

# *e-Sanchar*



MONTHLY  
NEWSLETTER

March 2024

# WAPCOS PARTICIPATION IN GOVERNMENT OF INDIA SCHEMES

## MISSION

Use of State-of-the-art Technical Expertise, Innovativeness and Capacity Building



### Swachh Bharat Mission

- Goa
- Assam
- Gujarat



### Revamped Reforms Distribution Sector Scheme

- Kerala
- Haryana
- Chhattisgarh
- Uttar Pradesh
- Ladakh
- Arunachal Pradesh



### Smart City

- Punjab
- Assam
- Himachal Pradesh
- Mizoram
- Nagaland
- Rajasthan
- Tamil Nadu
- Maharashtra
- Uttar Pradesh



### Atal Mission for Rejuvenation and Urban Transformation

- Bihar
- Odisha
- Kerala
- Gujarat
- Rajasthan
- Telangana
- Meghalaya
- Maharashtra
- Andhra Pradesh
- Madhya Pradesh
- Goa
- Assam
- Haryana
- Karnataka
- Uttar Pradesh



### Pradhan Mantri Awas Yojana

- Gujarat
- Rajasthan
- Jharkhand
- Uttarakhand
- Chhattisgarh
- Uttar Pradesh
- Tripura
- Andhra Pradesh



### Deen Dayal Upadhyaya Gram Jyoti Yojana

- Assam
- Sikkim
- Tripura
- Mizoram
- New Delhi
- Karnataka
- Jharkhand
- Nagaland
- Tamil Nadu
- West Bengal
- Uttar Pradesh
- Himachal Pradesh
- Jammu & Kashmir
- Arunachal Pradesh
- Bihar
- Kerala
- Manipur
- Haryana
- Andaman & Nicobar
- Meghalaya
- Puducherry
- Chhattisgarh
- Maharashtra



### Pradhan Mantri Matsya Sampada Yojana (PMMSY)

- Gujarat



### Integrated Power Development Scheme

- Goa
- Odisha
- Rajasthan
- Uttar Pradesh
- Jammu & Kashmir
- Sikkim
- Nagaland
- New Delhi
- Telangana
- Tamil Nadu
- Maharashtra
- Chhattisgarh
- Andhra Pradesh
- Himachal Pradesh



### Pradhan Mantri Gram Sadak Yojana

- Bihar
- Uttarakhand
- Goa
- Assam
- Gujarat
- Rajasthan
- Jharkhand
- Madhya Pradesh



### Pradhan Mantri Krishi Sinchayee Yojana

- Gujarat
- Setting up of PMU at Ministry of Jal Shakti, DoWR, RD & GR



### Namami Gange, Integrated Ganga Conservation Mission

- Bihar
- West Bengal
- Uttarakhand
- Uttar Pradesh
- Madhya Pradesh



### Jal Jeevan Mission

- Gujarat
- Haryana
- Jharkhand
- West Bengal
- Chhattisgarh
- Andhra Pradesh
- Arunachal Pradesh
- Assam
- Punjab
- Rajasthan
- Maharashtra
- Madhya Pradesh
- Himachal Pradesh
- Jammu & Kashmir
- National PMU at Ministry of Jal Shakti



### Fisheries & Aquaculture Infrastructure Development Fund (FIDF)

- Gujarat



### SAGARMALA Programme

- Gujarat
- Maharashtra



### Pradhan Mantri Kisan Kshetra Kalyan Yojana (PMKKKY)

- Gujarat

## MESSAGE



**Mr. R.K. Agrawal,**  
CMD, WAPCOS & NPCC

### Dear Readers,

I am pleased to extend my warm greetings as we embark on another month filled with opportunities and achievements. February has been a month of significant milestones for us, reflecting our unwavering commitment to excellence and innovation in the field of water resources, power and infrastructure development. I am delighted to share with you the highlights from our March newsletter, which encapsulates the breadth and depth of our endeavors across various projects and partnerships.

We have been actively involved in project management consultancy (PMC) and third-party quality control (TPQC) services for various projects across different states. From the Telangana Drinking Water Supply Project (Mission Bhagiratha Project) to the Navaratnalupedalankillu Scheme in Andhra Pradesh, our teams have been diligently overseeing project execution, ensuring adherence to quality standards, and fostering community engagement. These projects not only represent our technical expertise but also our commitment to inclusive and sustainable development.

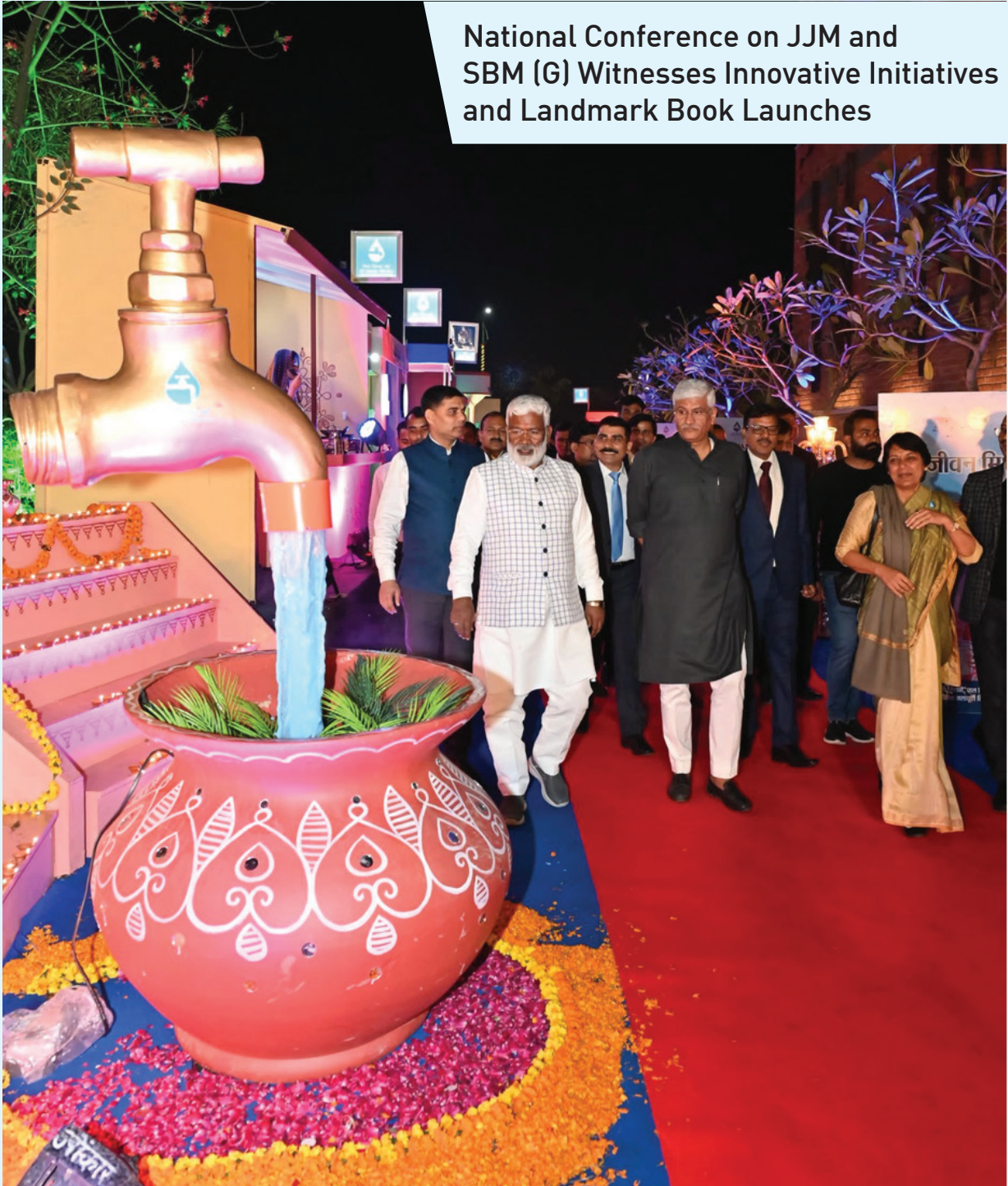
Moreover, our engagements extend beyond national borders, as evidenced by our involvement in projects such as the Punatsangchu-I & II Hydroelectric Project in Bhutan. Projects like these highlight our ability to collaborate with international partners and leverage our expertise to address complex challenges on a global scale. We are proud to be contributing to the development and prosperity of nations beyond our borders while upholding the highest standards of professionalism and integrity.

As we reflect on the achievements of the past month, I am also pleased to announce that WAPCOS Limited has been honored with the "Best Consultancy" Award at the World Water Awards 2023-24. This recognition is a testament to the dedication and hard work of our team members who continuously strive for excellence in every aspect of our operations. It is a reaffirmation of our commitment to delivering value-driven solutions that make a positive impact on society and the environment.

I would like to express my heartfelt gratitude to each and every member of the WAPCOS family for their unwavering dedication, professionalism, and commitment to excellence. It is your passion and tireless efforts that drive our success and enable us to make a meaningful difference in the world. Let us continue to work together with determination and enthusiasm as we navigate the opportunities and challenges that lie ahead, confident in our ability to overcome obstacles and achieve our shared vision of a sustainable and prosperous future.

## MINISTRY UPDATE

### National Conference on JJM and SBM (G) Witnesses Innovative Initiatives and Landmark Book Launches

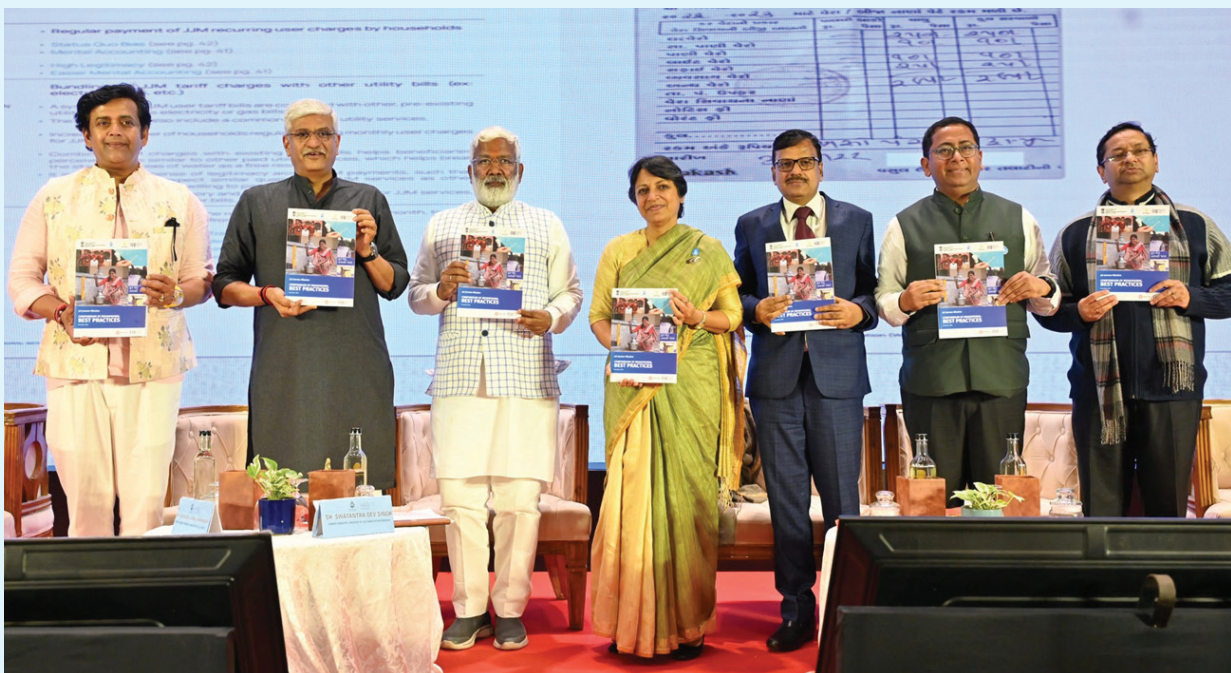


Lucknow, Uttar Pradesh hosted the inaugural day of the National Conference on Jal Jeevan Mission (JJM) and Swachh Bharat Mission (SBM-G) on February 16, 2024, emphasizing sustainable solutions in rural WASH (Water, Sanitation, and Hygiene). The event convened stakeholders from diverse backgrounds, showcasing innovative approaches and best practices. Discussions centered on innovation, collaboration, sustainability, and asset maintenance. Attendees experienced interactive displays of rural WASH advancements, including SBM-G and JJM initiatives across various states and UTs.

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The conference featured notable figures such as Union Minister of Jal Shakti, Shri Gajendra Singh Shekhawat, and MP Gorakhpur, Shri Ravi Kishan. Shri Shekhawat emphasized the importance of sustainability in these missions, lauding Prime Minister Narendra Modi's leadership in SBM-G. Notable launches included "Swachhata Chronicles: Transformative Tales from India- Vol. II (SBM-G)", showcasing rural sanitation success stories, and the "Swachhata Green Leaf Rating (SGLR)" system booklet promoting responsible sanitation practices. The event highlighted Liquid Waste Management (LWM) technologies through a comprehensive compendium, fostering cleaner rural environments.

The conference served as a platform for cross-learning and left a lasting impact on rural WASH initiatives, particularly through the significant book launches, advancing efforts for sustainable rural communities.



## PROJECT UPDATE

### Vetting of DPRs, Project Monitoring, Supervision and Quality Control of works under Telangana Drinking Water Supply Project (Mission Bhagiratha Project), Telangana State

**Client:** Mission Bhagiratha (RWS&S) Department, Govt. of Telangana

**Location:** Entire Telangana State

#### Scope of Work

Vetting of DPRs, Designs, drawings, Project Monitoring and Construction Supervision, Quality Assurance and Quality Control Services of both site and factory inspections.

#### Main Component

- No. of Intake structures – 19 Nos.
- No. of WTPs – 50 Nos.
- KMs of pipeline laid: 51,145 Kms
- No. of OHBRs – 590 Nos.
- No. of GLBRs and Sumps – 148+511=659 Nos.



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## Challenges Faced

The Project was initiated in July, 2015 and this project is a Prestigious project of Government of Telangana State and it is spread over the entire state and comprising of 26 segments. Coordination with department officials in all the districts of the state and various working contractors for Vetting of DPRs, Designs, drawings, Project Monitoring and Construction Supervision, Quality Assurance and Quality Control Services of both site and factory inspections was challenging task as the work was required to be completed on a war footing basis



## Present Status

The total cost of works vetted and supervised by M/s WAPCOS is about Rs. 30,000 Crores and the project is almost completed except a few add-on new WTPs/Pipeline works which are ongoing.



## PROJECT UPDATE

### Preparation of DPR for Lugupahar Pumped Storage Project of 1500 MW (Approx.), Jharkhand

**Client:** Damodar Valley Corporation (DVC)

**Location:** Bokaro Thermal, Jharkhand

#### Scope of Work

Preparation of DPR including Topographical Survey, Geotechnical investigation, Construction material investigation, EIA & EMP Studies and assistance in DPR Clearances

#### Main Component

##### Upper Dam:

- Design Flood (PMF): 192.30, Top of Dam: EL. 644.50
- River Bed Level: EL. 540.00
- Max Height : 104.50 m
- Dam Type: Rock fill with Central impervious core
- Top width – 8 m

##### Lower Dam:

- Dam Type: Rock fill with Central impervious core
- Design Flood (PMF): 6434.40
- Top of Dam: EL. 271.50
- River Bed Level: EL. 240.00
- Length of dam: 1078.0
- Max. Height of dam from River bed: 31.50 m
- Power House : Under Ground (240m LX 23m B X 51 m H) Tranformer
- Cavern : 190 m x 20 m x 31 m
- Head Race Tunnel : Dia 7 m(inner dia) Length 908 m and 1124 m
- Penstocks : Steel , Dia 7 m(inner dia) Length 564 m
- TRT : Dia 8 m(inner dia) Length 732 m and 746 m

#### Challenges Faced

Site hindrances

#### Present Status

Ongoing: 30% complete





## PROJECT UPDATE

### Design, Engineering and PMC for the proposed 3<sup>rd</sup> Phase Raising of Eastern and Western Dams of Tailing Pond at UCIL Turamdih, East Singhbhum Jharkhand

**Client:** Uranium Corporation of India Limited

**Location:** Turamdih, East Singhbhum, Jharkhand



#### Scope of Work

- Review of Design basis report and operation requirements
- Preparation of feasibility report and design engineering report
- Preparation of design basis report and technical support to obtained regulatory clearances from time to time
- Detailed engineering and preparation of tender document
- Project management services during construction period
- Raising of Dam Height

#### Main Component

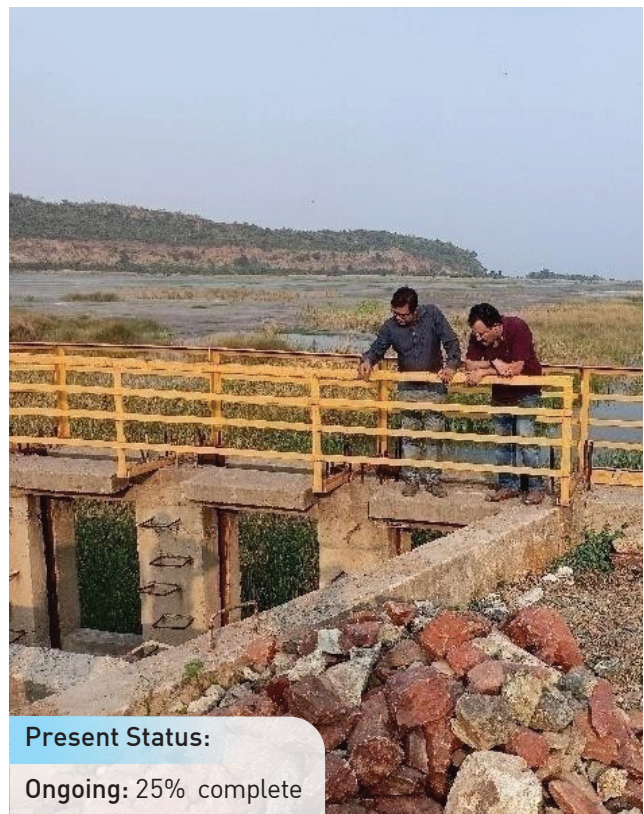
**Type of Project** Trailing Dam, **Nos of Dam:** 2 (Two)

**Dam Type:** Homogenous Earthen Dam

**Dam Height:** 38 mtr. & 28 mtr.

#### Challenges Faced

Constraints of land availability at downstream of the Dam for raising of the existing Dam height.



**Present Status:**

**Ongoing:** 25% complete

## PROJECT UPDATE

### Work for Preparation/ Updation of PFR and DPR of Teesta Intermediate HEP with all statutory clearances, and providing assistance for Project land demarcation and forest/ wild life clearance, West Bengal

**Client:** West Bengal State Electricity Distribution Company Limited (WBSEDCL),

**Location:** Siliguri, West Bengal

#### Scope of Work

Reviewing of available Information and data, Layout optimization, PFR updation and DPR preparation & clearance, CEIA & EMP studies, Survey & Investigation works, Assistance to WBSEDCL in project land identification and demarcation, Assistance to WBSEDCL in obtaining forest/wildlife clearance, Assistance to WBSEDCL in matters related to interstate boundary.

#### Salient Features

- Type: Run of the River  
Location: Near Kirney Village, Kalimpong , West Bengal
- Catchment Area: 5573 km<sup>2</sup>
- Design Flood : PMF 18725 m<sup>3</sup>/sec, SPF 12318 m<sup>3</sup>/sec
- HRT length: Water conductor system 70 m
- Power House : Surface Power House
- TRC

#### Challenges Faced

- Inter state Issue
- Limited availability of space in the deep gorge of Teesta valley for project planning

#### Present Status

**Ongoing:** 43% complete



## PROJECT UPDATE

### Turga Pumped Storage Project (1000 MW) – Detailed Design Engineering, Tender Engineering and PMC work through different phases (I, II & III), West Bengal

**Client:** West Bengal State Electricity Distribution Company Limited (WBSEDCL),

**Location:** Purulia, West Bengal

#### Scope of Work

All Field investigations, data collection, preparation of report, detail design, engineering and preparation of tender document of Upper & Lower reservoir, Spilway and ancillary structure, all preparatory work necessary for the project, construction planning for civil work, assistance to the Foreign Consultant for their scope of work, assistance to WBSEDCL in tendering under Phase – I & II activities, association with CEA & CWC for their inclusion to utilize their expertise, where ever required for Phase I & II activities. PMC Services for Phase III Activities i.r.o. Construction Supervision, Project Commissioning upto Defect Liability Period.

#### Main Components

- Upper Dam – 63.5 m high rockfill with central impervious core.
- Lower Dam – 64 m high concrete gravity dam
- Lower Saddle Dam – 50 m high rockfill with
- HRT - 2nos. steel lined ,9.0m dia. x 980m length,
- Underground Power House - 4 nos. each 250MW – 160 m (L) x 25 m (W) x 55 m (H)
- TRT - 2nos Circular shaped, concrete lined , 10.0m dia x 610m length

#### Challenges Faced

Site hindrances

#### Present Status

- Ongoing: 60% complete



## PROJECT UPDATE

### Project Management Consultancy (PMC) and Third-Party Quality Control (TPQC) services for the works taken up under Navaratnalu Pedalandariki Illu Scheme, Vijayawada, Andhra Pradesh

**Client:** Andhra Pradesh State Housing Corporation LTD

**Location:** All over Andhra Pradesh

#### Scope of Work

- Support in development of standardized State level monitoring format for assessing physical and financial progress at district and village level
- To randomly check the quality of building materials like Cement, Coarse aggregate, Steel, Fine aggregate and Concrete cubes, etc., and to conduct the tests as per the sampling i.e., 2% and as per the relevant IS code in consultation with the APSHCL



COMPRESSIVE STRENGTH TEST - CONCRETE



REBOUND HAMMER TEST - CONCRETE



SLUMP CONE - CONCRETE

#### Main Components

- Monitoring and assisting in annual work plans and budgets, including annual milestones.
- Conducting tests as per the sampling i.e., 2%.

#### Challenges Faced

Visiting almost 1,000 Layouts which equals to nearly 15 Lakhs houses for testing and sampling.

#### Present Status

As of now TPQC team conducted 25,000 tests which includes testing of Coarse and Fine aggregate, Slump cone, Compressive Strength for Cube and Flyash, Rebound Hammer test and Physical tests for Cement and Steel samples.



## PROJECT UPDATE

### Execution of Distribution Infrastructure including Unauthorized Layouts/ Localities/ Slum in Nagpur City under AMRUT, Maharashtra

**Client:** Nagpur Municipal Corporation, Nagpur (NMC)

**Location:** The project site is located all across Nagpur city

#### Objective

The main objective is to make Nagpur city tanker free as Nagpur Municipal corporation use to provide Water tankers free of charge to areas/localities/slums as there is no piped water network in those areas. The whole expenditure for water tankers are being borne by Corporation itself. Further other major objective is increasing the pressure in the existing pipeline system for facilitating the 24x7 system in Nagpur city.

#### Scope of work and main components

- Construction of Elevated Service Reservoirs of 10 Lakh Liters to 25 Lakh Liters capacity, 16 No's at different localities
- Providing new feeder mains of 13 Km (Approx.) length using Ductile Iron (K9 class) Dia 400 to 600 mm
- Providing Proposed Internal Water Distribution System for 377.84 Km length using HDPE (PE100 of PN10) 110 mm to 315 mm dia (365.364 Km) and DI (K7- class) pipe above 100 mm to 600 mm dia (12.46 Km)

#### Challenges Faced

Construction works are Hampered due to COVID-19. Random Hike in the rates of Ductile Iron Pipes due to COVID-19 & Ukraine-Russia war

#### Present status

- Out of 16 ESRs, 9 ESRs have been commissioned and providing continuous drinking water to localities nearby. Out of these 9 ESRs, 4 ESRs were inaugurated by Hon'ble Minister of Road and Highways, Govt of India Sh. Nitin Gadkari. The other ESRs almost on the completion stage
- 10.8 km feeder main laid out of 13 km
- 369 km distribution laid out of 377km. Major pipelines were laid in slums which helped NMC to reduce the number of tankers which were used to provide water free of charge to people and now NMC is generating revenue of those areas after providing metered water connections
- Ongoing: 91% complete



## THE MONTH AT A GLANCE

5<sup>th</sup> February 2024



WAPCOS was honored with the "Best Consultancy" Award at the World Water Awards 2023-24 by The Water Digest, at a prestigious ceremony held in New Delhi. The award was presented by Shri Gajendra Singh Shekhawat, Honorable Union Minister for Jal Shakti to Shri R. K. Agrawal, CMD of WAPCOS, amidst a glittering gathering. This recognition underscores WAPCOS's excellence and leadership in the field of consultancy within the water sector.



## THE MONTH AT A GLANCE

7<sup>th</sup> February 2024



**W**APCOS has entered into a Memorandum of Understanding (MoU) with DHI, Denmark, aiming to collaborate on projects in the Water Resources and Power sectors across Asia, Africa, Central America, and South America. Founded in 1964 by the Technical University of Denmark, DHI is a not-for-profit international water software development and engineering consultancy firm headquartered in Denmark. The MoU was exchanged in the presence of Mr. R. K. Agrawal, CMD of WAPCOS, with Mr. Anupam Mishra, Director (C&HRD) of WAPCOS, and Mr. OlufZeilund Jessen, Vice President of International Development (Water Resources) at DHI, officiating. Ms. P. Sumana, Sr. General Manager (Hydro) from WAPCOS, and Mr. Kim Wium Olesen, Chief Engineer (Water Resources) from DHI, along with Mr. Tirumaleswara Reddy, Technical Director at DHI (India), were also present during the exchange.

## THE MONTH AT A GLANCE

21<sup>st</sup> February 2024



The Honorable Minister of Jal Shakti, Shri Gajendra Singh Shekhawat, inaugurated the Upper Yamuna River Board (UYRB) building at Sector-62, Noida, constructed by NPCC. The ceremony was graced by Honorable Water Resources Ministers from Uttar Pradesh, Rajasthan, and Delhi, along with Smt. Debashree Mukherjee, Secretary of MoJS, and the Chief Secretaries of Rajasthan and Delhi. Also present were the Chairmen of CWC and UYRB, along with senior officials from the Ministry of Jal Shakti and State Departments. Shri R. K. Agrawal, CMD of WAPCOS & NPCC, and Shri Anupam Mishra, Director (C&HRD) of WAPCOS, along with officials from NPCC and WAPCOS, attended the auspicious occasion, marking a significant milestone in the infrastructure development of the region.





## THE MONTH AT A GLANCE

21<sup>st</sup> February 2024



**W**APCOS serves as the design consultant for the Punatsangchhu-II Hydroelectric Project (1020 MW). His Excellency Dasho Tshering Tobgay, the Prime Minister of Bhutan, inaugurated the Initial Reservoir Filling of the dam on February 21, 2024. The ceremony was attended by H.E. Shri Sudhakar Dalela, Ambassador of India to Bhutan, Lyonpo Gem Tshering, Minister of Energy and Natural Resources and Chairman of PHPA, Lyonpo Tandin Wangchuk, Minister of Health, along with officials from the Royal Government of Bhutan and the Managing Director of PHPA-II. Mr. K. Islam, Project Director of WAPCOS, and his team also participated in the event, marking a significant milestone in the project's progress.



## THE MONTH AT A GLANCE

25<sup>th</sup> February 2024



**H**onourable Prime Minister, Shri Narendra Modi, virtually inaugurated the "Nisarg Gram - National Institute of Naturopathy (NIN)" from Rajkot, Gujarat, with Honorable Chief Minister of Maharashtra, Shri Eknath Shinde, also joining remotely. This institute, executed by WAPCOS for the Ministry of Ayush, features a 250-bed hospital complex, a medical college, and residential and hostel facilities with cutting-edge amenities. The ceremony, led by Smt. Medha Kulkarni, Honourable MP (Rajya Sabha) Maharashtra, alongside Shri Yogesh Tilekar, MLA, and Prof. (Dr.) K Satya Lakshmi, Director of NIN, was attended by officials from the Ministry of Ayush. Shri R. K. Agrawal, CMD of WAPCOS, was honoured by the Director of NIN during the event.



## EMPLOYEES OF THE MONTH

WAPCOS recognizes employees' efforts for exemplary contribution in achievement of Turnover, New Business and Payment Realization.

### CONSULTANCY SEGMENT

#### Turnover



**Shri Aditya Singh,**  
Sr. Engineer,  
T&D Unit Power Division

#### New Business



**Shri Rahul Israni,**  
Dy. Chief Engineer,  
INFS-II

#### Payment Realization



**Shri Pankaj Kumar Sarma,**  
Sr. Engineer,  
CMU-II

### CONSTRUCTION SEGMENT

#### Turnover



**Shri Ravinder Kumar Dutta,**  
Engineer,  
CMU-II

#### New Business



**Shri Vivek Tripathi,**  
Dy. Chief Manager,  
Irrigation Planning Division

#### Payment Realization



**Shri Subhash Uniyal,**  
Engineer,  
Centre for Environment

# WAPCOS OPERATIONS ABROAD: PRESENCE IN OVER 50 COUNTRIES



“5th Floor, Kailash, 26 Kasturba Gandhi Marg, New Delhi, Delhi – 110001”  
 Tel.: +91-11-23313131, 23313881; Fax: +91-11-23314924



**Insert Disclaimer:** WAPCOS Limited is proposing, subject to receipt of requisite approvals, market conditions and other considerations, to make an initial public offer of its equity shares and has filed a draft red herring prospectus (“DRHP”) with the Securities and Exchange Board of India (“SEBI”). The DRHP is available on the website of SEBI at [www.sebi.gov.in](http://www.sebi.gov.in) as well as on the website of the book running lead managers, IDBI Capital Markets & Securities Limited and SMC Capitals Limited, respectively, at <https://idbicapital.com/index.asp> and <http://www.smccapitals.com> and the websites of the stock exchange(s) at [www.nseindia.com](http://www.nseindia.com) and [www.bseindia.com](http://www.bseindia.com), respectively. Potential investors should note that investment in equity shares involves a high degree of risk and for details relating to such risk, see “Risk Factors” of the RHP / Prospectus, when available. Potential investors should not rely on the DRHP for any investment decision.”