



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग-II

Power System Planning & Appraisal Division-II

सं.: 51/4/(41वीं)/वि.प्र.यो.मू- 2/2017/1222 -1235

No.: 51/4/(41st)/PSPA-II/2017/

दिनांक: 18 सितम्बर, 2017

Dated: 18 September, 2017

सेवा में / To,

संलग्न सूची के अनुसार

As per list enclosed

विषय: दक्षिणी क्षेत्र के लिए विद्युत प्रणाली योजना पर स्थायी समिति की 41वीं बैठक की अतिरिक्त कार्यसूची।

Subject: Additional Agenda for 41st meeting of Standing Committee on Power System Planning for Southern Region.

महोदय(Sir)/महोदया(Madam),

दक्षिणी क्षेत्र के लिए विद्युत प्रणाली योजना पर स्थायी समिति की 41 वीं बैठक 22 सितंबर 2017 को 10:00 बजे से चेन्नई (तमिलनाडु) में आयोजित की जायेगी। बैठक की अतिरिक्त कार्यसूची संलग्न है।

The 41st meeting of the Standing Committee on Power System Planning of Southern Region will be held at 10:00 hrs on 22nd September 2017^A Chennai (Tamilnadu). Additional Agenda for the meeting is enclosed.

भवदीय/Yours faithfully,

(एस.के.राय.महापात्र/S.K.Ray Mohapatra)

मुख्य अभियंता/ Chief Engineer



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग-II

Power System Planning & Appraisal Division-II

सं.: 51/4/(41वीं)/वि.प्र.यो.मू- 2/2017/

दिनांक: 18 सितम्बर, 2017

No.: 51/4/(41st)/PSPA-II/2017/

Dated: 18 September, 2017

सेवा मे / To,

संलग्न सूची के अनुसार
As per list enclosed

विषय: दक्षिणी क्षेत्र के लिए विद्युत प्रणाली योजना पर स्थायी समिति की 41वीं बैठक की अतिरिक्त कार्यसूची।

Subject: Additional Agenda for 41st meeting of Standing Committee on Power System Planning for Southern Region.

महोदय(Sir)/महोदया(Madam),

दक्षिणी क्षेत्र के लिए विद्युत प्रणाली योजना पर स्थायी समिति की 41 वीं बैठक 22 सितंबर 2017 को 10:00 बजे से चेन्नई (तमिलनाडु) में आयोजित की जायेगी। बैठक की अतिरिक्त कार्यसूची संलग्न है।

The 41st meeting of the Standing Committee on Power System Planning of Southern Region will be held at 10:00 hrs on 22nd September 2017 at Chennai (Tamilnadu). **Additional Agenda** for the meeting is enclosed.

भवदीय/Yours faithfully,

(एस.के.राय.महापात्र/S.K.Ray Mohapatra)

मुख्य अभियंता/ Chief Engineer

Address List:

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. CEO, POSOCO, B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016	4. The Director (Transmission), Karnataka State Power Trans. Corp.Ltd., Cauvery Bhawan, Bangalore - 560 009. FAX : 080 -22228367
5.The Director (Transmission), Transmission Corp. of Andhra Pradesh Ltd., (APTRANSCO) Vidyut Soudha, Hyderabad – 500 082. FAX : 040-66665137	6. The Director (Grid Transmission and Management), Transmission Corp. of Telangana Ltd., (TSTRANSCO) Vidyut Soudha, Khairatabad Hyderabad – 500 082. FAX : 040-23321751
7. The Director (Trans. & System Op.), Kerala State Electricity Board, Vidyuthi Bhawanam, Pattom, Thiruvananthapuram - 695 004. FAX : 0471-2444738	8. Member (Distribution), Tamil Nadu electricity Board (TNEB), 6 th Floor, Eastern Wing, 800 Anna Salai, Chennai - 600002. FAX : 044-28516362
9. The Director (Power), Corporate Office, Block – I, Neyveli Lignite Corp. Ltd., Neyveli , Tamil Nadu – 607 801. FAX : 04142-252650	10. The Superintending Engineer –I, First Floor, Electricity Department, Gingy Salai, Puducherry – 605 001. FAX : 0413-2334277/2331556
11. Director (Projects), National Thermal Power Corp. Ltd. (NTPC), NTPC Bhawan, Core-7, Scope Complex, Lodhi Road, New Delhi-110003. FAX-011-24360912	12. Director (Operations), NPCIL, 12 th Floor, Vikram Sarabhai Bhawan, Anushakti Nagar, Mumbai – 400 094. FAX : 022- 25991258

Copy to:

1.	COO(CTU-Plg), Power Grid Corp. of India Ltd. “Saudamini”, Plot No.2, Sector-29, Gurgaon 122 001, Haryana. FAX : 95124-2571932	GM, SRLDC, 29, Race Course Cross Road, Bangalore 560 009 FAX – 080-22268725
----	---	--

Additional Agenda Note for 41st Meeting of Standing Committee on Power System Planning in Southern Region (SCPSPSR)

Date: 22.09.2017 Time: 10:00 HRs

Venue: Chennai, Tamilnadu

50.0 2000 MW HVDC corridor to the State of Kerala – assessing evacuation capability and Transformer augmentation needs.

- 50.1 In the 39th standing committee meeting the following were agreed
- 50.1.1 Construction of a 400kV substation at Kottayam with four 400kV Line bays, six 220kV line bays and two transformer bays with 2 X 315MVA 400/220kV ICT's.
 - 50.1.2 The 400kV connectivity will be established by LILO-ing both circuits of 400kV Tirunelveli – Cochin East Quad Moose D/c feeder.
- 50.2 Downstream 220kV connectivity was agreed with following network configuration:
- 50.2.1 220kV connectivity to be established to existing Substations at Poovanthuruth, Sabarigiri and proposed 220kV substation at Ettumanoor.
 - 50.2.2 Additional connectivity by LILO of 220kV Idukki – New Pallom feeder also to be explored.
- 50.3 KSEB vide their letter dated 30.08.2017 informed that based on the field feasibility assessment studies carried out for locating the 400kV Substation, minor changes in the proposed 220kV connectivity is required as listed below:
- 50.3.1 220kV D/c connectivity to the proposed 220kV Substation at Ettumanoor
 - 50.3.2 220kV D/c connectivity to the proposed 220kV Substation at Thuravoor (Eramalloor)
 - 50.3.3 220kV connectivity to existing 220kV substations at Pooventhuruthu and Ambalamughal by LILO of existing 220kV Pallom – Ambalamughal feeder to 400kV Substation Kottayam.
- 50.4 In addition to the above, following schemes for 220kV network was also agreed in the Standing Committee.
- 50.4.1 220kV Substation Eramalloor, Alleppey Dt with 220/110kV, 2X100MVA transformers and with four 220kV line bays.
 - 50.4.2 Connectivity was planned by construction of a 220kV D/c feeder from Brahmapuram. Additional interconnectivity with the 220kV Substation Punnappa was also planned by upgrading existing 110kV transmission system to 220/110kV MCMV system.
 - 50.4.3 **220kV Substation, Ettumanoor, Kottayam Dt** with 220/110kV, 2X100MVA transformers and with four 220kV line bays.
 - 50.4.4 Connectivity was planned as LILO of existing 220kV Pallom-Ambalamughal and

Sabarigiri-Ambalamugal feeders. The station will be interconnected to existing 66kV substation, Ettumanoor after upgrading to 110kV.

50.5 However, based on the location identified for the construction of the aforesaid substations, the connectivity to these Substations needs to be modified as per the following:

50.5.1 For **220kV Substation Eramalloor**, connectivity is proposed by constructing a 220kV D/c line from 400kV Substation, Kottayam in lieu of the proposed 220kV D/c feeder from Brahmapuram. Additional interconnectivity with the 220kV Substation Punnapra can also be planned at a later stage by upgrading existing 110kV transmission system to 220/110kV MCMV system as in the original sanctioned scheme. It is also proposed to change the name of the sanctioned 220kV Substation Eramalloor to Thuravur (Pallippuram) based on the location.

50.5.2 For **220kV Substation, Ettumanoor**, the connectivity is planned by constructing a 220kV D/c line from 400kV Substation, Kottayam in lieu of the proposed LILO of existing 220kV Pallom-Ambalamugal and Sabarigiri-Ambalamugal feeders to this substation.

50.6 Accordingly, KSEB requested for following:

50.6.1 Construction of a 400kV substation at Kottayam with four 400kV Line bays, six 220kV line bays and two transformer bays with 2 X 315MVA 400/220kV ICT's (as per the original scheme agreed).

50.6.2 400kV connectivity will be established by LILO-ing both circuits of 400kV Tirunelveli – Cochin East Quad Moose D/c feeder (as per the original scheme agreed).

50.6.3 Downstream 220kV connectivity with following network configuration:

- a) 220kV D/c connectivity to the proposed 220kV Substation at Ettumanoor.
- b) 220kV D/c connectivity to the proposed 220kV Substation at Thuravoor (Eramalloor).
- c) 220kV connectivity to existing 220kV substations at Poovanthuruthu and Ambalamughal by LILO of existing 220kV Pallom – Ambalamughal feeder to 400kV Substation Kottayam.

50.6.4 Renaming of sanctioned **220kV Substation Eramallur** to **220kV Substation Thuravur (Pallippuram), Alleppey Dt** with 220/110kV, 2x200MVA transformers and with four 220kV line bays (including spare 2 bays).

- o Connectivity planned by construction of a 220kV D/c feeder from the proposed 400kV Substation, Kottayam. Additional interconnectivity with the 220kV Substation Punnapra at a later stage by upgrading existing 110kV transmission system to 220/110kV MCMV system.

Downstream 110kV connectivity:

- a) Thuravur – Cherthala

- b) Thuravur – Mattancherry
- c) Thuravur – Vaikom
- d) Thuravur – Aroor
- e) Thuravur – Eramalloor
- f) Thuravur – SL Puram
- g) Thuravur – Thycattussery – 1
- h) Thuravur – Thycattussery – 2

50.6.5 **220kV Substation, Ettumanoor**, with 220/110kV, 2x200MVA transformers and with four 220kV line bays (including spare 2 bays) *(as per the original scheme agreed)*

- o Connectivity planned by constructing a 220kV D/c line from 400kV Substation, Kottayam.

Downstream 110kV connectivity:

- a) Ettumanoor – Pala D/c
- b) Ettumanoor – Vaikom
- c) Ettumanoor – Gandhinagar
- d) Ettumanoor – Kottayam

50.7 Members may discuss.

51.0 Proposal for Erection of 125 MVAR Bus reactor at other end instead of 400kV GIS Srisailam Left Bank Hydra Electric Station (SLBHES)

51.1 In the 39th Standing committee meeting erection of the 125MVR Bus reactor GIS of Srisailam Left Bank Hydro Electric Station (SLBHES) was approved. TSTRANSCO vide their letter dated 15.09.2017 informed that during the 31st TCC & 32nd SRPC meetings held on 21.08.2017 and 22.08 2017 at Thiruvananthapuram, it was informed that erection of GIS Bus reactor is suggestable due to financial implications and space constraint in 400 kV GIS of SLBHES. Hence, the erection of Bus reactors will be examined at other end.

51.2 TSTRANSCO requested to arrange for study of proposal for erection of 125 MVAR bus reactor at other end instead of 400kV GIS SLBHES.

51.3 Member may discuss.