



#### SOLAR PV FARM – A CASE STUDY

S. Datta, Head – Industrial Solutions (S&M)



### 10 MW Solar Power Project



# Brief Understanding of Scope

- Complete EPC of 10 MW(AC) Grid Connected Solar Power
- Project + 10 Years O&M
- Domestic C-Si (as per NVVN norm)
- ➤ DC:AC=1.02 1.1
- 33kV Evacuation System
- 2kM Fencing, 4kM Road
- Water Supply System
- 3.5 kM Transmission Line
- Other Scopes as specified in the issued RfP



## How we execute?













Safety guided by our HSSE policy is license to work.

## **Continuous Improvement**









**Site Office** 



**Storage of Modules** 



**Roads & Drains** 



**Templates for Foundations** 







## **Continuous Improvement**

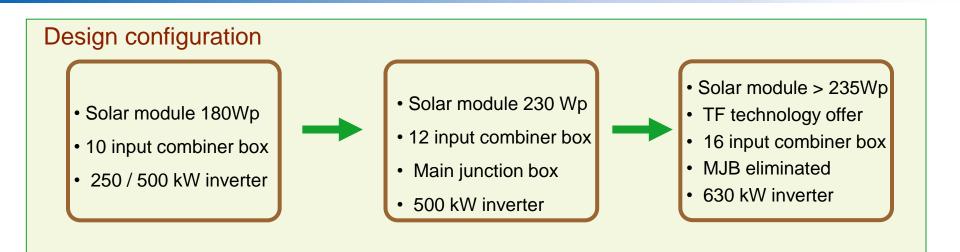


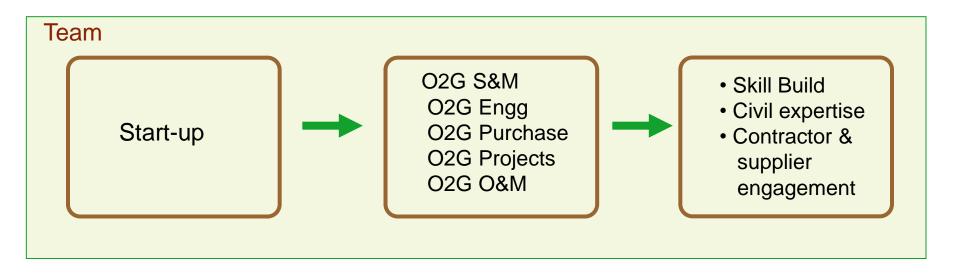




### **Continuous Improvement**









**Site Office** 



**Storage of Modules** 



**Roads & Drains** 



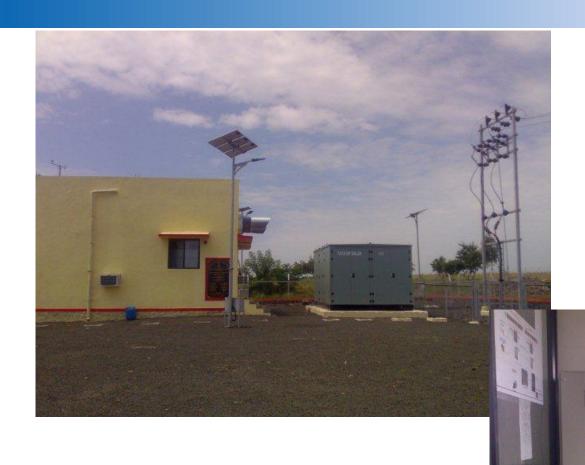
**Templates for Foundations** 











5.8.8

мининини







# TATA POWER SOLAR EVERYWHERE



# Critical Components-Solar Power Plant TATA POWER SOLAR EVERYWHERE









#### **TATA POWER SOLAR**

ENABLING SOLAR EVERYWHERE









**Control Room** 

**TATA POWER SOLAR** 

ENABLING SOLAR EVERYWHERE



Control Room



Inside Control Room



LT Panel

#### **TATA POWER SOLAR**

ENABLING SOLAR EVERYWHERE











#### MODULE INSTALLED BY TBPS -



#### Grid Connected Solar Power Plant



#### **Critical Success Factors**

Good Design Detailed Engineering

High Quality
Products

EPC Capability

Conducive
Policy &
Infrastructure

Knowledge,
Experience &
Commitment



1 MW Solar Power Plant; Delhi



**5 MW Solar Power Plant ; UP** 



17 MW Solar Power Plant; Mithapur, Gujarat



### **What We Have Acheived**

## **Large Scale Projects – 02G**





**National Solar Mission** 

**MARKET** 

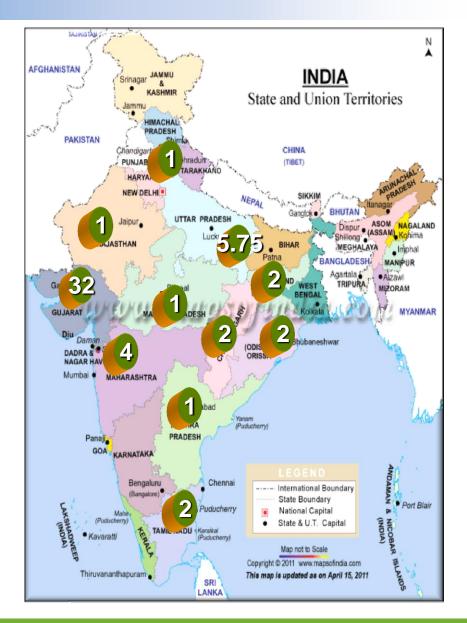
State Policy REC / RPO



EPC Solar Grid connect plant



- Project Developers
- Obligated entities
- Industries
- Corporate



#### O2G Growth road map



2009-11

2011-12

2012-13

- NDPL 1MW
- Tata Power 3MW

50 MW projects In various locations Across India



100 MW projects targeted



## **Large Scale Projects – O2G**





### Grid Connected Solar Power Plant





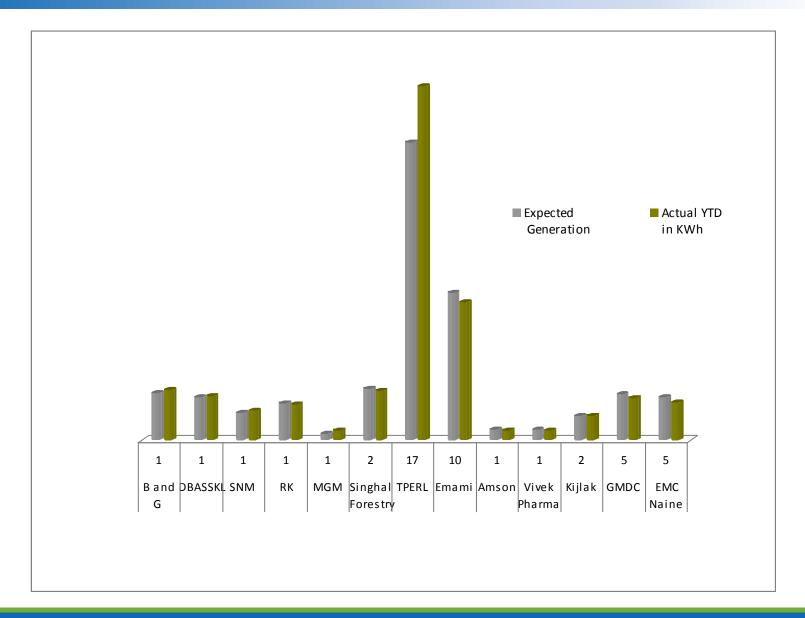
1 MWp Solar Power Plant in Tamil Nadu

Commissioned: June, 2011

180 days ahead of Scheduled time Generating 105% of the guaranteed units

## **Energy Excellence – O2G Projects**







### dattas@tatapowersolar.com

### Thank You