

SHAKTI SAMACHAR

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Powering Progress with Intelligence: Odisha's Smart Grid Transformation

Odisha Power Transmission Corporation Limited (OPTCL) is spearheading a major transformation of the state's power network through digitalisation, automation, and renewable energy integration. Aligned with Vision 2047 and the Smart National Grid Mission, these efforts aim to create a modern, reliable, and green transmission system.

Driving Digital Transformation: OPTCL is modernising old substations with Substation Automation Systems (SAS) for SCADA-based operations, while State Transmission Asset Management System (STAMS) enables remote monitoring and AI-assisted asset management. Tools like Automated Fault Analysis System (AFAS) and Remote Accessibility System (RAS) help detect faults faster, improving restoration time and reliability.

Smart Maintenance & Efficiency: Advanced maintenance methods such as thermovision scanning, drone inspections, and OLAMP mobile app patrolling are enhancing grid reliability. With AI-based predictive maintenance, digital twins, and smart sensors, OPTCL is moving toward a proactive maintenance culture. Implementation of Automatic Demand Management System (ADMS), Advanced Metering Infrastructure (AMI), and energy audits ensure transparency and efficiency across the network.

Resilient and Future-Ready Infrastructure: To strengthen system reliability, OPTCL is augmenting substation capacities, replacing old conductors with HTLS conductors, and installing bus reactors for reactive power support. In cyclone-prone regions, Disaster Resilient Power Systems (DRPS) with wind zone-6 towers, monopoles, and underground cabling are enhancing resilience. Dedicated Emergency Restoration Systems (ERS) enable rapid restoration during calamities, as seen after Cyclone FANI.

Policy & Program Support: New frameworks like the OERC Renewable Energy Banking Regulations, 2023, and the Odisha Transmission System Strengthening Programme (OTSSP) ensure grid stability while supporting renewable energy growth. Schemes like the Low Voltage Mitigation Scheme (LVMS) and Power System Development Fund (PSDF) are improving voltage profiles and funding critical automation and communication upgrades.

A Greener, Smarter Future: OPTCL's modernization initiatives balance renewable integration with grid security. Future plans include phased enhancement of RE banking capacity, full automation of all substations by 2030, expansion of AI and IoT-based systems, and strengthening of green energy corridors. Through innovation, policy alignment, and resilience, OPTCL is redefining **Odisha's power transmission landscape—ensuring reliable, affordable, and sustainable energy for the future.**

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CMD's MESSAGE

OPTCL continues to move forward with renewed energy and a collective vision of excellence - strengthening Odisha's power transmission network while nurturing a culture of wellness, safety, and innovation. The inauguration of the OPTCL Sports Arena marks a significant step toward promoting fitness and camaraderie among our employees, reflecting our belief that a healthy workforce drives organizational success. At the same time, our pioneering initiatives - from commissioning the state's first digital grid substation at Agalpur to advancing fire safety training, gender sensitization programs, and health awareness campaigns - reaffirm our holistic approach to growth and development. As we advance toward achieving Odisha's ambitious power goals, I extend my heartfelt appreciation to every member of the OPTCL family for their dedication and teamwork. Together, let us continue to power progress - with commitment, innovation, and unity.

Sri Bhaskar Sarma, IAS
Chairman-cum-Managing Director



A Step Towards Fitness, Energy & Togetherness !

OPTCL Inaugurates State-of-the-Art Sports Enclave to Boost Employee Wellness and Community Fitness in Bhubaneswar

Bhubaneswar, Odisha – October 24, 2025: Odisha Power Transmission Corporation Limited (OPTCL) has taken a major step towards fostering employee well-being and community engagement with the inauguration of its “OPTCL Sports Arena” — a modern, multi-sport facility at Bhoi Nagar, Unit 9, Bhubaneswar.

The foundation stone for this landmark project was laid on October 23, 2025, by Shri Kanak Vardhan Singh Deo, Hon'ble Deputy Chief Minister of Odisha for Energy and Agriculture & Farmers' Empowerment, in the presence of Shri



Suryabanshi Suraj, Hon'ble Minister for Sports & Youth Services, Higher Education, and Odia Language, Literature & Culture, Shri Vishal Kumar Dev, IAS, Principal Secretary to Government, Energy and Electronics & Information Technology Department, Shri Bhaskar Sarma, IAS, Chairman-cum-Managing Director, OPTCL along with senior officials and dignitaries from Odisha power fraternity. The Rs. 15 crore project will transform the OPTCL Colony at Bhoi Nagar, into a comprehensive sports enclave equipped with world-class facilities such as badminton, tennis, volleyball, swimming (Olympic standard). This will also have a jogging track, green areas, Gymnasium and comfortable seating arrangements for recreation and fitness.



Speaking on the occasion, Shri Singh Deo, Deputy Chief Minister, said:

“The OPTCL Sports Arena symbolizes our dedication to nurturing the holistic well-being of employees working in Odisha power sector while extending the benefits to the larger community. This initiative reinforces our belief that a healthy workforce is the foundation of a productive and motivated organization.”

OPTCL, a key pillar of Odisha's power sector, continues to strengthen the state's transmission network while promoting employee welfare and work-life balance. The new Sports Arena stands as a testament to OPTCL's commitment to building a healthy, active, and community-oriented workplace ecosystem.

While OPTCL celebrates this step toward well-being, it's equally important to recognize the innovation OPTCL continues to bring into the transmission sector. Some pioneering concepts have already been implemented.

OPTCL today is not just a utility — it's a symbol of transformation and forward-thinking. With a dedicated team of around 2700 employees and support to over 300 families in this colony, the organisation is setting new benchmarks — not just in power infrastructure, but in holistic development.

Commitment to Safety

Bhubaneswar/31.10.25: OPTCL continues to give strong thrust to safety, particularly fire safety, recognizing it as a critical mandate in the hazardous transmission industry. Enhanced safety training, rigorous drills, and regular upskilling reflect OPTCL's ongoing commitment to protecting the workforce and its vital infrastructure.

The three-day Fire Safety Training for Technicians at OPTCL concluded successfully on October 30th, 2025, with a valedictory session graced by Shri P.K. Pattnaik, Director (Operation), as Chief Guest, accompanied by Shri Dilip Mohanty, CGM (Safety), OPTCL, and Shri Satyapir Behera, Principal, Odisha Fire & Disaster Response Academy. The program, inaugurated by Shri Dilip Mohanty, highlighted the importance of fire safety for personnel in the transmission sector—a field inherently prone to hazards and safety challenges due to the nature of high-voltage infrastructure.

Training Highlights

- Technicians participated in a meticulously structured schedule blending theory and hands-on sessions.
- Concept of Fire and health hazards associated with fire accidents.
- Hose laying and coiling practice.
- Use, care, and maintenance of fire extinguishers and firefighting appliances.
- Breathing apparatus operation and smoke management procedures.
- Live firefighting drills and rescue operations simulating real-life emergencies.
- Practical exposure to fixed fire fighting installations and systems dedicated to electricity, oil, and gas hazards
- Familiarization with firefighting equipment and appliances used in OPTCL's operations.



Pledge for Unity

Bhubaneswar/31.10.25: Employees of OPTCL HQRS Office as well as field units came together to solemnly take the National Unity Day pledge, reaffirming their collective commitment to the ideals of unity, integrity, and harmony. National Unity Day is observed every year on October 31 to commemorate the birth anniversary of Sardar Vallabhbhai Patel, whose efforts were instrumental in uniting the nation after independence.



Employees of various O&M Zones taking the pledge



National
Unity Day



Training on Gender Sensitization and POSH

Burla/29.10.25: OPTCL Western (O&M) Zone, Burla successfully conducted a two-day training program on Gender Sensitization and POSH in collaboration with Tanvi Consultancy Services Pvt. Ltd. on 27th and 28th October 2025. The program was chaired by Sri Pradip Kumar Sahu, SGM (EL), Western (O&M) Zone, Burla.

Sri Ram Kishor Sharma, the Resource Person, delivered insightful sessions to a total of 60 participants, consisting of both executives and non-executives. The training focused on the key provisions of the POSH Act, 2013 and emphasised the importance of creating a safe, dignified, and inclusive workplace.



Berhampur/25.09.25: OPTCL Southern (O&M), Zone, Berhampur had organized a two day training program on "Gender Sensitization and POSH" in collaboration with Tanvi Consultancy Services PVT Ltd on dated 23.09.2025 and 24.09.2025. . Inaugurating the program on 23.09.2025, Senior General Manager (Electrical) Sri Damodar Prasad Patra emphasized the need to get acquainted with relevant provisions of "POSH Act" and reiterated the OPTCL's "Zero tolerance policy for sexual harassment at workplace". Quoting from the mantra "Asato mā sadgamaya, Tamasomā jyotir gamaya, mriyormā amrtam gamaya as contained in upanishada, AGM(HRD) Sri K Sundar Jayram explained how training represents a journey from ignorance to wisdom(Tamasomā jyotir gamaya).The training program was attended by 60(Sixty) number of participants over a period of two days consisting of both executives and non-executives. The training program was well received by all the participants.



New Energy & New Beginnings !

Induction cum Orientation Training Program for Junior Management Trainees (Electrical)

Bhubaneswar/27.10.25: the Induction cum Orientation Training Program for Junior Management Trainees (Electrical) – 2025 lit up the Power Training Centre, Chandaka, with energy, enthusiasm, and fresh aspirations.

Our Chief Guest, Sri Bhaskar Sarma, IAS, CMD OPTCL, graced the occasion in the august presence of Sri Bhadresh Bachubhai Mehta, Director (SLDC), Sri Srikanta Kumar Sahoo, Director (Finance) & other senior officers. The ceremony began with a heartfelt welcome address by Smt. Anita Mohapatra, CGM (HRD), who extended warm wishes to our 60 bright Junior Management Trainee (Electrical) participants — the future torchbearers of Odisha's power sector.

The event concluded with inspiring closing remarks by Sri Dillip Kumar Jena, GM (PTC), encouraging the young professionals to uphold the values of learning, leadership, and innovation.



For Management Trainees (Electrical)

Bhubaneswar/13.08.25: The Induction cum Orientation Training Program for Management Trainees (Electrical)-2025 lit up the Power Training Centre, Chandaka with energy, enthusiasm, and fresh aspirations. Our Chief Guest, Sri Bhaskar Sarma, IAS, CMD OPTCL, proudly unveiled the Training Calendar 2025-26 and officially launched the state-of-the-art PTC website, in the august presence of our visionary Functional Directors: Sri Bhadresh Bachubhai Mehta, Director (SLDC), Sri Pradeep Kumar Dash – Director (Projects), Sri Prasanta Kumar Pattanaik, Director (Operation), Sri Srikanta Kumar Sahoo, Director (Finance). The ceremony began with a heartfelt welcome by Smt. Anita Mohapatra, Senior General Manager (HRD), to the dignitaries and our 46 bright MT (Electrical) trainees – the future torchbearers of Odisha's power sector. The event concluded with inspiring closing remarks by Sri Dillip Kumar Jena, GM (PTC).



OPTCL's 'Grow Green Cafeteria Eating Well, Living Green

Bhubaneswar/27.10.25: OPTCL's 'Grow Green Cafeteria' was inaugurated on 27th October at the Tech Tower!

A refreshing step towards promoting healthy living and sustainability within the workplace. Through this initiative, OPTCL is encouraging employees to adopt nutritious eating habits by offering balanced meal options, locally sourced ingredients, and minimizing processed foods. The cafeteria also promotes eco-friendly practices through reduced plastic usage and a focus on fresh, wholesome meals that support both health and the environment.



Vigilance Awareness Week



Bhubaneswar/24.04.25: On the occasion of Vigilance Awareness Week 2025, an Integrity Pledge was administered at OPTCL. Officers and employees of the organization took the pledge to continuously strive towards eradicating corruption and to perform their duties with honesty, transparency, and integrity.

Empowering Health, Empowering Lives!

Bhubaneswar/08.10.25: OPTCL (Odisha Power Transmission Corporation Limited) organized a Diabetes & General Health Awareness Programme on 8th October 2025 in Bhubaneswar at the Power Community Centre. The event was held in association with Dr. Mohan's Diabetes Specialities Centre, aiming to promote health awareness among employees and the broader community. This initiative reflects OPTCL's ongoing efforts to support workplace wellness and preventive healthcare. The programme was publicized across social media platforms, encouraging participants to take steps toward a healthier tomorrow and reinforcing the importance of early awareness and management of diabetes and related health conditions.

More than 200 employees and their family members availed the benefits of various health check-up facilities, which included Blood Sugar (Postprandial/Random) testing, Body Mass Index (BMI) measurement, Blood Pressure check, Diabetic Foot Examination, Dietician Consultation, Dental Consultation, Eye Check-up, Pulmonary Function Test (PFT) with Pulmonologist Consultation, and Audiometry (Hearing) Test. These screenings and consultations aimed to promote overall wellness, encourage preventive healthcare practices, and ensure early detection of potential health issues among participants



Ek Ped Maa Ke Naam 2.0

Bhubaneswar/17.09.25: At OPTCL, the spirit of green commitment grew stronger as our Director (Operation), Director (Finance), CGM (Finance), CGM (HRD) and DGM (HRD)-CR joined employees in a heartfelt plantation drive. Each sapling was dedicated to our mothers and to Mother Earth — nurturing hope for a cleaner, healthier tomorrow.



Tutorial on basic control and indication circuit

Bhubaneswar/25.09.25: A training program was successfully conducted on 24.09.2025 by E&MR Division Burla at 132 KV GSS Bargarh Grid on the topic "Tutorial on basic control and indication circuit"



OPTCL Celebrates Viswakarma Puja

Bhubaneswar/17.09.25: On the auspicious occasion of Viswakarma Puja, OPTCL family came together at our Headquarters to offer prayers to Lord Viswakarma – the divine architect and engineer of the universe.



Celebrating Ganesh Puja

Bhubaneswar/27.08.25: Celebrating Ganesh Puja at OPTCL HQ with devotion and unity, seeking the blessings of Lord Ganesh for a year filled with success and prosperity.



Odisha's First Digital Grid Substation Inaugurated at Agalpur, Rampur

Bolangir/17.09.25: It is a watershed moment Energy sector in India. As a part of our continuous effort for strengthening Odisha's power infrastructure, Hon'ble Deputy Chief Minister of Odisha inaugurated the state's first-ever digital substation, the 2X20 MVA, 132/33 KV Grid Substation at Agalpur, Rampur on 17th September. This cutting-edge facility marks a transformative leap in the modernization and digitalization of the state's power transmission



network. No other state has so far commissioned such a digital substation in India till now.

Constructed at an estimated cost of Rs. 35.06 Cr, the project includes the installation of 2 x 20 MVA power transformers, five 132KV bays, eight 33KV bays, and a 1.5 km 132 KV LILO line with nine towers. The substation is strategically located in Rampur, covering an area of 15 acres, and is well-connected to critical transport nodes including NH-26 and Loisingha Railway Station.

This landmark achievement would not have been possible without the visionary leadership and unwavering support of the Hon'ble Deputy Chief Minister and Minister of Energy, whose commitment to transforming Odisha's power sector continues to inspire progress.

"I also extend our heartfelt gratitude to the entire OPTCL team — from engineers and field staff to planners and project managers — whose dedication and expertise turned this vision into reality." Sri Deo said.

This digital substation — the first of its kind by any State Transmission Utility (STU) in India — has been developed by M/s Empowertrans Private Limited and successfully commissioned on 22.08.2025, well within the stipulated contract duration of 24 months.

The Agalpur Grid Substation will directly benefit several key areas including Agalpur, Salebhata, Cherupali, Loisingha, Jogisurda, Bharsuja, and Bhadra, by providing enhanced power reliability, reduced outages, and improved voltage profiles. This will not only support residential and commercial consumers but also catalyze socio-economic development in the region.

As a fully digital substation, Agalpur features a process bus system that leverages digital sensors, fiber optic communication, and intelligent automation to convert analog signals into digital data for real-time analysis and control. The benefits include:

1. Faster response. About 10 milliseconds are saved. This is vital under certain fault conditions for safety of downstream equipment/ load and also for the transmission network.
2. Improved operational reliability and reduced downtime
3. Seamless integration with smart grid systems
4. Advanced real-time monitoring and automation
5. Compact design and reduced physical footprint
6. Greater safety and data-driven maintenance strategies

Celebrating Engineer's Day

Bhubaneswar/15.09.25: OPTCL proudly celebrated Engineer's Day, commemorating the birth anniversary of the legendary Sir M. Visvesvaraya. The event featured a special felicitation ceremony honouring the Best Engineer Awardees and the Best Paper Presentation, serving as a heartfelt tribute to Sir M. Visvesvaraya's remarkable legacy. Sri Bhaskar Sarma, IAS, CMD, OPTCL, graced the occasion as the Chief Guest. Distinguished attendees included Shri B.B. Mehta, Director (SLDC); Shri Pradeep Kumar Dash, Director (Project); Shri Prasanta Kumar Pattnaik, Director (Operation); and Smt. Anita Mohapatra, CGM (HRD).



Celebrating 79th Independence Day

Bhubaneswar/15.08.25: Sri Bhaskar Sarma, IAS, CMD OPTCL, hoisting the National Flag on the occasion of the 79th Independence Day.



Annual Health Check-up at Western Zone, Burla

Burla/17.09.25: OPTCL, Western Zone, Burla has successfully inaugurated the Annual Health Check-up Scheme in collaboration with ND Clinic & Diagnostics, Bhatli Chowk, Bargarh. The program was graced by the presence of Dr. Nishant Debta from ND Clinic & Diagnostics, Sri Sankarsan Sahoo, GM (Finance), and Sri Sanatan Pradhan, DGM (Electrical), E.H.T (O&M) Division, Barpali.

This initiative marks a significant step towards promoting preventive healthcare, ensuring early detection of health issues, and fostering a healthier and happier workplace for all employees. Through this tie-up, field units can now conveniently undergo their health check-ups at their respective localities without needing to travel to the state capital.

OPTCL continues to give strong thrust to the health and well-being of its workforce by facilitating accessible, regular, and quality healthcare initiatives across its operational zones



18th Odisha Grid Coordination Meeting

Bhubaneswar/03.09.25: 18th Odisha Grid Coordination Meeting was successfully conducted at PTC, Chandaka today in the esteemed presence of Shri Bhaskar Sarma, IAS, CMD, OPTCL, Shri B. B. Mehta, Director (SLDC), Shri Prasanta Kumar Pattanaik, Director (Operation) and Shri Dillip Kumar Mohanty, CGM (Safety). Members from different constituents such as OPGC, NALCO, OHPC, ERLDC, PGCIL, EIC-cum-PCEI, TPCODL, TPNODL, TPSODL & TPWODL, along with senior officials from OPTCL, GRIDCO & SLDC participated in the meeting.



230th OCC Meeting of ERPC at OPTCL Power Training Centre

Bhubaneswar/22.08.25: The 230th OCC Meeting of the Eastern Regional Power Committee was held at the Power Training Centre, Chandaka on 22nd August 2025. The meeting was graced by the presence of Sri Bhaskar Sarma, IAS, CMD OPTCL, Sri Bhadrash Bachubhai Mehta, Director (SLDC), OPTCL, Member Secretary ERPC and ED ERLDC. Senior officials from PGCIL, BSPHCL, OHPC, GMR, OPGC, WBSSEDCL, WBPDC, SLDC WBSSETCL, SLDC BSPTCL, CESC and SLDC DVC also participated. The deliberations focused on strengthening regional power coordination and ensuring reliable and efficient power system operations in Eastern India.



Chief Secretary Reviews OPTCL's Progress and Future Roadmap

Bhubaneswar/12.08.25: Shri Manoj Ahuja, IAS, Chief Secretary, Govt. of Odisha, chaired a review meeting of OPTCL. Shri Bhaskar Sarma, IAS, CMD, along with Directors and senior officials, were present to discuss progress and future strategies for strengthening Odisha's power transmission network. Chief Secretary, Shri Ahuja assured to extend all financial and administrative support from the state government to OPTCL for ensuring expeditious transmission infrastructure growth in the state.









(A Government of Odisha Undertaking)

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