

e-Sanchar



MONTHLY NEWSLETTER
MAY 2024

MESSAGE



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

Dear Readers,

I am delighted to present the May edition of our newsletter, showcasing the remarkable work accomplished by WAPCOS. Our commitment to excellence is evident in the diverse range of projects we have undertaken and successfully completed.

One of our key projects includes the de-novo examination of the Detailed Project Report (DPR) for the development of a freshwater lake at Flat Bay, Andaman and Nicobar Islands. This project reflects our dedication to environmental conservation and sustainable development.

In addition, our safety audit of six dam structures over Mumbai Division, Maharashtra, underscores our unwavering focus on ensuring the safety and security of critical infrastructure.

We are also proud for being providing the project management services to Madhyanchal Vidyut Vitran Nigam Limited (MVNLI) and Kanpur Electricity Company (KESCO) under the Revamped Distribution Sector scheme. These initiatives are a testament to our commitment to supporting the growth and development of the power sector in India.

Furthermore, our ongoing projects, such as project monitoring and coordination services for the execution of the Polavaram Irrigation Project in Andhra Pradesh, demonstrate our expertise and capabilities in delivering large-scale infrastructure projects.

I am also pleased to share that we had the honor of interacting with several distinguished guests this month. This includes meetings with the Ambassadors of Burundi, Bhutan, and Mongolia to India. On the other hand, our team members interacted with Indian Embassy officials in Liberia, briefing them about our ongoing and future projects in the African country.

I would like to extend my heartfelt gratitude to each member of the WAPCOS family for their hard work, dedication, and commitment to excellence. Together, we will continue to achieve new milestones and contribute to the nation's growth and development.

MINISTRY UPDATE

DoWR,RD&GR Hosts Workshop on Artificial Intelligence and Machine Learning



A workshop on artificial intelligence and machine learning was organised by the Department of Water Resources, River Development & Ganga Rejuvenation (DoWR,RD&GR). This workshop was chaired by Smt. Debashree Mukherjee, Secretary, DoWR,RD&GR. Officials from National Mission for Clean Ganga (NMCG) and other organisations were also present.

The workshop featured a lively and interactive discussion on the applications of Artificial Intelligence, Machine Learning, and similar technologies for digital transformation.

The importance of AI in various sectors was highlighted, emphasizing its role in revolutionizing processes and

enhancing efficiency.

The first session was followed by a second session focusing on Generative AI, such as ChatGPT and Gemini, for digital transformation. Sh. Brijendra Swaroop, Executive Director, NMCG, shared his insights on the security of AI and the advantages of these technologies in the water sector (H2O sector).

The workshop provided a platform for exchanging ideas and exploring the potential of AI and ML in driving digital transformation, particularly in the government sector. It underscored the importance of leveraging these technologies to address challenges and optimize processes in various domains, including the water sector.



MINISTRY UPDATE

19th meeting of the Task Force for Interlinking of Rivers Concluded



19th April, 2024



19th Meeting of Task Force for Inter Linking of Rivers

The taskforce meeting was held under the Chairmanship of Shri Sriram Vedire, Advisor at the Department of Water Resources, River Development & Ganga Rejuvenation. The meeting, conducted in collaboration with officials from the National Water Development Agency (NWDA) at Shram Shakti Bhawan, focused on pivotal strategies to advance the interlinking of rivers program.

The NWDA, entrusted with the task of interlinking rivers under the National Perspective Plan (NPP), oversees two components: the Himalayan Rivers Development Component and the Peninsular Rivers Development

Component. Under the NPP, 30 link projects have been identified. Notably, the Ken Betwa Link Project (KBLP) marks the first link project under the NPP, with implementation already underway.

The meeting underscored the importance of concerted efforts and strategic planning in realizing the ambitious goal of interlinking rivers, a vital initiative aimed at optimizing water resources management and enhancing water security in the country. Discussions focused on streamlining processes and addressing challenges to ensure the smooth execution of interlinking projects across the nation.

PROJECT UPDATE

De-novo Examination of Detailed Project Report (DPR) for the Development of Fresh Water Lake at Flat Bay, A&N Islands

Client: Andaman Public Works Department
Location: Flat Bay, Andaman & Nicobar Islands

Objective:

De-Novo examination of DPR towards optimization of project cost using state-of-the-art technology for the development of Fresh Water Lake by constructing an embankment across the Flat Bay to separate out the fresh and saline water.

Scope of Work:

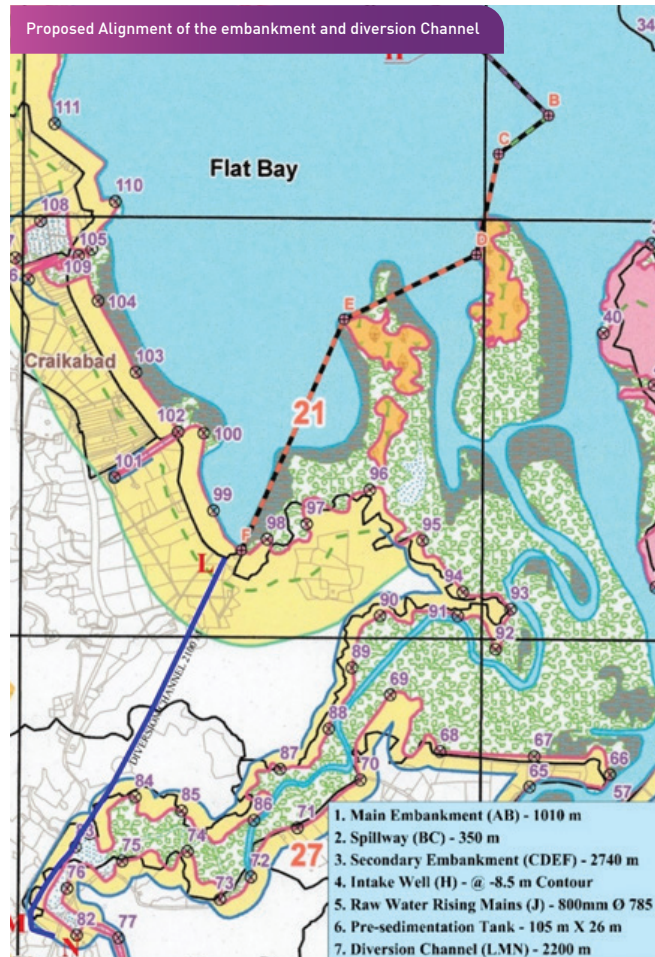
- Explore state-of-the-art technique for soil improvement being very soft marine clay
- Explore possibility of putting Geo-filters
- Explore alternate methods such as steel sheet piled embankment
- Optimization of peripheral embankment considering the minimum loss of mangroves and Construction aspects

Salient Feature:

Main Embankment	:1010m
Spillway	: 350m
Secondary Embankment	: 2740m
Storage area	: 5.32mm ²
Storage Capacity	: 10.0mm ³
Mangrove Area affected	: 1.11 Ha
Diversion Channel	: 2200m

Challenges Faced:

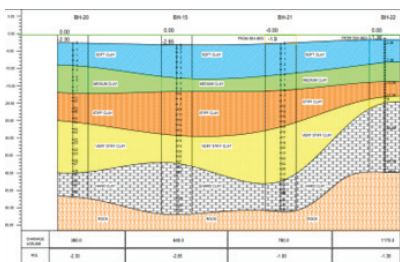
- To preserve marine ecological balance and ensure minimum environmental impact due to presence of mangroves.



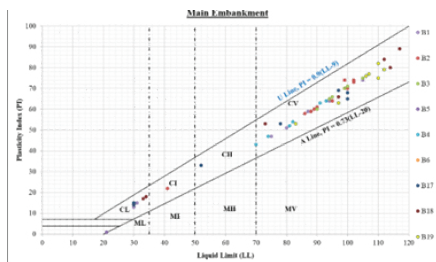
- Occurrence of heavy cyclonic rainfall causing a rise in the water level above the high tide and would submerge fringe lands adjacent to the existing shoreline.
- Falls under Seismic Zone-V as such chances of liquefaction due to excess settlement being presence of soft clay to a depth of 30-50 m.

Present Status:

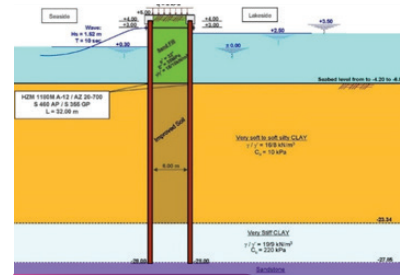
Final Detailed Project Report has been submitted



Borelogs along the embankment



Plasticity Chart under the Embankment



Typical Design Section (Application of steel sheet Pile)

PROJECT UPDATE

Safety Audit of 6 dam structures in Maharashtra

Client: Central Railways, Mumbai Division, Maharashtra

Location: 1. Bhushi dam, Lonavla; 2. GIP Dam, Ambernath; 3. Dighe Dam, Thane; 4. Palasdari Dam, Karjat; 5. Rada Dam, Kasara; 6. Igatpuri Dam, Igatpuri



Site Inspection carried out by WAPCOS officials at Bhushi dam,



Application of cavity Filling During Execution

Scope of Work:

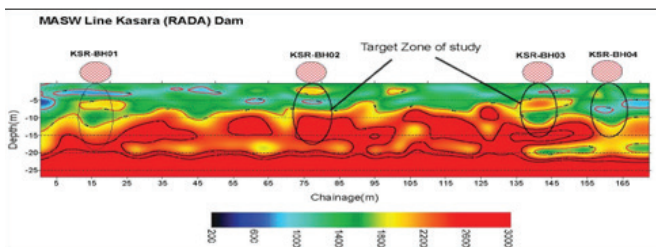
- Detailed inspection of the dam.
- Relative level, longitudinal section and cross section survey of the structure.
- Assessment of weak zones by Geo-physical survey.
- In situ determination of properties of the dam material.
- Carry out Permeability test.
- Laboratory test for determining engineering properties of the dam material.
- Stability analysis of the dam material by Finite Element method.
- Remedial and rehabilitation measures.

Main Components :

- Site Inspection
- Geophysical Survey
- Geotechnical Investigation
- Stability analysis
- Remedial measures

Challenges Faced :

- Lack of Cross-Sectional drawings and Design Details
- Accessibility problem being located in remote or rugged terrains,
- Lack of working place for Investigation
- Seasonal Constraints



Results of Geo-Physical Survey (MASW)



Core-Log Photograph – Geotechnical



Horizontal Grouting Process

Present Status:

Final Detailed Project Report has been submitted

PROJECT UPDATE

Project Management Services to Madhyanchal Vidyut Vitran Nigam Limited (MVVNL) under Revamped Distribution Sector scheme

Location: Lucknow, Uttar Pradesh

Scope of Work:

Madhyanchal Vidyut Vitran Nigam Ltd., appointment WAPCOS as Project Management Agency (PMA) to provide services for implementation of works under Revamped Distribution Sector Scheme in MVVNL. PMA has to provide complete project Management services by hand holding the project from the concept to commissioning in districts of MVVNL DISCOM in the state of Uttar Pradesh

The functions of the PMA include the following:

Preparation of Action Plan and DPR as per the scheme Guidelines and instructions that may be issued by the Ministry of Power/Nodal Agency from time to time and based on the data/inputs to be provided by the DISCOM;

Provide assistance and support for:

- a) Bid(s) Process Management
- b) Project Management
- c) Works mentioned in the Guidelines of the scheme
- d) Any other works related to the project as assigned from time to time.

Main Components of the scheme:

Part A – Financial support for Prepaid Smart Metering & System Metering and up-gradation of the Distribution Infrastructure.

Part B – Training & Capacity Building and other Enabling & Supporting Activities.

Present Status:

35 % progress achieved



PROJECT UPDATE

Project Management Services to Kanpur Electricity Company (KESCO) under Revamped Distribution Sector scheme

Location: Kanpur, Uttar Pradesh

Scope of Work:

Kanpur Electricity Company, appointed WAPCOS as Project Management Agency (PMA) to provide services for implementation of works under Revamped Distribution Sector Scheme in KESCO. PMA has to provide complete project Management services by hand holding the project from the concept to commissioning to KESCO DISCOM in the state of Uttar Pradesh

The functions of the PMA include the following:

Preparation of Action Plan and DPR as per the scheme Guidelines and instructions that may be issued by the Ministry of Power/Nodal Agency from time to time and based on the data/inputs to be provided by the DISCOM.

Provide assistance and support for:

- a) Bid(s) Process Management
- b) Project Management
- c) Works mentioned in the Guidelines of the scheme
- d) Any other works related to the project as assigned from time to time.

Main Components of the scheme:

Part A – Financial support for Prepaid Smart Metering & System Metering and up-gradation of the Distribution Infrastructure.

Part B – Training & Capacity Building and other Enabling & Supporting Activities.

Challenges Faced:

1. Being a highly populated Urban Discom difficult to get permission and RoW for work



Present Status:

45 % progress achieved

PROJECT UPDATE

Project Monitoring & Coordination Services for Execution of Polavaram Irrigation Project in Andhra Pradesh

Client: Polavaram Project Authority (PPA)

Location: Pydipaka Village, Lat 17o 13' N
and Long 81o 46' E



View of Spillway

Scope of Work:

Professional advice, management and implementation support to PPA for the effective and timely implementation of the project

Main Component:

Headworks (Spillway, Earth Cum Rock Fill Dams, Cofferdams, Concrete Dam, etc.), Right Main Canal, Left Main Canal LA and R&R

Challenges Faced:

1. Diversion of River
2. Scouring of River bed during flood Year 2019 & 2020
3. Seepage from Cofferdams
4. Ground Improvement works at dam foot print area and restoration of D wall

Present Status:

77% Completed



View of Cofferdams



Vibro Compaction at Dam Footprint of Gap II (ECRF Dam)



Polavaram Left Main Canal-Package:1

Cross Regulator @KM 1,700

THE MONTH AT A GLANCE

10th April, 2024

Mr. R. K. Agrawal, CMD of WAPCOS, met with H.E. Brig. General Aloys Bizindavyi, the Ambassador of Burundi to India, to discuss WAPCOS's ongoing operations in Burundi and explore future prospects. During the meeting, Mr. Agrawal briefed the Ambassador on WAPCOS's involvement in various power sector projects in the Republic of Burundi, encompassing generation, transmission, and distribution.

H.E. Ambassador Aloys Bizindavyi expressed his appreciation for WAPCOS's significant contributions to the power sector in Burundi. He commended WAPCOS for its partnership and dedication to

enhancing the country's power infrastructure. The Ambassador acknowledged the vital role WAPCOS has played in advancing Burundi's power sector through its involvement in several key projects.

This meeting underscores the strong relationship between WAPCOS and the Republic of Burundi, as well as their shared commitment to the development of the country's power infrastructure. It also highlights the potential for further collaboration between WAPCOS and Burundi in the future, as both parties continue to work together to address the nation's energy needs and promote sustainable development.



THE MONTH AT A GLANCE

12th April, 2024



Mr. R. K. Agrawal, CMD of WAPCOS, met with H.E. Maj. Gen. Vetsop Namgyel, the Ambassador of the Royal Government of Bhutan to India, in New Delhi in April. The purpose of the meeting was to discuss WAPCOS's operations in Bhutan and explore upcoming projects.

During the meeting, Mr. Agrawal briefed H.E. Ambassador Namgyel about WAPCOS's ongoing operations in Bhutan. They discussed various upcoming projects and potential areas of collaboration.

H.E. Ambassador Namgyel expressed his appreciation for the technical consultancy services provided by WAPCOS in the development of hydro

power projects in Bhutan. He acknowledged WAPCOS's contribution to Bhutan's development over the past two decades and highlighted the importance of their continued partnership in advancing the country's hydro power sector.

The meeting showcased the robust partnership between WAPCOS and the Royal Government of Bhutan, demonstrating their mutual dedication to advancing Bhutan's hydropower infrastructure. It also highlights the possibility of ongoing collaboration between the two entities as they strive to meet Bhutan's energy requirements and foster sustainable development.



THE MONTH AT A GLANCE

23rd April, 2024



H.E. Mr. Ganbold Dambajav, the Ambassador of Mongolia to India, visited Mr. R. K. Agrawal, CMD of WAPCOS, at the WAPCOS office in New Delhi on April 23, 2024.

The purpose of the meeting was to discuss the status of ongoing projects being undertaken by WAPCOS in Mongolia. Mr. Agrawal presented an update on the progress of these projects, and both parties engaged in fruitful discussions regarding their advancement.

The meeting underscores the strong partnership between WAPCOS and Mongolia, as well as their

shared commitment to the successful implementation of various projects in the country. It highlights the collaborative efforts between WAPCOS and Mongolia in areas such as infrastructure development, emphasizing the positive impact of their ongoing cooperation on the socio-economic development of Mongolia.

This meeting further strengthens the relationship between WAPCOS and Mongolia, paving the way for continued collaboration and the successful completion of ongoing projects, while also opening avenues for future cooperation and partnership between the two entities.

THE MONTH AT A GLANCE

23rd April, 2024

On April 23, 2024, a meeting was convened with Shri Jitendra Singh Rawat, Chargé d'Affaires ad interim (Cd'A a.i.) and Second Secretary (Political, Consular), Commercial Representative, Hindi Officer & HOC at the Indian Embassy in Monrovia, Liberia.

The WAPCOS team, led by Sh. Manish Kumar, Chief Engineer, provided an update on the ongoing projects and discussed potential future projects. They briefed Shri Jitendra Singh Rawat about the progress of the current works being carried out by WAPCOS in Liberia and outlined the projects that are likely to be taken up in the future.

The meeting served as an opportunity for WAPCOS to share its progress and plans with the Indian Embassy in Monrovia, reinforcing the strong ties between India and Liberia. It also provided a platform for discussing potential areas of collaboration and future projects aimed at furthering the socio-economic development of Liberia.

This meeting highlights the ongoing cooperation between WAPCOS and Liberia, as well as the commitment of both parties to the development of infrastructure and other sectors in Liberia. It sets the stage for continued collaboration and partnership between WAPCOS and Liberia in the future.



EMPLOYEES OF THE MONTH

WAPCOS recognizes employee's efforts for exemplary contribution in achievement of Turnover and Payment Realization for the Month of April, 2024

CONSULTANCY SEGMENT

Turnover



Shri Shwetabh Tripathi,
Sr. Engineer,
Generation Unit, Power Division

Payment Realization



Shri Abinash Kumar Sahoo,
Engineer,
T&D Unit, Power Division

CONSTRUCTION SEGMENT

Turnover



Shri Ravish Takkar,
Junior Engineer (Civil),
CMU-I

Payment Realization



Shri Umang Arora,
Sr. Engineer (Civil),
CMU-I

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 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 website of the stock exchange(s) at www.nseindia.com and 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.”