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	MLA/MLC/AIS QTRS - APCRDA
Customer	M/s NCC LTD
Location	Amaravati Andhra Pradesh
Application	MLA/MLA/AIS QTRS
Generator Capacity	625 kVA
Quantity	6 No's
DG Set Model	DV10 ETA 4G1
Scope	Supply / Installation / Commissioning / Testing of 6 No's of 625 Kva DG Sets along with 15mt Exhaust stack and inbuilt Synch controller.
Project Completion	2026

2. CUSTOMER REQUIREMENT / PROJECT CHALLENGE

The customer required a reliable power backup solution incorporating the latest applicable DG set standards, with seamless compatibility with the existing synchronisation panel designed with a PCC 3.3 controller.

One of the major challenges was the execution of **6 Nos. of DG Sets across 3 different project locations**, which had to be completed simultaneously within a very short timeframe, as per the customer's committed schedule.

Additionally, ensuring compatibility with the existing synchronisation system, coordinating technical requirements across all three locations and maintaining uniform execution standards were key project challenges.

3. PROPOSED SOLUTION

Sunbeam Generators Pvt. Ltd. proposed an advanced synchronisation solution using the **Woodward KG1500 controller**, ensuring compatibility with the customer's existing PCC 3.3-based synchronisation panel.

Our technical team developed and demonstrated the complete technical scheme, including controller integration, synchronisation logic and operational methodology, addressing all customer requirements. The proposed technical solution was successfully reviewed and approved, enabling us to commence the project.

All project-related engineering drawings, technical documents and operational details were submitted within the stipulated timelines.

Through effective planning, engineering coordination and close collaboration with the customer and site teams, Sunbeam successfully executed and completed the MLA Quarters project within **one month**, meeting the customer's committed schedule and expectations.

4. PROJECT EXECUTION

Sunbeam successfully coordinated and executed all project activities across the three locations, including:

- Preparation and implementation of detailed project execution schedules covering all three project locations.
- Manufacturing, supply and execution of 3 No's of 15-metre-high exhaust stack works, including the required certifications and approvals from government authorities and the Project Management Consultant (PMC).
- Technical coordination and synchronisation panel commissioning support at site as per customer requirements.
- Configuration and implementation of automatic DG set operation as per the site team's operational requirements.
- Coordination between engineering, manufacturing, project execution and site teams to ensure timely completion.
- Continuous technical support and monitoring to ensure smooth integration with the existing synchronisation system.

5. PROJECT RESULTS & BENEFITS

The successful implementation of the project delivered the following key benefits and achievements:

- Timely Project Completion: Successfully completed the project within the committed timeline, supporting the customer's planned MLA/MLC inauguration in the presence of the Hon'ble Chief Minister of Andhra Pradesh.
- Reliable Power Backup: Delivered a dependable standby power solution to ensure uninterrupted power availability and operational continuity during grid power failures.
- Customized Engineering Solution: Successfully designed and implemented the synchronization panel scheme, integrating the Woodward KG1500 controller with the existing PCC 3.3-based synchronization system to meet the project's specific electrical and operational requirements.
- Successful 15-Metre Exhaust Stack Installation – 3 Nos.: Overcame critical site space constraints through effective planning and coordination, ensuring the safe shifting, lifting, positioning and installation of all three 15-metre exhaust stacks, along with the necessary statutory and PMC certifications.
- Seamless Synchronization & Automatic Operation: Achieved successful integration with the existing synchronization system and ensured automatic DG set operation as per the customer's operational requirements.
- End-to-End Project Execution: Delivered comprehensive project support covering engineering, design documentation, technical approvals, manufacturing, supply, installation, synchronization support and commissioning.
- Customer Satisfaction: Successfully executed 6 Nos. of DG Sets across 3 project locations within a 3-month timeframe, demonstrating Sunbeam's strong project management capabilities, technical expertise and commitment to customer satisfaction.

6. PROJECT HIGHLIGHTS

Installed Capacity	6X625 kVA
Total Power Capacity	3750 kVA
Application	Govt Officals Qtrs Highrise buildings (MLA/MLC/AIS QTRS)
Solution Provider	Sunbeam Generators Pvt. Ltd.
DG Set OEM	Sunbeam Generators Pvt. Ltd.
Project Scope	SITC of 6x625 kva & Exhaust stack & Synch Support.
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:-











