

Central Electricity Authority
System Planning & Project Appraisal Division
Sewa Bhawan, R.K. Puram, New Delhi – 110066

No. 51/4/SP&PA-2012/ 1352-1363

Date: 21 December 2012

To

1.The Member Secretary, Southern Regional Power Committee, 29, Race Course Cross Road, Bangalore 560 009. FAX : 080-22259343	2.The Director (Projects), Power Grid Corp. of India Ltd. “Saudamini”, Plot No.2, Sector-29, Gurgaon 122 001, Haryana. FAX : 95124-2571932
3.The Director (Transmission), Transmission Corp. of Andhra Pradesh Ltd., Vidyut Soudha, Hyderabad – 500 082. FAX : 040-66665137	4.The Director (Transmission), Karnataka State Power Transmission Corp.Ltd., Cauvery Bhawan, Bangalore 560 009. FAX : 080 -22228367
5.The Member (Transmission), Kerala State Electricity Board, Vidyuthi Bhawanam, Pattom, P.B. No. 1028, Thiruvananthapuram - 695 004. FAX : 0471-2444738	6. Member (Distribution), Tamil Nadu electricity Board (TNEB), 6 th Floor, Eastern Wing, 800 Anna Salai, Chennai - 600002. FAX : 044-28516362
7.The Director (Power), Corporate Office, Block – I, Neyveli Lignite Corp. Ltd., Neyveli , Tamil Nadu – 607 801. FAX : 04142-252650	8.The Superintending Engineer –I, First Floor, Electricity Department, Gingy Salai, Puducherry – 605 001. FAX : 0413-2334277/2331556
9. Director (Projects), National Thermal Power Corp. Ltd. (NTPC), NTPC Bhawan, Core-7, Scope Complex, Lodhi Road, New Delhi-110003. FAX-011-24360912	10. Director (Operations), NPCIL, 12 th Floor, Vikram Sarabhai Bhawan, Anushakti Nagar, Mumbai – 400 094. FAX : 022- 25991258

Sub: 35th meeting of the Standing Committee on Power System Planning of Southern Region - **Additional Agenda**

Sir,

The **35th meeting** of the Standing Committee on Power System Planning of Southern Region is scheduled to be held on 4th January 2012 at POWERGRID office, Gurgaon.

Complete Agenda is available at CEA's website (www.cea.nic.in).

Please make it convenient to attend the meeting.

Yours faithfully,

(Manjari chaturvedil)
Deputy Director (SP&PA)

(Copy to):

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**Additional Agenda Note for 35th Meeting of
Standing Committee on Power System Planning in Southern Region (SCPSPSR)**

A.0 Proposal for Static VAR Compensators (SVC) in Southern Region.

A.1 The agenda for Static VAR Compensators (SVC) in Southern Region has already been uploaded on CEA website. In this agenda, based on the study report, the installation of SVC of +400/-400 MVAR at three locations i.e. Hyderabad, Udumalpet and Trichy substations has been proposed to improve reliability & security of the grid operation.

A.2 Members may discuss and agree.

B.0 Transmission System Associated with Vallur TPS.

B.1 The transmission system associated with Vallur TPS (earlier Chennai NTPC-TNEB JV TPS - 1000 MW) was discussed & agreed in two phases. The first phase was discussed & agreed in 22nd, 23rd & 24th Standing Committee meetings. Further a supplementary scheme was also evolved due to increased capacity of Vallur TPS to 3x500 MW and the same was discussed & agreed in the 27th Standing Committee meeting. Accordingly POWERGRID has gone ahead for implementation of the approved transmission system in two phases.

B.2 However during the hearing on the Tariff Petition in Hon'ble CERC of the Phase-I transmission system TANTRANSCO had raised some issues due to lack of clarity in the noting of the minutes. Therefore the following may be regularised as below to give clarity to the subject schemes.

Transmission System associated with Vallur TPS (2x500 MW units)

(i) LILO of both circuits of Alamathy – Sriperumbudur 400 kV D/c line at Vallur TPS.

(This has been completed and commissioned in July, 2011.)

Supplementary Transmission System for Vallur TPS (3rd 500 MW unit)

(i) Vallur TPS – Alamathy 400 kV D/c line

(Retaining one 400 kV D/c line of original Vallur TPS transmission system from LILO point to Alamathy by suitably utilizing the LILO of Nellore – Sriperumbudur 400 kV D/c line at Alamathy).

(i) Vallur TPS – Melakottaiyur

(Extending second 400 kV D/c of original Vallur TPS transmission system from LILO point to Melakottaiyur by suitably utilizing part of the LILO of Kolar-Sriperumbudur line at Melakottaiyur. As regards remaining part of the LILO of

Kolar-Sriperumbudur line at Melakottaiyur is concerned the same shall be put to use to the extent possible).

(iii) Tiruvalam – Chittoor 400 kV Quad line.

With the above arrangement, the Nellore – Sriperumbudur 400 kV D/c and the Kolar-Sriperumbudur 400 kV S/c lines connectivity would be restored.

C.0 Transmission system associated with New IPP projects in Chhattisgarh- Shifting of converter terminal associated with ± 600 kV 4000 MW , Raigarh (Kotra) – Dhule HVDC line from Dhule in Western Region to a suitable location in Southern Region.

C.1 The transmission system associated with IPPs coming up in Raigarh and Champa generation complex in Chattishgarh was discussed and finalized in the 29th and 30th SCM of WR. The transmission system associated with new IPPs in Chattishgarh inter alia involves ± 600 kV 4000 MW HVDC bipole from Raigarh pooling station (near Kotra) to Dhule (PG) along with metallic return conductor.

C.2 In the agenda for the 35th meeting of the Standing Committee on Power system Planning of Western Region (to be held on 3rd Jan, 2013) it is proposed to shift the converter station at Dhule(PG) in Western Region to Southern Region. As Chhattisgarh IPPs have not indicated any firm beneficiaries for power generated from their plants and therefore the surplus power can be transferred to Southern Region for meeting its growing demand.

C.3 If the WR constituents agree to shift the converter station from Western Region, the SR constituent may take this opportunity to have additional power into SR. And this link would also strengthen its inter-connection with rest of all India grid. The exact system shall be planned and discussed in the next meeting of the SCPSPSR. This HVDC system would be in lieu of the Hyderabad – Pugalur HVDC link.
