











MONTHLY NEWSLETTER MAY 2025

Sikkim

Nagaland

New Delhi

Telangana

Tamil Nadu

Maharashtra

Chhattisgarh

Andhra Pradesh



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



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



Smart City

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



Atal Mission for Reiuvenation and Urban **Transformation**

Goa

Assam

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



Pradhan Mantri Awas Yojana

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



Deen Dayal Upadhyaya Gram Jyoti Yojana

- Bihar
- Kerala
- Manipur
- Haryana
- Andaman & Nicobar
- Meghalaya

- Maharashtra
- Chhattisgarh
- Puducherry

- Sikkim
- Tripura
- Mizoram
- New Delhi

Assam

- Karnataka
- **Jharkhand**
- Nagaland
- Tamil Nadu
- West Bengal
- Uttar Pradesh
- Himachal Pradesh
- Jammu & Kashmir
- Arunachal Pradesh



Gujarat



Integrated Power Development Scheme

- Goa
- Odisha
- Rajasthan
- Uttar Pradesh

Pradhan Mantri

Gram Sadak

Bihar

Uttarakhand

Yojana

- Jammu & Kashmir
 - Himachal Pradesh
 - 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

Assam

Punjab

Rajasthan

Maharashtra

Madhya Pradesh

Himachal Pradesh

- Uttar Pradesh
- Madhya Pradesh



Jal Jeevan Mission

- Gujarat
- Haryana
- Jharkhand
- West Bengal Chhattisgarh
- Andhra Pradesh
- Arunachal Pradesh
- Jammu & Kashmir National PMU at Ministry of Jal
 - Shakti



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

Gujarat



SAGARMALA Programme

- Gujarat
- Maharashtra



Pradhan Mantri Khanij Kshetra Kalyan Yojana (PMKKKY)

Gujarat



MESSAGE



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

Dear Readers,

I am pleased to present the latest edition of e-Sanchar, a testament to WAPCOS' continued commitment to engineering excellence and sustainable development across water, power, and infrastructure sectors. This month has seen significant strides in our initiatives, strengthening our presence both nationally and globally.

As the National Technical Support Agency for the Atal Bhujal Yojana, WAPCOS plays a key role in advancing community-led groundwater management across seven states and 80 districts. We've supported the preparation of Water Security Plans for over 8,200 Gram Panchayats, facilitated more than 68,000 water conservation structures, and enabled over seven lakh farmers to adopt efficient agricultural practices. In Rajasthan, 154 artificial recharge structures are nearing completion, boosting groundwater sustainability in water-stressed areas.

Under the Pradhan Mantri Awas Yojana (Urban), our Sanjaynagar-Warasiya Group Housing Project in Vadodara exemplifies sustainable innovation. Leveraging Monolithic Concrete Construction Technology (MCCT) with MIVAN Aluminium Formwork, it will deliver 2,944 housing units to benefit over 12,000 people—ensuring speed, durability, and cost efficiency.

In infrastructure, our teams are executing key institutional projects such as the Integrated Directorate Complex in Assam, Union Bank of India building in Dehradun, and Girls' Hostel at NIT Silchar—supporting public service delivery, education, and financial inclusion.

Our partnership with the Government of Odisha on Pumped Storage Projects reflects our growing role in India's renewable energy landscape and clean energy transition.

I sincerely thank all our employees and stakeholders for their dedication and collaboration. Together, we remain committed to delivering impactful, sustainable solutions that support national growth and global development.

With warm regards, R.K. Agrawal Chairman -cum-Managing Director WAPCOS & NPCC



MINISTRY UPDATE

Jal Shakti Powers Digital Shift with New Water Census, RSMS Portal, and Revamped Website – April 3, 2025

On April 3, 2025, Hon'ble Union Minister of Jal Shakti Shri C.R. Paatil launched three major digital initiatives at Shram Shakti Bhavan, New Delhi, aimed at strengthening water resource management in India.

Firstly, the Water Resource Census Application and Portal was introduced to support multiple census schemes: the 7th Minor Irrigation Census, 2nd Census of Water Bodies, 1st Census of Springs, and 1st Census of Major and Medium Irrigation Projects. Conducted under a 100% centrally sponsored scheme for the 2023–24 agricultural year, its objective is to develop a reliable database for effective planning and policymaking in the irrigation sector. The initiative features a fully digital, paperless data collection system using mobile and web applications, integrates pre-populated past census data, and employs reverse GIS for accurate geolocation. Ground truthing and the use of LGD codes further ensure data quality and consistency.

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Secondly, the Web-based Reservoir Storage Monitoring System (RSMS) Portal was launched. It automates the monitoring and reporting of live storage capacity across 161 key reservoirs, which represent 70.74% of India's total live storage. Previously manual processes such as data analysis, graph and map generation, and bulletin publication are now automated. The portal also allows public access to real-time reservoir data and downloadable bulletins, aiding in wateruse prioritization for agriculture, domestic needs, power, and disaster management.

Lastly, the revamped Ministry of Jal Shakti website was unveiled in compliance with the Digital Brand Identity Manual (DBIM) and Guidelines for Indian Government Websites (GIGW) 3.0. It offers a uniform, accessible, and mobile-friendly user experience with improved performance, centralized content and banner management, and enhanced security—advancing the Prime Minister's vision for a unified digital government identity.







MINISTRY UPDATE

Symposium on Dam Safety Act, 2021: Towards Integrated Dam Safety Management- April 7, 2025

on'ble Union Minister Shri C.R. Paatil inaugurated a national symposium on the "Dam Safety Act, 2021: Towards Integrated Dam Safety Management" organized by the National Dam Safety Authority (NDSA) under the Ministry of Jal Shakti at SCOPE Convention Centre, New Delhi. The event emphasized integrated dam safety management and the collective responsibility of all stakeholders. Shri Paatil highlighted the structured safety framework brought by the Dam Safety Act, calling for dam safety to be seen as a commitment to public safety and national resilience. He also stressed the need for preventive measures as many dams in India are aging.

Hon'ble Minister of State for Jal Shakti, Dr. Raj Bhushan Choudhary, urged states to use risk-based tools, promote innovation, and adopt the DHARMA portal for dam data management. Key releases included the National Register of Specified Dams-2025 (listing 6,628 dams), Guidelines for O&M Manual for Ungated Dams, a Compendium on Dam Safety Regulations, and a National Strategy for Sustainable Dam Tourism.

Ms. Debashree Mukherjee, Secretary, DoWR, RD & GR, emphasized holistic and ground-level implementation of dam safety measures, warning against complacency especially in the face of climate change. Shri Anil Jain, Chairman, NDSA, described dams as lifelines for irrigation, power, and flood







Construction of Artificial Ground Water Recharge Structures in Rajasthan

Client: Central Ground Water Board

Location: Rajasthan (Jodhpur, Jaisalmer, Barmer,

Sikar, Alwar, Jhunjunu Districts)

Scope of Work:

Construction of Artificial Recharge Structures -154 Nos

Main Components:

Check Dam, Anicut, Recharge Shaft, Recharge Pond

Challenges Faced:

Remote and Scattered Site Locations, Tough Weather Conditions, Local hindrances.

Present Status:

135 Structures Completed







Project Management Consultancy Services for Construction of Integrated Directorate Complex, Guwahati, Assam

Client: Assam Public Works Department (Assam

PWD), Government of Assam.

Location: Betkuchi, Guwahati, Assam

Scope of Work:

- Detailed Planning, Monitoring, and Coordination with other department/agencies.
- Supervision of Work.
- Contract Management.
- Quality Assurance.
- Timely Engineering decision and approval thereof from Employer.
- Recording of Measurement/Bills.
- Assisting in arbitration & litigation cases and all other necessary steps/decision required for timely completion of Project.

Main Components:

- Integrated Directorate Building (2B + G +16)
- Builtup Area = 1,09,245 m²
- Canteen (1,157 m²)
- Dormitory Block (67 m².)
- Security (67 m²)
- Security Residence (88 m²)

Challenges Faced:

Obtaining local body approvals in the pre-construction stage.

Present Status:

- The construction of the Integrated Directorate Building is currently in progress. 40% physical progress has been achieved.
- Internal plastering of both towers, wall conduiting, slab Reinforcement work of 9th floor (Tower-1), 10th floor (Tower-1), 8th floor (Tower-2) are in progress.













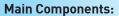


Construction of Union Bank of India's Building at IT Park, Dehradun

Client: Union Bank of India, Dehradun Location: Dehradun, Uttrakhand

Scope of Work:

- Preparation of drawings, instructions, orders issued to the Contractor from time to time during the entire period of execution.
- Obtaining necessary approvals including statutory approvals for any part of work which are required for the necessary completion of the project.
- All other necessary steps/decision required for timely completion of Project.



- Plinth Area: 2044 m²
- Floors: Basement + Ground + 2
- Branch Office, Currency Chest.
- Conference Room.
- Class rooms for training.
- Canteen & parking.
- Site development work.

Challenges Faced:

Obtaining local body approvals in the pre construction stage.

Present Status:

- The construction of the Union Bank Building is currently in progress. 78% physical progress has been achieved.
- Internal plaster work in basement floor, RCC Structure work of second floor roof slab, R.C.C structure work of Currency Chest, RCC structure work of Columns is completed in both the towers.
- UG tank work, internal plaster and painting works are in progress.









Construction of Girls Hostel at NIT Silchar, Assam

Client: National Institute of Technology (NIT), Silchar,

Assam

Location: Silchar, Assam

Scope of Work:

- Topographical Survey & soil Investigation.
- Preparation of detailed architectural drawings, detailed working drawings, structural design & drawings of Hostel Building & Dinning Hall, other required services.
- Electrical installations including all electrical fittings / fixtures, water supply pumps, submersible pump, de-watering pumps etc. HT and LT including emergency and backup supply, substation, DG set with AMF panel, HT Panel, LT panel, feeder pillars.
- Lightning protection and Earthing system, External Lighting.
- Site Development, Raising including filling of low lying area.
- Construction of Gate & Guard Room, Boundary Wall.
- Firefighting, fire detection works etc.

Main Components:

- Built-up Area: 3183 m²
- 150 Capacity Girls Hostel.
- Dining Hall.
- Boundary Wall.
- External development Works.

Challenges Faced:

Hindrance due to heavy rainfall.

Present Status:

- The Construction of Girls Hostel at NIT Silchar is currently in progress. Currently, 65% physical progress has been achieved.
- Structure work is completed and internal putty and tile work is in progress.









Atal Bhujal Yojana-Covering 7 States-80 Districts (Gujarat, Haryana, Karnataka, Maharashtra, Madhya Pradesh, Rajasthan and Uttar Pradesh)

Client: National Program Management Unit (NPMU), Department of Water Resources, RD &GR, Ministry of Jal Shakti, MTNL Building, CGO Complex, Lodhi Road, New Delhi

Location: 80 Districts of Gujarat, Haryana, Karnataka, Maharashtra, Madhya Pradesh, Rajasthan and Uttar Pradesh

Scope of Work:

WAPCOS has been engaged as National Technical Support Agency (NTSA) to support National Program Management Unit (NPMU), Department of Water Resources, RD &GR, Ministry of Jal Shakti For implementation of program in 7 states.

Main Components:

Providing domain experts as Technical and Management support in implementation of activities under Atal Bhujal Yojana.

Challenges Faced:

The Atal Bhujal Yojana program is aimed at community led ground water management at Gram Panchayat level. Hence community mobilization is

Program Impact and Accomplishments under Atal Bhujal Yojana





more than Rs
6000 Cr by th
States for
implementation
supply side &
demand side
measures

Construction of more than 68000 structures resulting in ground water recharge to the tune of 573.36 MCM

6.7 lakh Ha area covered under efficient water us practices & resulting in water saving of 1716 MCM. Overall water saving/ ground water recharge of

Adoption of various efficient water use & innovative agricultural practices by more than 7 lakh farmers







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Demonstration of innovative agriculture /irrigation practices



Karnataka-Chikkaballapura & Bengaluru rural

Crops- Pomegranate & Grape
Area covered- 6 Ha
Cost- Rs 49554 / System
Total cost- Rs 99,108
Pomegranate farmer-20 % water saving
Grape farmer-10 % water saving



Karnataka-Chikkaballapura & Bengaluru rural

Crops-Pomegranate & Grape Area covered- 6.4 Ha Cost- Rs 49500 /system Total cost- Rs 99,000 Recent installation



Rajasthan-Ajmer, Alwar, Chittorgarh ,Dausa, Jaipur, Jhalawar, Kota, Sawaimadhopur, Sikar

Total no of unit-17 Total cost- Rs 3.6 crore Area covered-31 Hectares

in the farm pond

Features- Polyhouse, Mulching, Drip, Farm pond with plastic lining, solar system Source of water is rainwater harvested from roof of polyhouse



Madhya Pradesh-Niwari, Sagar

Crops- Vegetable
Area- 4 Hectares
Features-Automatic pump controller, Automatic discharge measurement, water demand prediction & control based on soil moisture, overriding control by mobile app

आंकड़ों का सार्वजनिक प्रकटीकरण



भूजल विज्ञात संबंधी आंकड़ों का पोस्टर प्रस्तुतीकरण (राज्य: गुजरात)



सार्वजनिक बैठकों के दौरात डेटा का प्रसार (राज्य: दरियाणा)



सोशल मीडिया के माध्यम से डेटा का प्रसार (राज्य: महाराष्ट्र))



बाम पंचायत स्तर पर डेटा प्रकट करते के लिए डिस्प्ले बोर्ड लगाए गए (राज्य: कर्ताटक)



अटल जल रथ के दौरात डेटा का प्रसार (राज्य: मध्य प्रदेश)



आई.ई.सी. मटिरियल के माध्यम से डेटा का प्रसार (राज्य: राजस्थान)



Contd..

जल स्तर संकेतक के माध्यम से जल स्तर की निगरानी







जल गुणवता जांच











Contd..



क्षेत्र में जल प्रवाह मीटर स्थापित किए गए



Present Status:

The Water Security Plan for all 8203 Gram Panchayat prepared, more than Rs. 6000 crores has been spent through convergence on implementation of supply and demand side interventions.



THE MONTH AT A GLANCE

CMD WAPCOS & NPCC Welcomes New IAS Officers, Shares Organizational Insights – April 11, 2025

r. R. K. Agrawal, Chairman-cum-Managing Director of WAPCOS & NPCC, interacted with the newly inducted Assistant Secretaries (2023 Batch IAS officers) in the Department of Water Resources, River Development & Ganga Rejuvenation, Ministry of Jal Shakti. The officers included Mr. Akash A L (Tamil Nadu Cadre), Ms. Vevotolu Kezo and Mr. Yimkum I. Ozukum (Assam-Meghalaya Cadre), Ms. Aishwarya Dubey (Gujarat Cadre), and Ms.

Bollipalli Vinutna (Andhra Pradesh Cadre). The meeting, held in New Delhi, focused on familiarizing the officers with the roles, functioning, and ongoing operations of WAPCOS and NPCC. Senior officials present included Mr. Amitabh Tripathi, Director (Commercial & HRD), and Mr. Sanjay Sharma, Sr. GM (INFS-II) from WAPCOS, along with Mr. D. Mudgal, Executive Director (Projects), and Ms. D Baby, Head (PMC) from NPCC.







THE MONTH AT A GLANCE

Strategic Talks Held Between WAPCOS and Odisha Government on Energy Projects – April 15, 2025

r. R. K. Agrawal, Chairman-cum-Managing Director of WAPCOS, called on Mr. Kanak Vardhan Singh Deo, Hon'ble Deputy Chief Minister of Odisha and Minister of Agriculture, Farmers' Empowerment, and Energy. During the meeting, held in New Delhi, Mr. Agrawal briefed the Hon'ble Deputy Chief Minister on WAPCOS's ongoing and planned operations in Odisha, with a special focus on the accelerated development of Pumped Storage Projects in the state. The discussion underscored WAPCOS's

commitment to supporting Odisha's energy infrastructure and sustainability goals. Also present at the meeting were Mr. Vishal Kumar Dev, Principal Secretary (Energy), Government of Odisha, and senior WAPCOS officials including Mr. Amitabh Tripathi, Director (Commercial & HRD), Mr. Sanjay Singal, Sr. Executive Director, and Ms. P. Sumana, Sr. General Manager. The interaction emphasized strategic collaboration for advancing Odisha's renewable energy potential.





TECHNOLOGY & INNOVATIONS

Monolithic Concrete Construction Technology Aluminium Formwork System: MIVAN Technology

The Pradhan Mantri Awas Yojana (PMAY) is a flagship housing scheme launched by the Government of India on June 25, 2015, with the objective of providing affordable housing for all. The scheme is designed to support economically weaker sections of society by offering financial assistance and subsidies for housing. It promotes sustainable and inclusive urban and rural development through eco-friendly construction practices.

Key Components of PMAY

- In situ Slum Redevelopment
- Affordable Housing in Partnership
- Subsidy for beneficiary-led individual house construction or enhancement and
- Affordable Housing through Credit Linked Subsidy

Technology & Sustainability

- Encourages the use of pre-fabricated materials and alternative construction methods to ensure faster and cost-effective buildings.
- Promotes green construction technologies to reduce environmental impact.

"Sanjaynagar-Warasiya Integrated Group Housing Facility, Vadodara" is amongst biggest Integrated Group Housing Facility in India under PMAY which is being supervised by WAPCOS. Salient features of this project are given below: -

Salient Features:

- Carpet Area 92,000 m²
- Total Built Up Area 1,38,702 m²
- Dwelling Units 2944 Nos. (Per DU-31.25 Sq.mt)
- Club House
- Security Cabin
- Pump House
- Solar System
- Lift 84 nos. (per block 3 nos. Lift)
- Fire Fighting System

- Garden with children play area
- Pump house with UG Sump
- Water Supply & drainage
- Bore well & recharge well
- Road Network

Need of Alternative Construction Methods

The project is being implementing in slum-rehabilitation component in PMAY for total 2944 Dwelling Units which will rehabilitee more than 12,000 people at same place. So that, the adoption of alternative construction technologies is crucial for the success of integrated housing projects, ensuring affordability, sustainability and resilience. By leveraging these innovative methods, housing development can be faster, eco-friendly and more cost-effective, addressing the growing demand for urban housing efficiently.

Why Monolithic Concrete Construction Technology (MCCT) - MIVAN for This Project ?



- Faster Construction: MIVAN technology uses aluminum formwork, allowing monolithic construction (walls and slabs cast together), significantly reducing construction time. Can cut construction time by 30-50% compared to traditional methods.
- for brickwork and plastering, lowering labor and material costs. Minimal material wastage and better-quality control help in overall cost optimization.



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- High Structural Strength & Durability: Monolithic RCC (Reinforced Cement Concrete) structures provide better earthquake resistance, essential for urban slum rehabilitation projects. Leak-proof and crackresistant walls ensure long-term durability with minimal maintenance.
- Sustainability & Eco-Friendliness: Reduces construction waste due to precision-based formwork. Encourages green and energyefficient buildings by improving thermal insulation.
- Better Space Utilization & Aesthetics:
 Enables uniform, high-quality finish, reducing the need for interior plastering. Allows compact and efficient layouts, crucial for high-density housing projects.

Components of aluminum formwork



Minimum Specification and Properties of aluminum formwork

- Use Aluminum alloy 6061-T6, which has most suitable material properties for formwork manufacturing.
- Aluminum alloy 6061-T6, which is composed of Aluminum (Al), Copper (Cu), Silicon (Si), Magnesium (Mg), Zinc (Zn), Iron (Fe) and Chromium (Cr).
- Use extruded panel and section for Aluminum formwork system.

- Specific gravity: 2.7
- Allowable bending stress: 1250 Kg/cm²
- Young's modulus: 7 X 10⁵

Process of working

- Architectural Drawing, Structural Drawing, MEP Drawing
- Preparation of Shell Drawing i.e. Concrete Contact Area Drawing
- · Preparation of Modulation Drawing
- Preparation of Manufacturing Drawing
- Form work Production
- Mock-Up
- Packing and Transporting

Step-by-step Construction Process

1. Site Preparation & Layout Planning

Conduct site survey and set up construction layout.



Fabricate customized MIVAN formwork based on design requirements.

2. Assembly of Aluminum Formwork

The MIVAN formwork panels (walls, slabs, beams, and staircases) are brought to the site. The wall panels are erected first, followed by beam and slab panels. Pins and wedges are used to lock the panels together, ensuring stability. Formwork supports (props & ties) are fixed to maintain alignment.

3. Reinforcement Work

Steel reinforcements (rebars) are placed within the



formwork. Electrical and plumbing conduits are pre-installed within the structure before pouring concrete.



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4. Concrete Pouring

High-quality ready-mix concrete (RMC) is poured into the formwork. Concrete is vibrated to remove air pockets, ensuring dense and strong walls & slabs.

5. De-shuttering (Removal of Formwork)



After 24-48 hours, the vertical wall formwork is removed. Slab formwork is removed after 7-10 days, depending on curing conditions.

6. Curing Process

Water curing is done to ensure strength and prevent cracks. The structure is left to achieve full strength as per design specifications.

7. Finishing Works

Minimal plastering is needed as MIVAN concrete walls have a smooth finish. Windows, doors, electrical fittings, and painting are completed.

Conclusion

By Incorporating MIVAN technology in the PMAY-U slum rehabilitation project, faster construction, cost efficiency, structural integrity and sustainability can be achieved. This modern construction method serves as a model for future affordable housing projects in India, ensuring that urban slum dwellers receive safe, durable and well-planned homes in a shorter timeframe.



Mukesh Vaghela Sr. Engineer Vadodara, Gujarat



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 Presenters who made presentations and shared their valuable experiences and expertise called as "Star Presenters".

PRESENTERS OF PAPM 14



Rajesh Laddha, Chief Engineer-II / Project Manager

Project Supervision Consultancy for S.R Scheme in Mumbai (Package-II and Package-III), Mumbai



Abhilash C P, Additional Chief Engineer

One Stop Border Post, Mandimba, Mozambique



Reshu Verma Deputy Chief Engineer

Feasibility Studies and Preliminary Engineering Designs for the Improvement of Kalemie and Moba Ports along Lake Tanganyika, D R Congo



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 April, 2025

CONSULTANCY SEGMENT

Turnover



Shri Ankit Mittal, Engineer, Panchkula INFS-II

New Business



Shri Adarsh Kumar S, Additional Chief Engineer, INFS-IV

Payment Realization



Shri Supravata Sahoo, Engineer, T&D Unit Power Division

CONSTRUCTION SEGMENT

Turnover



Shri Prateek Tyagi,

JLE (Civil),

CMU-III

New Business



Shri Rahul Kumar Sharma, Deputy Chief Engineer (Civil) INFS-IV

WAPCOS OPERATIONS ABROAD: FOOTPRINTS IN OVER 75 COUNTRIES





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