



MONTHLY REPORT

JANUARY

2026

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Monthly Summary



During January 2026, Hoshang Patel Technical Centre (HPTC) focused on skill development, institutional support, and system maintenance through solar training programs, support for initial solar panel production at Rajashree Saho Tech Centre (NIT, Kolhapur), and deep maintenance of on-grid solar plants. The centre also advanced R&D on off-grid container-based CSC solutions and promoted awareness of the Suryam Purna Solar Scheme, reinforcing its commitment to renewable energy and rural development.

Monthly Objectives:

- Strengthen skill development initiatives by delivering structured solar training programs focused on streetlight installation, on-grid solar systems, and energy conservation practices.
- Completion of an industrial solar training program for Jaguar Academy.
- Initiate decentralized solar manufacturing by enabling the first batch of solar panel production under institutional ownership with technical guidance and quality oversight.
- Continued R&D on innovative, cost-effective solar streetlight systems and accessories
- These activities further strengthen HPTC's commitment to renewable energy education, rural empowerment, and technology innovation.

Kolhapur, Maharashtra

Collaborative Institutional Support Initiative

Rajashree Saho Tech Centre – Solar Production Setup Support

Host Institute & Owner: New Institute of Technology (NIT), Kolhapur

Technical Support Partner: Hoshang Patel Technical Centre (HPTC)

Date of Preliminary Visit: 7th January 2026



Completed Work:

Hoshang Patel Technical Centre (HPTC) provided technical and operational support to the New Institute of Technology (NIT), Kolhapur, for the establishment of Rajashree Saho Tech Centre, a solar production and operations facility owned and managed by NIT. HPTC's role in this initiative is that of a supporting and mentoring technical partner, assisting in infrastructure planning, installation guidance, and production readiness.

Production Highlights:

- Successful completion of the first batch of solar panel production
- Implementation of standard production and assembly practices
- Verification of electrical connections and basic performance checks
- Establishment of a structured workflow for future production batches
- Hands-on exposure for institute staff and students in real manufacturing activity

Outcome & Impact:

- Rajashree Saho Tech Centre transitioned from setup phase to active production
- NIT achieved initial self-reliant solar manufacturing capability
- Created a strong foundation for regular production, training, and skill development
- Strengthened collaboration between NIT and HPTC through practical execution
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Khed. Ratnagiri

Operations & Maintenance Activity



Deep Clean Maintenance of On-Grid Solar Power Systems

- Locations: Gharda Institute of Technology (GIT) Campus & Gharda Hospital
- Month: January 2026
- Hoshang Patel Technical Centre (HPTC) carried out deep clean maintenance activities for existing on-grid solar power systems installed at the Gharda Institute of Technology (GIT) premises and Gharda Hospital solar plants. The maintenance activity was undertaken to ensure optimal system performance, improved energy generation, and long-term reliability of the installed solar assets.
- As a result of the maintenance work, the solar systems achieved improved operating condition, enhanced reliability, and better expected energy output, thereby extending the service life of the installed infrastructure. This activity ensured uninterrupted power generation for educational and healthcare facilities and reflects HPTC's commitment to responsible asset management and sustainable operation of critical renewable energy assets.

Nashik

Student / Individual Training Program



Training Program for Jaguars Academy, Nashik

- Hoshang Patel Technical Centre (HPTC) conducted a three-day hands-on solar training program for individuals from Jaguars Academy, Nashik, with the objective of building foundational technical skills in solar energy systems and energy conservation. The program was designed to provide practical exposure along with conceptual clarity, enabling participants to understand real-world solar installations and sustainable energy practices.
- This training program reflects HPTC's continued commitment to capacity building and skill development in renewable energy technologies. By engaging individuals from training academies, HPTC is contributing to the creation of a skilled workforce capable of supporting India's clean energy transition.

Khed. Ratnagiri

Research & Development Activity



Development Plan of Off-Grid Container-Based CSC Centres for Rural Areas

- Hoshang Patel Technical Centre (HPTC) carried out focused research and development on the design of an off-grid, container-based Common Service Centre (CSC) intended for deployment in rural and remote areas. The initiative focuses on developing a self-sustained, renewable-energy-powered infrastructure by integrating solar power generation, energy storage, and off-grid inverter systems into a modular, transportable, and scalable container unit designed for reliable operation in low- or no-grid regions.
- The proposed CSC model aims to support digital services, e-governance, community education, banking, telemedicine, and emergency response while reducing dependence on diesel generators. By emphasizing low-cost, durable, and easy-to-maintain systems, this R&D activity promotes renewable energy-based rural infrastructure and digital inclusion. The concept aligns with HPTC's long-term vision of combining practical engineering solutions with rural development and provides a strong foundation for future pilot deployments through government and CSR partnerships.

Khed. Ratnagiri

Continuous Research & Development Activities



- Exploration of low-power solar lighting circuit optimization for improved battery backup.
- Developed modular design concepts for container-based off-grid solar systems to enable faster deployment and scalability in rural areas.
- Improvement of pole folding mechanisms for ease of maintenance
- Development of training demonstration kits for solar-energy education.
- Innovative casing and smart structural design
- Evaluate and socialize latest Gov scheme
- Enter into final Stage in prototyping of pest trap .
- Awareness & Study of Suryam Purna Solar Scheme (₹2,500 per 1 kW).



Awareness & Study of Suryam Purna Solar Scheme (₹ 2,500 per 1 kW)

- Studied the Suryam Purna Solar Scheme, which provides ₹2,500 financial assistance per 1 kW of rooftop solar installation, with a focus on eligibility criteria, application requirements, and implementation guidelines.
- Reviewed eligibility conditions under the scheme, which include:
 - Applicant must be a domestic electricity consumer
 - Annual electricity consumption must not exceed 100 units
 - Applicant must be a Below Poverty Line (BPL) card holder
 - Valid electricity connection in the applicant's name
 - Availability of adequate shadow-free rooftop space for solar installation
- Examined technical and procedural requirements such as installation through approved vendors, use of MNRE-compliant components, adherence to grid connectivity norms, and submission of mandatory documents including electricity bills, BPL card, identity proof, and bank details.
- Evaluated the scheme's potential to reduce energy expenses for low-income households while promoting decentralized renewable energy generation.
- Identified opportunities for community awareness, beneficiary guidance, and technical support, enabling eligible consumers to successfully apply for and benefit from the Suryam Purna Solar Scheme.

Conclusion



- January 2026 represented a significant step forward for Hoshang Patel Technical Centre (HPTC) in strengthening its role as a practical, impact-driven renewable energy organization. The month witnessed meaningful progress across multiple domains, including skill development through structured solar training programs, institutional collaboration through technical support to Rajashree Saho Tech Centre at New Institute of Technology (NIT), Kolhapur, and the successful initiation of solar panel production.
- In addition, HPTC ensured the reliable performance of existing solar assets by carrying out deep maintenance of on-grid solar plants at educational and healthcare facilities. Parallely, focused research and development on off-grid container-based CSC centres and awareness of the Suryam Purna Solar Scheme highlighted HPTC's commitment to rural development, energy access, and inclusive growth. Collectively, these efforts demonstrate HPTC's continued focus on sustainable infrastructure, capacity building, and scalable renewable energy solutions aligned with long-term social and environmental goals.
- Looking ahead, HPTC will continue to focus on improving product designs, expanding training activities, and strengthening documentation and field implementation work. With continued learning and collaboration, the centre aims to promote locally developed technology solutions that support rural development and renewable-energy adoption.