



Date: 01.03.2016

**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 01.03.2016**

**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 switchgears erected in P-2, P-3 & P-5 blocks (CMCS / PEB rooms).
- b) Inverters erected in P-2, P-3 & P-5 blocks (CMCS / PEB rooms).
- c) 33 KV cable laying in progress in P-2, P-3 P-4 & P-5 blocks.
- d) Inverter transformers erected in P-3 block.
- e) Battery, Charger & UPS erected in P-3 CMCS and PEB rooms
- f) DC side pre-commissioning checks in progress in P-2, P-3 & P-5 blocks.
- g) P-2 block CMCS roof was cast on 23.02.2016.

## 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)	33328 / 33572	33321 / 33353	24154/33228
2	MMS tables	7990/ 8353	7729 / 8234	7457 / 8393	6735 / 8326	1363 / 8307
3	Module erection(Tables)	4922 / 8353	4577/8234	6933 / 8393	5653 / 8316	79 / 8307
4	CMCS building	Building Ready. Finishing works in progress.	Building Ready.	Building Ready. Finishing works in progress.	Building Ready. Finishing works in progress.	Roof slab cast on 23.01.2016
5	PEB building (Inverter room)	9 / 12 Ready. Balance nearing completion.	5 / 9 Ready. Balance nearing completion.	8 / 9 Ready. Balance nearing completion.	All 9 are ready	Work in progress in 6/12
6	Inv. transformers	To reach during March 1 <sup>st</sup> week	11/20 erected	To reach during March 1 <sup>st</sup> week	To reach during March 1 <sup>st</sup> week	
7	Mod. received (MW)	55.43 (Incl-P1)	37.45	42.50	44.50	



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

##### **1. 33 KV cable support structures (APSPCL):**

P-3 block is getting ready for commissioning during the first week of March 2016, & other blocks are also in the advanced stage. To avail the startup power and to deliver the power to grid, following inputs are yet to be made ready:

- a) 33 KV cable support pedestals from 220/33 KV substation to individual blocks (by APSPCL).
- b) 220 KV/ 33 KV switchyard along with 33 KV switchgear panels and metering panels (by APTRANSCO).
- c) 22 KV line from 220 KV switchyard upto 400 KV switchyard (by APTRANSCO).
- d) 400 KV Switchyard ( by Power grid).

Commissioning of the plant, targeted in March / April 2016, will get affected in case of any delay in the above inputs.

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

During the latest JWG held on 17.02.2016, it was informed that the handing over of additional 500 acres of land will take another 3 months. Unless the land is handed over, NTPC may not be able to place LOA for Ph-2 EPC contracts, presently scheduled for March 2016.



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

Bridges across the HNSS canal may be made ready on priority, since Ph-2 EPC contracts are now expected to be awarded by March 2016.

**4. 11 KV line in Ph-2 area:**

These lines are to be dismantled before handing over the land to NTPC.

**5. Communication facility:**

This is required for Phase-1 & 2, as the site activities are affected by poor connectivity / communication.

**E. Progress Photos :**

Photos are annexed to this report.

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## Progress Photos

(Annexure to Progress Report dt.1.03.2016)



**Figure-1: CMCS building of P-2 block (M/s Tata) as on 29.02.2016**



**Figure-2: Solar Inverters (ABB make) erected in CMCS Building of P-2 Block as on 29.02.2016**



**Figure-3: CMCS building of P-3 block (M/s Lanco) as on 29.02.2016**



**Figure-4: UPS (Hitachi make) erected inside CMCS building of P-3 block (M/s Lanco) as on 29.02.2016**



**Figure-5: Main battery Bank (110 V, HBL Make) erected in CMCS building of P-3 Block (M/s Lanco) as on 29.02.2016**



**Figure-6: Auxiliary Transformer (esennar Make) erected near CMCS building in P-4 block (M/s BHEL) as on 29.02.2016**



**Figure-7: 33 KV Cable Support Pedestals near 220 / 33 KV SubStation of APTRANSCO( M/s APSPCL ) as on 29.02.2016**



**Figure-8: 33 KV Cable Support Pedestals near 220 / 33 KV Sub Station control room of APTRANSCO ( M/s APSPCL) as on 29.02.2016**