

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

No. 51/4/SP&PA-2013/ 827- 838

दिनांक/ Date: 10-06-2013
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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., Vidvat 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, Vidvuthu 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
-Corrigendum to Minutes of the meeting.**

विषय: दक्षिण क्षेत्र के विद्युत प्रणाली आयोजन की स्थायी समिति की 35वीं बैठक का कार्यवृत्त - शुद्धिपत्र

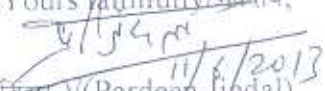
Sir,

The Minutes of 35th meeting of the Standing Committee on Power System Planning of Southern Region were issued vide our letter No. 51/4/SP&PA-20113/202-213 dated 19th February 2013.

Based on observations/comments received from POWERGRID, corrigendum to the above minutes is enclosed at **Annex-I**. It is also available at CEA's website (www.cea.nic.in).

Encl: As above

Yours faithfully/भवदीय,


(प्रदीप जिंदल)/(Pardeep Jindal)
11/6/2013

निदेशक(प्रण. योज. एवं पर. मू. प्रभाग)/Director (SP&PA)
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**Corrigendum to Minutes of 35th Meeting of
Standing Committee on Power System Planning in Southern Region (SCPSPSR)
held on 4th January 2013 at POWERGRID office, Gurgaon**

The Minutes of 35rd meeting of the Standing Committee on Power System Planning of Southern Region were issued vide our letter No. 51/4/SP&PA-20113/202-213 dated 19th February 2013. Following corrigendum is issued based on the observations received from POWERGRID.

Corrigendum # 1

POWERGRID vide their letter NoC/CTU/S/SCM dated 5-3-2013 had given observation on item no.11.0 “Implementation of Common Transmission System Associated with IPPs in Vemagiri Area, Andhra Pradesh”. Based on the POWERGRID’s observations **following changes are made in the para 11.0** in the minutes of 35th meeting of the Standing Committee on Power System Planning of Southern Region:

**11.0 Implementation of Common Transmission System Associated with IPPs in
Vemagiri Area, Andhra Pradesh**

11.2 (iv) Hyderabad 765/400kV S/S – Hyderabad ~~Khammam~~ (existing) 400 kV D/C (quad) line.

Corrigendum # 2

POWERGRID vide their letters No: C/CTU/S/SCM dated 30-05-2013 has requested to modify the para 22.0 (22.4) regarding SSSR-XII and SSSR-XIII schemes. **Accordingly, Para 22.4** of the minutes of the 35th meeting **is replaced** as given below:

22.4 After deliberations the following system was agreed:

- (i) **System Strengthening in Southern Region-XII**
 - a) Establishment of new 400/220 kV GIS substation at Yelahanka with 2x500 MVA transformers with 400kV portion as Gas Insulated Substation (GIS) and the 220kV portion as Air Insulated Substation (AIS)
 - b) LILO of one circuit on multi-circuit tower in Bengaluru area of Neelamangla – Hoody 400 kV D/C line at Yelahanka (instead of earlier envisaged LILO of both circuits)
- (ii) **System Strengthening in Southern Region-XIII**

- a) Establishment of new 400/220 kV substation at Madhugiri with 2x500 MVA transformers with provision of establishing a 765/400 kV Substation in future in the same switchyard
- b) Gooty – Madhugiri 400 kV D/C line
- c) Madhugiri- Yelahanka 400 kV Quad D/C line with a small portion to be strung on multi-circuit tower of the SSSR-XII Scheme with high ampacity conductor in Bengaluru area

Corrigendum # 3

POWERGRID vide their letters No: (1) C/CTU/S/SCM dated 5-3-2013 and (2) dated 30-05-2013 has requested to include the discussions regarding Replacement of Old transformers (7x167 MVA, 400/220 kV) with 2x500 MVA, 400/220 transformers at Somanhalli under para 25 of the minutes. Accordingly, **following para 25.0 is added** in the minutes of 35th meeting of the Standing Committee on Power System Planning of Southern Region:

25.0 Replacement of Old transformers (7x167 MVA, 400/220 kV) with 2x500 MVA, 400/220 kV at Somanhalli Substation of POWERGRID.

25.1 AGM (OS), POWERGRID stated that Bangalore is a major load center of SR and hence has a very significant importance with respect to security and reliability of entire SR grid. It is also one of the oldest 400/220 kV substation in the country. Presently, there are 2 nos. 500 MVA transformers of which ICT-I was commissioned in July, 1986 (i.e. age more than 27 years) and ICT-II was commissioned in February, 1990 (i.e. age more than 23 years). Looking into increasing loading pattern of transformers, augmentation through 1x500 MVA was approved in 18th SRPC meeting held on 23.12.2011. Review of loading pattern of ICTs during past one year has revealed that loading on each of the ICTs operating at this Substation had exceeded 400MW on number of occasions and touched 425 MW in August, 2012. Moreover, from last 2 years, there is increase in fault gases in some of the units. In view of such increased loading pattern and rise in fault gases and to meet any eventuality in the event of failure of anyone of the ICTs at the above sub-station, it is proposed for replacement of both the ICTs at Somanhalli by 2x500 MVA (3-phase unit) as failure of any one of the ICTs may lead to overloading of other ICT and might cause cascaded tripping of remaining ICT in service leading to complete outage. Further the dismantled ICT shall be utilized as Regional Spare after refurbishment.

25.2 Member (PS), CEA opined that healthiness of the transformers with regard to its suitability for refurbishment should be studied separately.

25.3 After discussions it was decided to replace the 7x167 MVA, 1000 MVA transformers with 2x500 MVA (3-phase unit) ICTs at Somanhalli substation of POWERGRID.

Corrigendum # 4

POWERGRID issued the minutes of 15th Meeting of Southern Region constituents **regarding LTA and Connectivity applications** in Southern Region vide their letter No. C/ENG/SEF/S/00/LTA dated 7 February 2013. Further, a corrigendum to above minutes was also issued vide their letter No. C/ENG/SEF/S/00/LTA dated 6 March 2013. Based on the **request from POWERGRID vide letter No. C/CTU/S/LTA dated 06 March 2013, the following Para 26.0 is added** to the Minutes of 35th meeting of the Standing Committee on Power System Planning of Southern Region:

26.0 Discussion on Connectivity and LTA applications for projects in Southern Region:

The issues related to provision of LTA and connectivity, based on the applications received by POWERGRID, were discussed in the 15th meeting of Southern Region Constituents held in this regard. Minutes and Corrigendum to the minutes of this discussion were issued by POWERGRID vide their letter No. /ENG/SEF/S/00/LTA dated 7 February 2013 and C/CTU/S/LTA dated 06 March 2013. The same is given at **Annex-II**, below:

Annex-II

Minutes of 15th Meeting of Southern Region constituents Regarding Long Term Access and Connectivity Applications in Southern Region held on 4th January, 2013 at Gurgaon.

List of Participants is enclosed at **Annexure-I**.

- 1.0 COO (CTU), POWERGRID welcomed the participants for the 15th Meeting of Southern Region (SR) constituents regarding Long Term Access and Connectivity applications of SR. In his opening remarks, he informed that as per the earlier circulated agenda, POWERGRID have received 5 nos. of new connectivity applications from Wind generation developers. He informed that there is no bay space in the existing POWERGRID substation in the area to accommodate these wind generators. Further these wind generators have not applied for LTA so there is no commitment under LTA for development of new transmission system. Therefore, these applications need to be discussed in details to work out their connectivity system. COO (CTU), POWERGRID requested CDE (CTU), POWERGRID to proceed with the agenda for the meeting.
- 2.0 **Confirmation of the minutes of 14th Meeting of Southern Region constituents regarding Long Term Access and Connectivity applications**
- 2.1 POWERGRID stated that, there were no comments received on the minutes of the 14th Meeting of Southern Region constituents regarding Long Term Access and Connectivity

applications issued vide letter dated 15.05.2012 and the minutes are confirmed. Copy of the minutes is available at POWERGRID website (www.powergridindia.com).

3.0 Common Transmission System Associated with IPP Projects in Srikakulam Area, Andhra Pradesh

3.1 POWERGRID informed that the transmission system for evacuation of power from IPP projects in Srikakulam area was earlier planned to be developed under 2 phases viz. the 765/400 kV Srikakulam Pooling Station along with Srikakulam – Angul 765 kV D/c line to be initially charged at 400 kV under the “Common Transmission System Associated with IPP projects in Srikakulam Area Part – A” and subsequently upgraded to 765 kV level in “Common Transmission System Associated with IPP projects in Srikakulam Area Part – C”.

During the 33rd Meeting of Standing Committee on Power System Planning in Southern Region held on 20th October 2011, Srikakulam Pooling Station – Vemagiri Pooling Station 765 kV D/c line was approved to facilitate import of power to Southern Region due to changed load generation scenario and this is being implemented through Tariff Based Competitive Bidding.

3.2 It was further stated that, in view of these developments it is prudent to establish Srikakulam pooling station at 765 kV level right from the beginning and accordingly also charge the Srikakulam – Angul 765 kV D/c line at its rated voltage of 765 kV from the beginning itself. This inter-alia would mean taking up Part – A and Part – C of the transmission system together with suitable deletion of elements meant for initial charging the system at 400 kV from the scope of Part – A of the system.

POWERGRID also informed that they are in the process of Land Acquisition for Srikakulam Pooling Station and it has been learnt from the site that locating suitable site avoiding physical factors like water bodies, wet land, small holding farmers, forest area, hillocks etc is extremely difficult. Further, there is lot of resistance from local people also. From about 20 nos. of sites surveyed, we have zeroed on one of the most suitable site but the same is not enough to accommodate normal 765/400 kV AIS substation. Considering all these factors he proposed that Srikakulam Pooling Station may be constructed with 400 kV portion as AIS and 765 kV portion as GIS.

3.3 POWERGRID further informed that in this regard, CEA vide its letter dated 21-05-2012 has already conveyed their in-principle clearance for constructing Srikakulam Part – A and Part – C together in the same time frame and Srikakulam Pooling Station with 400 kV portion as AIS and 765 kV portion as GIS subject to regularisation in the next Standing Committee Meeting.

3.4 After discussion it was agreed for constructing of Srikakulam Part – A and Part – C together in the same time frame and Srikakulam Pooling Station with 400 kV portion as AIS and 765 kV portion as GIS, with suitable deletion of elements meant for initial charging the system at 400 kV from the scope of Part – A.

4.0 Implementation of Common Transmission System Associated with IPPs in Vemagiri Area, Andhra Pradesh & Request of GMR Rajahmundry Energy Limited for connectivity through LILO of Vijayawada – Gazuwaka 400 kV S/c line as an interim arrangement till the commissioning of Vemagiri Pooling Station.

- 4.1 POWERGRID informed that the Common Transmission System Associated with the IPPs in Vemagiri area, Andhra Pradesh inter-alia comprised of two nos. of 765kV D/c line from Vemagiri to Hyderabad via Khammam. Looking into the uncertainty of the availability of Gas only one 765kV D/c line was under taken for implementation through Tariff Based Competitive Bidding route which was planned to be initially charged at 400kV level.

It was also informed that during the joint visit by CEA & POWERGRID, it was gathered that GMR project of 768 MW is already commissioned & Samalkot project of 2400 MW is partially commissioned and are waiting for gas allocation. Also Srikakulam – Vemagiri 765kV D/c line has been planned to facilitate import to Southern Region for meeting future load demand.

- 4.2 Considering all these factors POWERGRID have proposed to charge the Vemagiri – Khammam – Hyderabad 765kV D/c line at its rated voltage of 765kV right from the beginning, for which CEA vide its letter dated 17th September, 2012 had already conveyed its in-principle approval subject to regularisation in the next meeting of Standing Committee.

- 4.3 POWERGRID, further stated that the Common Transmission System inter-alia also comprised of Hyderabad – Wardha 765kV D/c, which upon the decision of Empowered Committee on Transmission, POWERGRID is implementing this line. It has been learnt from the site that as per the preliminary survey the line length of this line is becoming more than 500 kms. The increase in line length is due to line routing, to avoid Hyderabad City limits and Forest stretches.

In view of the above, POWERGRID proposed to establish a 765/400 kV substation at intermediate location enroute Hyderabad – Wardha 765 kV D/c line making Hyderabad – intermediate substation – Wardha 765 kV D/c line and the intermediate substation at 400kV level shall be connected to Southern Grid which shall be decided later based upon the Joint studies of APTRANSCO, POWERGRID & CEA.

- 4.4 After discussion following transmission system was agreed

- a) Vemagiri – Khammam – Hyderabad 765kV D/c line shall be charged at its rated voltage of 765kV level right from the beginning.
- b) Establish a 765/400kV substation at intermediate substation enroute Hyderabad – Wardha 765kV D/c line making Hyderabad – intermediate substation – Wardha 765 kV D/c line with suitable interconnection at 400kV level to southern regional grid.

It was further decided that the location of intermediate 765/400kV substation and its interconnection at 400kV level to SR grid shall be decided separately in association with APTRANSCO.

- 4.5 GMR Rajahmundry Energy Limited (GREL) informed that their 768 MW Gas based power plant is ready; however there is no generation due to un-availability of Gas. Further they have indicated that they are implementing the connectivity line 400 kV quad line from their power plant to 765/400 kV Vemagiri Pooling Station as per the revised intimation issued by POWERGRID. The Vemagiri Pooling station is targeted for commissioning by April, 2015 matching with commissioning of TBCB lines. Considering the timeline of Vemagiri Pooling station, GREL have requested LILO of Gazuwaka-Vijayawada 400 kV S/c line at their power plant by joining their connectivity 400 kV line as an interim arrangement till the commissioning of Vemagiri Pooling station of POWERGRID.

- 4.6 POWERGRID representative stated that as per revised connectivity granted to GMR on their request, the connectivity line to be constructed by GMR is to terminate at Vemagiri pooling station. POWERGRID has completed all the preliminary activities for taking up construction of Vemagiri pooling station. As this is a GIS substation various issues of equipment compatibility are involved hence POWERGRID had been repeatedly requesting GMR and Samalkot for signing of agreement for implementation of bays at Vemagiri pooling station for termination of their dedicated line. However both the generation developers are not agreeing for the same and are delaying it. In view of this, it may be appreciated that if POWERGRID starts working on implementation of Vemagiri pooling station without waiting for signing of agreement for implementation bays for termination of dedicated line, and if none of the IPPs terminate their connectivity transmission line then not only Vemagiri pooling station shall remain unutilised but shall also lead to compatibility issue of GIS bays at a later date when these generation developers decide to terminate their transmission line.
- 4.7 Samalkot representative stated that uncertainty with respect to availability of gas is known yet they have made investment in the generation project and it is not that there is no gas, it is just time frame of its availability is uncertain. He explained that though there is no constraint on availability of funds for construction of bays but they are in tight situation as their lenders have put restriction in such an uncertain situation. He stressed that utility of Vemagiri substation is coupled with the availability of Vemagiri – Khammam – Hyderabad line, however, the order from CERC on the license application of POWERGRID is yet to come. This adds to the uncertainty with respect to availability of Vemagiri – Khammam – Hyderabad line also.
- 4.8 DGM (CTU) stated that taking into consideration that the generation project of GMR is already on the ground and that of Samalkot is partially completed, it would be required that Vemagiri Pooling station and the Vemagiri – Khammam – Hyderabad line are implemented as per schedule. He further mentioned as the generation developers are not facilitating implementation of Vemagiri pooling station which may lead to delay in Vemagiri Transmission system and under such situation if availability of gas is announced at a short notice the generation shall be bottled leading to disputes especially in the light of LTA already granted to both Samalkot and GMR.
- 4.9 Samalkot representative mentioned that the application for LTA has been made with tentative/target beneficiaries hence as per their understanding of present CERC regulations their LTA cannot get operationalised until the beneficiaries are tied up. Under such situation he questioned the relevance/validity of the BPTA signed with CTU. He further stated even question of levying transmission charges is very vital. He clarified that as the generation project is financed on its own merit, they shall not be in a position to pay transmission charges in case it does not operate due to non-availability of gas. Therefore, they are taking step by step decision as the question here it not only for transmission charges on account of bays for termination of dedicated line at Vemagiri pooling station but also that of entire Vemagiri transmission system corresponding to 2200 MW. He stated that in the background of uncertainty of availability of gas and time frame of commissioning of onward Vemagiri – Khammam – Hyderabad due to delay in disposal of license application by CERC they don't find any merit is agreeing to sign the agreement with POWERGRID for implementation of bays at Vemagiri pooling station. Regarding levy of transmission charges, CTU clarified that Samalkot Power is liable for payment of charges in the event of commissioning of transmission system even when LTA cannot get operationalise due to beneficiary not tied up. In fact many generators are presently paying transmission charges in this category. Towards this, the representative of Samalkot had indicated that their understanding as indicated above (at the beginning of para) remains same.

4.10 Based on the discussions, the following issues emerged out:

- The uncertainty of gas still remains and the lenders have put restriction in financing even for the bays for termination of dedicated line at Vemagiri Pooling Station
- IPPs in Vemagiri area have reluctance in signing the agreement with POWERGRID for implementation of bays at Vemagiri Pooling Station
- Levy of transmission charges towards LTA which does not get operationalised in absence of firm beneficiaries
- Payment of transmission charges in the event of generation plant not operating due to non-availability of gas.
- IPPs are taking Step by Step approach to the transmission system in view of restrictions put by lenders.

4.11 Member (PS), CEA stated that views of Samalkot and GMR has been carefully considered but there is also a predicament with respect to implementation of Vemagiri pooling station and onward Vemagiri – Khammam - Hyderabad transmission line. It was decided that a separate meeting shall be convened in CEA for addressing this issue.

4.12 As regards the request of GMR for interim LILO the matter was deliberated and as the constituents were not in agreement the same was not agreed to.

5.0 **Request of Lanco Kondapalli Power Limited (LKPL) for reduction of Long-term Open Access granted from their Phase-II power plant from 250 MW to 75 MW**

5.1 POWERGRID informed that LANCO Kondapalli Power Limited (LKPL) was granted Long-term Open Access (LTOA) for a quantum of 350 MW in June, 2009 for a period of 25 years and the same was to become effective from date of commissioning of the generation project. The LTOA was granted for target beneficiaries in WR – 200 MW and NR – 150 MW.

Subsequently, in January, 2012 LKPL submitted request for reduction of LTOA quantum by 100 MW. The above proposal was discussed and approved in the 33rd meeting of Standing Committee on Power System Planning in SR and 19th meeting of SRPC.

5.2 Further vide letter ref. no. LKPL:PGCL:4489:2012 dated 14 August, 2012 and subsequent reminder dated 4 September, 2012, LKPL have requested for reduction of LTOA quantum from 250 MW to Zero MW.

➤ The major reasons mentioned by the LKPL for seeking reduction of LTOA quantum to Zero MW are as below:

- Non- availability of gas due to reduction of gas from KG D6 basin. CEA in its notification dated 20th March, 2012 have indicated that

quote

“further reduction in KG D6 production is expected to be about 15 MMSCMD in 2012-13, 3.42 MMSCMD in 2013-14 and has not given any projection for the year 2014-15 and 2015-16. Considering the priority allocation from KG D6 field to fertilizer & CGD sector, the net availability of gas to power sector from KG D6 filed is expected to be nil.”

unquote.

- The entire power will be supplied to AP Discoms only, towards which LKPL has given undertaking that entire power to be generated on the available gas from its Phase-II will be supplied to AP only.
 - In the present scenario of dwindling gas supplies from KG D6 basin, LKPL may not get qualified to participate in the medium/long term power procurement bids called by State utilities because of non-availability of FSA which is a pre-requisite for any generator to participate in the Case-I bids. Hence they are bound to sell electricity in Andhra Pradesh only and that too through short term route only.
- 5.3 The issue was deliberated during the 20th meeting of SRPC held on 28 September, 2012 in Hyderabad and the decision is reproduced as below:
- “The Committee agreed with the recommendation of TCC that in view of the petition filed before Hon'ble CERC by POSOCO, status quo of present billing may be continued.”*
- 5.4 Subsequently LKPL vide their letter dated 29 November 2012 has requested for reduction of LTA from 250 MW to 75 MW and request for change in the target region from WR, NR to SR. Further vide above letter LKPL had indicated that reduction of LTA is sought due to the continuous reduction in the output of KG D-6 basin, Also vide above referred letter LKPL has indicated change in target region from WR & NR to SR because electricity supply to home state has been made a pre-condition for supply of gas.
- 5.5 LKPL representative said that though they have been granted LTOA for 350 MW, however in absence of PPA with beneficiaries their LTOA is not getting effected and they are not getting any benefit of LTOA regulations in priority, scheduling etc. for their generation. However in absence of PPA they are resorting to STOA for power transfer from their generation project. Further they are not getting full capacity gas and also have given undertaking to MOP for sale of power to Andhra Pradesh, therefore the LTOA may be reduced to 75 MW and target regions may be changed to Southern Region.
- 5.6 APTRANSCO representative stated that they are not agreeable to reduce the quantum from 250MW to 75 MW.
- 5.7 KPTCL was of the opinion that the quantum & target regions should remain unchanged.
- 5.8 SRPC was of the opinion that the direction from MOP in this regard may be followed for the gas based generation projects.
- 5.9 ED (SRLDC), POSOCO said that the target region should not be changed against another target region and therefore should remain unchanged.
- 5.10 Member (PS), CEA & POWERGRID stated that matter is to be discussed in further meetings with all the SR constituents.
- 6.0 **Long-term Access of Simhapuri & Meenakshi Energy Private Limited.**
- 6.1 POWERGRID informed that Long-term Access (LTA) was granted to Simhapuri Energy Private Limited (SEPL) for a quantum of 546 MW from their generation capacity of 600 MW (4x150 MW) in Krishnapatnam Area, Andhra Pradesh. In this area, POWERGRID has also granted Long-term Access to Meenakshi Energy Private Limited (MEPL) for a quantum of 910 MW from their generation capacity of 1000 MW (2x150 + 2x350 MW).
- 6.2 The above LTA was subject to dedicated line from SEPL/MEPL to Nellore 400 kV D/c

(quad) line and strengthening of transmission system. The dedicated line to Nellore was proposed while granting LTA, keeping view the generation schedule, availability of bays at Nellore & conservation of the Right-of-way for the corridor. The common transmission System for LTA is under implementation by POWERGRID and is expected to be commissioned by September, 2014. Under this system it was proposed to LILO both circuits of SEPL/MEPL-Nellore 400 kV D/c line at Nellore Pooling Station.

- 6.3 Both these generation projects SEPL & MEPL have commissioned their first unit and during the commissioning they faced difficulties in scheduling, dispatch, metering, energy accounting including UI etc. Therefore, MEPL has approached the Hon'ble CERC vide their petition no. 205/MP/2011 and while disposing the petition on 09.10.2012 the commission directed as below:

“The generating stations of the petitioner (MEPL) and Respondent No.5 (SEPL) shall be treated by SRLDC as separate and independent entities for the purpose of scheduling and dispatch, metering, energy accounting including UI computation by opening the inter-connection line between the generating stations and installing separate meters at the interconnection points at Nellore. We order accordingly.”

In view of the direction of CERC to open the interconnecting line between these generation projects, the generation projects are getting radially connecting to Nellore through 400 kV S/c (quad) line. This arrangement has lead to failing in N-1 reliability criteria for both the generation projects.

- 6.4 However for meeting N-1 criteria, additional 400 kV D/c line to Nellore Pooling Station is proposed from any one of the power plant. Upon commissioning of proposed line the existing dedicated MEPL/SEPL – Nellore 400kV D/c line may be re-routed for emanating from one power plant only.
- 6.5 The MEPL representative stated that they have gone to Appellate Tribunal for Electricity against the order of CERC and made presentation & proposed two options that committee may consider for the metering arrangement or the dedicated transmission line may be taken over by the POWERGRID.
- 6.6 POWERGRID informed that it can not take over a transmission line developed by a private party.
- 6.7 Member (PS), CEA stated that since the matter is pending before Appellate Tribunal & is sub-judice in nature and need no further deliberations.

7.0 Issue of Long Term Open Access Granted to Udupi Power Corporation Ltd.

- 7.1 CDE (CTU), POWERGRID informed that Udupi Power Corporation Limited (UPCL) was granted Long Term Open Access (LTOA) way back in June, 2007 under prevailing CERC Regulations, 2004. As per the intimation for grant of LTOA the applicant was granted LTOA at Hassan bus for 939 MW [Karnataka (845 MW) and Punjab (94 MW)]. In this regard, he explained that UPCL generation is an ISGS having allocation to more than one State who have sought and granted LTOA to Inter-State Transmission System (ISTS).
- 7.2 The transmission system identified for grant of LTOA included NPCL switchyard – Hassan 400 kV quad D/c as dedicated line and Hassan – Mysore 400kV D/c line as system strengthening. However, subsequently, dedicated transmission line was constructed by KPTCL as State sector line. He further informed that the applicant despite repeated efforts

have not signed requisite agreement for sharing of applicable transmission charges.

- 7.3 Director (KPTCL) expressed that they are not agreeable for seeking LTOA for their share of power from the UPCL generation project.
- 7.4 Member Secretary (SRPC) mentioned that this issue has been regularly appearing as agenda item in SRPC meetings with no resolution. He expressed that pending resolution of LTOA quantum of Karnataka, the LTOA to Punjab for 94 MW may be regularised as per their request.
- 7.5 After deliberations it was decided that in view of the request of Punjab their LTOA for 94 MW with Hassan substation as injection point may be regularised for which Punjab shall sign requisite agreement with POWERGRID for sharing of applicable ISTS transmission charges. Further regarding the LTOA quantum of Karnataka shall be discussed separately.

8.0 Connectivity applications of wind farm established by various IPP developers

- 8.1 POWERGRID proposed to consider grant of Connectivity to 4 nos. of applicants & 1 no. lead generator on behalf of 4 nos. wind generation developers who have applied for grant of Connectivity as per CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Regulations, 2009 as per details given below in Table.

Application from IPP developers →

Sl. No	Applicant	Time frame	Location	IC (MW)	Connectivity Sought for (MW)
1.	Mytrah Energy (India) Limited	Mar, 2013	Tirunelveli Dist., Tamil Nadu	300	300
2.	R.S. India Global Energy Limited	Mar, 2014	Tirunelveli Dist., Tamil Nadu	270	270
3.	Suzlon Power Infrastructure Limited	Mar, 2014	Tirunelveli Dist., Tamil Nadu	1000	850
4.	Suzlon Power Infrastructure Limited	Dec, 2012	Coimbatore Dist., Tamil Nadu	200	180
5.	SISL Green Infra Limited **	Dec, 2012	Tirunelveli Dist., Tamil Nadu	48.5	48.5
6.	Samimeru Windfarms Private Limited **	Dec, 2012	Tirunelveli Dist., Tamil Nadu	48.5	48.5
7.	Samiran Udaipur Wind farms Ltd. **	Mar, 2013	Tirunelveli Dist., Tamil Nadu	48.5	48.5
8.	Shivam Filaments Private Limited **	Mar, 2013	Tirunelveli Dist., Tamil Nadu	48.5	48.5
	Total			1964	1594

** Note – M/s Samimeru Windfarms Pvt. Ltd. shall be the lead generator for connectivity applications of wind generators mentioned in table at Sl. No. 5-8.

- 8.2 Member (PS), CEA stated that all these Connectivity applicants are wind generation developers and may not remain the owner of the generation plant, once Connectivity is granted. Therefore POWERGRID should seek necessary legal opinion whether these

applicants are legal entities to apply for Connectivity as per the prevailing CERC regulations. It was decided that the matter regarding grant of connectivity to these applicants shall be considered after the legal opinion is available.

9.0 Long pending Connectivity applications due to non-satisfactory progress - discussed in earlier meetings.

9.1 POWERGRID stated that the grant of Connectivity and LTA as per the CERC regulation, 2009 is a time bound activity (connectivity to be granted in 60 days and LTA in 120/180 days). Further it is directed by Hon'ble CERC that the transmission system development should be phased to avoid creation of any redundant transmission capacity. In the past, to facilitate project development activities POWERGRID had granted connectivity/LTA even to projects who had not achieved important milestones but in such cases it is seen that such IPPs are repeatedly delaying the signing of BPTA and furnishing Bank Guarantee. Such delay in the BPTA/BG complicates the matter, especially in the scenario of implementation of transmission system through competitive bidding, where the selected bidder is not liable to delay/advance the commissioning schedule to match with the generation progress.

9.2 In this regard, at present there are number of Connectivity & LTA applications pending for about 1 to 2½ years. These applications had been taken up since last 3-4 meeting with not much progress observed in respect of project development. In view of the forgoing and to avoid unrealistic planning, POWERGRID proposed to close these applications and they may apply afresh whenever the projects have progressed in getting requisite clearances.

9.3 After discussion the committee agreed for Connectivity & LTA application as given in the following table:

Sl. No	Connectivity & LTA Applicant	Time frame	Connectivity / LTA Quantum	Decision of the Committee
1.	Sindya Power Gen. Company Pvt Ltd	Jun, 2014	Conn – 1320 MW LTA – 1060 MW	Extension of 6 months
2.	Empee Power & Infrastructure Pvt. Ltd.	Apr, 2013	Conn – 1241 MW LTA – 1241 MW	Close the applications as no representative was available to update the status.
3.	NPCIL - Kudankulam-II	2016	Conn – 2000 MW	Connectivity may be granted through Kudankulam-II – Tuticorin pooling station 400kV D/c (Quad) line and with suitable re-arrangements
4.	AES Naganadu Power Pvt. Ltd.	Dec, 2016	Conn – 1400 MW	Close the applications as no representative was present.
5.	Lanco Kondapalli Power Ltd. (Ph-III)	Dec, 2012	LTA – 550 MW	Extension of 6 months
LTA applications (LTA granted but yet to sign LTA agreement)				
6.	PPN Power Generating Company Ltd.	Dec, 2012	LTA – 360 MW	Matter under CERC review.
7.	NSL Nagapatnam Power & Infratech Pvt. Ltd.	Oct, 2014	LTA – 1240 MW	Extension of 6 months
8.	Chettinad Power	Dec,	LTA – 1110 MW	Extension of 6 months

Sl. No	Connectivity & LTA Applicant	Time frame	Connectivity / LTA Quantum	Decision of the Committee
	Corporation Pvt. Ltd.	2013		
9.	Hinduja National Power Corporation Ltd	Jan, 2013	LTA – 725 MW	Close the applications as no representative was available to update the status.

(Items added as per the Corrigendum to Minutes of 15th Meeting of Southern Region constituents regarding LTA and Connectivity applications in Southern Region)

10.0 Long-term Access Application of Jaiprakash Power Ventures Limited

10.1 DGM(CTU) stated that POWERGRID had received an application from IPP in Northern Region viz. Jaiprakash Power Ventures Limited (JPVL) and the details are as given below:

Power Plant	Installed Capacity (MW)	Quantum of LTA (MW)	Target Beneficiary
Karcham Wangtoo HEP (existing)	1000 (4x250)	704	NR-440 MW, WR-176 MW & SR-88 MW

Karcham Wangtoo HEP is located in the state of Himachal Pradesh with installed capacity of 1000 MW. The generating station and its immediate evacuation system is existing and is as given below:

- a. LILO of both circuits of Baspa – Nathpa Jhakri (triple snowbird) at Karcham Wangtoo HEP
- b. Karcham Wangtoo HEP – Abdullapur 400 kV D/c (quad) line.

Abdullapur 400/220 kV of POWERGRID is in the state of Haryana and this substation is integrated with Northern Region grid.

10.2 The matter of granting LTA was discussed in the LTA meeting of NR constituents along with 31st Meeting of Standing Committee on Power System Planning in NR on 2nd January 2013 wherein POWERGRID informed to JPVL that LTA of 88 MW to Southern Region would be feasible only from July 2014 onwards, as entire corridor to Southern Region is already booked and there are no margins available. It was also informed to JPVL that as there are no firm beneficiaries from this project, therefore there shall not be any scheduling of power from this generation project to SR and also rights on the corridor shall not be available. Subsequently, JPVL informed that till June 2014, LTA may be granted with Northern Region constituents as target beneficiaries and thereafter to Southern Region constituents from July 2014 onwards.

Accordingly it was decided to grant Long-term Access to JPVL for transfer of 88 MW power from Karcham Wangtoo HEP to target beneficiary as Southern Region constituents from July, 2014 to March, 2037.

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Annexure-I

List of participants of the 15th Meeting of Southern Region regarding Connectivity and LTA applications of SR held on 04.01.2013 at Gurgaon

Sl. No. Name and Organization Designation

Central Electricity Authority (CEA)

- | | | |
|----|----------------|------------------------|
| 1. | Ravinder | Member (Power Systems) |
| 2. | K K Arya | CE (CEA) |
| 3. | Pardeep Jindal | Director (SP&PA) |

Southern Region Power Committee (SRPC)

- | | | |
|----|----------|----------------------|
| 4. | S R Bhat | Member Secretary I/c |
|----|----------|----------------------|

Power Grid Corporation of India Limited (POWERGRID)

- | | | |
|-----|------------------------|-----------|
| 5. | Y K Sehgal | COO (CTU) |
| 6. | R K Chauhan | GM (CTU) |
| 7. | Dilip Rozekar | DGM(CTU) |
| 8. | R V Madan Mohan Rao | CDE (CTU) |
| 9. | Anil Kumar Meena | DCDE(CTU) |
| 10. | Amrendra Kishore Singh | DE(CTU) |
| 11. | Ankush Patel | EET(CTU) |

Power System Operation Corporation Limited (POSOCO)

- | | | |
|-----|---------------|----------------------|
| 12. | P R Raghuram | ED, SRLDC |
| 13. | N Nallarasana | DGM, NLDC |
| 14. | S P Kumar | Chief Manager, SRLDC |
| 15. | G Madhukar | Sr. Engineer, SRLDC |

NTPC Limited (NTPC)

- | | | |
|-----|---------------|-----|
| 16. | Dinkar Devate | GM |
| 17. | S S Mishra | AGM |

Nuclear Power Corporation of India Limited (NPCIL)

- | | | |
|-----|-----------|----|
| 18. | K P Singh | CE |
|-----|-----------|----|

Transmission Corp. of Andhra Pradesh Ltd. (APTRANSCO)

- | | | |
|-----|-------------------|-------------------|
| 19. | P Sri Rama Rao | Director |
| 20. | C V Subba Rao | SE (SP) |
| 21. | V V Ramana Murthy | DE/System Studies |

Karnataka Power Transmission Corporation Limited (KPTCL)

- | | | |
|-----|----------------|-------------------------|
| 22. | S Pratap Kumar | Director (Transmission) |
| 23. | D Chethan | EE (PSS) |

24. A J Hosamani CEE (P&C)

Connectivity/LTA Applicants

1.	Rakesh Gupta	COO	Lanco Kondapalli Power Ltd.
2.	Bharat Saxena	Sr. VP (Op)	Lanco Kondapalli Power Ltd.
3.	R. Parthasarathy	ED (Op)	Lanco Kondapalli Power Ltd.
4.	A K Asthana	Adv.(RPTL)	Samalkot Power Ltd.
5.	Madan Mohan	GM	Mytrah Energy India Ltd.
6.	Kiran V	DGM	Mytrah Energy India Ltd.
7.	Naresh Panchal	Head-PE	Suzlon Power India Pvt. Ltd.
8.	NSM Rao	GM (Grid)	Suzlon Power India Pvt. Ltd.
9.	K Balachandra	VP (Projects)	Sindya Power Generating Company Ltd.
10.	V Chandramo Leeswanw	Director	Chettinad Power Corporation Pvt. Ltd.
11.	N P Hanagodu	CEO	Meenakshi Energy Pvt. Ltd.
12.	S N Sunkari	GM (Trans)	GMR Energy Limited
13.	Rajnish Mahajan	AGM (Trans)	GMR Energy Limited
14.	Rajpal Singh	GM (Elec)	National SEZ Infra Services Pvt. Ltd.

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