



LEGRAND and BHAGWATI HOSPITAL

LEGRAND'S ENERGY EFFICIENT SOLUTIONS: MODERNIZING BHAGWATI HOSPITAL FOR ENHANCED HEALTHCARE

Bhagwati Hospital, a 490-bed facility in Borivali, Mumbai, is being developed by the Brihanmumbai Municipal Corporation (BMC) to cater to the rapidly growing population of the western suburbs. Legrand has stepped in to provide an energy-efficient, reliable, and comprehensive electrical solution to support the hospital's mission of offering high-quality, affordable medical services without compromising on cost or aesthetics. This collaboration aims to ensure uninterrupted critical medical services with advanced infrastructure tailored to meet the unique needs of this state-of-the-art facility.



Challenges

The hospital's existing power systems were prone to frequent outages, compromising critical medical equipment and patient care. Additionally, the lack of advanced digital infrastructure hindered effective communication and data management, leading to inefficiencies in hospital operations. The advancement of modern user interface (UI) solutions was required for the management of hospital resources and patient information.



Legrand's Solution

Legrand stepped in to provide a holistic solution tailored to meet Bhagwati Hospital's unique needs. The solution encompassed several key components:

Protection: Implementation of Uninterruptible Power Supply (UPS) systems and outlets to ensure the safety and reliability of the hospital's electrical infrastructure.

UI/Power: Installation of trunking units and call systems for efficient power and communication solutions.

Digital Building Infrastructure: Deployment of Category 6A cabling and cable trays to support the modern healthcare technology infrastructure.



Implementation

The project was executed with clear planning, effective communication and alignment with the brand's business objectives. Progress tracking ensured timely and efficient implementation.

- Conducting thorough analysis and metrics evaluation to understand the specific requirements and challenges faced by the hospital. This process included detailed assessments of energy consumption patterns, infrastructure limitations, and safety concerns.
- Customizing the solution to ensure it met the hospital's needs for safety, reliability, and efficiency, including the use of Distribution Boards (DBs) for organized power distribution, Miniature Circuit Breakers (MCBs) for enhanced protection and reliability, and copper cabling for superior performance and efficiency.
- Ensuring seamless integration of the protection, power, and digital infrastructure components, such as plates and outlets for enhanced hygiene, call systems for efficient communication, and cable trays for robust data communication.

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Specific Products Used

The products used in this project included:

Reactive Power Compensation Systems: Advanced protection systems to safeguard the hospital's electrical infrastructure.

User Interface Solutions: Efficient and reliable power solutions.

Digital Building Infrastructure: Cutting-edge digital infrastructure to support the hospital's technological needs.

Ensuring Compliance and Safety

Legrand ensured that all relevant test certificates and data sheets were provided to meet stringent compliance and safety standards. Our commitment to quality and safety was paramount throughout the project, guaranteeing that every aspect of the solution adhered to industry regulations and instilled confidence in the hospital's staff and stakeholders.

Conclusion

Legrand's innovations at Bhagwati Hospital was pivotal in addressing downtime avoidance, cost optimization, and future-ready scalability. By implementing protection systems and advanced power management measures, Legrand ensured the hospital's critical medical services remained uninterrupted, significantly reducing downtime and enhancing patient care. The deployment of efficient power solutions and modern digital infrastructure, including cabling, optimized operational costs by improving energy efficiency and streamlining communication systems. Furthermore, Legrand's comprehensive approach, which included scalable infrastructure components, positioned Bhagwati Hospital to seamlessly adapt to future technological advancements and growing healthcare demands.