SUNBEAM GENERATORS PVT. LTD.

PROJECT CASE STUDY REPORT

Reliable Power & Project and Technical Solutions | Authorized GOEM of Kirloskar Diesel Generator Sets

1. PROJECT OVERVIEW

Project	ICFAI
Customer	M/s Horizon Infra Projects Ltd
Location	Hyderabad
Application	Backup Power for entire college & Residential blocks.
Generator Capacity	1500 kVA
Quantity	2 No's
DG Set Model	12K4300 E2
Scope	Supply / Installation / Commissioning / Testing of 2 No's of 1500 kVA DG Set with 30Mtr Exhaust stack & Fuel piping works.
Project Completion	2026

2. CUSTOMER REQUIREMENT / PROJECT CHALLENGE

The customer required a reliable power backup solution along with comprehensive project execution support to ensure seamless operations and timely completion of the project.

One of the major challenges was the shifting, lifting, and precise positioning of the 30-metre-high exhaust stack due to space constraints at the site. This required meticulous planning, coordination, and execution to ensure safe installation within the available space and in line with the project schedule.

Additionally, the entire campus was occupied with large trees, and as per the Vice-Chancellor's (VC) specific instructions, all project activities had to be executed without causing any damage to the existing trees or surrounding greenery.

Considering the operational requirements of the college, the execution activities were also required to be carried out during night hours to avoid disruption to regular academic activities. These constraints demanded effective resource planning, close coordination with the customer, and precise execution to complete the project safely and within the committed timeline.

3. PROPOSED SOLUTION

To address the customer's requirements and overcome the site-specific challenges, Sunbeam Generators Pvt. Ltd., as the OEM of Kirloskar DG Sets, developed and implemented a customised project execution plan with a strong focus on safety, precision, and timely completion.

The proposed solution included:

- **Customised Installation Planning:** Conducted detailed site assessments and developed a systematic execution plan for shifting, lifting, and positioning the 30-metre-high exhaust stack within the available space.
- **Specialised Lifting & Positioning:** Deployed suitable lifting equipment, skilled manpower, and proper rigging arrangements to ensure safe handling and precise positioning of the exhaust stack.
- **Tree & Greenery Protection:** Carefully planned the movement of DG sets, materials, machinery, and manpower to avoid any damage to the existing trees and greenery, strictly adhering to the Vice-Chancellor's instructions.

- **Night-Time Execution:** Strategically scheduled critical installation and shifting activities during night hours to avoid disturbance to regular college activities and ensure smooth campus operations.
- **Coordinated Project Execution:** Ensured continuous coordination among the customer, project team, and execution agencies for effective resource mobilisation, site readiness, and resolution of execution challenges.
- **Safety & Quality Assurance:** Implemented necessary safety precautions and monitored each stage of installation to ensure compliance with project specifications and safety requirements.

Through meticulous planning, effective coordination, and a customer-centric execution approach, Sunbeam successfully addressed the challenging site conditions while ensuring safe and efficient project execution

4. PROJECT EXECUTION

The project was executed through systematic planning, effective coordination, and continuous monitoring by the Sunbeam Generators project team to ensure completion within the customer's committed schedule.

The key execution activities included:

- **Site Preparation & Coordination:** Conducted detailed site inspections and coordinated with the college management and concerned teams to finalise the movement, installation, and positioning plans considering the restricted space and existing campus conditions.
- **30-Metre Exhaust Stack Installation:** Successfully managed the shifting, lifting, and precise positioning of the 30-metre-high exhaust stack by deploying suitable lifting equipment, skilled manpower, and specialised rigging arrangements.
- **Protection of Existing Trees:** Executed material shifting, equipment movement, and installation activities with utmost care to protect the existing trees and greenery across the campus, strictly adhering to the Vice-Chancellor's instructions.
- **Night-Time Execution:** Mobilised the required manpower, equipment, and resources to carry out critical activities during night hours to avoid disturbance to regular college operations and academic activities.
- **Safety & Quality Monitoring:** Ensured proper safety arrangements, supervision, and monitoring throughout the execution process, particularly during heavy lifting, shifting, and installation activities.
- **Cross-Functional Coordination:** Maintained continuous coordination between the customer, project execution team, and supporting agencies to address site constraints, resolve operational challenges, and maintain the project schedule.

Despite the challenging site conditions, restricted working space, tree protection requirements, and night-time execution constraints, the Sunbeam team demonstrated strong execution capabilities, teamwork, and commitment to successfully deliver the project as per the customer's expectations.

5. PROJECT RESULTS & BENEFITS

- **Zero Disruption to Academic Activities:** Completed critical installation and shifting activities during night hours, avoiding disturbance to regular college operations and academic activities.
- **Safe & Efficient Execution:** Successfully managed complex lifting, material movement, and installation activities through proper planning, skilled manpower, and effective safety measures.
- **Customer Satisfaction:** Delivered a customised project solution by overcoming multiple site-specific challenges through close coordination, teamwork, and a customer-focused execution approach.
- **Enhanced Project Execution Capability:** Demonstrated Sunbeam's capability to handle complex infrastructure projects involving challenging site conditions, specialised installation requirements, and strict execution timelines.

6. PROJECT HIGHLIGHTS

Installed Capacity	2x1500 kVA
Total Power Capacity	3000 kVA
Application	Backup Power entire Institute & Residential block
Solution Provider	Sunbeam Generators Pvt. Ltd.
DG Set OEM	Sunbeam Generators Pvt. Ltd.
Project Scope	SITC of 2x1500 kVA & Exhaust stack & Fuel system & Earthing works
Project Status	Completed

7. CONCLUSION

This project demonstrates Sunbeam Generators Pvt. Ltd.'s capability to deliver reliable and application-specific power solutions using Kirloskar Diesel Generator Sets.

Through technical expertise, coordinated project execution, and customer-focused service, Sunbeam continues to support customers with dependable power backup solutions across industrial, commercial, healthcare, and infrastructure sectors.

POWERING PROGRESS. ENSURING RELIABILITY.

Site Photos:-


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