



Date: 05.04.2016

Ananthapuramu Ultra Mega Solar Power Project (1000 MW)  
N P Kunta Ananthapuramu Dist. (AP)  
Phase-1 : 250 MW ( 5 X 50 MW)

**Progress Report: As on 01.04.2016**

**A. Project Synopsis:**

Location	NP Kunta village and Mandal, Ananthapuramu district, AP
Nearest Railhead / Airport	Kadiri Railway Station (30 Km) / Bangalore International Airport (220 Km)
Approved Capacity	250 MW phase I (Five Blocks of 50 MW )P1,P2,P3,P4,P5
Investment approval	28.04.2015
Beneficiary / Status of PPA	Andhra Pradesh. PPA Signed with AP Southern Power Distribution Company on 24.04.2015.
Power Evacuation System	33 kV voltage level from each block of 50 MW upto APTRANSCO's pooling substation & at 220 / 400 KV beyond that point.
<b>INPUTS:</b>	
Land Requirement	1250 Acres land has been handed over to NTPC.
EPC Contract award	NOA issued on 29.04.15 to the following bidders: <ul style="list-style-type: none"><li>• P1 &amp; P2 Block ( 2x50MW=100 MW) : M/s Tata</li><li>• P3 Block (50 MW) : M/s Lanco</li><li>• P3 Block (50 MW): M/s BHEL</li><li>• P4 Block (50 MW): M/s Sterling &amp;Wilson</li></ul>
Commissioning Schedule	<ul style="list-style-type: none"><li>• P2 to P5 blocks ----Apr 2016</li><li>• P1 block -----Oct 2016</li></ul>

## B. Highlights:

- a) 33 KV / 100 KVA temporary startup power (APSPDCL) commissioned on 30.03.2016.
- b) Inverters of P-2, P-3, P-4 & P-5 test synchronized with the grid as per the dates shown below:

P-2 block: 31.03.2016 / 01.04.2016

P-3 block: 30.03.2016

P-4 block: 02.04.2016 / 03.04.2016

P-5 block: 31.03.2016

## C. Work Progress:

Sl. No.	Activity	P2 (Tata)	P3 (Lanco)	P4 (BHEL)	P5 (Sterling & Wilson)	P1 (Tata)
1	MMS Foundation casting (Nos.)	Completed (33408)	Completed (32936)	33560 / 33572	Completed (33248)	26664/ 33228
2	MMS tables	8332 / 8352	Completed ( 8234)	8321/8393	8187/8312	2331/8307
3	Module erection(Tables)	8173/8352	7705/8234	8261/8393	7656/8312	682/8307
4	CMCS building	Completed	Completed	Building Ready. Finishing works in progress.	Completed	Painting / flooring works in progress
5	PEB building (Inverter room)	12/13 ready	All 9 are ready	All 9 are ready	All 9 are ready	Work in progress in 8/12
6	Inv. transformers	4/13	20/20	10/20	2/20	
7	Mod. received (MW)	73.76 (Incl-P1)	47.06	50	50	



## **D. Constraints / Road blocks:**

### **1. Delay in the readiness of associated power evacuation system:**

To evacuate power from P-2 to P-5 PV blocks (which are test synchronized), associated power evacuation system (220 KV & 400 KV) are not yet ready. As on date, following major works are pending:

#### **a) 220 / 400 KV Switchyard (Powergrid):**

220/400 KV, 500 MVA transformer of Power grid has not yet reached site.

As on date, 220/ 400 KV switchyard is not ready.

#### **b) 33/ 220 KV Switchyard (APTRANSCO).**

As on date, only two out of 4 transformers ( 80 MVA, 33/ 220 KV) have reached site. These transformers are yet to be commissioned. In 33 KV switchgear, only 2 out of 26 panels are made ready. Further, for terminating NTPC's 33 cables from solar blocks, metering panels have not yet reached site.

### **2. Water for module washing:**

For module washing, water is not available and the same is in APSPCL's scope.

As per the latest JWG, water for Ph-1 will be made available by April 2016. Same may be ensured.



**3. Handing over of 500 acres of land under Ph-2:**

During the latest JWG held on 14.03.2016, APSPCL informed that the balance 500 acres of land will be handed over by April 2016. Unless the land is handed over, NTPC may not be able to place LOA for Ph-2 EPC contracts, presently scheduled for April 2016.

**4. Bridges across the HNSS canal:**

The work of the bridges started in March 2016. These bridges are to be made ready before the placement of Ph-2 EPC contract, expected in April 2016.

**5. 11 KV line in Ph-2 area:**

These lines are to be dismantled by APSPCL, before handing over the land to NTPC, as decided at high level meeting held at Hyderabad on 15.03.2016.

**6. Communication facility:**

This is required for Phase-1 & 2, as the site activities are affected by poor connectivity / communication. This may be taken up with BSNL.

**E. Progress Photos :**

Photos are annexed to this report.

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**PV Modules**



**PV Modules**



**33 kV Sub Pooling Station**



**33 kV Sub Pooling Station**



**Control Room building**



**Batteries**



**Batteries**



**33 kV Switchgear**





**33 kV Switchgear**