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3rd Edition

CONSTRUCTION OF IRRIGATION SYSTEMS

A VIRTUAL CONFERENCE

July 22-23, 2021

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CONSTRUCTION OF IRRIGATION SYSTEMS

Mission

- The irrigation sector has witnessed a surge in the adoption of new and innovative construction techniques and methods due to the alarming depletion of water resources. New irrigation technologies are being developed to shift from rain-dependent farming to innovative practices such as the underground pipeline conveyance, rainwater harvesting and storage, and the use of treated wastewater.
- A greater emphasis is being laid on micro-irrigation (drip and sprinkler) systems and efficient water-use mechanisms. Modern designs for canal irrigation and storage systems are being adopted to reduce the execution time and improve the quality of structures. Systems such as solar-powered lift micro-irrigation are gaining prominence over the conventional flooding method of irrigation.
- Sophistication in equipment is being witnessed across the irrigation sector. Higher capacity equipment with better safety features is being developed. Besides, a major technological innovation has been the canal network flow monitoring system, which monitors canal systems and on-farm parameters using sensors, remote terminal units and information and communications technology. The use of digital solutions such as geographic information systems is also being tested to enable complete online tracking of the micro-irrigation system.
- With several projects in the planned and announced stages, the irrigation infrastructure is expected to expand significantly. New strategies need to be devised to fast-track the construction work and minimise the impact of Covid-19 on the sector. It is estimated that over Rs 5 trillion worth of projects will be awarded over the next five to six years. This will create manifold opportunities for EPC contractors, technology suppliers, and raw material and equipment providers. With the greater use of modern techniques and technologies for risk assessment, design and construction, the sector will witness lower risks in project construction in the years to come.
- The mission of this virtual conference is to understand the emerging trends and developments, discuss the state irrigation plans, and highlight the opportunities and challenges. It will also showcase the latest construction techniques, best practices and the new and innovative technologies in design, engineering and construction.

Target Audience

- The conference is targeted at:
 - State irrigation departments
 - Water resources department
 - Project developers
 - EPC contractors
 - Financiers and consulting firms
 - Pump manufacturers
 - Pipe manufacturers
 - Meter manufacturers
 - Storage system providers
 - Technology providers
 - Renewable/Captive energy developers
 - Instrumentation and monitoring solution providers
 - Equipment manufacturers
 - Multilateral funding agencies
 - O&M contractors
 - Water network management companies
 - Policymakers and regulators
 - Etc.

Previous participants

Aarvee Associates, Adroitpmc, AECOM, Afcons Infrastructure, Ahmedabad Municipal Corporation, Alar Infrastructures, Alembic, Ambuja Cements, AMR India, AP Water Resources Department, Aparna Constructions and Estates, Astral Pipes, Athena Chhattisgarh Power, AUMA, Bajaj Reinforcements LLP, Bangalore Water Supply & Sewerage Board, BASF, Bhagalpur Smart City, BHEL, Black & Veatch, Bosch, BGR Mining, Breivoll Inspection Technologies, BVSr Constructions, C.R.I Pumps, Caterpillar, Central Public Works Department, Central Water Commission, Chhattisgarh Water Resources Department, Cleantec, Ceinsys Tech Limited, Central Water Commission, Coastal Projects, Consolidated Construction Consortium, Consortium for DEWATS Dissemination Society, Creative Entrepreneurs, Crisis, CSIR-IGIB, Delhi Jal Board, Delhi State Industrial and Infrastructure Development Corporation, DHI, Dlinfra, Dsklegal, DTK Hydronet Solutions, Electrosteel Casting, ElkirPro Engineering Solutions, Energy & Financial Management Consultant, EPTISA, Ernst & Young LLP, Escorts Limited, Evio, Fair Flow, Forbes Marshall, Gainwell Commosales, Gardner Denver, Gayatri Projects, Ghaziabad Municipal Corporation, GIFT, GKW Consult GmbH, GMMCO, Godavari River Management Board, Grundfos Pumps, Gurugram Metropolitan Development Authority, Gwalior Smart City Development Corporation, Hach, Heuristech Labs, Hindustan Construction, Hitachi, Hitachi Zosen, HPD-Consultants, ICRA, IFC, Ion Exchange, Irrigation & CAD Department-Govt of Telangana, Itron, IVRCL, Jain Irrigation Systems, Jash Engineering, JWIL, K&J Projects, Kanpur Municipal Corporation, KBJNL, KEC International, Kishor Pumps, KNR Constructions, Khaitanco, Kohler India, KPMG, KSB Pumps, Larsen & Toubro, Lawnsenate, L&T Valves, Larsen & Toubro, McElroy, M.P. Water Resources Department (Narmada Tapti Basin Indore), Madhucon Infra, Mahagenco, McElroy, McWane, Megha Engineering & Infrastructures, Ministry of Water Resources, Minor Irrigation, Mukand Poly Products, Municipal Corporation Karnal, Municipal Corporation Moradabad, Naba Diganta Water Management, Nagar Palika Parishad Kannauj, Nagarjuna Sagar Project, Nagpur Environmental Services, Nagpur Smart City, Nangloi Water Services, Nataraj Polyplast, National Mission for Clean Ganga, National Water Development Agency- Ministry of Water Resources, Navi Mumbai Municipal Corporation, NCC, Netafim Irrigation, New Delhi Municipal Council, NH Consulting, NITI E-Mumbai, NJS Consultants, NTPC, Oil and Natural Gas Corporation, Organica Water, OwensCorning, Perfect Valves, Pimpri Chinchwad Municipal Corporation, Port Blair Municipal Corporation, Praj Industries, Public Health Engineering Department, Punjab Water Supply & Sewerage Board, Reliance Industries, Retas Enviro Solutions, Ridings Consulting Engineers, Ramco Cements Limited Ritwik Projects, Rubicon Water, Royal HaskoningDHV, Sadhan Environment, Schwing Steitter, SFC Environmental Technologies, Shah Technical Consultants, Shankarararyana Construction, Shell India Markets, Shubham Acqualink, Skipper-Metzer, Smart Energy Water, SMS Infrastructure, SPML Infra Limited, Srei Equipment Finance, Srikalahasthi Pipes, Sri Raja Rajeswari Constructions, Suez, Stalkraft, Swach Environment, Tamil Nadu-Public Works Department, Tata Communications, Tata Consulting Engineers, Tata Metaliks, Tata Projects, Tata Relief Committee, Technofab Engineering Limited, Ternio Systems, Thane Municipal Corporation, The World Bank, Triveni Engineering & Industries, Unicon ZSK, UP Jal Nigam, VA Tech Wabag, Vag Valves, Vishvaraj Infrastructure, Vishwa Infrastructures and Services, Voltas, Voltas Limited, Volvo, Waterking, Water Resources Department-Govt of Gujarat, Water Resources Department-Government of Maharashtra, Water Resources Department (Madhya Pradesh), Weg Industries, Wegot Utility Solutions, WILO Mather and Platt Pumps, Wipro Water, Xylem, ZENNER Aquamet, etc.

AGENDA/STRUCTURE

TRENDS, DEVELOPMENTS AND POST-COVID-19 OUTLOOK

- ❖ What have been the key trends and developments in the irrigation sector? What has been the impact of Covid-19 on the sector?
- ❖ What has been the progress under various government programmes (PMKSY, AIBP, CADWM, etc.)?
- ❖ What are the issues and challenges? What are the new and upcoming opportunities?

CONTRACTOR VIEWPOINT: CONSTRUCTION EXPERIENCE AND CHALLENGES

- ❖ What is the perspective of contractors on the irrigation sector?
- ❖ What has been the project implementation experience? What have been the key challenges?
- ❖ What are their future plans and outlook for the sector?
- ❖ What are their expectations from the government and other stakeholders?

STATE IRRIGATION POTENTIAL, NEW PROJECTS AND OPPORTUNITIES

- ❖ What is the status of irrigation projects in your state?
- ❖ What has been the experience so far in project implementation? What are the best practices and lessons learnt?
- ❖ What are the upcoming projects and investments? What are the key issues and challenges?

THE WAY FORWARD FOR MICRO IRRIGATION SYSTEMS

- ❖ What has been the experience so far with micro-irrigation in India? What has been the trend in the uptake of micro-irrigation systems by the states so far?
- ❖ What are some of the noteworthy initiatives and projects?
- ❖ What are the key lessons learnt and new technologies deployed?
- ❖ What are the key issues and challenges?

FOCUS ON IRRIGATION STORAGE SYSTEMS

- ❖ What has been the experience with regard to the construction of irrigation storage structures?
- ❖ How have construction practices evolved over the years? What are the new trends and advancements?
- ❖ What are the new techniques being deployed to optimise construction costs and time?

SPOTLIGHT ON PIPED IRRIGATION SYSTEM

- ❖ What has been the experience so far with piped irrigation system in India? What has been the trend in the uptake of these systems?
- ❖ What are some of the noteworthy initiatives and projects? What are the key lessons learnt and new technologies deployed?
- ❖ What are the key issues and challenges? What is the future outlook?

FOCUS ON SUSTAINABLE MATERIALS FOR IRRIGATION CONSTRUCTION

- ❖ What are the recent advancements and new innovations in this area?
- ❖ What are some of the successful case studies?
- ❖ What are the lessons learnt?

SPOTLIGHT ON CANAL IRRIGATION SYSTEMS

- ❖ What has been the experience so far with canal irrigation systems in India? What has been the trend in the uptake of these systems?
- ❖ What are some of the noteworthy initiatives and projects? What are the key lessons learnt and new technologies deployed?
- ❖ What are the key issues and challenges? What is the future outlook?

NEW ADVANCEMENTS IN DESIGN, ENGINEERING AND CONSTRUCTION TECHNOLOGIES

- ❖ What are the emerging needs and requirements with respect to the design, engineering and construction of irrigation projects (flow monitoring system, sensors, etc.)?
- ❖ What has been the experience so far with regard to the use of digital technologies? What are the costs and benefits?
- ❖ What are the likely challenges in the use and adoption of potential technology solutions? What is the future outlook?

OPPORTUNITIES UNDER RIVER INTERLINKING PROJECTS

- ❖ What are the government's plans with respect to river interlinking? What are the investment requirements?
- ❖ What has been the implementation experience so far?
- ❖ What are the upcoming projects and opportunities?

PROJECT SHOWCASE: EXPERIENCE, CHALLENGES AND OPPORTUNITIES

- ❖ What are some of the noteworthy/landmark irrigation projects?
- ❖ What are their key characteristics (irrigation technique/method, project cost, completion period, energy efficiency, water use efficiency, etc.)?
- ❖ What have been the issues and challenges in light of the Covid-19 pandemic?
- ❖ What are the upcoming opportunities and investment requirements?

PUMPS AND PUMPING SYSTEMS: NEW REQUIREMENTS AND ENERGY EFFICIENT SOLUTIONS

- ❖ What are the emerging requirements for pumps and pumping systems for irrigation projects?
- ❖ What are the current practices with regard to the optimisation of energy costs and requirements?
- ❖ What initiatives/measures have been taken by the government to promote the use of solar pumps?
- ❖ What are the key issues and challenges?

EQUIPMENT SHOWCASE: EMERGING REQUIREMENTS AND NEW INNOVATIONS (Sprinkler Systems, Filters, Flow Meters, Injectors, etc.)

- ❖ What are the emerging trends and advancements in the equipment segment? What is the new equipment being deployed to automate processes?
- ❖ How is the industry gearing up to meet the emerging equipment requirements for the irrigation sector?
- ❖ What are the key issues and challenges?

CONSTRUCTION OF IRRIGATION SYSTEMS

Previous speakers (in alphabetic order):

- ❖ **R.K. Agrawal**, Executive Engineer, Water Resources Department, Government of Chhattigarh
- ❖ **G. Amuthan**, Superintending Engineer, Agricultural Engineering Department, Government of Tamil Nadu
- ❖ **Rajat Chowdhury**, Senior Executive in Business Development Department, Electrosteel Casting
- ❖ **A.K. Deharia**, Executive Engineer, Water Resources Department, Government of Madhya Pradesh
- ❖ **Manoj Dhar**, Vice President, Sales and Marketing, Astral Pipes
- ❖ **Anirban Dutta**, Vice President, Sales, Marketing & Strategic Business, Volvo Trucks India
- ❖ **Dr Ambuj Dwivedi**, SE, Irrigation and Water Resources Department, Govt of Uttar Pradesh
- ❖ **Mohit Gulati**, Deputy General Manager, Eicher
- ❖ **C.B. Harinatha Reddy**, Project Officer, Micro Irrigation Project, Department of Horticulture, Government of Andhra Pradesh
- ❖ **J. Chandrashekhar Iyer**, Chief Executive Officer, Polavaram Project Authority
- ❖ **K.M. Jaiswal**, Superintending Engineer, Water Resources Department, Government of Rajasthan
- ❖ **Dr N. Janakiram**, Senior Vice President, Business Development, BGR Mining and Infra
- ❖ **Dr A. Jeyaram**, Chief Executive Officer, SECON
- ❖ **V.C. Jha**, General Manager & Head - Large Water Systems Business Unit, L&T
- ❖ **Vivek P. Kapadia**, Secretary, Government of Gujarat on "Sardar Sarovar Project"
- ❖ **Dr Uday Kelkar**, Managing Director, NJS Engineers India
- ❖ **Akkiraju Radha Krishna**, Executive Engineer, Irrigation Department, Govt of Andhra Pradesh
- ❖ **Tanay Kulkarni**, Co-Founder, DTK Hydronet Solutions
- ❖ **T. Vijaya Kumar**, Associate Vice President, Gayatri Projects
- ❖ **Pushkar S. Kutiyaal**, Member, Godavari River Management Board, Ministry of Water Resources
- ❖ **Surender Makhija**, Strategic Advisor and Senior Vice President, Jain Irrigation
- ❖ **Manish Mittal**, Sales Head and Sashanka Mohanty, Sr. Manager, Smart City Product, Xylem India
- ❖ **Cheeti Muralidhar**, Engineer-in-Chief, Irrigation and CAD Department, Government of Telangana
- ❖ **Kamlesh B Rabadia**, CE and Additional Secy, Water Resources Department, Govt of Gujarat
- ❖ **Dr P.S. Raghavaiah**, Special Commissioner, CADA, Water Resources Department, Government of Andhra Pradesh
- ❖ **Sunil Raj D.**, Executive Engineer, Government of Kerala
- ❖ **C. Ramanathan**, General Manager, Projects, Amrutha Constructions
- ❖ **G. Venkateswara Rao**, Vice President, Projects, Gayatri Projects
- ❖ **Bharath Rao**, Regional Director, McElroy
- ❖ **K Sudarshan Reddy**, GM projects, KNR Constructions
- ❖ **Dr C.B. Harinatha Reddy**, Project Officer, Micro Irrigation Project, Government of Andhra Pradesh
- ❖ **M. Gopal Reddy**, Director, BVSR Constructions
- ❖ **Sabarna Roy**, Senior Vice President (Business Development), Electrosteel Castings
- ❖ **Karun Raj Singh Sareen**, Director, Major Project Advisory, Infrastructure, KPMG
- ❖ **Kaushik Sen**, Vice President, EY
- ❖ **Y.C. Sharma**, Chief Engineer, Water Resources Department, Government of Madhya Pradesh
- ❖ **Bhopal Singh**, Director General, National Water Development Agency
- ❖ **Amrendra Singh**, Chief Engineer, Central Water Commission
- ❖ **S. Sivalingam**, Superintending Engineer, Water Resources Department, Government of Tamil Nadu
- ❖ **M.K. Srinivas**, Chief Engineer, National Water Development Agency
- ❖ **G. Srinivasulu**, State Head, Telangana, Jain Irrigation System
- ❖ **M.K. Srinivas**, Director General, National Water Development Agency
- ❖ **Martin Unterkreuter**, Head, Sales and Marketing, ANDRITZ Hydro
- ❖ **Alex Varghese**, Chief Engineer, Irrigation Department, Government of Kerala
- ❖ **Amit Vatsyayan**, Partner, Social Sector, EY
- ❖ **Dr Shilp Verma**, Researcher Fellow, IWMI-TATA Water Policy Program, International Water Management Institute

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	INR	GST@18%	Total INR	Total USD
1 Login	9,000	1,620	10,620	150
2 - 3 Logins	15,000	2,700	17,700	250
4 - 5 Logins	21,000	3,780	24,780	350
6 - 9 Logins	27,000	4,860	31,860	450
10 - 20 Logins	33,000	5,940	38,940	550

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