

## Status of 400kV Transmission Schemes as on 30.09.2013.

### **1.0 Short Gestation Power Transmission Scheme-II :**

**1.1 Narsaraopet (Sattenapalli) 400kV Substation (Nov'2013):** The Contract was terminated on 27.08.2012 and new tenders are called for and Contract was awarded on 30.11.2012. 549 Nos.out of 586 Nos.foundations completed. 2 Nos. transformer foundations and erection are completed. 611 Nos. out of 669 Nos. structure erection and 384 Nos. out of 479 Nos. equipment erection completed. Construction of control room, compound wall, DG building, earthing and cable trench zworks are under progress. 400kV and 220kV Buses stringing completed.

### **1.2 Narsaraopet Connected Lines:**

**1.2.1 Purushottapatnam (Nunna) to (Jujjuru) line (56 kM) (Dec'2013):** Purchase order issued on 11.03.2011. . The contract was cancelled. New Tenders were called and Purchase order issued on 29.04.2013.107 Nos. out of 165 Nos. foundations and 37 Nos. Tower erection are completed

**1.2.2 Jujjuru to Sattenapalli and LILO of VTS - SSLM line (67kM) (Dec'2013):** Purchase order issued on 09.03.2011. 176 Nos. out of 178 Nos. foundations are completed.169 Nos. out of 178 Nos. Tower erections are completed. 59.67 kM out of 67 kM stringing completed.

### **2.0 400kV Ring Main Transmission Scheme:**

**2.1 Shankarapally (Yeddumailaram) 400/220kV Sub-Station:** The substation was charged on 18.11.2012 with 1 No.315 MVA PTR. 2<sup>nd</sup> and 3<sup>rd</sup> 315 MVA PTRs are charged on 06.03.2013.

### **2.2 Gajwel – Shankarapally (Yeddumailaram) 400KV DC Line (105 kM)(Nov'2012):**

The line was charged on 17.11.2012.

### **2.3 For LILO of Srisailam-Mamidipally 400kVDC Line to the proposed 400kV Shankarapally(Yeddumailaram) Substation :**

a) Yedduailaram to Edulapally (LOC 109) (41.172 kM): Purchase order issued on 04.03.2011. 115 Nos. out of 115 Nos. foundations are completed. 72 Nos. out of 115 Nos. tower erection completed.

b) Edulapally (LOC109 to LILO point of SSLM - HYD Line (LOC341.)(37.219kM): Purchase order issued on 04.03.2011. 104 No. out of 106 Nos. foundations and 44 Nos. Tower erection is completed.

As the contractor has failed in completion of work, the above two contracts were terminated. New tenders are proposed to be called for the balance works.

**2.4 2 Nos. 400kV Bay Extensions at Gajwel Substation:** Commissioned on 28.09.2012.

### **3.0 Vijayawada Power Transmission Scheme:**

#### **3.1 (a) VTPS – Malkaram 400kV Line:**

The circuit –I of the line is commissioned on 13.02.2013.

The circuit –II of the line is commissioned on 1.04.2013.

#### **(b) 400kV Bay Extensions at Malkaram Substation and Augmentation of 1 No. 315 MVA PTR at Malkaram 400kV SS :**

400KV Bays were charged on 04.01.2013

3<sup>rd</sup> 315MVA Transformer was charged on 16.02.2013.

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#### 4.0 Bhoopalapally Power Transmission Scheme:

##### 4.1 Bhoopalapally – Gajwel 400kV DC Line (131.166 kM) (July'2013):

The line is charged from Gajwel end on 30.08.2013 and put into commercial operation from 26.09.2013.

##### 4.2 2 Nos. 400kV Bay Extensions at Gajwel Substation: Commissioned on 28.09.2012.

#### 5.0 Reactors Scheme:

Name of the Substation	Actual Dates of charging
Kalpaka	Bus reactor charged on 24.04.2012.
Mamidipally	Line reactor charged on 09.05.2012.
Kurnool	Bus reactor charged on 22.08.2012.

#### 6.0 Krishnapatnam Power Transmission Scheme:

##### 6.1 Krishnapatnam TPS – Nellore Quad D/C Line (36 kM) (Nov'2012):

The line was charged on 23.11.2012.

##### 6.2 Krishnapatnam TPP - Bonapally 400kV Quad D/C Line (89.921 kM ) & Bonapally -Chittoor 400kV Quad (97.808 kM ) D/C Line(Dec'2013) :

Purchase orders issued on 28.07.2011.

233 Nos. out of 272 Nos. foundations and 185 Nos. out of 272 Nos. tower erections and 21.566 kM stringing are completed in Krishnapatnam TPP - Bonapally 400kV Quad D/C Line.

274 Nos.out of 281 Nos. foundations ,225 Nos.Tower Erection and 41.996 kM stringing are completed for Bonapally – Chittoor 400kV Quad DC Line.

##### 6.3 400kV Quad Bay Extensions at Chittoor and Nellore Substations: Purchase order issued on 11.10.2011.

At Nellore 400kV SS:The bay extensions were charged on 05.11.2012.

At Chittoor 400kV SS: Land acquired .92/95 Nos. foundations and 83/115 Nos. structure erection are completed.Levelling, Compound wall, Road, stringing, structure erection,cable trench works and earthing works are under progress.

#### 7.0 RayalaseemaPower Transmission Scheme:

Tenders are due for opening on 23.10.2013.

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- 8.0 Evacuation of Wind Power in Kadapa, Anantapur and Kurnool districts of Andhra Pradesh:**
- 8.1 400kV Uravakonda Substation(2x315 MVA) along with 2 Nos. 400kV Quad Bays at 400/220kV Veltoor Substation:**  
LOI is issued on 23.03.2013.APERC clearance is awaited. Funding is under finalization.
- 8.2 400kV Jammalamadugu (Kondapuram) Substation (2x315 MVA):**  
LOI is issued to M/s. Techno Electric Electrical and Engineering Company Limited on 22.03.2013.
- 8.3 400kV Veltoor – Yemmignoor and 400kV Yemmignoor – Uravakonda Quad DC line (102 kM):**  
Pre-qualification and price bids were opened and tender analysis is under progress.
- 9.0 Evacuation of power from HNPCL (1040 MW) power plant and Associated Transmission network for HNPCL under system improvement:**
- 9.1 Kamavarapukota 400kV Substation (2x315 MVA):**  
LOI is issued on 26.03.2013. Purchase order will be issued after finalization of Sub-station site.
- 9.2 Suryapet 400/220/132kV Substation:**  
Purchase order issued on 29.07.2013.Site leveling works taken up by civil wing. Engineering works under progress.
- 9.3 400kV Quad DC line from Suryapet 400kV SS to Shankarapally 400kV SS:**
- 9.3.1 400kV Quad DC line from Suryapet 400kV SS to Nandiwanaparathi (120 kM):
- 9.3.2 400kV Quad DC line from Nandiwanaparathi to Shankarapally 400kV SS (120 kM):  
LOI issued on 11.07.2013.Purchase order is to be issued.
- 9.4 400kV Twin Moose DC line from M/s.HNPCL’s switchyard to the proposed 400kV Kamavarapukota (KVKota )SS:**  
Tenders are opened in 3(three) packages on 04.06.2013, 05.06.2013 and 11.06.2013 respectively. Evaluation under progress.
- 9.5. 400kV Quad Moose DC line from proposed 400kV Kamavarapukota (KVKota) SS to the proposed 400kV Suryapet SS:**
- 9.5.1: Quad DC line from Kamavarapukota to Chinna Korukondi (106 kM):**  
LOI issued on 15.07.2013.Detailed survey is under progress.
- 9.5.2: Chinna Korukondi to 400kV proposed Suryapet SS (106 kM ):**  
LOI issued on 15.07.2013.Detailed survey is under progress.
- 9.6. 400kV Twin Moose DC line from 400kV Vemagiri SS to the proposed 400kV KamavarapuKota SS:**  
NIT will be issued shortly.

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**9.7 400kV Jammalamadugu – Narnoor (Kurnool) (105 km) Quad DC line:**

Pre-qualification tenders were opened on 27.07.2013 and analysis is under process.

**9.8 400kV Jammalamadugu – Uravakonda Quad DC Line (132 km):**

Pre-qualification tenders were opened on 27.07.2013 and analysis is under process.

**10.0 400kV Augmentation Scheme-II:**

**10.1 Augmentation of 315 MVA PTR at Mamidipally 400kV Substation:**

Work awarded on 15.02.2013 for erection of transformer bay at Mamidipally Substation. 60 Nos. out of 73 Nos. foundations completed.

**10.2 Augmentation of 3<sup>rd</sup> 315 MVA PTR at Gajwel 400/220/132kV Substation:**

P.O.issued on 04.07.2013.Works under progress.

**11.0 Reactor Scheme-II:**

Work awarded on 15.02.2013 for erection of 80 MVAR Bus Reactor bay at Vemagiri 400/220 kV Substation. Civil works are under progress.

**12.0 400kV Augmentation Scheme –III:**

**Augmentation of 315 MVA PTR at Kalpala 400kV Substation :**

All foundations (67 Nos.) , Structure Erection (73 Nos.) , Equipment Erection (23 Nos.) , Bus stringing works, cable laying works are completed.Cable termination, FF system works, equipment interconnections, C&R panels and equipment testing is in progress.315 MVA Power Transformer soak pit grating works are in progress.

**13.0 Jaipur Power Transmission Scheme.**

**13.1 400KV Quad DC line from Jaipur TPP to Rangampet (AP 58/0)(Feb'2015):**

work awarded on 06.03.2013. 55 Nos. out of 212 Nos. foundations completed.

**13.2 400KV Quad DC line from Rangampet (AP58/0) to Gajwel 400KV SS (Feb'2015) :**

Work awarded on 06.03.2013. 63 No.out of 246 Nos. foundations completed. 23 Nos. out of 246 Nos. tower erection completed.

**12.1 2 Nos. 400KV Quad Moose feeder bays, 2 Nos. 400kV Twin Moose feeder bays at Gajwel 400KV SS.:**

P.O.issued on 04.07.2013.Engineering under progress.

**13.0. Indira Sagar Rudramakota Lift Irrigation Scheme:**

**14.1 400kV Asupaka Substation:**

Tenders are opened on 30.08.2013.Tender analysis under progress.

**14.2 400kV DC Line from LILO point of Vizag Khammam to Asupaka 400kV SS:**

Work awarded on 18.05.2013. Engineering under progress.

**15.0 Transmission System Improvement Scheme at Vizianagaram and Srikakulam Districts:**

**15.1 400kV Quad DC line from existing 400/220kV Kalpaka Substation to the proposed 400/220kV Maradam (Garividi) Substation (120 kM):**

Pre-qualification bids were opened and analysis is under progress.

**15.2 400/220kV Sub-station at Maradam (Garividi) along with 2 Nos. 400kV Quad Bays at the existing 400/220kV Kalpaka Sub-station:**

Estimates were prepared and tenders will be called for shortly based on land acquisition

Status required for construction of Sub-station, including APERC clearance.

**16.0 LILO of Kalpaka (Vizag) – Khammam 400kV DC lines to Asupaka 400/220kV Substation – 17 kM with stringing of OPGW in live condition-114 kM:**

Work was awarded on 18.05.2013.Engineering under progress.

**17.0 Deposit Contribution works:**

**17.1 Start up power line (7 kM ) from M/s.HNPCL (1040 MW) Thermal Power Plant to existing 400/220kV Kalpaka SS, being executed by M/s.HNPCL under the supervision of APTRANSCO:**

20 Nos. out of 25 Nos. foundations, 13 Nos. tower erection completed.(21 Nos. foundations, 17 Nos. Structure erection are completed as on this date)

**17.1 2 Nos. 400kV Bay Extensions at existing 400/220kV Kalpaka Substation ( of HNPCL):**

Work under progress.

**17.3 Supply, Civil & Construction , Erection, Testing and Commissioning of 2 (Two) Nos. 400kV Quad Bay Extensions at Chittoor 400/220kV Substation on Turnkey basis for PGCIL Thiruvallam –Chittoor Line:**

Work was awarded on 03.04.2013. 67 Nos. out of 72 Nos. foundations are completed.