

e-Sanchar



MONTHLY NEWSLETTER

FEBRUARY 2025



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

- Goa
- Assam
- Haryana
- Karnataka
- Uttar Pradesh

- Bihar
- Odisha
- Kerala
- Gujarat
- Rajasthan
- Telangana
- Meghalaya
- Maharashtra
- Andhra Pradesh
- Madhya Pradesh



Pradhan Mantri Awas Yojana

- Tripura
- Andhra Pradesh

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



Deen Dayal Upadhyaya Gram Jyoti Yojana

- Bihar
- Kerala
- Manipur
- Haryana
- Andaman & Nicobar
- Meghalaya
- Puducherry
- Chhattisgarh
- Maharashtra

- Assam
- Sikkim
- Tripura
- Mizoram
- New Delhi
- Karnataka
- Jharkhand
- Nagaland
- Tamil Nadu
- West Bengal
- Uttar Pradesh
- Himachal Pradesh
- Jammu & Kashmir
- Arunachal Pradesh



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 Kshetra Kalyan Yojana (PMKKKY)

- Gujarat

MESSAGE



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

Dear Readers,

I am pleased to share the February 2025 edition of e-Sanchar, which captures WAPCOS' ongoing contributions to water resources, infrastructure, and engineering excellence. This month has been significant in reaffirming our commitment to national development through impactful projects, global engagements, and industry recognition.

India's leadership at the **World Economic Forum (WEF) 2025** showcased the country's strides in water accessibility, sanitation, and sustainable infrastructure. Hon'ble Union Minister of Jal Shakti, Shri C.R. Paatil, highlighted these advancements, and WAPCOS remains dedicated to supporting the government's vision through our expertise and execution capabilities. Further adding to our achievements, WAPCOS was honored with the **CEAI National Award 2024 for Excellence in Project Engineering** by the Consulting Engineers Association of India. This recognition underscores our engineering capabilities and commitment to delivering world-class solutions across diverse projects, including our international work in Rwanda.

The **Republic Day Celebrations** held across WAPCOS offices were a moment of pride and reflection, as we paid tribute to our nation's progress and reaffirmed our dedication to India's development journey. Our employees' unwavering commitment continues to drive our success, ensuring we contribute meaningfully to the country's growth.

Across India and internationally, WAPCOS is actively engaged in critical projects that reinforce our role as a key player in infrastructure and water resource management. From hydropower and irrigation projects to large-scale drinking water supply initiatives, our teams are working relentlessly to deliver excellence. As we continue to expand our footprint and take on new challenges, I am confident that our collective efforts will lead to even greater accomplishments.

I extend my gratitude to every member of the WAPCOS family for their dedication and perseverance. Let us move forward with a shared vision of innovation, sustainability, and excellence in all that we do.

Warm regards,
R.K. Agrawal
CMD, WAPCOS

MINISTRY UPDATE

India's WASH Innovations Lead Global Discourse at World Economic Forum 2025 with a Keynote delivered by Shri C.R. Paatil, Union Minister of Jal Shakti - January 24, 2025

At the World Economic Forum (WEF) 2025 in Davos, India showcased its WASH innovations, emphasizing efforts in water sustainability and climate resilience. Shri C.R. Paatil, Union Minister of Jal Shakti, highlighted India's achievements through initiatives like Swachh Bharat Mission (SBM) and Jal Jeevan Mission (JJM).

India has made remarkable progress, with 79.66% of rural households now having access to safe drinking water, a significant increase from 17% in 2019. The country's efforts have saved 55 million hours per day, improving workforce participation, especially among women.

The WEF panels, featuring experts from UNICEF, WaterAid, and the Gates Foundation, focused on water sustainability and sanitation innovations. India's success in eliminating open defecation, constructing 95 million toilets, and providing household tap connections has positioned it as a global leader in WASH initiatives. These



efforts align with the UN's Sustainable Development Goals (SDGs), particularly SDG 6 (Clean Water and Sanitation) and SDG 13 (Climate Action).

The session ended with a call for increased international collaboration to tackle the global water crisis, building on India's model of sustainable water management.



MINISTRY UPDATE

Workshop on “Water Use Efficiency: Strategies for a Sustainable Future” Inaugurated by Shri C.R. Paatil - January 27, 2025

On 27th January 2025, the Bureau of Water Use Efficiency (BWUE), under the National Water Mission (NWM), hosted a one-day workshop in New Delhi focused on improving water use efficiency in the domestic sector. The workshop, organized in collaboration with the Indian Plumbing Association (IPA), was inaugurated by Hon'ble Union Minister of Jal Shakti, Shri C.R. Paatil.

The workshop brought together over 350 participants, including industry leaders, policymakers, and experts, to discuss innovative solutions for sustainable water use. Shri Paatil emphasized the government's commitment to water conservation and the importance of collaborative efforts to improve water efficiency.

Key highlights included sessions on low-flow fixtures, smart sanitaryware, and collaborative water management models. Experts shared real-world case studies and emphasized the need for policy support, technological



advancements, and industry innovation to enhance water use efficiency across sectors.

The workshop encouraged industries to integrate water-efficient technologies and fostered a collaborative approach towards sustainable water management.



PROJECT UPDATE

Kundah Pumped Storage Hydro-Electric Project (4x125MW) in Nilgiri Hills, Tamil Nadu

Client: Tamil Nadu Generation and Distribution Corporation Ltd. (TANGEDCO)

Location: Tamil Nadu

Scope of Work:

Package-I: Civil & HM works for downstream to Power House Complex & switch-yard area

Package-II: Civil & HM works for Upstream to Power House (including PH) & foundation works for First Machine

Package-III: E&M works for one machine i.e. 1X125 MW & GIS

Package-IV: E&M works for two machine i.e. 2X125 MW

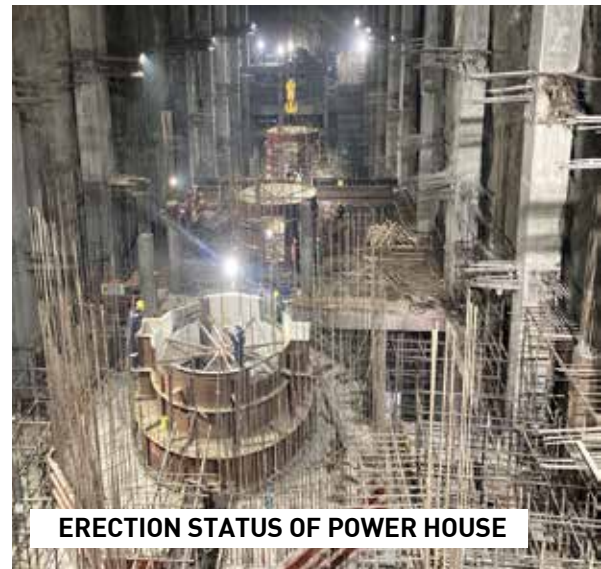
Package-V: E&M works for one machine i.e. 1X125 MW

Main Components:

- Pumped Storage project with fixed speed machines
- Capacity: 4X 125 MW

Present Status:

- DPR review completed.
- Design & Engineering work is 80% Completed.
- Project Monitoring and construction Supervision is under progress.



ERECTION STATUS OF POWER HOUSE



TRANSFORMER CAVERN

PROJECT UPDATE

Renovation, Modernization & Upgrading (RMU) alongwith life extension of each of six units of Pong power house, 396 MW (6x66MW) (existing) to 450 MW (6x 75MW)

Client: Bhakra Beas Management Board (BBMB)

Scope of Work:

- DPR Preparation
- Preparation of Technical Specifications and Tender Engineering
- Project Management & Quality Assurance
- Construction Supervision

Main Components:

Six units of Pong Power House, 396 MW (6 X 66 MW) upgrading to 450 MW (6 X 75 MW)

Challenges Faced:

- Descoping some components for inclusion of necessary works as per client requirements.

Present Status:

- Assessment of residual life studies of 6 no. units have been completed.
- Detailed progress report (DPR) submitted and is under review.
- Draft Tender documents have been submitted and are under review.



SERVICE BAY



GENERATOR UNIT



POWER HOUSE COMPLEX

PROJECT UPDATE

Shahpurkandi Hydro-Electric Project, Punjab

Client: Punjab State Power Corporation Ltd. (PSPCL), Patiala, Punjab

Location: Pathankot, Punjab

Scope of work:

- Tender Evaluation and award of work
- Design & Engineering work
- Project Monitoring
- Construction Supervision

Main Components:

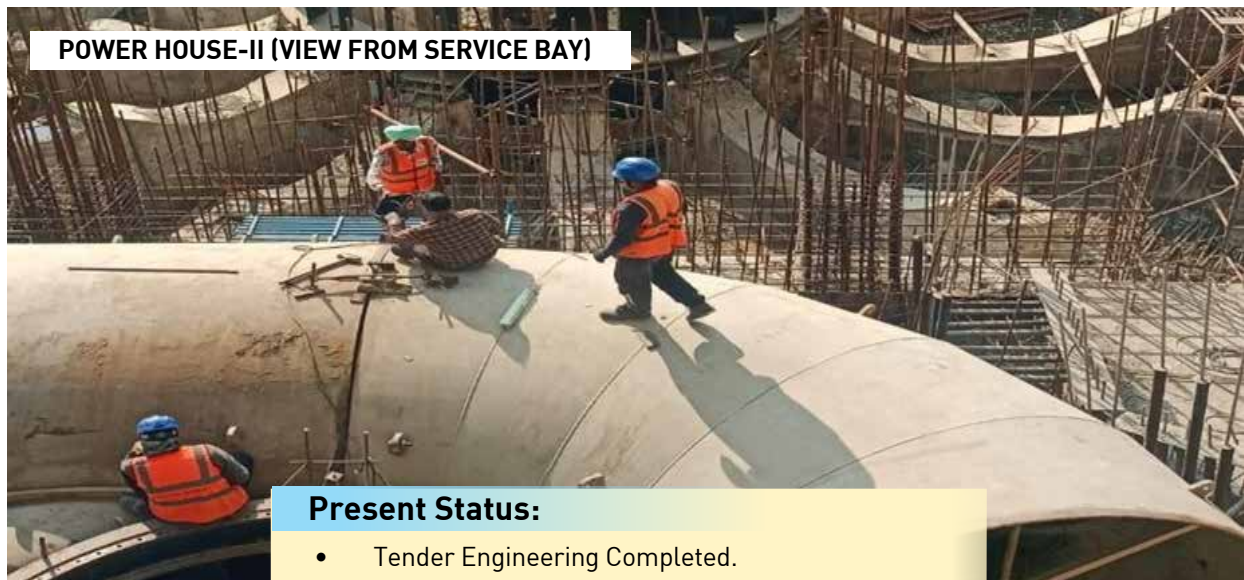
- Pumped Storage project with fixed speed machines
- Capacity: 4X 125 MW



POWER HOUSE - I (VIEW POINT)

Challenges Faced

Project was stalled from 2015 to 2019 due to interstate issues between J&K and Punjab.



POWER HOUSE-II (VIEW FROM SERVICE BAY)

Present Status:

- Tender Engineering Completed.
- Design & Engineering work is 75% completed.
- Execution of project is 70% completed.
- Project Monitoring and construction Supervision is under progress.

PROJECT UPDATE

Vetting of DPRs, Project Monitoring, Supervision and Quality Control of works under Telangana Drinking Water Supply Project

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 Components:

- Total no. of Intake structures – 19 Nos.
- Total no. of WTPs – 50 Nos.
- Total KMs of pipeline laid: 51,145 Kms
- Total no. of Over Head Balancing Reservoirs – 590 Nos.
- Total no. of Ground Level Balancing Reservoirs and Sumps – $148+511=659$ Nos.

Challenges Faced:

This 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.



Factory Inspection of Valves



540 MLD WTP CFLs



Factory Inspection of Zero Velocity Valves

Present Status:

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

PROJECT UPDATE

Godavari Drinking Water Supply Project Phase-II and Rejuvenation of Osmansagar & Himayatsagar Reservoirs for Musi River Clean Up, Telangana State.

Client: Hyderabad Metro Water Supply & Sewerage Board, Govt. of Telangana

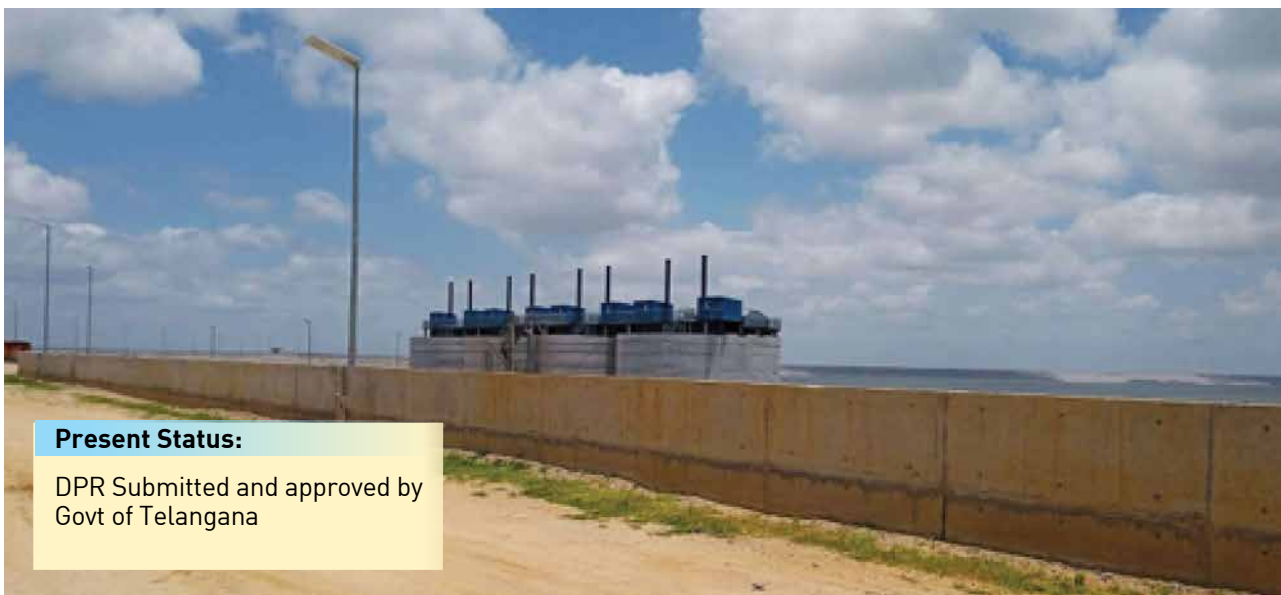
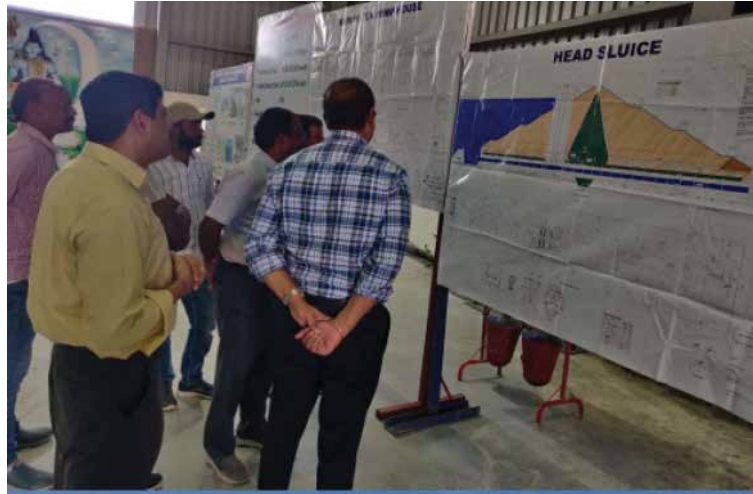
Location: Hyderabad

Scope of work:

- Preparation of Detailed Project Report to meet the daily water demand of rapid growing population in Hyderabad Metro city for next 30 years by using Mallannasagar reservoir as source.
- Drawings and cost estimates

Main Components:

- Proposed Augmentation Capacity: 20 TMC
- Ghanpur WTP : 1170MLD
- Osmansagar WTP : 120MLD
- Himayatsagar WTP : 70MLD
- MS Pipeline length and diameter
 - 50 km of 3000 mm dia
 - 58 km of 2400 mm dia
 - 40 km of 2200 mm dia
- Ghanpur CWR 40ML
- Ghanpur MBR 80ML



Present Status:

DPR Submitted and approved by Govt of Telangana

THE MONTH AT A GLANCE

WAPCOS Engages with Parliamentary Standing Committee on Water Resources - January 9, 2025

WAPCOS had the honor of participating in the Study Tour of the Parliamentary Standing Committee on Water Resources, chaired by Hon'ble Sh. Rajiv Pratap Rudy, for a review of its operations and contributions. The session witnessed the presence of esteemed Members of Parliament, senior officers from the Ministry of Jal Shakti, and officials from the Government of Tamil Nadu.

Representing WAPCOS, Shri R.K. Agrawal (CMD), Dr. Shambhu Azad (CED), and Shri Sanjay Sharma (Sr. GM) presented a comprehensive overview of the organization's ongoing projects in Tamil Nadu. The presentation

highlighted WAPCOS' impactful initiatives in water resources and infrastructure development, showcasing its dedication to sustainable and efficient solutions.

The Government of Tamil Nadu acknowledged WAPCOS' contributions, reinforcing its role as a trusted partner in national development. This interaction reaffirms WAPCOS' commitment to excellence, innovation, and collaboration in shaping the future of India's water and infrastructure sectors.



THE MONTH AT A GLANCE

Official Language Inspection of WAPCOS' Chennai Office - January 6, 2025

On 6th January 2025, the Second Sub-Committee of the Parliamentary Committee on Official Language conducted an official language inspection of the Chennai office of WAPCOS in Puducherry. The session reviewed the implementation and promotion of Hindi in official communications and operations.

Representing WAPCOS, Senior Executive Director Mr. Pradeep Kumar (Headquarters), Project Manager Shri N. Raman (Chennai office) and other officials participated in the inspection. The Committee members appreciated the efforts of the Chennai office in effectively implementing the official language, recognizing its commitment to promoting Hindi in day-to-day work.

WAPCOS continues to uphold its dedication to the Government of India's official language policy, reinforcing its efforts to enhance the use of Hindi across its operations.



THE MONTH AT A GLANCE

WAPCOS Conferred with the CEAI National Award 2024 for Excellence in Project Engineering - January 10, 2025

In a moment of great pride for the organization, WAPCOS has been awarded the CEAI National Award 2024 in the category of "Excellence in Project Engineering" by the Consulting Engineers Association of India (CEAI). This prestigious accolade was presented at a distinguished ceremony held at the India International Centre in New Delhi on 10th January 2025, underscoring WAPCOS' unwavering commitment to delivering exceptional engineering consultancy services.

The award was accepted by Mr. Amit Gupta (Sr. General Manager) and Mr. Rahul Israni (Deputy Chief Engineer), who represented WAPCOS at the event. During the ceremony, Mr. Gupta shared the success story of one of WAPCOS' landmark international projects—the

"Development of Irrigation and Watershed in Mpanga Sector, Rwanda". This project has been instrumental in transforming the country's agricultural landscape by modernizing export-oriented agriculture, thereby contributing to the broader goal of sustainable development.

This recognition is a testament to the dedication and expertise of the entire WAPCOS team, whose hard work continues to drive the company's success. WAPCOS extends its heartfelt gratitude to its partners, clients, and stakeholders for their continued trust and collaboration in making this achievement possible.



THE MONTH AT A GLANCE

Advancing Holistic Healthcare: Foundation Laid for 30-Bedded Integrated AYUSH Hospital in Kottarakkara, Kerala - January 10, 2025

In a significant step toward strengthening holistic healthcare infrastructure, the foundation-laying ceremony for a 30-bedded Integrated AYUSH Hospital at GAH Kottarakkara was held on 10th January 2025. The event witnessed the esteemed presence of the Hon'ble Finance and Health Ministers of Kerala, along with senior officials and dignitaries.

The upcoming facility aims to integrate traditional and modern medical practices, providing comprehensive

healthcare solutions to the community. WAPCOS, serving as the Project Management Consultant (PMC) for this initiative, is committed to ensuring the seamless execution of the project. Shri K.P.S. Tyagi, Project Director (Kerala), along with a dedicated team, is leading the efforts to deliver a state-of-the-art facility that aligns with the vision of accessible and sustainable healthcare.

This initiative reflects WAPCOS' ongoing commitment to nation-building through excellence in infrastructure development, reinforcing its role in advancing India's healthcare landscape.



THE MONTH AT A GLANCE

WAPCOS Advances Educational Infrastructure in Timor-Leste - January 10, 2025

As Timor-Leste continues to invest in modern education infrastructure, WAPCOS is proud to play a key role in shaping “21st Century Learning Spaces” across the country. Under a project funded by the Ministry of Education, Government of Timor-Leste, WAPCOS is providing Detailed Engineering Design for school infrastructure development across 31 schools, ensuring that students have access to well-equipped and sustainable learning environments.

Currently, topographic surveys and geotechnical investigations are underway at EBF 1,2 Comoro, and ESG 4 de Setembro in Dili Municipality. These critical assessments will inform the structural design and long-term sustainability of the school buildings. Led by Mr. Prashant Kashyap, the WAPCOS team is working closely with the Ministry of Education and school administrations, ensuring precise



data collection and strategic planning. The project also integrates environmental and social impact assessments, aligning with global best practices for sustainable infrastructure development.

By contributing to the transformation of Timor-Leste’s educational landscape, WAPCOS reaffirms its commitment to creating resilient, future-ready learning spaces that empower students and communities for generations to come.



THE MONTH AT A GLANCE

WAPCOS' Role Highlighted at Polavaram Multipurpose Project Review - January 11, 2025

On 11th January 2025, WAPCOS participated in the Study Tour of the Parliamentary Standing Committee on Water Resources at the prestigious Polavaram Multipurpose Project for a comprehensive review. The session, chaired by Hon'ble Sh. Rajiv Pratap Rudy, was attended by esteemed Members of Parliament, senior officials from the Ministry of Jal Shakti, and representatives from the Government of Andhra Pradesh.

Leading the WAPCOS delegation, Shri R. K. Agrawal

(CMD) was accompanied by Shri Amitabh Tripathi (Sr. ED), Shri S. M. Thakurdesai (Sr. Project Director), Shri Sanjay Sharma (Sr. GM), and other experts. During the meeting, WAPCOS' pivotal role as the Project Monitoring and Coordination Consultant for this nationally significant initiative was highlighted.

The Polavaram project stands as a critical infrastructure milestone for India's water management, and WAPCOS remains committed to ensuring its successful execution through efficient planning, monitoring, and coordination.



THE MONTH AT A GLANCE

WAPCOS Supports Sustainable Water Infrastructure Development in Lesotho - January 20, 2025

WAPCOS is proud to contribute to the Lesotho Lowland Water Development Project (LLWDP II) in Zones 6 and 7, a pivotal initiative aimed at improving water accessibility and infrastructure in the region. The project, funded by the European Investment Bank (EIB), is part of a broader effort to enhance sustainable development and community welfare in Lesotho's lowland areas.

Led by Ms. Neha Rawat (Project Manager), alongside Mr. Mahse Mahase Edwin Thokoa and Ms. Maletsielo Hloaele, the WAPCOS team recently conducted a series of stakeholder consultations in Ha Bofihla, Malumeng, and Khobotle, Thabana Morena. These consultations played a crucial role in sensitizing local communities, identifying potential landowners, and collecting essential data on sanitation services, all of which will inform the project's Design, Environmental and Social Management Plan (ESMP), and Resettlement Action Plan (RAP).



By engaging with local leaders and communities, WAPCOS is ensuring that the project's design is aligned with environmental and social priorities, fostering a more inclusive, sustainable approach to infrastructure development. This collaborative effort will help build a resilient water infrastructure system that supports the long-term well-being of communities in Lesotho.



THE MONTH AT A GLANCE

Strengthening Diplomatic and Development Ties: WAPCOS Meets Fiji's New High Commissioner - January 20, 2025

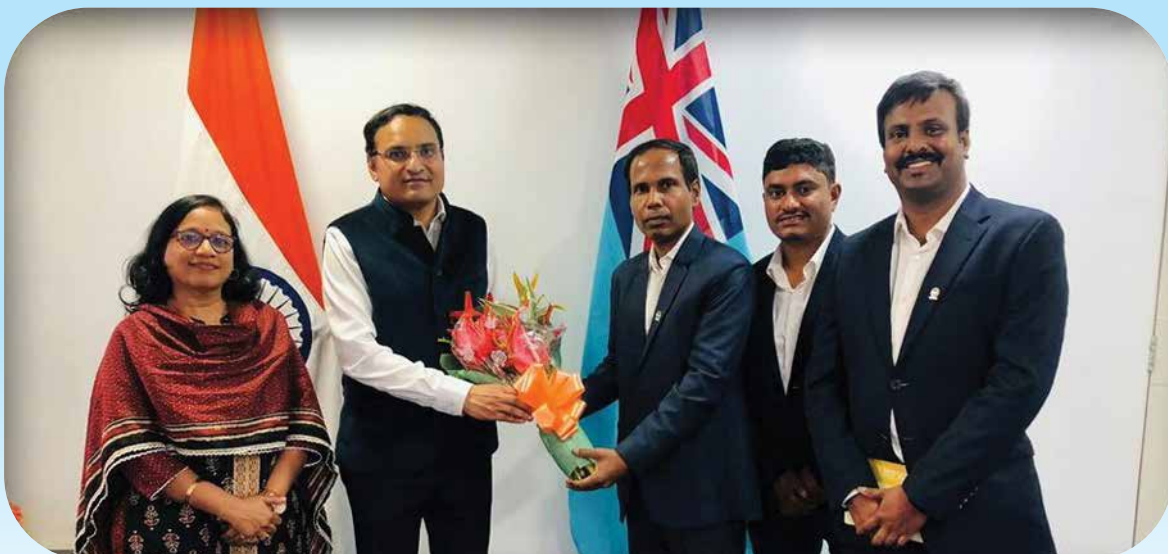
On January 20, 2025, the WAPCOS Fiji team had the privilege of meeting H.E. Mr. Suneet Mehta, the newly appointed High Commissioner of India to Fiji. The meeting, held at the Indian High Commission, provided an excellent platform for the WAPCOS team to share insights into the Company's extensive global expertise and its ongoing contributions to Fiji's development.

The WAPCOS delegation, led by Mr. Radheshyam Debnath, Country Manager, accompanied by Mr. Adarsh Kumar S, Additional Chief Engineer and Mr. Penagonda Ramesh, Senior Engineer, discussed and highlighted key ongoing projects in Fiji, emphasizing WAPCOS's role in



infrastructure development and its commitment to supporting the country's sustainable growth.

The meeting signifies a positive step towards deeper collaboration between WAPCOS and the Indian High Commission, paving the way for the advancement of impactful initiatives in the region. Moving forward, WAPCOS looks forward to strengthening its relationship with Fiji and continuing to contribute to the country's development through innovative infrastructure solutions.



THE MONTH AT A GLANCE

WAPCOS Celebrates 75 Years of the Indian Republic with Pride and Patriotism - January 26, 2025

WAPCOS marked Republic Day with a proud celebration of 75 glorious years of India's Republic, reaffirming its dedication to nation-building and progress.

At the WAPCOS headquarters, Shri R.K. Agrawal, CMD, WAPCOS, hoisted the Tricolor, representing the values of pride and patriotism that continue to drive the Organization's mission. Joined by senior officers, Shri Agrawal delivered an inspiring message, encouraging

the team to remain committed to the Organization's growth and contribute towards shaping a future centered around unity, growth and excellence.

The WAPCOS Gurgaon office also joined in the celebration, decorated in the vibrant colors of the Indian flag, symbolizing the company's ongoing commitment to a stronger, self-reliant India. The Republic Day celebrations reflect WAPCOS vision of fostering unity and progress for a brighter, more prosperous future for the nation.



THE MONTH AT A GLANCE

WAPCOS, on behalf of the BWUE and National Water Mission, Organizes Workshop on Water Use Efficiency for a Sustainable Future - January 27, 2025

WAPCOS, on behalf of the Bureau of Water Use Efficiency (BWUE) and the National Water Mission, Ministry of Jal Shakti, in collaboration with the Indian Plumbing Association, organized a workshop titled "Water Use Efficiency: Strategies for a Sustainable Future" at the NDMC Convention Centre, New Delhi, inaugurated by Hon'ble Union Minister of Jal Shakti, Sh. C.R. Paatil

The workshop brought together experts, policymakers and stakeholders to discuss and strategize on improving water use efficiency—an essential step toward sustainable water management. During the event, Shri R. K. Agrawal, CMD, WAPCOS, participated in the inaugural session alongside senior officials from the Ministry of Jal Shakti, National Water Mission and WAPCOS.

This workshop underscores WAPCOS role in



promoting sustainable water management practices and providing solutions to address the growing challenges in water conservation. It provided a platform for meaningful discussions on innovative strategies to improve water efficiency, contributing to the broader goals of water sustainability in India.

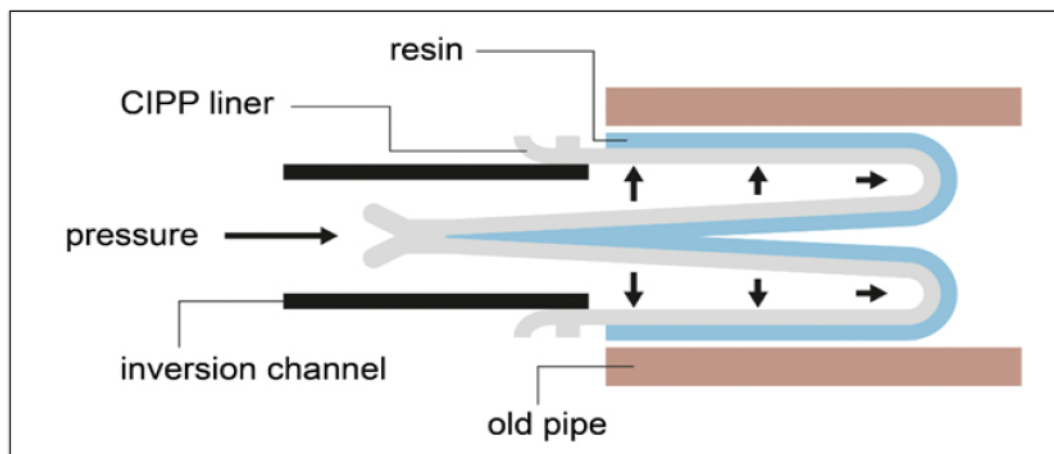


TECHNOLOGY AND INNOVATION

Cured-in-Place Pipe (CIPP) Technology

WAPCOS Limited, being globally recognized consultancy organization offers integrated solutions in the fields of water resources, power and infrastructure. With a strong commitment to innovation and excellence, WAPCOS provides cutting-edge technologies to clients across India and internationally.

One of our recent advancements includes the implementation of Cured-in-Place Pipe (CIPP) Technology in the sewer network at Goa. This state-of-the-art trenchless rehabilitation method significantly enhances sewer infrastructure without extensive excavation.



CIPP Technology and Its Benefits

- **Trenchless Sewer Rehabilitation:** CIPP is a no-dig solution that eliminates the need for extensive excavation, reducing disruption to traffic and businesses.
- **Efficient and Quick Installation:** The process involves inserting and curing a resin-impregnated liner within an existing deteriorated pipe, reinforcing its structure efficiently.
- **Versatile Application:** CIPP technology is applicable to various pipe materials, including clay, steel, and plastic, making it a highly adaptable solution.
- **Cost-Effective and Long-Lasting:** This method extends the lifespan of sewer pipelines without the high costs associated with complete replacement.
- **Environmental Benefits:** By reducing excavation and material waste, CIPP technology is an eco-friendly alternative for pipeline rehabilitation.

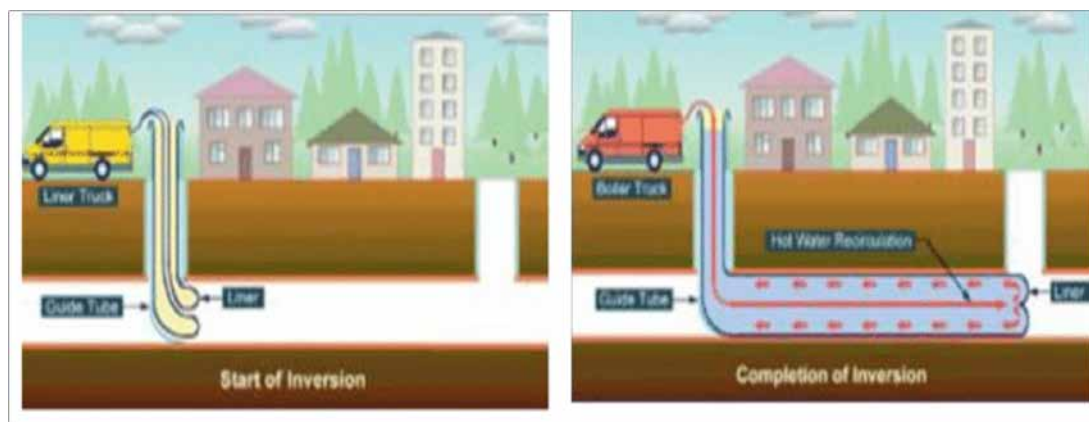
Through the implementation of CIPP technology, WAPCOS Limited continues to lead in providing sustainable and advanced engineering solutions, reinforcing its commitment to infrastructure development across India and beyond.

TECHNOLOGY AND INNOVATION

CIPP Lining Process

1. **Cleaning the Host Pipe** – The existing pipeline is thoroughly cleaned to remove debris, sediments, and obstructions, ensuring a smooth surface for liner installation.
2. **Bypass and Flow Management** – Temporary flow management is set up to divert existing sewer flow, preventing disruptions during rehabilitation.
3. **Installation of CIPP Resin Tube/Liner** – A resin-impregnated liner is inserted into the existing pipe and positioned properly for curing.
4. **Polymerization & Curing** – The liner is cured using hot water, allowing the resin to harden and form a durable, seamless new pipe within the old structure.
5. **Reinstating Lateral Connections** – Any branch connections or service laterals are reopened to restore full functionality.
6. **Manhole Rehabilitation** – Existing manholes are repaired, waterproofed, and raised, if required based on site conditions.

This process enhances the structural integrity of sewer pipelines without extensive excavation, reducing downtime, costs, and environmental impact.



Benefits of CIPP Technology

1. **No Space Constraints** – Ideal for rehabilitating existing sewer lines in urban areas where space is unavailable for new installations.
2. **Minimal Excavation** – The trenchless method eliminates the need for extensive digging, preventing disruption to ground utilities and infrastructure.
3. **Restoration of Damaged Pipes** – Effectively repairs pipes damaged by root intrusion, deposits, cracks, and other structural issues, significantly improving flow capacity.
4. **Durability and Longevity** – The pipe-within-a-pipe structure ensures a long-lasting solution, extending the life of the sewer network.

TECHNOLOGY AND INNOVATION



5. **Corrosion and Chemical Resistance** – Resin-based liners are highly resistant to corrosion and chemical exposure, reducing long-term maintenance costs.
6. **No Traffic or Environmental Disturbance** – The process is non-intrusive, maintaining traffic flow and minimizing environmental impact.

This innovative approach enhances the efficiency and reliability of sewer systems while ensuring cost-effectiveness and sustainability.



Written by








Rajwansh Singh

Deputy Chief Engineer/ Project
Manager - Goa

STAR PRESENTERS

Project Appraisal Presentation Meetings (PAPMs) offer platform to WAPCOS' officials to present the appraisal on the progress of projects focusing on the challenges encountered during project planning & execution, their feasible solutions adopted and upcoming technologies & innovations. These meetings aim to foster information dissemination and knowledge sharing across all units and offices within the Organization. During these sessions, the officials make detailed presentations, which are attended by officers from various departments, enabling cross-functional engagement and fostering a deeper understanding of ongoing initiatives. By facilitating this exchange of insights and experiences, PAPMs promote collaboration, enable the sharing of best practices and encourage a cohesive approach to overcome challenges. As a token of appreciation, the details of Star presenters of PAM - 13 held on 29.1.2025, who made presentations and shared their experiences and expertise are as follows:

Presenter	Name & Designation of the Officer	Presentation on Project
PRESENTERS OF PAM 13		
	Sailendra Kumar Halwai, Additional Chief Engineer	Execution of Rural Piped Water Supply Project pertaining to Mega PWS to various projects in Balangir Circle in the State of Odisha on Engineering Procurement & Construction (EPC) Mode
	Sona Sharma Additional Chief Engineer / Project Manager	Detailed Project Report for Augmentation and Strengthening of Urban Water Supply System Phase-II, Medininagar under Medininagar Municipal Corporation
	Faujdar Yadav Deputy Chief Engineer	DPR for 1292 MW (Phase-1) Ultra Mega Renewable Energy Power Park (Solar Power Park) at village Bodana, Jaisalmer (Rajasthan)
	Manish Raj Deputy Chief Engineer	
	M V Harish Additional Chief Engineer	Independent verification agency (IVA) Independent Assessment of Water Supply Scheme in Karnataka

EMPLOYEES OF THE MONTH

WAPCOS recognizes employee's efforts for exemplary contribution in achievement of Turnover, New Business and Payment Realization for the Month of January, 2025

CONSULTANCY SEGMENT

Turnover



Shri Nitin Bansal,
Dy. Chief Engineer,
INFS-I

New Business



Ms. Kiritika,
Engineer,
INFS-I

Payment Realization



Shri MK Gangadhar.
Engineer,
T&D Unit Power Division

CONSTRUCTION SEGMENT

Turnover



Shri Ravi Prakash Gupta,
Sr. Engineer,
CMU-II

New Business



Shri Rajat Ranjan,
Engineer (Civil),
INFS-IV

Payment Realization



Shri Amit Agrawal,
Chief Engineer,
INFS-II

A world map illustrating global connectivity. A central point in the Middle East (near the Persian Gulf) is the origin of numerous dashed lines that radiate outwards to various cities across all continents. The cities are labeled with their names, and the lines represent connections or trade routes. The map is color-coded by continent: North America (light blue), South America (light green), Europe (light orange), Africa (light yellow), Asia (light purple), and Australia (light pink). The lines are most dense in Europe and Asia, indicating higher levels of connectivity in those regions.

