



Size
1MWp



EPC
Mahindra
Susten



Developer
GRT

Project Case Study

• GRT Silverwares

• Aruppukottai, TN

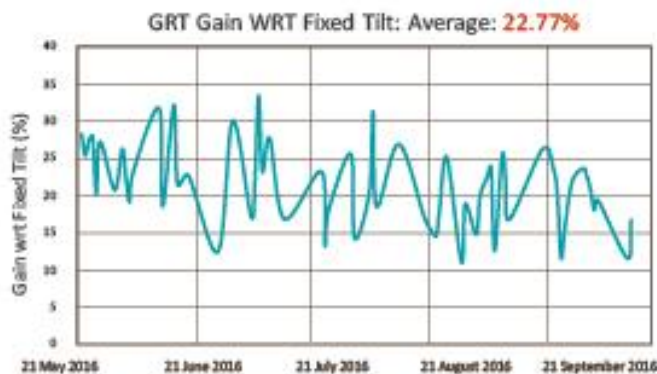
Project Highlights

- **Fastest Installation in less than a month**
- **Tracker Uptime: 99.6% (6 months)**
- **Minimal Site Grading**
- **-1027450 Tons CO2 saved annually**



Project Overview

Launched in Mar 2016, GRT Silverwares 1 MW, is the first external site installation for Mahindra Susten Tracker (MSAT-100). Installed in terrains of Arupukkotai, Tamil Nadu MSAT 100 single row tracker harvests the solar potential of this region to its maximum. Utilising Tamil Nadu's high solar irradiance and MSAT 100's tracking technology, the GRT project stands as an ideal asset recording an exceptional gain of around 23.06% with respect to fixed tilt.



Challenges: Arupukkotai is about 48 Kms from Madurai and the land is famous for the production of Jasmine. The major challenge was project's stringent timeline of one month. Building a reliable, easy to maintain and fully functional system was a constraint.

Solution: With few moving parts and construction friendly design, MSAT 100, was an ideal asset, which could be installed quickly. With its plug and play features the installation was completed in less than a month and within the project timelines.

Benefits: MSAT-100 is a tracker known not just for its fast installation, but also for zero maintenance. In last 6 months of its operation from May 2016, the site has recorded an average tracker uptime of 99.6%. It has also resulted in an exceptional gain of 23% with respect to fixed tilt. The GRT project established MSAT 100 as a classic example of an efficient, easy to install and design flexible single axis tracking system.

Since the first installation of GRT 1 MW, MSAT has come a long way with 28.2 MW installed today and 260+ MW in pipeline.