CASE STUDY 2: AP CRDA Head Office, Amaravathi

Reliable Multi-Capacity Power Infrastructure for Government Headquarters



AP CRDA Head Office Building, Amaravathi



Sunbeam Synchronized DG Sets Installed On-Site

Project / Client	AP CRDA Office (Andhra Pradesh Capital Region Development Authority)
Location	Amaravathi, Andhra Pradesh
Application Sector	Government Administration / Infrastructure Headquarters
OEM Manufacturer	**Sunbeam Generators**
DG Set Configuration	1 × 320 kVA + 2 × 750 kVA (Total Installed Capacity: 1,820 kVA)
Power Management	Synchronizing Panel Solution
Scope of Work	Supply, Synchronization Panel, Installation & Commissioning
DG Running Hours	500 Hours (Successfully Completed)

1. Project Overview

The AP CRDA Office at Amaravathi required a comprehensive and flexible power backup architecture to support government office operations and regional capital administrative activities. Sunbeam Generators deployed a multi-capacity synchronized generator setup designed to automatically match varying load conditions.

2. Key Challenges & Requirements

- **Fluctuating Electrical Load Demands:** Addressing varying power requirements across administrative wings rather than running a single large generator inefficiently.
- **Synchronized Operation:** Integrating multiple DG capacities (320 kVA and 750 kVA) into a seamless synchronized grid.

3. Sunbeam Solution & Value Delivered

- **Optimized Multi-Capacity Configuration:** Provided 1 unit of 320 kVA and 2 units of 750 kVA Sunbeam DG sets.
- **Automated Load Sharing & Synchronization:** Equipped with advanced synchronizing panels to coordinate generator operation according to real-time power demand.
- **Benchmark Reference:** With 500+ running hours recorded, this installation serves as a key reference for government infrastructure power projects in Andhra Pradesh.