited into our Bank account before **October 14, 2019**.

Note: Kindly forward us the details of Bank/Wire transfer of fee payment indicating the Programme Code (Prg/19-20/1/246) to **e-mail: poffice@asci.org.in** for confirmation.

Bank details are given below:

For Indian Participants :

Bank Account Number	62090698675
Beneficiary Name	Administrative Staff College of India
IFSC Code	SBIN0020063
Bank Name	State Bank of India
Branch Address	Bellavista Branch, Raj Bhavan Road, Somajiguda, Hyderabad - 500 082

For Foreign Participants:

Bank Account Number	62090698960
Beneficiary Name	Administrative Staff College of India
Swift Code	SBININBBH04
Bank Name	State Bank of India
Branch Address	Bellavista Branch, Rajbhavan Road, Somajiguda, Hyderabad - 500 082.
Nostro Account (Optional)	6550992180

MEDICAL INSURANCE

The nominees are requested to carry with them the proof of Medical Insurance. The sponsoring agency is required to endorse the nominee's medical coverage in the event of hospitalization..

LAST DATE FOR NOMINATION

Please use the prescribed/attached form. Last date for receiving the nomination form is **October 9, 2019**. Kindly contact Programmes Officer for further details (contact details are given at the end of the nomination form).

LAST DATE FOR WITHDRAWAL

October 11, 2019. Any withdrawals after this date will entail forfeiture of fee paid, if any.

ASCI ALUMNI ASSOCIATION

Participants of the College programmes will automatically become members of the ASCI alumni association.

CERTIFICATE OF PARTICIPATION

The College issues a Certificate of Participation on conclusion of the programme.

Programme Director

Prof. V. Srinivas Chary

Professor and Director, Centre for Energy, Environment, Urban
Governance & Infrastructure Development, ASCI
E-mail: schary@asci.org.in



ABOUT ASCI

ASCI is the first management development institution set up in the country at the instance of the Government of India and industry in 1956 to impart state-of-the-art management education for practicing managers, a legacy that we proudly take forward each year with a strong alumni of over 1,40,000. We are proud of our alumni which includes the leaders of Indian industry and senior Civil Servants in the government, public sector undertakings to be a part of this unique organisation. We are thankful to you all for the support extended in the past and look forward to your continuing patronage in 2019-20.

Also, ASCI conducts customized programmes for Government of India, State Governments, Public Sector, Private Sector and various international organisations. Our experienced faculty bring to the table a wealth of academic credentials, rich industry exposure and act as a catalyst in the classroom discussions, case study analyses and tutorials. Our faculty also conduct international programmes which provide an exposure to the global best practices. In addition to this, faculty at ASCI also carry out large number of management research activities (typically about 100 each year) which helps them provide the much needed value addition in the training programmes. In addition, we conduct non-residential programmes at our New Delhi Centre as well as off-campus programmes at the venue of the client's choice.



Administrative Staff College of India

Bella Vista, Raj Bhavan Road, Khairatabad,
Hyderabad - 500 082, India.

Telefax (Programmes Office) : 0091-40-23324365

Mobile: 9246203535, Phone : 0091-40-66534247

Fax : 0091-40-66534356

Delhi Campus

C-24, Institutional Area
South of IIT, Behind Qutub Hotel
New Delhi-110 016.

Tel: 011-26962204, 26961750, 26961850

www.asci.org.in



ADMINISTRATIVE STAFF COLLEGE OF INDIA
Bella Vista, Raj Bhavan Road, Hyderabad - 500 082, (India)

Nomination Form
Training Programme on
NON-REVENUE WATER MANAGEMENT
(October 16-18, 2019)

Nominee's Contact Information :

Name (Mr/Ms) :	_____	Date of Birth :	_____
Designation :	_____	Qualification :	_____
Organisation :	_____		
Address :	_____		
Phone(s) :	(Off) : _____	(Mobile) :	_____
		Home :	_____
e-mail :	_____	Fax :	_____

Sponsor's Details

Name of the Sponsoring Authority _____	Designation _____
Organisation :	_____
GSTIN :	_____
Address :	_____

	Pincode : _____
Phone(s) :	(Off) : _____
	(Mobile) : _____
e-mail :	_____
	Fax : _____

Fee Particulars

Amount Payable :	_____	Mode of Payment (DD/Chq/NEFT) :	_____
Name of the Bank :	_____	Date of Instrument/Transfer :	_____
Instrument Number :	_____	UTR Number for NEFT :	_____

Medical Insurance

Name of the Insurance Agency	Policy Number	Validity upto
Note : Coverage should be available in Hyderabad, India		

Signature and Official Seal of the Sponsoring Authority :

NOTE : Forward nomination form to : **Mr. G. Srinivas Yadav, Programmes Officer**, Administrative Staff College of India, Bella Vista, Hyderabad-500 082. Phone : 0091-40-66534247, 66533000, Mobile: 9246203535, Fax : 0091-40-66534356, e-mail: poffice@asci.org.in