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**CENTRAL BOARD OF IRRIGATION & POWER
NEW DELHI**



NEW OFFICE BEARERS OF CENTRAL BOARD OF IRRIGATION & POWER

NEW PRESIDENT



S.K. Haldar

Shri S.K. Haldar, Chairman, Central Water Commission & Ex-officio Secretary to Government of India, assumes the charge of President, CBIP

CBIP congratulates Shri S.K. Haldar on becoming President of the Board.

Shri S.K. Haldar, graduate in Civil Engineering from Government Engineering College, Jabalpur, is 1985 batch officer from Central Water Engineering Services. He joined Central Water Commission as Assistant Director in 1985 and worked in different capacities in the field of Designs, Field Investigations, Hydrological Observation and Flood Forecasting, Planning, Monitoring & Techno-Economic Appraisal of Multipurpose Projects, Operation and Maintenance of barrages, regulation of water resources in various basins, conflict resolution on various Inter-State issues and inter-national issues related to WRD projects etc.

Shri Haldar has been involved with number of projects in the country, in various capacities, such as Sone basin projects, water supply schemes of A&N Islands, Manas-Sankosh-Tista Link Scheme, Medium Irrigation & Multipurpose Projects of Arunachal Pradesh, Hydrological Observation & Flood Forecasting in Narmada Basin, Monitoring & Techno-Economical appraisal of WRD Projects of Madhya Pradesh & Chhattisgarh, Flood Forecasting Monitoring and Modernisation of flood forecasting network in River Basins of India, Coordinating with the states of MP, UP and Bihar in early execution of Bansagar Dam and sharing Cost & Benefits from the Bansagar Dam, Civil engineering aspects related to the projects as per provisions in the NWDI Award/or assigned by NCA, Operation of Farakka Barrage as per Ganga Water Sharing Treaty of 1996 between India and Bangladesh, Regulation of water resources of Krishna & Godavari River Basins between the States of Andhra Pradesh and Telangana, and Implementation of the Polavaram Multi-purpose Project in Andhra Pradesh.

Shri Haldar, as Member (WP&P), CWC, from year 2018 to 2020, was responsible for dealing with matters related to National Water Policy; Overall planning and development of river basins including Integrated river basin planning and development, various Inter-State issues and Inter-National issues relating to WRD Projects, Monitoring of storage position of the important reservoirs, and Techno-economic appraisal of Water Resources Projects.

As Chairman, CWC, he is providing guidance and support in overall water resources planning & development of India. He is Life Member of Indian Water Resources Society (IWRS).

NEW SR. VICE PRESIDENT



Dinesh Chandra

Shri Dinesh Chandra is holding the post of Member (Hydro) in Central Electricity Authority since 25th March 2019. He has also been holding additional charge of the post of Chairperson, CEA with effect from 1st May 2021.

CBIP congratulates Shri Dinesh Chandra on becoming Sr. Vice-President of the Board.

He did Graduation in Electronics & Communication Engineering followed by Post Graduation in Computer Science from I.I.T., Roorkee. He worked in Bharat Heavy Electricals Limited (BHEL) and Oil & Natural Gas Commission (ONGC) before joining Central Electricity Authority in 1986.

Shri Dinesh Chandra began his career in Central Electricity Authority with his posting in its field office Northern Regional Power Committee (NRPC, earlier named as NREB) and served that office till the year 2007. With effect from January 2008, he has been working at the CEA headquarter. During his 34 years of service in CEA / NRPC, he has dealt with wide variety of subjects in the power sector e.g. Real time system operation, off-line analysis of grid operation, Commercial aspects, System Protection, Energy accounting, CERC / SERCs related matters, Procurement and O&M of IT based systems, Computer programming, Analysis of grid disturbances and preparation of grid disturbance reports, etc. He has attended training courses in power sector related fields in a number of developed countries.

Shri Dinesh Chandra, while handling real time system operation in round the clock shifts in late 1980s, undertook on his own initiative the computerization of various periodic reports being used in the control room followed by computerization of almost all reports, that were being prepared manually in NREB. He also played a major role in giving a practical shape to the Availability Based Tariff (ABT) by developing and implementing ABT based energy accounting software for use by the RPCs for preparing and issuing the weekly and monthly energy accounts.

He got the Information Management System (IMS) commissioned successfully in CEA in the year 2010-11 during his tenure as Director (IT). This system improved efficiency in preparation and issuance of voluminous periodic reports by various divisions in CEA. He was also associated with the Enquiry Committee on Grid Disturbances of July 2012 and contributed not only in analysis of the disturbances / preparation of recommendations & report but also in implementation of those recommendations as Member Secretary of the National Power Committee (NPC). He also contributed in the process of operationalisation of Power System Development Fund (PSDF).

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Greetings from CBIP, New Delhi.

Today, water systems are faced with several challenges, which can be categorized as technical, institutional, political, financial and information-related. These challenges are compounded by global and regional change pressures and associated risks and uncertainties. Water security is an increasing concern particularly to the developing world, considering population growth, uncontrolled urban expansion, increased water infrastructure decay, land use changes, water quality degradation, growing impact of extreme hydrological events and other effects of global change.

In effectively dealing with complex, rapid environmental and demographical changes and challenges, holistic, multidisciplinary and environmentally sound approaches to water resources management and protection policy need to be sought to attain sustainability. Furthermore, the deterioration of hydraulic infrastructure is requiring a level of investment which poses a challenge even to developing countries and is critically impacting the sustainability of water security enterprises and operations. Despite these challenges, there are opportunities to be tapped effectively to transform unsustainable water systems to sustainable. Some of the key opportunities include: strategic planning processes, integrated water management, sustainable, flexible and resilient technologies, emerging economic development, emerging urban centers in developing countries and green economy.

Corporate Social Responsibility (CSR) which has gained considerable interest among various organizations in the past decade, has now become an inevitable priority for major organizations across the globe in recent times. Environment protection, the key focus area and the assistance during natural calamities are the major CSR activities being implemented by PSUs. Another prominent example is the World Economic Forum's Global Water Initiative, which engages leading actors in public-private partnership actions towards the political leadership, commitment, and action across developed and developing countries. Water being more visible and central to global, regional, and national growth and development decision making processes, the investment flows for water are strengthened and diversified through better coordinated, and new and innovative approaches. Hence, the enhanced collaboration between governments and other key non-state actors across thematic issues, economic sectors, geographies, and scope (local, national, regional levels) that is innovative, scalable and which builds resilience is the demand of the day. In this issue, a very important article on the 'Social impact of CSR funding – A Case Study', highlights the importance of CSR funding and how it improves the society culture, etc. has been included with a view to urge PSUs and other organizations to come forward in this social cause and use their CSR fund wisely. In addition, a case study to develop the technical plan for enhancement of ground water recharge, augmenting lean season flows in the springs, and to conserve water in the catchment, to sustain flows in Rispana River system will be the great interest to the water professionals, is included in this edition.

In this issue, few important articles are contributed by eminent engineers from power utilities such as on 'Maintenance, Monitoring & Strengthening of Substation Grounding – Experience of GETCO' which delineates mainly three distinguished grounding enhancement practices for effective strengthening, maintenance, and monitoring of the earthing system. BYPL a power distribution utility in Delhi has taken an initiative for the promotion of rooftop solar PV across the consumers which reveals how BYPL implemented the Rooftop Solar City initiative in a structured format in the capital city Delhi. The case study of Baira Siul Power Station' for Renovation & Modernization describes in detail, the various aspects of planning for R&M and life extension of various Civil, Hydro Mechanical and Electro-mechanical Components.

We all are aware of the 2nd wave of COVID outbreak in India because of which almost all the sectors are experiencing downtime. Power sector is also facing lot of problems not only in India, but also worldwide. Hats-off to our power sector professionals in the country, who are not only continuing to be focused on keeping their assets on-line, but also providing safe, reliable supplies of electricity during the COVID pandemic.

This issue also covers variety of useful information about water resources and power sector. It has always been the endeavour of CBIP, to provide a platform to the professionals, for sharing their experiences, in dissemination of the latest State of the art around the nation and overseas which may help them to accelerate the development of water resources and power sectors including renewable energy sector which ultimately benefit to the public at large.

I hope the readers will find this issue of the journal quite informative & useful.

A.K. Dinkar
Secretary, CBIP