

e-Sanchar



MONTHLY NEWSLETTER

February 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



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 Kisan Khetra Kalyan Yojana (PMKKKY)

- Gujarat

MESSAGE



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

Dear Readers,

I extend my warmest greetings to each one of you as we delve into the pages of our February newsletter. It is with immense satisfaction that I share with you the notable achievements of WAPCOS Limited in the past month. These accomplishments not only showcase our organizational strength but also reflect the dedication and diligence of the entire WAPCOS family.

The Jal Jeevan Mission remains a focal point for India, with over 14 crore rural households now having access to tap water. This transformative initiative aligns seamlessly with our vision for a water-secure nation and reinforces WAPCOS's crucial role in shaping the water landscape of the country. Additionally, the All India Secretaries' Conference on Water Vision @ 2047 in Tamil Nadu further illustrates the country's commitment to contributing valuable insights and expertise towards ensuring water security for India in the years to come.

Providing services in challenging terrains, WAPCOS is undertaking the Project Management Consultancy for the construction of 9 MW DAH and 9 MW HANU Small Hydro Projects, along with the 66 kV Dah-Hanu-Khaltse Transmission Line in Ladakh, reflecting our dedication to supporting sustainable energy solutions.

We were also entrusted with the independent third-party survey for maintenance dredging at Mormugao Port in Goa, underscores the trust placed in our capabilities. Beyond our borders, our consulting services for the rehabilitation of the Klay hatchery in Liberia exemplify WAPCOS's global reach and impact.

WAPCOS found the opportunity to showcase its global credentials at the Vibrant Gujarat Global Trade Show where delegates from more than 140 countries participated and also visited our showcase, paving the way for fostering global partnerships.

Recognition of our efforts continues to pour in, with WAPCOS Limited receiving the EEPC India Regional Award (Northern Region) for exceptional contributions to export promotion. Furthermore, our participation in the "Vibrant Gujarat Global Trade Show 2024" has showcased our global credentials and commitment to fostering international partnerships.

Lastly, the recent Study Visit of the Parliamentary Standing Committee on Water Resources to Bhubaneswar, Odisha, provided an opportunity to highlight the impactful projects led by WAPCOS and NPCC in the Eastern States, fostering a substantive dialogue on the future of water resources management.

As we progress through this month, I express my gratitude to the entire WAPCOS family for your unwavering support and dedication. Together, let us continue to strive for excellence and make meaningful contributions towards a sustainable and water-secure future.

MINISTRY UPDATE

14 MLD STP and I&D Network Inaugurated in Baghpat Worth Rs. 77.36 Crores



Union Minister for Jal Shakti, Shri Gajendra Singh Shekhawat, inaugurated a transformative project in Baghpat, Uttar Pradesh, unveiling a cutting-edge 14 MLD Sewage Treatment Plant (STP) and a 2.4 km Interception & Diversion (I&D) Network. Under the NamamiGange Programme and the DBOT mode, the project, costing Rs. 77.36 crores, is 100% centrally funded, symbolizing a pivotal moment in river conservation. Shri Shekhawat highlighted the government's commitment to purify the Ganga and Yamuna, acknowledging the positive impact of a decade of NMCG's efforts, witnessing the resurgence of aquatic life in the Ganga.

Recognizing NamamiGange as a top 10 World Restoration Flagship, Shri Shekhawat emphasized

the rivers' significance as sources of faith and livelihood. He mentioned the achievement of potable Ganga waters and the establishment of Asia's largest STP in Okhla to combat pollution. The project in Baghpat involves strategic interception of nalas, an Intercepting Sewer Line, DI pipes, and a Master Pumping Station. NMCG Director-General, Mr. G. Asok Kumar, highlighted its role in addressing Yamuna's pollution, forming part of the broader Yamuna Action Plan. The government's approval of 34 projects, allocating Rs. 5834.71 crores, underscores its commitment to mitigate pollution in the Yamuna and Hindon Rivers, with 15 projects already completed across Himachal Pradesh, Haryana, Uttar Pradesh, and Delhi.



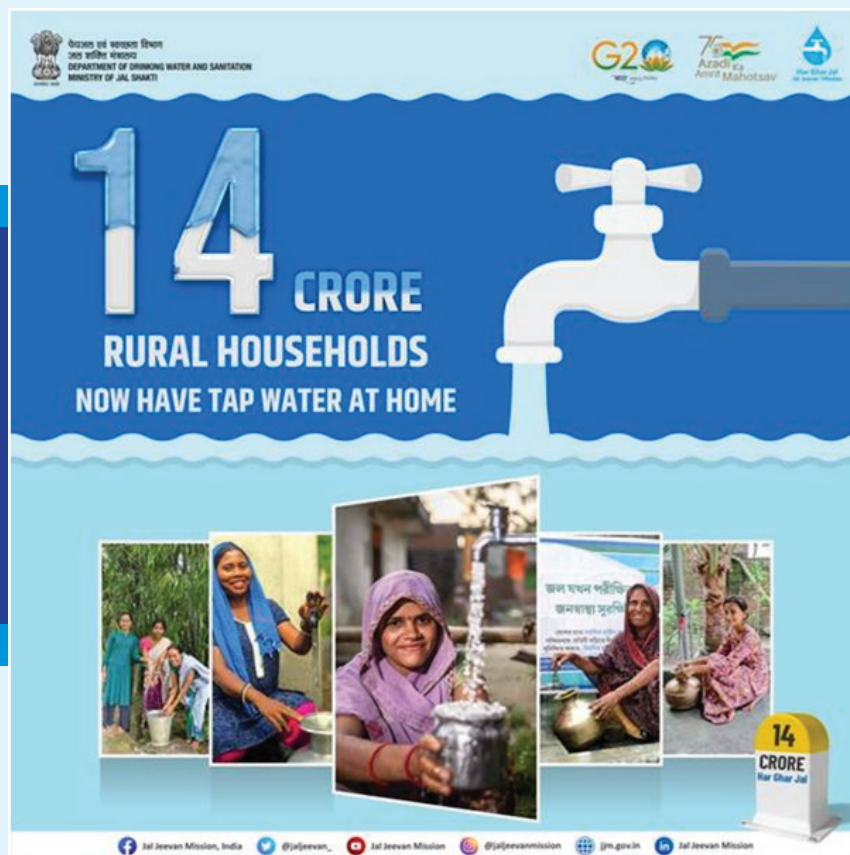
MINISTRY UPDATE

Jal Jeevan Mission: 14 Crore Rural Households Now Have Tap Water

The Jal Jeevan Mission (JJM) has achieved a monumental milestone by providing tap water connections to 14 Crore (72.71%) rural households, marking a paradigm shift in rural development since its launch by Prime Minister Shri Narendra Modi in August 2019. In just four years, the initiative has rapidly increased rural tap connection coverage from 3 Crore to an impressive 14 Crore, showcasing unparalleled speed and scale. Six states and three Union Territories have achieved 100% coverage, while Mizoram, Arunachal Pradesh, and Bihar are on track to achieving saturation. Active collaboration between the Union and State governments, along with development partners, has facilitated this transformation, with a tap water connection installed every second.

Beyond the monumental household connections, the Jal Jeevan Mission has also ensured tap water supply in 9.24 lakh (90.65%) schools and 9.57 lakh (86.63%) anganwadi centers nation wide. In the 112 aspirational districts, tap water access has surged from 21.41

lakh (7.86%) households at the time of launch to 1.96 Crore (72.08%) households today. The 'Har Ghar Jal' initiative is delivering substantial socio-economic benefits, liberating rural populations, particularly women, from the arduous task of fetching water daily. The time saved is now redirected towards income-generating activities, skill development, and supporting children's education. JJM's sustainable model promotes community-led development, with over 5.29 lakh Village Water & Sanitation Committees (VWSC)/ Pani Samitis formed and 5.17 lakh Village Action Plans (VAPs) focusing on drinking water source management, greywater treatment, and regular O&M of in-village water supply systems. More than 23.55 lakh women have been trained for testing water samples, ensuring quality in all arsenic and fluoride-affected habitations. The mission's commitment to delivering safe water through taps to all households, schools, anganwadis, and public institutions in rural areas perfectly aligns with the objectives of Viksit Bharat.



MINISTRY UPDATE

All India Secretaries' Conference Hosted in Alignment with PM's Vision of a Developed India by 2047



The "All India Secretaries' Conference on Water Vision @ 2047 -Way Ahead" recently concluded in Mahabalipuram, Chennai, marking a crucial step towards enhancing the country's water security. With active participation from 32 States and Union Territories, 30 Secretaries, and over 300 delegates, the conference aimed to strengthen the implementation of the 22 recommendations outlined during the "1st All India Annual State Ministers Conference on Water." Aligned with the Prime Minister's vision of India becoming a developed nation by 2047, the Sectoral Group of Secretaries is crafting a comprehensive blueprint. Each ministry, including the Ministry of Jal Shakti, contributed sector-specific Vision documents. The conference underscored critical areas, such as prioritizing drinking water sustainability, bolstering climate resilience, optimizing water usage, integrating state-of-the-art technology, and fostering enhanced community participation.

Thematic sessions during the event delved into key aspects of water management, including climate resilience, water governance, efficiency, storage mechanisms, and people's participation. A total of 30 presentations highlighted state initiatives, while a digital collection of curated publications showcased over 150 relevant resources on water-related issues. A round table discussion with Secretaries and CEOs of industries explored collaborative opportunities



to achieve the Water Vision @ 2047. The Ministerial Session, chaired by Union Minister of Jal Shakti, Shri Gajendra Singh Shekhawat, emphasized collaboration and innovation for sustainable water management. The major takeaways from the conference include assessing actions on the 22 recommendations, accelerating efforts in lagging areas, establishing the Water Vision @ 2047 Conferences as a peer learning platform, fostering collaboration and partnerships, and laying the groundwork for continuous dialogue on strengthening water security. The Government of Tamil Nadu played a crucial role in facilitating the conference, bringing together states, Union Territories, and central ministries on a unified platform.

PROJECT UPDATE

Detailed designs of the rehabilitation of the Klay hatchery in Bomi county, Liberia

Client: National Fisheries & Aquaculture Authority, Government of Liberia

Location: Klay, Bomi County, Liberia

Scope of Work

- Preparation of Inception report
- Preparation of preliminary design report
- Preparation of Detailed Design Report
- Preparation of tender document for selection of contractor and assisting in evaluation
- Construction Supervision

Main Components

- Architectural and detailed design for construction of Tilapia, African Arrowana and Cat fish hatchery
- Other hatchery related infrastructure buildings

Challenges Faced

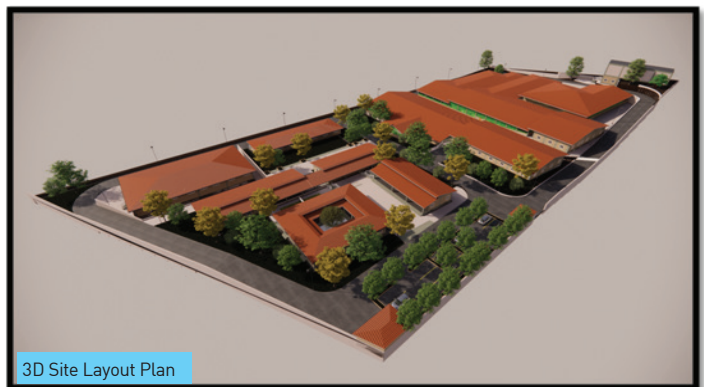
Project Location is in very remote area

Present Status

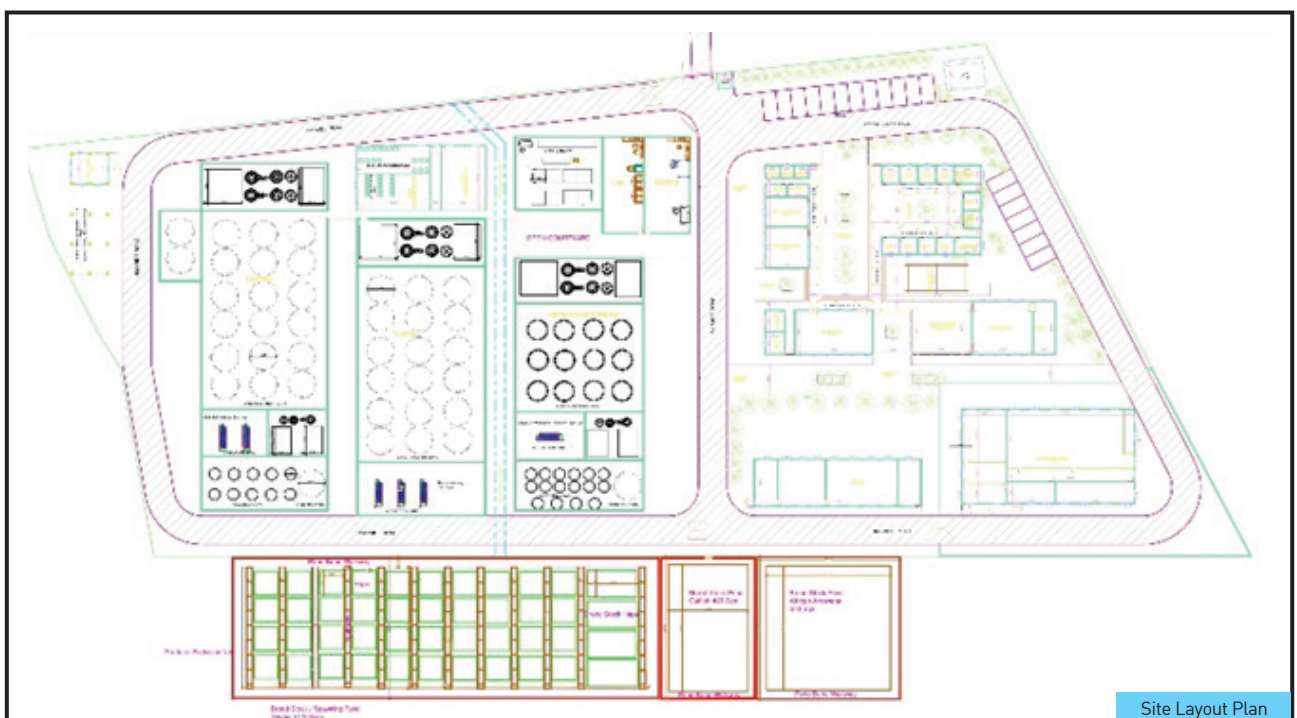
Preliminary Design Report Submitted



Site Visit with Experts



3D Site Layout Plan



Site Layout Plan

PROJECT UPDATE

PMC for Construction of 9 MW DAH & 9 MW HANU SHPs in UT of Ladakh

Client: Jammu & Kashmir State Power Development Corporation Limited (JKSPDCL)

Location: Near village Dahthang, about 170 km from Leh District Headquarter

Scope of Work

- Deployment of Team of Experts and staff at site as well as in the design office
- To review the detailed engineering design, drawings and documents prepared by the contractor
- Quality Control and Construction Supervision of works at site

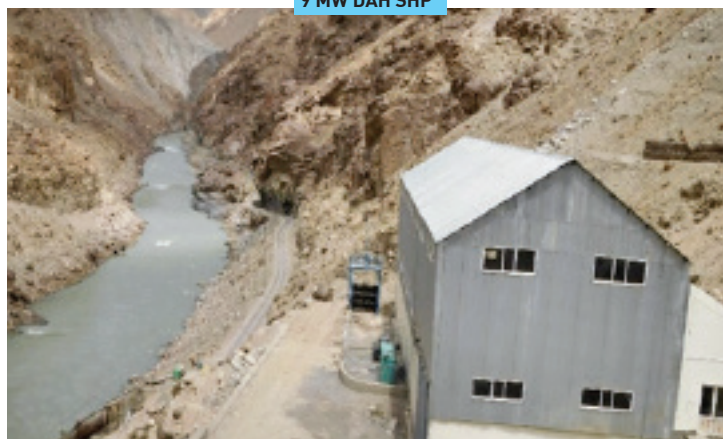
Challenges Faced

The project is located in the rugged mountainous region of UT of Ladakh. The maximum and minimum temperature at site is of the order of 30°C and -30°C. The construction season for the project is only 7-8 months in a year.

Salient Features



9 MW DAH SHP



Components	(3 x 3MW) Dah HEP	(3 x 3MW) Hanu HEP
Weir	<ul style="list-style-type: none"> • Un-gated Crest Weir having 1.5m top width • One under sluice bay of 2.0m width 	<ul style="list-style-type: none"> • Un-gated Crest Weir having 1.5m top width • One under sluice bay of 2.0m width
Feeder Channel	<ul style="list-style-type: none"> • 1.5m(W) x 2.2m(H) • Length 19m 	<ul style="list-style-type: none"> • 1.5m(W) x 2.6m(H) • Length 11.5m
Desilting Tank	<ul style="list-style-type: none"> • 24m(L) 6m (W) 5.4m (D) 	<ul style="list-style-type: none"> • 24m (L) 6m (W) 5.4m(D)
Design Discharge	<ul style="list-style-type: none"> • 4.1m³/sec. 	<ul style="list-style-type: none"> • 4.35m³/sec.
Head Race Tunnel	<ul style="list-style-type: none"> • D-Shaped 2.0m(H) x 1.8m(W) • 2660m long 	<ul style="list-style-type: none"> • D-Shaped 2.0m(H) x 1.8m(W) • 3669m long
Penstock	<ul style="list-style-type: none"> • Steel Grade E250 of 1.2m dia • 269.21m+261m(embedded) length 	<ul style="list-style-type: none"> • Steel Grade E250 of 1.2m dia • 321m+250m(embedded) length
Power House	<ul style="list-style-type: none"> • 3X3 MW • Net Head 284m • 3 No. Pelton Turbines 	<ul style="list-style-type: none"> • 3X3 MW • Net Head 246.1m • 3 No. Pelton Turbines
Tail Race	<ul style="list-style-type: none"> • 84m length • 1.5m x 1.4m rectangular 	<ul style="list-style-type: none"> • 40m length • 1.5m x 1.4m rectangular

PROJECT UPDATE

CONTD...

Present Status

Most of the project works are substantially completed. Civil works of all the major components such as weir, Head Race Tunnel (HRT), Power House and Switchyard stands completed. Some of the protection works of the project are remaining for completion. The physical progress of DAH SHP is 99 % and HANU SHP is 92%.



9 MW DAH SHP



9 MW HANU SHP



PROJECT UPDATE

Project Management Consultancy (PMC) of Construction of 66 kV Dah-Hanu-Khaltse Transmission Line, Leh, Ladakh

Client: Jammu & Kashmir Power Development Corporation Ltd.

Location: Dah-thang & Hanu-thang Villages, about 170 km from Leh District Headquarters

The line terminates at 220/66 kV substation situated at Khaltse, 63 kms from Dah-Thang village

Scope of Work

- Deployment of Team of Experts and staff at site as well as in the design office
- To review the detailed engineering design, drawings and documents prepared by the contractor
- Quality Control and Construction Supervision of works at site

Challenges Faced

It is one of the highest transmission line of the country. The project site is located in rugged mountainous region of Ladakh where temperature varies from $+30^{\circ}\text{C}$ to -30°C . The construction season for the project is only 7-8 months in a year.

Present Status

The physical progress of the line is 70 %. The project is expected to be completed by November'24.



Line Details	66 KV Double Circuit Dah-Hanu-Khaltse Transmission Line
Line Length	63.40 Kms
Altitude	Upto 3300 m above MSL
Altitude Correction Factor	1.28
No. of Towers	273
Conductor used	ACSR Panther
Insulators used	SIR (Polymer Insulators)
Design wind speed "Vd"	34.92 m/s
Design wind pressure "Pd"	732 N/sq.m
Design radial thickness of ice on ACSR Conductor and Ground Wire	25 mm
Basic wind speed (Vb)	50 m/s
Return period	50 years



PROJECT UPDATE

Independent Third Party Survey for the work of “Maintenance Dredging at Mormugao Port for the year 2023, Goa

Client: Mormugao Port Authority

Location: Goa, India

Scope of Work

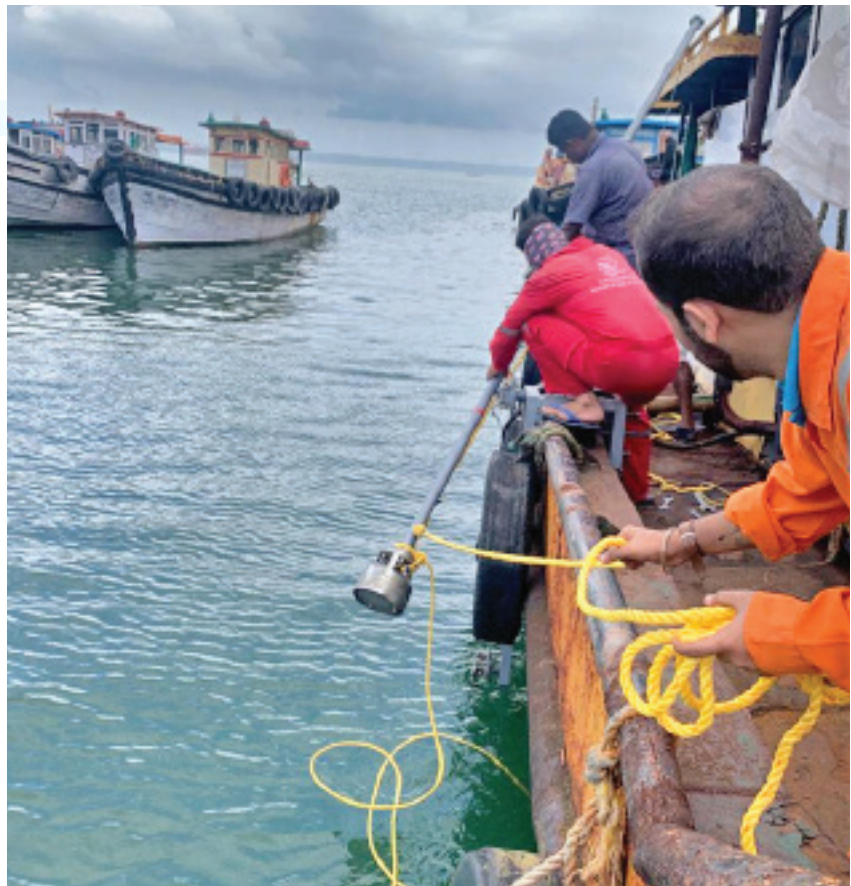
- Providing survey vessel/ hiring of launches required for carrying out the survey along with the equipment's
- Carrying out pre-dredge and post-dredge bathymetry survey for an approx. area of 3.2 Km²
- Data processing
- Preparation of survey charts.
- Dredging Volume computations

Main Components

- Bathymetry Survey
- Dredging Volume Calculation
- Bathymetry survey Chart

Present Status

Completed



THE MONTH AT A GLANCE

6th & 7th January



A substantive dialogue unfolded during the Study Visit of the Parliamentary Standing Committee on Water Resources to Bhubaneswar, Odisha on January 6, 2024, shedding light on the impactful projects led by WAPCOS and NPCC in the Eastern States. Steering this insightful conversation was Mr. R. K. Agrawal, CMD of WAPCOS and NPCC. The delegation, which included Mr. Anand Mohan, JS (RD&PP) from the Ministry of Jal Shakti, and Dr. Aman Sharma, Chief Executive Director of WAPCOS, along with senior officials from the Ministry of Jal Shakti, WAPCOS, and NPCC, engaged in discussions that delved into the progress, challenges, and future prospects of water resource initiatives in the region.

The collaborative efforts and shared insights during this visit underscore the dedicated commitment to advancing water resource management and development in the Eastern States. With a focus on sustainable and integrated solutions, WAPCOS and NPCC, under the leadership of Mr. Agrawal, contribute significantly to the nation's water infrastructure. Such engagements with parliamentary committees play a pivotal role in aligning strategies, fostering collaboration, and ensuring the success of vital water resource projects.



THE MONTH AT A GLANCE

10th – 12th January



WAPCOS showcased its global credentials at the “Vibrant Gujarat Global Trade Show 2024,” hosted at Helipad Ground, Gandhinagar. Positioned at Hall No. 10, Exhibition Centre, WAPCOS highlighted its expertise in the Water, Power, and Infrastructure sectors. The exhibition attracted esteemed dignitaries and delegates from diverse countries who visited WAPCOS’s showcase, engaging with the team to explore collaborative opportunities. This active participation underscores WAPCOS’s commitment to fostering international collaborations and sharing insights on its impactful projects worldwide. The event served as a platform for exchanging ideas, fostering partnerships, and reinforcing WAPCOS’s standing as a global player in the fields of water management, power development, and infrastructure solutions.



THE MONTH AT A GLANCE

18th January, 2024



WAPCOS Limited is honoured to receive the EEPCL India Regional Award (Northern Region) for exceptional contributions to Export Promotion. Shri Ajay Bhatt, Minister of State for Defence of India, presented the award in New Delhi. The accolade reflects WAPCOS's dedication to excellence and was accepted by Mr. H. S. Sandhu, Executive Director, and Mr. Naveen Kumar Nada, Head (Generation) on behalf of WAPCOS. Achieving this award wouldn't have been possible without the support of Ministry of Jal Shakti.

EMPLOYEES OF THE MONTH

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

CONSULTANCY SEGMENT

Turnover



Shri Ramavathu Rambabu
Engineer,
Infrastructure GM (Systems)

New Business



Shri Hirenkumar Sureshlal Patel
Engineer,
Projects/Gandhinagar Office

Payment Realization



Shri Happy Swain
Engineer,
T&D Unit Power Division

CONSTRUCTION SEGMENT

Turnover



Shri Chirag Sood
Engineer,
Ropeways Division

New Business



Shri Prabhav Mishra
Engineer
Irrigation Planning

Payment Realization



Shri Chirag Panchal
Engineer,
SSP Ahmedabad

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