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	Indian Institute of Foreign Trade (IIFT) / M/s NBCC
Customer	M/s SRR PROJECTS LTD
Location	Kakinada
Application	Institute
Generator Capacity	1010 kVA
Quantity	2 No's
DG Set Model	DV 16 ETA G3
Scope	Supply / Installation / Commissioning / Testing of 2 No's of 1010 kVA along with Exhaust Stack & 10KL HSD Tank along with accessories works & CCOE approvals from PESO
Project Completion	2026

2. CUSTOMER REQUIREMENT / PROJECT CHALLENGE

The customer required a dependable power backup solution with stringent technical specification as per CPWD/NBCC norms to be followed without any deviations & as per DBR the requirement was 4 No's of 500 Kva DG Sets as per enquiry received, customer expectation for best valued proposal with latest norms and without any deviations.

3. PROPOSED SOLUTION

Sunbeam Generators Pvt. Ltd., in association with Kirloskar Oil Engines Ltd., proposed a suitable power backup solution based on the customer's electrical load requirements and operating conditions, visited the site and survey the detailed site survey and understand the site space constraints and proposed 2 No's of 1010 kva & DG set instead of 4 No's of 500 kva DG Sets,

This project don't have any Scope BOQ , as we prepared and submitted the detailed BOQ as per specification and complying the all Technical specifications as per DBR(CPWD/NBCC Norms) and prepared the TDS ,

We have taken up as a challenge as per specification as we need to supply PMG based alternator but as per KOEL standard scope AREP excitation type alternators , For this deviation NBCC denied and rejected our proposal,

Based on the NBCC comments we have taken up this with KOEL design and team and made the necessary developments and done the PMG based alternator design and we got the approvals from NBCC Officials.

4. PROJECT EXECUTION

Sunbeam coordinated the project activities, including:

- DG set supply and delivery coordination.
- Exhaust stack design documents preparations and executed as per specifications
- Bulk Oil Tank – 10KL designing and documents preparation and executed the project alongwith sucessfullay obtained the CCOE safety & NOC approvals from PESO officals.
- Technical coordination with the customer and consultants for Synchronization scheme and Operations logic.
- Installation and commissioning support.

- Testing and operational verification.
- Customer handover and technical assistance as per IIFT/NBCC

5. PROJECT RESULTS & BENEFITS

The implemented solution delivered the following verified benefits:

- Reliable standby power availability.
- Improved operational continuity during power interruptions, integrated synchronizing panel automatically coordinates generator startup and load sharing based on peak building occupancy. Enhanced power backup reliability for critical applications.
- Compliance with applicable regulatory requirements.

6. PROJECT HIGHLIGHTS

Installed Capacity	2x1010 kVA
Total Power Capacity	2020 kVA
Application	Institute & Residential block for officials
Solution Provider	Sunbeam Generators Pvt. Ltd.
DG Set OEM	Kirloskar Oil Engines Ltd.
Project Scope	SITC of 2x1010 kva & Exhaust stack & 10 KL HSD Tank with automation and CCOE approvals
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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powergen
CPCB IV+
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MASTER DAY




HSD CONTROL PANEL



