

# IEI Celebrates World Water Day

**Theme : Nature for Water**

The World Water Day was celebrated by the Institution all over the country on March 22, 2018. Reports of celebration received from various Centres are highlighted here.

## STATE CENTRES

### Andhra Pradesh

Dr M V S Raju, Coordinator, Internal Quality Assurance Cell (IQAC), VR Siddhartha Engineering College, delivered Keynote Lecture on 'The Shocking Truth about RO Water'. He informed that de-mineralized water used by the public has no useful minerals, such as, Calcium and Magnesium. He stated that water is normally acidic in nature, having PH value 5.5 – 6.5 and it dissolves metals which are in contact, may be toxic in nature because RO treated water is aggressive in nature. He cautioned that consumption of such water leads to various diseases. Dr Jandhyala Shankar, Former Mayor of Vijayawada Municipal Corporation, shared his experiences on this occasion. Mr M Seshagiri Rao, Honorary Secretary of the Center, in his address stressed on nature-based solution to save water like production of electricity from solar energy.



### Gujarat



The Chief Guest Mr K A Patel, Special Secretary, Water Resources Department, Government of Gujarat, in his address spoke about the economic and judicious use of water in irrigation adopting

drip and sprinkler irrigation. The Keynote Speaker Prof Vimal Mishra, IIT Gandhinagar, spoke about sustainable management of water resources available to us. He advised that nature-based and technology-based solutions should be adopted for water crisis. He felt that nature-based solutions have the potential to solve many of the water challenges. On this occasion, an exhibition on 'Save Water' was also organized. Earlier, Mr H U Kalyani, Honorary Secretary of the Centre, welcomed the gathering and Mr Vivek P Kapadia, Committee Member of the Centre, elaborated the theme. Prof Amit Prashant from IIT Gandhinagar, proposed the vote of thanks.

### Jammu & Kashmir

Mohammad Ashraf Fazili, Chairman of the Centre, in his welcome address, stated that this year's theme explores how we can use nature to overcome the water challenges of the 21st century. The Keynote Speaker, Dr Shakil Ahmad Romshoo, Head, Department of Earth Sciences, University of Kashmir, speaking on the topic 'Glaciers & Water Resources under Changing Climate' stated that during last six decades, 20% of the glacial mass in the Kashmir Himalayas has been lost and implications of depleting cryosphere under



changing climate on water, energy and food security are far-reaching. Prof Danish Ahmad, Civil Engineering Department, NIT Srinagar and Special Speaker on this occasion, delivered lecture on 'Water Conservation & Solid Waste Management for Sustainable Development'. He informed that nearly two million trees will be cut to restore Wullar Lake under the National Lake Conservation Programme, a joint venture with South Asian Voluntary Association of Environmentalists, to increase water area. Mr Reyaz Ahmad Khan, Honorary Secretary of the Centre, proposed the vote of thanks.

### Jharkhand

The Chief Guest Prof N K Roy, Retd. Engineer-in-Chief, GOJ & Head, Civil Engineering Department, Jharkhand Rai University, Ranchi, suggested that only solution to avoid water crisis is to conserve the rainwater and recharge ground water resources. The Guest-of-Honour, Mr A Rajsekaran, DGM I/C, Environmental Engineering Department, MECON Limited, stressed on the nature-based solutions for preserving the water. He explained the importance of groundwater, aquifers recharging and suggested measures to control them. Mr Sardendu Narayan, Retd. Engineer-in-Chief, Drinking Water & Sanitation Department, GOJ and Mr A P Roy, Member, IEI also expressed their views on this occasion. Earlier, Mr Shivanand Roy, Immediate Past Chairman of the Centre, in his welcome speech, spoke about the important link that exists between nature and water. Mr Vishal Nagpurkar, Senior Design Engineer, MECON Limited, Convener of the function narrated the significance of celebrating the day. Mr Prashant Deva, Past Honorary Secretary of the Centre, proposed the vote of thanks.



### Karnataka



On this occasion, Mr Basavaraj Gadwal, Chief Engineer (Retd), Upper Krishna Project, delivered the 'S G Balekundri Memorial Lecture'. In his address, Mr Gadwal explained about the utilization of water for agriculture lands. He further briefed

how the Upper Krishna Project, major Irrigation Projects, Malaprabha and Ghataprabha Dams and Karanja, Bannithora Projects are functioning. Other dignitaries graced the occasion included Dr M Nemichandrappa, Mr G R Muttagi, Mr M Nagaraj, Committee Members of the Centre and Mr Jasmail Singh, Honorary Secretary of the Centre. The programme was organized jointly with Kalaburagi Local Centre at Kalaburagi.

### Punjab & Chandigarh

The Chief Guest, Prof (Dr) Tara Singh Kamal, Council Member, IEI, in his address, discussed major issues related to water pollution and stressed on creating awareness for consumptive use of water for future generation. Dr Bhajandass and Mr Jaspreet Singh from the Department of Civil Engineering, discussed various issues on contamination responsible for ground water pollution and their preventive measures. Col (Dr) B S Dhaliwal, Vice Chancellor, Guru Kashi University shared his views on the current water related issues. Dr Narinder Singh, Director Finance, Dr Ashwani Sethi, Director P&D, Dr AmitTuteja, Dy Registrar, Dr G S Brar, Dean, Engineering, Dr Varinder Singh, Dy Dean, Engineering were among the dignitaries present on the occasion.



### Tamilnadu

Dr R Venkatesan, Chairman, Kanchepuram Local Centre, IEI welcomed the gathering and introduced the Chief Guest Mr G S Saxena, Vice President–Engineering (India Cluster), VA Tech Wabag Limited, Chennai. Mr T M Gunaraja, Council Member, IEI briefed about the theme of the World Water





Day. Mr G S Saxena, in his address, stated that water, being basic essential for life and with growing urbanization, its availability has continuously declined. He stressed on adoption of nature-friendly advanced technologies for recycling of waste water for various re-use purposes. Mr Saxena discussed

various technologies like membrane technology, advanced technologies for removal of pollutants and micro pollutants, sewage sludge treatment through anaerobic digestion and production of biogas, etc. Mr R Ramdoss, Honorary Secretary of the Centre, proposed the vote of thanks.

### Telangana

The Chief Guest, Mr G L Rao, Past President, IEI, in his address, explained the importance of water which has become precious due to its scarcity. 'Not only technocrats but also the stakeholders need to play a dynamic role in conservation of water, otherwise scarcity is not far away', he opined. The Keynote Speaker, Ms Karuna Gopal, President, Foundation for Futuristic Cities, expressed her concerns about water scarcity. She further narrated that water is the basic natural resources which needs to be conserved for future use by reducing wastage, losses and augmentation by recycling. Dr S Satyanarayana, Chairman of the Centre, presided over the function. Earlier, Dr G Rameshwar Rao, Honorary Secretary of the Centre, welcomed the gathering. Mr V Jambul Reddy, Director (Projects), HMWS&SB and Honorary Secretary, IWWA, Hyderabad Center, proposed the vote of thanks.



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### Uttar Pradesh



The Chief Guest Mr A K Ojha, Former Engineer-in-Chief and Head, UP Irrigation Department, mentioned that whatever we use or draw from nature, it should be our responsibility to return the same to the nature. He stressed that this is the time to take effective steps

for ground water management otherwise within next decade acute water problem will crop up in the whole country. The Guest Speaker Prof Jamal Nusrat, Former Superintending Engineer, Irrigation Department, elaborated the role of nature in solving water related problems. He stressed on effective implementation of ground water recharging, rooftop harvesting and other measures for increasing ground water level. Mr V B Singh, Past Chairman of the Centre and Council Member, IEI informed that in Israel, with average 10 cm rain fall in a year, they produce sufficient food grains that are being exported to other countries. Earlier, Prof Bharat Raj Singh, Chairman of the Centre, welcomed the guests and enumerated about the importance of the day. Mr R K Trivedi, Honorary Secretary of the Centre, proposed the vote of thanks.

### West Bengal

Mr Sisir Kumar Banerjee, President, IEI, graced the occasion as the Chief Guest and complemented the efforts of the Centre for organizing this important event. Dr Debasis Nag, Chairman, Agricultural Engineering Division of the Centre, stated that the theme of the day will show the potential of nature-based solutions for water and how they can be



considered for water management policy and practice. The Theme Speaker Dr Atmaram Mishra, Principal Scientist & Programme Leader, Ground Water Management Programme, ICAR-IIWM, Bhubaneswar stressed upon the strategies for water resource development and various initiatives to mitigate the scarcity of water. He also highlighted the nature-based solutions for facing the challenges of global requirements of water. Prof Anirban Gupta, Head, Centre for Water & Environment Research, IEST, Shibpur, Howrah & Director, Rural Development Forum (RDF), IEI, elaborated upon the effective and sustainable measures to be taken for safe & quality water to all. Mr S P Datta, Chairman, RDF, IEI, stressed upon the importance of water for the improvement of human health and livelihood. Earlier, Mr Kashmir Lal Mallik, Chairman of the Centre, in his welcome address, highlighted the issues and strategies related to global water demand and availability. Mr Ranjan Dutta, Honorary Secretary of the Centre, proposed the vote of thanks.

### LOCAL CENTRES

#### Agra

The Chief Guest Mr Devendra Singh Chaudhary, Chief Engineer (Retd.) and Immediate Past Chairman of the Centre, in his welcome address, spoke about various activities of IEI and highlighted the importance of water management. Mr Dinkar Saxena, Member, Environment, delivered lecture on 'Water Conservation'. He mentioned that water is very essential to maintain required oxygen in human bodies. He also suggested for storing rain water in ponds for recharging water table. Mr D C Gupta, suggested that we must conserve water and stop wastage of water. Mr Rajneesh Kumar Yadav, Department of Electronic and Telecommunication, BSA College of Engineering, Mathura, conducted the programme. Mr Ashok Kumar Shahu, Head of the Department, BSA College of Engineering & Technology, proposed the vote of thanks.



#### Ahmednagar



The Keynote Speaker Dr Dilip G Durbude, Associate Professor, Faculty of Engineering, Water and Land Management Institute (WALMI), Aurangabad, in his address, explained the background of climate change and stated that intensive industrial growth and high consumption lifestyles are the main

reasons for climate change which is a global threat for sustaining rapid economic growth. Stressing on the importance of water management, Dr Durbude emphasized that there should be appropriate techniques for optimizing water use efficiency; scientific water management and farm practices and measures to minimize water loss. He further stated that irrigation is the major area of water consumption where the present water use efficiency is only 30%-35%, the same could be enhanced to 60% through systematic improvement. Earlier, Mr R P Waykar, Honorary Secretary of the Centre, introduced the theme. Mr Avinash Kulkarni, Chairman of the Centre, highlighted various activities of IEI. Prof (Ms) P P Nangare extended the vote of thanks.

#### Aligarh

Dr Gyan Prakash, Chairman of the Centre, welcomed the august gathering. Prof Nadeem Khalil of Civil Engineering Department, AMU, Aligarh and Convenor introduced the theme of the day. He elaborated on 'Safeguarding Water Resources in India with Green and Sustainable Technologies' and highlighted





the significance of natural systems for cleaning rivers. The Chief Guest Dr Sudarshan Tomar, Sr. Oncologist and Environmental Activists, in his address, highlighted the efforts made by the Govt. of India for conservation of rivers of the country. He reiterated the importance of rivers and appealed to the authorities for maintaining the water bodies of the nation. The Guest-of-Honour Dr Ashok Kumar, Former Visiting Professor, Harvard Medical School, Boston and Ex Vice Chancellor, IIMT University, Meerut & AKS University, Satna, spoke about the importance of water and explained various ways to save water. Dr Anis Ahmed Ansari, Assistant Professor, Mechanical Engineering Section, University Polytechnic, AMU, Aligarh presented effective tips to save water in our daily life. Dr Salma Shaheen, Honorary Secretary of the Centre, proposed the vote of thanks.

## Angul

The Chief Guest, Mr Raj Kishore Mishra, Executive Director (S&P Complex), Nalco, in his inaugural address, called upon the engineering fraternity to deal with the challenges related to depleting levels of fresh water. He motivated the gathering to conserve water and help in maintaining water table using latest technologies. The Chief Speaker, Mr Sudhakar Patri, Ex-EIC, Hirakud Basin, Government of Odisha, made a presentation on Hirakud Basin. He discussed the matters related to flood control in Mahanadi Delta and the problems faced in water management in the Hirakud reservoir. Earlier, Mr S K Dogra, Chairman of the Centre, welcomed the guests and delegates while Mr Satyabadi Mishra, Honorary Secretary of the Centre, introduced the Chief Speaker. Mr Y Pattnaik, Vice President, NBVL, graced the occasion as the Guest-of-Honour. Dignitaries from Nalco, namely, Mr M P Mishra, General Manager (Smelter); Mr B B Das, General Manager (CPP); Mr C R Swain, General Manager (O&M), CPP; and Mr D Mohapatra, General Manager (LSP), CPP, attended the celebration. The vote of thanks was proposed by Mr J K Swain.



## Anpara



The Chief Guest, Mr G S Srivastava, General Manager, BHEL, Anpara 'D' Project, in his address, spoke about World Water Day Policies and called upon the engineering community to give equal importance to the urban and rural population while planning

for future projects. Mr Surendra Prasad, Construction Manager, BHEL, Anpara 'D' Project, graced the occasion as the Guest-of-Honour. Earlier, Mr Umesh Ch Mishra, Chairman of the Centre, welcomed the august gathering. Other dignitaries graced the occasion included Mr R N Srivastava, SE, Anpara Thermal Power Project; Mr Rajesh Tiwari, Civil Head, HIE, Renusagar Power Division and Mr Rajesh Prasad, BHEL, 'D' Anpara Thermal Power Project. Mr U C Mishra, Mr Prashant Kumar and Mr Mukesh Kumar Singh of BHEL delivered keynote addresses on the theme of the day and discussed various issues embracing the theme. Mr Mukesh Kumar Singh, Honorary Secretary of the Centre, proposed the vote of thanks.

## Asansol

Mr K V R Raju, Chairman of the Centre, welcomed the gathering and presided over the function. Mr Raju narrated the present scenario of water availability in and around Asansol-Burnpur Industrial Township and the upcoming threat of crisis of water availability. He further emphasized the role of citizens to increase the awareness about water conservation. Mr Sumanta Karmakar, Committee Member of the Centre,



compared the function. Mr T T Lahiri, Honorary Secretary of the Centre, narrated the present scenario of potable water and cited few examples of water crisis. He explained a few examples of how others countries already have taken steps towards conservation of water and how we can imbibe some good practices through which we can change the situation in a big way. Mr Lahiri also proposed the vote of thanks.

## Bareilly

Mr Subhash C Mehra, Chairman of the Centre, in his inaugural address, stressed on creating awareness among the people regarding various issues related to water. He spoke about some of the challenges, such as, water pollution, inadequate water supply, lack of sanitation, etc. Mr N C Atri elaborated the theme and presented several ideas to create jobs by the organizations working on water and allied fields. Mr S K Vias, Principal, Govt. Polytechnic, Bareilly, stated that in arid areas, the riverbeds of seasonal, intermittent rivers and streams often hold shallow ground water reserves, which are recharged every time the rivers flow. Mr S C Sundrani, Immediate Past Chairman of the Centre, stated that environmental damage, together with climate change is driving the water-related crises we see around the world. Earlier, Mr Sudhir Kumar Gupta, Immediate Past Honorary Secretary of the Centre, welcomed the dignitaries and guests. He also proposed the vote of thanks.



## Belagavi



The Chief Guest, Mr Krishna D Udupudi, Chief Conservator of Forest, Belagavi Circle, in his keynote address, stressed on the protection of forest to control the increase of carbon dioxide in the atmosphere resulting melting of ice in the south-pole and north-pole very rapidly. He

felt that it should be controlled to avoid further damage to seashore towns. Mr Udupudi concluded his speech with the appeal of planting more and more trees to save the nature and other living creatures. Prof (Ms) Bharati Chiniwalar, Chairperson of the Centre, presided over the function. Earlier, Mr S M Masuti, Honorary Secretary of the Centre, welcomed the guest and dignitaries. Dr B Venkatesh proposed the vote of thanks.

## Berhampur

Mr Simanchal Das, Director, WATCO Project, Bhubaneswar and the Chief Guest on the occasion, highlighted the world water status and strategies. He exhorted for connectivity of perennial rivers with dry and semi-perennial rivers to cater the irrigation and drinking need of human beings and other creatures. The Guest Speaker, Mr Pramod Kumar Rout, Executive Engineer, Irrigation Division, Berhampur, presented the scenario of water resources and its safe preservation. Dr L K Bisoyi, former Chairman of the Centre, highlighted various steps for conservation of water. Earlier, Mr Ashutosh Patra, Chairman of the Centre, in his welcome address, elaborated the theme. The function was hosted by Mr Sanjaya Kumar Moharana, Honorary Secretary of the Centre. Mr Rajani Kanta Patro, Past Honorary Secretary of the Centre, proposed the vote of thanks.



## Bhilai

Mr Kailash Malhotra, Chairman of the Centre welcomed the dignitaries and the participants. Speaking on the theme, Mr Malhotra stated that damaged ecosystems affect the quantity and quality of water available for human





consumption. He apprised that at present, 2.1 billion people live without safe drinking water at home affecting their health, education and livelihoods. A short film prepared by Mr Rupesh Gupta on 'Crises of Water at Cape Town, South Africa' was shown to the audience. The function concluded with the vote of thanks proposed by Mr Viteswar Nath, Honorary Secretary of the Centre.

### Bhimavaram

Mr A V Rao, Assistant Engineer-Irrigation, Undi Division, graced the occasion as the Chief Guest. Mr Rao, in his address, highlighted the importance of water in balancing the natural ecosystem and urged to protect the water for the future generations. Mr V K Viswanadha Raju, Honorary Secretary of the Centre, graced the function as the Guest-of-Honour. He urged the students to preserve and conserve water. The Principal Dr G Srinivasa Rao and Vice Principal, State Member of Institute of Engineers Mechanical Division Dr P Srinivasa Raju also attended the function and addressed the gathering. Dr Raju also proposed the vote of thanks.



### Bokaro Steel City



Mr A C Goyal, Chairman of the Centre, welcomed the Chief Guest and dignitaries. He highlighted the importance of World Water Day and measures to be taken for enhancing awareness. Mr R C Srivastava, Executive Director (Projects), SAIL,

Bokaro Steel Plant, graced the occasion as the Chief Guest. Mr Srivastava, in his address, stressed the need for conservation of each drop of water and emphasized for Zero discharge system in Bokaro Steel Plant for which number of projects are under implementation. Mr Y N Singh, Honorary Secretary of the Centre, proposed the vote of thanks. Technical papers embracing the theme 'Water for Nature' were presented and discussed during technical session.

### Dhanbad

Dr T N Singh, Former Director, CSIR-CIMFR, Dhanbad and Past Chairman of the Centre, presided over the function. In his address, Dr Singh mentioned that if we ignore the ecosystem and make it adverse, there will be scarcity of water which will not only create problem to us but it will be a problem to all living being in this planet. He further emphasized that damage to the environment is creating scarcity of water unabatedly which can be controlled only by honouring the nature. Earlier, Mr H N karmakar, Past Chairman of the Centre delivered the welcome address and Dr R K Srivastava, Former Professor, Production Engineering Department, BIT, Sindri, introduced the theme of the day. Other dignitaries, graced the occasion included Mr B K Samanta, Past Chairman of the Centre, Mr S Ratnaker and Dr M K Chandra, Jt. Honorary Secretary and Immediate Past Honorary Secretary of the Centre, respectively.



### Dharwad

The Chief Guest, Dr Satish Annigeri, Registrar (Evaluation), Visvesvaraya Technological University, Belagvi, stated that balance between development and exploitation of nature is a matter of serious concern in the present



context. He mentioned that natural practices would help in resolving climate change which is a major concern in which water is one component. Mr S M Venkareddy Narayana, Chairman of the Centre, while presiding over the function,

mentioned that traditional natural practices should be adopted to use water judiciously and preserve for next generations to come. Earlier, Dr Mrityunjaya R Kappali, Immediate Past Chairman of the Centre, welcomed the gathering. Prof (Dr) Ramesh L Chakarasali, Honorary Secretary of the Centre, stated that water is the root cause of civilization and there is a need for sustained activities to maintain the balanced ecosystem. Dr S S Kerur proposed the vote of thanks.

### Durgapur

The Chief Guest, Mr S Jayal, General Manager (Project), SAIL, Durgapur Steel Plant, in his address, highlighted the relation of nature and water and the consequences. In this context, he presented a case study of a lock gate breakage of Durgapur barrage. The Guest-of-Honour, Mr Subhadeep Banerjee, Town Planner, Asansol-Durgapur Development Authority, in his presentation focused mainly on the problems of water scarcity faced in the urban areas today. He enumerated that it becomes utmost important that steps should be taken in order to promote nature based low cost solutions for water conservation and water purification. Earlier, Mr R K Roy, Chairman of the Centre, in his welcome address, mentioned that nature-based solutions have the potential to solve many of the water problems. Mr M N Bandyopadhyay, Honorary Secretary of the Centre, proposed the vote of thanks.



### Faridabad



Mr Subhash Chander, Chairman of the Centre, in his opening address, stressed the need for conservation of water and its judicious use, so that all of us can have clean and fresh water all the time. Ms Kiran

Chander, Chairperson, M/s Techno Udyog, Faridabad, graced the occasion as the Chief Guest. Dr Pradeep Kumar, Associate Professor, YMCA, spoke about conservation of water in the medieval period and emphasized that healthy ecosystems are important to secure water supplies while water supplies to maintain healthy ecosystems are critical. Mr I S Chauhan, Architectural and Structural Consultant, stated that green infrastructure and grey infrastructure play an important role in water management. 'Green Infrastructure refers to strategic use of networks of natural lands, working landscapes to conserve ecosystem whereas grey infrastructure refers to human engineered infrastructure for water resources such as water and waste water treatment plants, pipelines and reservoirs', he added. Mr Sameer Kumar, Convener, Technical Committee, proposed the vote of thanks.

### Ghaziabad



Prof (Dr) H S Sharma, Chairman of the Centre, welcomed the gathering and highlighted the importance of observing the day. Mr R P Sharma, Convener on the occasion, elaborated the theme of the day. The Chief Guest, Dr K K Govil, Former

Director, Power Finance Corporation and Former Chief Engineer, Central Electricity Authority, in his address, stressed upon the application of nature



based solutions for efficient use of water and energy. He cautioned about the alarming situation of scarcity of water in coming days due to increasing consumption of water. Dr Govil advocated the possibility of conserving water in various areas by increasing its efficiency of utilization. The Guest-of-Honour, Dr R S Varshney, Former Engineer-in-Chief, UP Irrigation and Former Secretary General, International Commission on Irrigation Drainage, discussed the pattern of consumption of water in domestic, agriculture and other sectors; disappearance of ponds, lakes, other water bodies; decreasing level of ground water in earth; alarming level of pollution in rivers, etc. He advocated adoption of alternate ways of handling water in daily life; recharging, rainwater harvesting etc., for curbing wasteful expenditure of water. Dr S C Gupta, Honorary Secretary of the Centre, proposed the vote of thanks.

### Gorakhpur

A Seminar was organized on this occasion. The Chief Guest, Dr S S Verma, Head (Retd.), Geography Department, DDU University, in his address, expressed his view about water crisis all over the world and mentioned some of the techniques to mitigate the same. Dr Shiraj A Wajih, President of Gorakhpur Environmental Action Group, in his Keynote Address, spoke about poor condition of rainwater harvesting in Gorakhpur. He urged the individuals to take action for tree plantation and minimum consumption of water wherever possible. Earlier, Mr M W Beg, Chairman of the Centre, in his inaugural address, enumerated that everybody is responsible for today's degraded position of drinking water though 71% of water is available on earth. Mr V K Srivastava, Honorary Secretary of the Centre, proposed the vote of thanks.



### Jammu



A Seminar was organized on this occasion. The Chief Guest Mr Sham Lal Choudhary, Hon'ble Minister for PHE and I & FC Department, Govt. of Jammu & Kashmir, in his address, stated that it is our responsibility not to waste or pollute

water because water is a precious resource. 'If we wish to leave clean and adequate water for our future generations, we need to save and preserve it today', he added. Mr Choudhary urged the engineers to ensure supply of clean and safe water to the masses and also to conserve water resources. Mr M Raju, Secretary to the Govt. of J&K, PHE and I&FC Department and Mr Ramesh Kumar, Commissioner, Jammu Municipal Corporation, graced the occasion as Guests-of-Honour. Mr Ramesh Kumar, advocated adoption of very simple dictums in our day-to-day life which can result into saving lot of water. The function was presided over by Mr Ravi Kumar Chanyal, Chairman of the Centre and Mr K K Magotra, Executive Director, CCDU, WSSO, Dept. of PHE, I&FC, J & K Govt. presided over the function. Earlier, Mr Ravi Kumar Chanyal, welcomed the august gathering. Mr Vijay Kumar Sharma, Honorary Secretary of the Centre, conducted the proceedings of the Seminar. Mr Gopal Sharma, AEE, CCDU, proposed the vote of thanks.

### Kanyakumari

Mr G Siva Subramanian, Chairman of the Centre, in his address, highlighted the importance of water management. He stated that with the increase of population, the consumption of water is also increasing and at the same time water bodies are increasingly polluted. The Chief Guest, Mr M R Moham, Deputy Superintending Engineer, PWD, Tamilnadu, in his address, explained various lapses in water management, difficulties in carrying out irrigation,



drying of water bodies, elimination of water bodies in the process of urbanization etc. He further explained in detail about the irrigation system in Kanyakumari district. Mr P Gopal and Mr S Natarajan, both Retd. Chief Engineer, PWD, also spoke on water scarcity and how to overcome the same. Mr V Sivathanu Pillai, Honorary Secretary of the Centre, proposed the vote of thanks.

### Kolhapur

Mr A P Patil, Head, Agricultural Engineering Section, College of Agriculture, Kolhapur, graced the occasion as the Chief Guest. Dr Sudhir Bhongale, Editor of 'Rashtrawadi' and 'Krishi Jal' Magazines, delivered lecture on the theme of the day. Earlier, Dr Suhas B Patil, Principal, Dr D Y Patil College of Agricultural Engineering and Technology, Talsande, welcomed the dignitaries and guests. Mr Ajay Deshpande, Coordinator of the function, introduced the Chief Guest. Committee Members viz. Mr Jyoti Jadhav and Mr. Pravin Ukey attended the function along with Mr G S Nevkar, JRO, RSJRS, Kolhapur. Mr Mangal Patil, proposed the vote of thanks.



### Kollam

The Chief Guest, Mr K V Ramanujan Thampi, Technical Director and Chief Consultant, SWEWS, stated that water availability and its quality are the two major areas of focus and in the present scenario of Kerala, it is not the lack of availability, but improper management creates problems. He emphasized that for the survival of the future generation, the young generation should act urgently and play active role in this respect. Mr P Rajendraprasad, Chairman of the Centre, presided over the function.



He presented the detailed statistics of water availability and the imbalance. Earlier, Dr Adarsh S, Faculty Adviser, IEL Students' Chapter (Civil), in his welcome address, highlighted the importance of observance of the day and stated that the flood, drought, climate change, water pollution are the major threats for this resource. Mr K Sivadasan, Honorary Secretary of the Centre conveyed the message of 'World Water Day 2018'. Prof Mamatha, Assistant Professor of Civil Engineering, proposed the vote of thanks.

### Kota

Mr C K S Parmar, Chairman of the Centre, welcomed the august gathering and highlighted the importance of the day. The Chief Guest, Mr K D Sandu, Chief Engineer, WR & Director General, IMTI Kota, explained the significance of observing the day and highlighted the water availability scenario of Rajasthan including drinking water. He also stressed on Intra Basin Transfer Scheme. The Guest Speaker, Mr Kailash Bhargava, Additional Director (Retd.) Govt. of Rajasthan, discussed in detail about nature based solutions (NBS) of water crisis, such as, restoring forests, grasslands and natural wetlands, reconnecting the rivers to floodplains, creating buffers of vegetation along water courses, etc. 'NBS are not a panacea to the critical water-related challenges we face as the global population grows, but they can provide innovative and cost-effective options for supplementing insufficient or ageing water infrastructure', opined Mr Bhargava. The Guest-of-Honour, Mr Shyamveer Singh, Former Superintending Engineer, PHED, Kota, in his address, stressed the need for safe drinking water and sanitation solutions. Mr Jasamat Singh, Honorary Secretary of the Centre, proposed the vote of thanks.





## Kozhikode



Prof (Dr) K P Mohandas, Chairman of the Centre, welcomed the august gathering and presided over the function. Dr A Achyuthan, famous Environmentalist & former Director, Academic Staff College, Calicut University, delivered the

inaugural address. Dr Pramada S K, Assistant Professor, Department of Civil Engineering, NIT Calicut, while presenting the theme paper, stated that growing demands, poor management and climate change effects have increased water crises and scarcity of water is a major problem in many parts of the world. Dr E J Joseph, Senior Principal Scientist & Former Executive Director, CWRDM, delivered lecture on the topic 'Water Crisis'. With relevant statistical data on consumption of water for different crops in different countries, he illustrated how the water crisis threatening the world can be alleviated. The function concluded with the vote of thanks proposed by Prof Devadasan K K, Secretary, Society for Protection of Environment Kerala.

## Ludhiana

Dr H S Rai, Dean Consultancy and Principal in Charge, Guru Nanak Dev Engineering College, Ludhiana, graced the occasion as the Chief Guest. Mr S Ravneet Singh, Director, Eco Sikh, Ludhiana, in his speech, highlighted the importance of water and informed that water table in Punjab is falling by 1m per year. He exhorted the youngsters to think about ways for sustainable development. Mr Singh further advocated strong government policies to meet the growing water crisis. Brig. (Retd.) Mastinder Singh, Chairman of the Centre, explained that world over water crisis is looming large and we must act now to save water and thereby save ourselves. Dr Arvind Dhingra, Faculty Advisor-SCIE, Guru Nanak Dev Engineering College, Ludhiana, proposed the vote of thanks.



## Madurai



The function was chaired by Mr K Vijay Kumar, Chairman of the Centre. Dr S Rajamohan, Chairman, CII, Madurai Zone, delivered the welcome address and introduced the need for Water Vision 2030 for Madurai city. Dr S Chandran, Associate Professor in Civil

Engineering, Thiagarajar College of Engineering, Madurai, set the context and conducted the brainstorming session. He narrated the objective of celebrating the day and explained the theme 'Nature for Water'. In his speech, Dr Chandran presented an inventory of the available water sources & its potential to meet the demand of water. The programme was concluded with the vote of thanks proposed by Mr J Samuel, Honorary Secretary of the Centre.

## Meerut

Mr S C Govil, Chairman of the Centre, welcomed the guests and dignitaries. The Keynote Speaker, Mr S K Kumar, Chairman, Indian Water Resources Society, Meerut Chapter, stressed that excessive and continuous misuse of important natural resource like water is resulting global crisis. He explained that solution of the problem is possible only if every misuse of water is stopped and the clean water looted from natural resources is returned. He stated that



70% of total water consumption is in agricultural sector and by adopting drip and sprinkler irrigation, one-third water can be saved. Ms Swati Chaudhary, Assistant Professor in Civil Engineering, ABSS Institute of Technology, Meerut, discussed several techniques of saving and purification of water. Mr A K Gupta, Retd. Chief Engineer, UP Irrigation, lamented that we have totally polluted the surface water on earth and presently engaged in overexploiting the ground water. Mr Rajneesh Kumar, Honorary Secretary of the Centre, conducted the programme. Mr Ram Niwas, Joint Honorary Secretary of the Centre, proposed the vote of thanks.

## Munirabad



Mr Rajashekhara Gowda Patil, Honorary Secretary of the Centre, welcomed the dignitaries and the participants. The Guest Speaker, Mr T Naraudhin, Head, Department of Mechanical Engineering, TMAES

Polytechnic College, Hospet, in his address, spoke about the origin of water, its uses, purification, sources, wastage, etc. He further explained in details about how to save water. The function concluded with the vote of thanks proposed by Mr Rajashekhara Gowda Patil.

## Neyveli

Mr N Periyasamy, Deputy General Manager/Geology, Mine II, NLC India Ltd, graced the occasion as the Guest Speaker. He delivered a special lecture on the theme 'Nature for Water'. Mr A Chinnadurai, General Manager/Projects & Business Development, NLC India Ltd, presided over the function and shared his experience. Earlier, Mr B Selvan, Honorary Secretary of the Centre, welcomed the gathering and introduced the Guest Speaker. Mr T D Natraj, proposed the vote of thanks.



## North Bengal

The theme Speaker, Mr Tapan Kumar Roy, Lecturer, Civil Engineering Department, Jalpaiguri Ploytechnic Institute, in his address, stated that environmental damage, together with climate change, is driving the water-related crises we see around the world. He further explained that floods, drought and water pollution are all made worse by degraded vegetation, soil, rivers and lakes. Mr Roy felt that nature-based solutions have the potential to solve many of our water challenges. He mentioned that planting new trees, reconnecting rivers to floodplains and restoring wetlands will rebalance the water cycle and improve human health and livelihoods. Mr Asim Mahapatra, Honorary Secretary of the Centre, proposed the vote of thanks.

## Roorkee



The Chief Guest, Dr Dipankar Saha, Former Member, Central Ground Water Board, Government of India, New Delhi, stressed on ground water resources mapping and its utilization in India and implementation of aquifer mapping

and its management which is also important to meet the sustainable water requirements of the country. The Guest-of-Honour, Dr Ambrish Kumar, Principal Scientist, Indian Institute of Soil & Water Conservation, Dehradun, spoke about the nature-based solutions on soil and water conservation through water harvesting. Prof M L Kansal, Officiating Head, WRD&M, IIT Roorkee, mentioned how water is perceived as a valuable resource in the economy and as an efficient investment in the health of human and ecosystems. Earlier, Mr Malvinder Singh, Chairman of the Centre while welcoming the gathering appealed to make every drop of water count for



safe future. Dr Achal Kumar Mittal, Honorary Secretary of the Centre, also addressed the gathering. Dr Ashish Pandey, Secretary, IWRS & Professor WRD&M, IIT Roorkee, summarized the proceedings and proposed the vote of thanks.

#### Rourkela



Prof S K Sahu, Honorary Secretary of the Centre, welcomed guests and dignitaries. The Guest speaker, Mr P K Mehrotra, General Manager-Utilities (Retd.), Rourkela Steel Plant and Chairman of the Centre, explained that since water is becoming precious resource and supply is not enough, we must look for nature-based

solutions for water crisis. He demonstrated different techniques of rainwater harvesting system, collection of water from air, sea water desalination and how to turn salt water into fresh water. He further explained about how other countries are using unique techniques to tackle their water related issues. The presentation was followed by a brief interactive discussion on the central theme. The function concluded with the vote of thanks proposed by the Joint Honorary Secretary of the Centre Mr Harjit S Kanvel.

#### Saurashtra

Mr H A Kansagra, Chairman of the Centre, welcomed the guests and dignitaries. Prof (Dr) Jayesh V Deshkar, Principal, V V P Engineering College (VVPEC), Rajkot, presided over the function. Prof (Dr) J V Mehta, Head, Civil Engineering Department, VVPEC, Rajkot, delivered the theme lecture. Mr Deepak V Suchde, Chairman, Activity Sub-Committee of the Centre, highlighted various technical activities of the Centre. Mr Navinchandra K Ravajibhai, Honorary Secretary of the Centre, also addressed the gathering.



#### Tiruchirappalli



The Guest Speaker, Mr P Chidambaram, Senior Training Consultant, Irrigation Management Training Institute, Tiruchirappalli, delivered lecture on the topic 'Water Resources & Irrigation Management'. He mentioned that if

water is properly harnessed, stored and utilized, it can prove a boon and immense value to the mankind. 'In case, if it is not properly controlled, it may become a curse and cause of misery and destruction to the humanity', added Mr Chidambaram. Mr D Harsha, Former Chairman of the Centre along with Mr R Selvaraj, Chairman and Mr S Lakshmanan, Honorary Secretary of the Centre, attended the function.

#### Tiruvallur



On this occasion, a programme on "Water Conservation Drawing Competition" was organized. Mr R Kalaingnan, Faculty Advisor, IEI MGR Student Chapter, welcomed the gathering. Mr A Peter Rajan, Chemist, Tamil Nadu Electricity

Board, Tamil Nadu, inaugurated the programme. Prof (Dr) S Ravichandran, Honorary Secretary of the Centre, delivered an inspirational talk on Water Conservation. Dr L Ramesh, Joint Honorary Secretary of the Centre, honoured the Speaker Mr A Peter Rajan. Mr Abhishek Arya, Activity Manager of the Centre, proposed the vote of thanks.

#### Trichur

Mr V Damodaran, Chairman of the Centre, presided over the function. Prof K R Janardanan, Retd. Professor of Chemistry and Ex State President, Kerala Sastra Sahithya Parishad, graced the occasion as the Chief Guest and presented the theme paper on the topic 'Nature for Water'. Prof Janardanan delivered lecture highlighting the importance of preserving nature for getting water for all inhabitants. Mr V V Sudhakaran introduced the Chief Guest. Mr U K Sugathan, Honorary Secretary of the Centre, proposed the vote of thanks.



#### Upper Assam

The Chief Guest, Mr Ashim Kumar Ghosh, General Manager (Unit), Brahmaputra Valley Fertilizer Corporation Ltd, Namrup, enlightened the house with the modern techniques on regeneration of water used for industrial



purposes, preservation techniques of potable water etc. The Guest-of-Honour Mr Diganta Goswami, Senior Manager (E&M) AGBPP, NEEPCO, highlighted the possible threat to mankind due to water crisis in the 21st Century. Mr Raghunath Khan, Tata Consulting Engineers (TCE), SHE Officer of the Methanol Plant of APL, Namrup, emphasized that the people in general in our country should awake and take proactive measures for preservation and recycling of natural water. Earlier, Mr Amitava Dasgupta, Chairman of the Centre, welcomed the august gathering and elaborated the theme of the day. He explained how simple measures can be taken for saving water in the day to day activities of urban and rural people. The vote of thanks was proposed by Mr Nazrul Islam, Assistant Engineer, BVFCL, Namrup.