

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

No. 51/4/SP&PA-2012/146-158

दिनांक/ Date: 06-02-2012

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 (Grid Operation), 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: 33rd 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 33वीं बैठक का कार्यवृत्त - शुद्धिपत्र

Sir,

The Minutes of **33rd meeting** of the Standing Committee on Power System Planning of Southern Region were issued vide our letter No. 51/4/SP&PA-2011/1647-58 dated 15th November, 2011.

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

Yours faithfully/भवदीय,

Encl: As above

(प्रदीप जिंदल)/(Pardeep Jindal)

निदेशक(प्र. यो. एवं प. मू. प्रभाग)/Director (SP&PA)
(Telephone: 011 26198092, Fax No. 011 26102045)

Copy to:

(1) Sh. SK Soonee, CEO, POSOCO,
B-9, Qutub Institutional Area,
Katwaria Sarai,
New Delhi-110016

(2) Sh. Shashi Shekhar, Joint Secretary,
Min. of New & Renewable Energy,
CGO Complex,
New Delhi -110003

**Corrigendum to Minutes of 33rd Meeting of
Standing Committee on Power System Planning in Southern Region (SCPSPSR)
held on 20th October, 2011 (Thursday) at Northern Region Power Committee,
Katwaria Sarai, New Delhi.**

Corrigendum # 1

Based on the observations from GM (SRLDC) vide his letter No. GM/SRLDC/12/0105-74 dated 05-01-2012, the following Para is added under **Item No. 5.0** in the Minutes of 33rd meeting of the Standing Committee on Power System Planning of Southern Region:

- “5.5 GM (SRLDC), informed that high voltages are observed in Vemagiri area of Andhra Pradesh and suggested for provision of 1x80 MVAR bus reactor at Vemagiri area. CE(PS) APTRANSCO, agreed to provide this reactor at their Vemagiri 400 kV substation. Members agreed for the same.”**

Corrigendum # 2

POWERGRID issued the minutes of 13th meeting of Southern Region constituents regarding LTA and Connectivity applications in Southern Region vide their letter No. C/ENG/SEF/S/00/LTA dated 25-11-2011. Based on the request from DGM(Engg-SEF) POWERGRID vide letter No. C/ENG/SEF/S/00/SCM dated 08-12-2011, the following Para 18.0 is added to the Minutes of 33rd meeting of the Standing Committee on Power System Planning of Southern Region:

“18.0 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 13th meeting of Southern Region Constituents held in this regard. Minutes of this discussion were issued by POWERGRID vide their letter No. C/ENG/SEF/S/00/LTA dated 25-11-2011 and the same is given at **Annexure-II**”

**Minutes of 13th Meeting of Southern Region constituents
Regarding Long Term Access and Connectivity Applications in Southern Region
held on 20 October, 2011 at NRPC, Katwaria Sarai, New Delhi.**

1.0 List of Participants is enclosed at Annexure-III.

2.0 ED, POWERGRID welcomed the participants for the 13th 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 had received 3 nos. of new applications for Connectivity and 2 nos. of new applications for LTA after the 12th meeting. Further he informed that there are 16 nos. of Connectivity applications (15 nos from IPPs and 1 nos from bulk consumer) and 5 nos. LTA application for which discussions were held earlier however could not be finalised in view their tardy progress. These applications are proposed to be discussed along with other related issues.

He further indicated that the procedures for grant of Connectivity and Long-term Access are under revision due to post January 5, 2011 development (as per which new transmission systems are to be implemented through Tariff Based Competitive Bidding) and Point of Connection charges which got effect from July 1, 2011. ED, POWERGRID requested DGM (SEF), POWERGRID to proceed with the agenda for the meeting.

3.0 Confirmation of the minutes of 12th Meeting of Southern Region constituents regarding Long Term Access and Connectivity applications

3.1 KPTCL and NLC had some observations on Connectivity/LTA applications of Kudgi and Neyveli (Replacement) respectively. POWERGRID representatives stated that as these applications are proposed to be re-discussed in today meetings so they shall be suitably addressed. Further, there were no other comments on the minutes of the 12th Meeting of Southern Region constituents regarding Long Term Access and Connectivity applications issued vide letter dated 28 .06.2011 and the minutes were confirmed.

4.0 Procedures for Grant of Connectivity and Long-term Access as per CERC, 2009 regulations

4.1 DGM (SEF), POWERGRID explained that due to change in the Tariff policy post January 5, 2011 i.e. building new transmission systems through tariff based competitive bidding and application of CERC (Sharing of ISTS charges and losses), Regulations, 2010 with effect from July 01, 2011 therefore the procedures for grant of Connectivity and Long-term Access (LTA) are undergoing revisions. He indicated that in a public hearing held on 12 October, 2011 in CERC regarding Connectivity/Access Regulations, 2009, POWERGRID made a presentation for requirement of change in procedures due to above changes. He further informed that the criteria for granting Connectivity/Long-term access has been evolved based on the experience gained after processing numerous applications. DGM (SEF) explained the minimal conditions required for grant of Connectivity/LTA and the procedure adopted while processing applications as given in the flow-chart below. He further indicated that "Provisional Connectivity / LTA" has been introduced depending upon the progress of the generation projects achieving minimal milestones.

4.2 The indicative flow chart of the revised procedures submitted to CERC for approval is given at **Annexure-IV**.

5.0 New LTA applications of Southern Region

5.1 Lanco Kondapalli Power Limited (Phase-III : 2x240 + 2x130 MW)

POWERGRID had informed that LTA application from Lanco Kondapalli Power Limited (LANCO) has been received with following details.

Applicant	IC (MW)	LTA applied for (MW)	Time Frame	Target Beneficiary Region (SR)
Lanco Kondapalli Power Limited (Phase-III)	740	550	December, 2012	550

In this regard, POWERGRID had informed that LANCO was earlier granted Connectivity of this power plant through bus extension of existing plant and installation of 80 MVAR Bus Reactor in the generation switchyard and requested the generation developer to update the status of generation project. During the meeting LANCO informed that although the open cycle project is ready, the commissioning activities are held up due to non availability of Gas from Ministry of Petroleum & Natural Gas (MoPNG). In view of this, LANCO had requested POWERGRID to keep the LTA application in abeyance till October, 2012 as gas allocation is expected by that time only.

In this regard it was explained that presently beyond Vijayawada there is congestion in the grid and power can be injected to the extent feasible based on the margins in the grid under short term open access only. Further the time period required for strengthening of the grid for accommodating power transfer on reliable basis take at least 3-4 years for completion after its identification. Therefore, if the application is kept in abeyance till October, 2012 then it shall require another 3-4 years before which LTA shall not be effective and power injection can be made only under short term open access based on the margins available in the grid.

POWERGRID informed that Lanco Kondapalli (Phase-III), 740 MW was earlier granted connectivity through bus extension of its existing Lanco Kondapalli Phasi-II switchyard. In the agenda POWERGRID had proposed strengthening of dedicated transmission line from switchyard – Vijayawada 400kV line through re-conductoring of the line with HTLS conductor. Representative of LANCO agreed for the same.

On the request of LANCO, the LTA application is put under hold till October, 2012.

5.2 Simhapuri Energy Private Limited (Phase-I & II : 2x150 + 2x150 MW)

POWERGRID had informed that LTA application from Simhapuri Energy Private Limited (SEPL) has been received with following details.

Applicant	IC (MW)	LTA applied for (MW)	Time Frame	Target Beneficiary Region (SR)
Simhapuri Energy Private Limited	600	55	December, 2012	55

POWERGRID had further informed that SEPL was already granted LTOA earlier from the same power plant for 491 MW. SEPL jointly with Meenakshi Energy Private Limited (MEPL) are developing a dedicated 400 kV D/c (quad) line to Nellore (POWERGRID) substation and likely to be commissioned shortly. Till date, 1401 MW (SEPL -491 MW & MEPL - 910 MW) has been granted on this dedicated line and common transmission system comprising of Nellore & Kurnool 765/400kV substations, Nellore – Kurnool 765kV D/c line and Kurnool – Raichur 765kV S/c line which POWERGRID is already implementing. With the present application, the total LTA from these power plants shall

be 1456 MW for which the dedicated transmission line and the common transmission system mentioned above is adequate.

Further it was pointed out that operational difficulties are being contemplated by both SEPL & MEPL and a petition to this effect has already been made to CERC. In this regard POWERGRID suggested that as a long term solution both SEPL & MEPL may utilise this opportunity of enhancement of capacity to construct one more dedicated transmission line so that both the projects shall be separated at the generation switchyard end.

Based on the deliberations it was decided that the LTA of SEPL is granted with details as above and subject to commissioning of the dedicated line (under implementation jointly by SEPL & MEPL) and “Common System Associated with ISGS projects in Krishnapatnam Area of Andhra Pradesh” & “Associated Transmission System of Krishnapatnam UMPP – Part C1”.

6.0 LTA applications of Southern Region which were discussed earlier

6.1 Neyveli Lignite Corporation Limited TS-I (Replacement – 2x500 MW)

This issue was discussed in the 33rd meeting of standing committee wherein following was deliberated;

6.1.1 Director (SP & PA), CEA informed that the following transmission system for Connectivity and LTA was agreed during the 32nd Meeting of SCPSPSR:

Connectivity Transmission System

- (i) LILO of existing Neyveli TS II – Neyveli TS – I expansion 400 kV S/s at generationswitchyard
- (ii) Provision of 2x315 MVA, 400/220 kV transformer at generation switchyard
- (iii) 1x80 MVAR Bus Reactor at generation switchyard

LTA Transmission System

- (iv) Neyveli (Replacement) – Sholinganallur 400 kV D/c line

He further stated that NLC had proposed to work out an alternate system instead of LILO of existing Neyveli TS-II – Neyveli TS-I expansion 400 kV S/c at generation switchyard.

6.1.2 In this regard, POWERGRID explained that Neyveli TS II, Neyveli TS-II expansion, Neyveli Ts-I expansion and the proposed replacement comprise a single power complex. Looking into the number of transmission lines emanating from Neyveli complex the proposed LILO was envisaged. It was further explained that LILO of any of the line which is practically convenient to implement should be finalised. ED (SR-II), POWERGRID said that the proposed LILO seems to be the most workable option.

6.1.3 Director, TANTRANSOCO said that Neyveli – Sholinganallur 400 kV D/c line may not be required as a number of generation projects viz. Vallur TPS (1500 MW), North Chennai expansion (1200 MW) etc. are proposed in the Chennai area. Accordingly, transmission strengthening proposed earlier viz. Neyveli (Replacement) – Sholinganallur 400 kV D/c may not be taken up.

6.1.4 It was decided that NLC and POWERGRID based on the site realities may decide upon which line to be LILOed at Neyveli (Replacement) switchyard. As regards the implementation, POWERGRID said that - this line LILO line is under the ownership of NLC and lies entirely in the Neyveli complex therefore its implementation should be taken up by NLC only.

- 6.1.5 Director(SP&PA), CEA said that as the existing 230kV lines are very old and it is right time to replace/upgrade these lines as they would serve for next 25-30 years period i.e. for the life of the replacement project.
- 6.1.6 Member(Power System), CEA opined that for strengthening the network at 230kV level conductor of good configuration may be used and instead of 2x315 MVA transformer 7x166MVA single phase transformers (i.e. 1000 MVA capacity) can be installed.
- 6.1.7 After deliberations following was agreed for the 2x500MW Neyveli Lignite Corporation Ltd. TS-I Replacement Project:**

a) To be carried out by NLC(for connectivity system):

- (i) Provision of 7x166 MVA single phase 400/230 kV transformer at generation switchyard
- (ii) 1x80 MVAR Bus Reactor at generation switchyard
- (iii)LILO of existing Neyveli TS-II – Neyveli TS-I expansion 400 kV S/c at generation switchyard or of any other line as decided by NLC and POWERGRID based on the site realities.

b) To be carried out by TANTRANSCO/TNEB:

- To coordinate with NLC to reconfigure and re-conductor the existing 230kV network emanating from NLC project. TNEB may take help from CEA/CTU for system studies/design of the system.

c) To be carried out by POWERGRID (for LTA Transmission System):

- POWERGRID would identify the 400kV line for LTA requirement in place of the earlier agreed Neyveli (Replacement) – Sholinganallur 400 kV D/c line, in coordination with TNEB and NLC.

6.2 NTPC Limited Kudgi TPS (Phase-I – 2400 MW)

This issue was discussed in the 33rd meeting of standing committee wherein following was deliberated;

- 6.2.1 Director (SP & PA), CEA informed that the transmission system for Kudgi TPS was agreed in the 32nd Meeting of Standing Committee on Power System Planning in SR held on 8 June, 2011 which inter-alia included stepping up of generation at 765 kV and 765 kV D/C lines from Kudgi to Narendra and Narendra to Madhugiri. Subsequently, KPTCL requested that the proposed Narendra (new) substation may be constructed nearer to Kudgi site as they can help in identification and procurement of land for the substation close to the Kudgi generation project. Further, they suggested 400 kV D/c quad lines from Kudgi to Narendra (existing) and Raichur (new) alongwith Narendra(New) to Madhugiri 765 kV D/c (charged at 400 kV) as a part of evacuation system for Kudgi TPS.
- 6.2.2 In this regard, POWERGRID informed that the Narendra (new) substation is covered under the inter-regional scheme viz. Narendra – Kolhapur 765 kV D/c (initially charged at 400 kV). This link is required in the timeframe of Raichur-Sholapur 765 lines for smooth synchronisation of two large grids. Therefore, it is utmost important that this inter-regional scheme and transmission system for Kudgi should not be clubbed. Prima-facie in line with the proposal of KPTCL the Narendra (new) substation can be constructed near Kudgi TPS site which can later be integrated with Kudgi transmission system matching with the Kudgi generation project.
- 6.2.3 Construction of 765/400kV substation at Narendra (new) near Kudgi was discussed with respect to adoption of AIS/GIS. ED (POWERGRID) explained that they have gone

ahead with 400kV Narendra (new) substation as a GIS substation under the SR-WR inter-regional scheme. After deliberations it was decided that the 400kV Narendra (new) substation near Kudgi site may be constructed as GIS. **Accordingly, the same system as already approved scheme in Standing Committee and RPC and under implementation by POWERGRID with following configuration was agreed as the inter-regional link:**

- (i) Establishment of 400kV GIS substations at Narendra (New, near Kudgi) and Kolhapur(New) (with provision to upgrade to 765kV at a later date)
- (ii) Narendra (New) – Kolhapur (New) 765 kV D/C line (initially charged at 400 kV)
- (iii)Narendra (New) – Narendra (Existing) 400 kV D/C quad line
- (iv)LILO of both circuits of Kolhapur – Mapusa 400 kV D/C line at Kolhapur (New)

6.2.4 As regard Kudgi Transmission System following system was agreed:

Transmission system for Kudgi Phase-I Generation project of NTPC (3x800 MW)

To be provided by NTPC:

- (i) Stepping up of power at the generation project to 400 kV
- (ii) Provision of Bus reactor of 2x125 MVAR at generation switchyard.
- (iii)Provision of 2x500 MVA, 400/220kV transformers at generation switchyard and 6 nos. 220 kV bays

To be implemented as ISTS (as evacuation system for Kudgi TPS Phase-I):

- (i) Kudgi TPS – Narendra (New) 400 kV 2xD/C quad lines
- (ii) Narendra (New) – Madhugiri 765 kV D/C line (initially charged at 400 kV)
- (iii)Madhugiri – Bangalore 400 kV D/c (quad) line. (The terminal point at Bangalore is yet to be decided, for which POWERGRID would take action and inform CEA/SCPSPSR)

6.2.5 In addition to above, a 400 kV D/c quad line from Narendra (New) to Raichur(New) would be considered while planning the transmission system when NTPC applies for LTA for Phase-II (1600 MW) of the Kudgi TPS.

6.2.6 POWERGRID informed that presently NTPC has applied for LTA quantum of 2392.49 MW and requested NTPC Limited to update the status of generation project. In this regard, NTPC had informed the following status:

- Land for Plant area (Stage-I & Stage-II) has been transferred by KIDB to NTPC. Boundary and fencing work is in progress
- In principle approval for allocation of coal block to NTPC under Government dispensation route has been received from MOC
- TOR received and MoEF Application submitted
- Commercial bids for Main plant Packages opened.
- Allocation of power : PPA signed with Karnataka, Kerala, Tamil Nadu & Andhra Pradesh. 50% power allocation to Karnataka has been approved by GOI vide dt. 17.01.11. Tentative Power allocation are as follows:
 - Karnataka: 1200 MW
 - Andhra Pradesh: 419 MW
 - Kerala: 120 MW
 - Tamil Nadu: 301 MW
 - Unallocated: 360 MW

Accordingly it was decided to grant connectivity & LTA for quantum of 2392.49 MW with the transmission system as detailed above.

6.3 LTA applications in Nagapattinam Area

POWERGRID had informed that earlier four nos. of IPPs with LTA capacity of 3837 MW viz. IL & FS Tamil Nadu Power Company (1150 MW), PEL Power (987 MW), NSL Nagapatnam Power & Infratech (1240 MW) and PPN Power (360 MW) were granted LTA with the following corridors:

Common Transmission System for ISGS projects in Nagapattinam/Cuddalore area in Tamil Nadu

- (i) New 765/400kV Pooling station at Nagapattinam (GIS) (initially charged at 400 kV) @
- (ii) Nagapattinam Pooling Station – Salem (new) 765kV D/c line (initially charged at 400kV) #
- (iii) Salem – Madhugiri 765 kV S/c line – 2 (initially charged at 400kV) ##
- (iv) New 765/400kV Pooling station each at Narendra (GIS) and Kolhapur (GIS) (initially charged at 400 kV) *
- (v) Madhugiri – Narendra (new) 765 kV D/c line (initially charged at 400kV) ##
- (vi) Narendra (new) – Kolhapur (new) 765kV D/c line (initially charged at 400kV) *
- (vii) Kolhapur (new) – Padghe 765 kV D/c one circuit via Pune (initially charged at 400kV)
- (viii) LILO of both circuits of Kolhapur – Mapusa 400 kV D/c line at Kolhapur (GIS) 765/400 kV Ss *
- (ix) LILO of Neyveli – Trichy 400kV S/c line at Nagapattinam Pooling Station for interim arrangement which later shall be bypassed @
- (x) Narendra (GIS) - Narendra (existing) 400 kV D/c Quad line *

* **POWERGRID** has already initiated action towards implementation of these transmission elements under SRSS – XVII scheme

@ **POWERGRID** has already initiated action towards implementation of these transmission elements.

PFC Consulting is the BPC for identifying ISTS licensee through Tariff Based Competitive Bidding and it is under RfP stage

Additional Transmission System required for ISGS projects pooled at Nagapattinam Pooling Station

- (xi) Nagapattinam Pooling Station – Tiruvalam 765kV D/c line (initially charged at 400kV)
- (xii) Madhugiri – Bangalore 400kV (quad) D/c line ##

these elements were also covered under Kudgi Transmission System and these elements shall be taken up based upon the generation projects which ever comes earlier.

POWERGRID further informed that following applications in Nagapattinam area with details as given below are pending which were discussed in earlier meeting however the LTA could not be granted due to non-fulfilment of milestones.

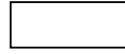
Sl. No.	Applicant	Installed Capacity (MW)	LTA applied for (MW)	Time Frame	Quantum allocated in the region		
					SR	WR	NR
1.	Chettinad Power Corporation Pvt. Ltd.	1320	1110	Dec, 2013	500	500	110
2.	Sindya Power Generation Co. Pvt.	1320	1060	Apr, 2015	720	270	70
3.	Empee Power & Infrastructure Pvt. Ltd.	1320	1241	Apr, 2014	496	496	248

The generation developers were requested to update the status of generation project and the same is s given below:

Sl. No.	Applicant	Land	Fuel	MoE	Forest	EPC
1.	Chettinad Power Corporation Pvt. Ltd.	524/608				
2.	Sindya Power Generation Co. Pvt. Ltd.	451/611				
3.	Empee Power & Infrastructure Pvt. Ltd.	421/602				



Available



Not Available

From the above status, it is observed that only Chettinad Power Corporation Pvt. Ltd. have made progress in the generation development and the other IPPs are yet to achieve different milestones.

Accordingly it was decided to grant Connectivity & LTA to Chettinad Power subject signing of LTA agreement and furnishing Bank Guarantee with the following transmission system as per the details given below:

Transmission System for Connectivity of Chettinad Power (1320 MW) →

- (i) Generation switchyard - Nagapattinam Pooling Station 400 kV D/c (Quad or Twin HTLS) line *(to be developed under tariff based competitive bidding route)*
- (ii) 1x125 MVAR Bus Reactor at generation switchyard *(to be provided by generation developer)*

It was explained that since the generation project capacity is more than 500 MW, the connectivity transmission system shall be implemented under coordinated plan of CEA / CTU through tariff based competitive bidding route. As per the experience of competitive bidding the time period for implementation of transmission system through this route shall take about 44-46 months. Further as explained para-1 the fulfillment of all the milestones are necessary for selection of the bidder for implementation of the scheme, therefore, it was suggested to the generation developer that the additional milestones may be achieved at the earliest so that the implementation can be taken up to avoid any mismatches with the generation project.

It was also explained that the transmission charges on account of above “Common Tr. System associated with ISGS projects in Nagapattinam/Cuddalore area” agreed earlier and above mentioned “Additional Tr. system” shall be shared by all the IPPs being connected to Nagapattinam pooling station in the ratio of LTA capacity granted to each applicant.

The sharing of transmission charges shall be as per CERC, Regulations as amended from time to time.

After deliberations, the members agreed for the above proposal to grant Connectivity and LTA to Chettinad Power Corporation Pvt. Ltd.

7.0 New Connectivity applications of Southern Region

7.1 Surana Power Limited (2x210 MW)

CDE, POWERGRID informed that Surana Power Limited has applied for Connectivity under CERC regulations, 2009 and application details are as given below:

Connectivity Application →

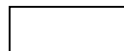
Applicant	Location	IC (MW)	Connectivity sought for (MW)	Time Frame
Surana Power Limited	Raichur Dist., Karnataka	420	350	December, 2012

It is observed that the generation developer has applied connectivity for 350 MW against installed capacity of 2x210 MW (420 MW). It was explained that either one unit or both the units will be connected to grid and it cannot be partial. On enquiry the representative informed that both the units shall be connected to ISTS grid therefore it was decided that Connectivity application shall be processed for 420 MW. The generation developer was requested to update the status of the project and the same is as given below:

Applicant	Land	Fuel	MoE	Forest	EPC
Surana Power Limited					



Available



Not Available

It was informed by the representative of Surana Power that their generation project is located near Raichur TPS of KPCL. He further informed that the generation project is under implementation for which EPC has been awarded to BHEL and advance payment has also been released.

As indicated in the agenda, POWERGRID had informed that Connectivity of the generation plant can be given at new 765/400 kV substation of Raichur POWERGRID through 400 kV D/c line however this substation is likely to be commissioned by January, 2014. In this regard, Surana Power requested to provide interim Connectivity through LILO of Raichur-Gooty 400 kV D/c quad line emanating from Raichur TPS. Towards this POWERGRID informed that it is not feasible to LILO any lines emanating from Raichur TPS because this will affect the evacuation of Raichur TPS. However, if Surana Power likes to have connectivity earlier than January, 2014 they may get connected to existing Gooty substation of POWERGRID. Surana Power agreed for the connectivity of 400 kV D/c line from their generation switchyard to Raichur 765/400 kV new substation which is likely to be available by January, 2014.

Further, POWERGRID had informed that since the installed capacity is less than 500 MW hence the connectivity line shall be in the scope of generation developer.

Connectivity Transmission System (as dedicated transmission line to be developed by generation developer)

- (i) Generation Switchyard – Raichur (POWERGRID) 400 kV D/c line
- (ii) Provision of Bus reactor of 1x80 MVAR at generation switchyard.

Members agreed the above proposal.

7.2 Regen Powertech Private Limited (6x100 MW)

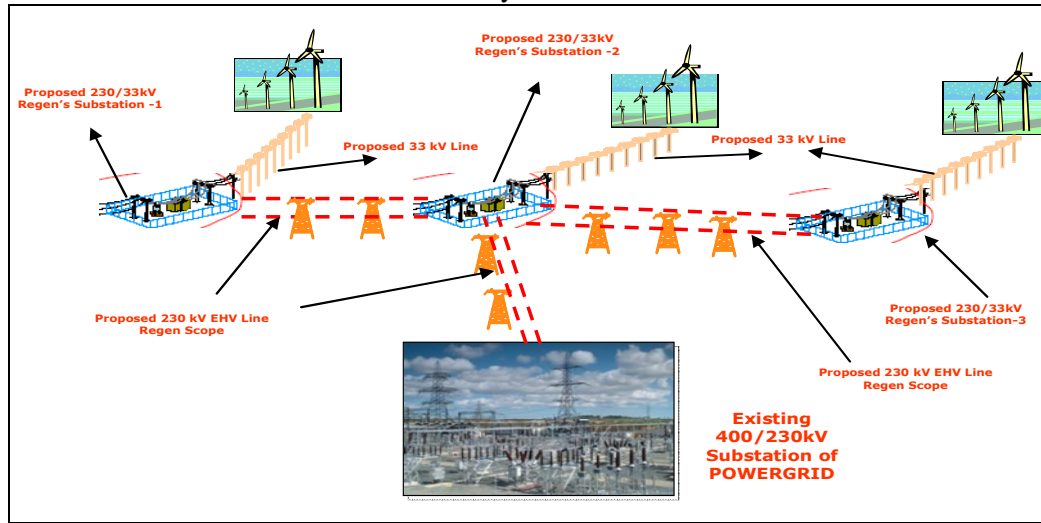
CDE, POWERGRID informed that Regen Powertech Pvt. Ltd has applied for Connectivity under CERC regulations, 2009 and application details are as given below:

Connectivity Application →

Applicant	Location	IC (MW)	Connectivity sought for (MW)	Time Frame
Regen Powertech Pvt. Ltd.	Dindigul Dist., Tamil Nadu	6x100	600	September, 2013 onwards

It was informed by the representative of Regen Powertech that they are planning to setup wind mill farms with capacity of 6 nos. of 100 MW each in Dindigul Dist. Tamil Nadu.

The generation developer had informed that they propose to pool the power generated in wind farms to a 230/33 kV substations. In this regard POWERGRID had proposed that Regen may pool all the power from their wind farms in a 230 kV substation and with a 230 kV D/c twin moose conductor line and get connected to nearest POWERGRID substation as given below. In this regard, the generation developer had indicated that the location of wind farms is between the Udumalpet and Pugalur Substations of POWERGRID and they shall confirm the location for connectivity.



It was informed to the wind developer that as per the CERC Regulations, connectivity with the grid does not guarantee any transfer of power from the generation project. For this LTA / MTOA / STOA shall be obtained for transfer of any power. However MTOA / STOA shall be granted only if the margins are available in the grid and shall have low priority. Therefore, it was advised to the developer to apply for long term access at the earliest so that required strengthening can be indentified and implemented. It was also explained that the implementation time required for any transmission system strengthening is about 3-4 years and till such time power can be transfer only through MTOA / STOA route only.

Connectivity Transmission System

(i) Regen Pooling Station – Udumalpet / Pugalur (POWERGRID) 230 kV D/c line (twin moose conductor)

Regen was requested to confirm within one month whether the connectivity line would be provided upto Udumalpet or Pugalur.

Members agreed the above proposal.

8.0 Connectivity applications of Southern Region which were discussed earlier

8.1 Dandelion Properties Private Limited (250 MW – Bulk Consumer)

CDE, POWERGRID stated that the bulk consumer has sought connectivity for 250 MW load at the existing Soolagiri (Hosur) 400/220 kV substation of POWERGRID and the applicant was requested to submit information about the Section-42 clearances or relevant approval regarding SEZ and the projection of load growth as the 250 MW load. In this regard, Dandelion properties have indicated that the load growth shall be in the SEZ area is expected to be as below:

Year	2012	2013	2014	2015	2016
Load (MW)	15	50	100	150	250

The representative of Dandelion Properties further indicated, as given in the agenda the relevant provisions, the applicant being a deemed licensee in the SEZ area, the provisions of Sec. 38 (2) (d) (i) of Electricity Act 2003 shall only apply in Grant of Connectivity & Open Access and further, the provisions of Sec 42 (4) of the Act will not be applicable for their application.

After deliberations, the members agreed the grant of connectivity of Dandelion Properties with details is as given below:

Connectivity Transmission System (to be developed by applicant as dedicated transmission line including bays)

- (i) GMR Krishnagiri SEZ 220kV Sub-station – Soolagiri (Hosur) 230 kV D/c line (in the scope of applicant)

8.2 Other Connectivity Applications of SR which were discussed earlier

CDE, POWERGRID informed that 10 nos. of Connectivity Applications are pending which could not be finalised due to generation projects not achieving milestones. He further informed one more application for connectivity has been recently received from AES Naganadu. The details of the applications are as given below:

Connectivity Applications →

Sl. No	Applicant	Time frame	Location	IC (MW)	Connectivity Sought for (MW)
1.	North Chennai Power Company Limited	February, 2015	Tiruvallur Dist., Tamil Nadu	1200	1105
2.	Shree Renuka Energy Limited	March, 2014	Vantamuri, Belgaum Dist, Karnataka	1050	956
3.	Sheshadri Power & Infrastructure (P) Ltd.	September, 2013	Mahabubnagar Dist., Andhra Pradesh	1320	1320
4.	Nuclear Power Corporation of India Ltd. - Kudankulam-II	2016	Nagarcoil Dist., Tamil Nadu	2000	2000
5.	Pragdisa Power Private Limited	December, 2013	Nellore Dist., Tamil Nadu	1320	1320
6.	Rajanagaram Gas Power Private Limited	December, 2012	East Godavari Dist., Andhra Pradesh	1100	1100
7.	Simhapuri Energy Private Limited	4th Qtr, 2014	Nellore Dist., Andhra Pradesh	1320	1235
8.	Sindya Power Generating Company Private Limited	December, 2014	Nagapattinam Dist., Tamil Nadu	1320	1320
9.	Empee Power & Infrastructure Pvt. Ltd.	April, 2013	Nagapattinam Dist., Tamil Nadu	1320	1241
10.	AES Naganadu Power Private Limited	December, 2016	Nellore Dist., Tamil Nadu	1400	1400
	Total			13350	12997

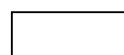
- 8.3 The project developers were requested the update status of the progress made so far with respect to each project which is as given below:

Progress status of IPP generation projects →

Applicant	IC (MW)	Land	Fuel	MoE	Forest	EPC
North Chennai Power Company Limited	1200					
Shree Renuka Energy Limited	1050			ToR Approved		
Sheshadri Power & Infrastructure (P) Ltd.	1320					
Nuclear Power Corporation of India Ltd. - Kudankulam-II	2000					
Pragdisa Power Private Limited	1320			ToR Approved		
Rajanagaram Gas Power Private Limited	1100			ToR Approved		
Simhapuri Energy Private Limited	1320	183/720				
Sindya Power Generating Company Private Limited	1320	451/611				
Empee Power & Infrastructure Pvt. Ltd.	1320	421/602				
AES Naganadu	1400					



Available



Not Available

- 8.4 It was noted that no representative came for attending the meeting from M/s North Chennai Power Company Limited, Shree Renuka Energy Limited, Sheshadri Power & Infrastructure (P) Ltd and AES Naganadu Private Limited, therefore their project was not discussed.
- 8.5 Looking into the progress made by the IPP generation developers and all the IPP developers are yet to achieve minimal milestones the members decided that the connectivity may be decided upon the progress in next meeting.

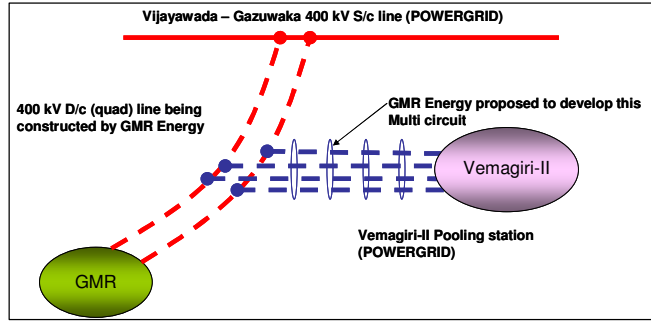
9.0 Other issues of Southern Region –

- 9.1 ED, POWERGRID said that under the “Common Transmission System Associated with ISGS projects in Vemagiri Area of Andhra Pradesh”, a LILO of existing 400 kV Gazuwaka – Vijayawada S/c line was proposed for initial integration of grid. In the Vemagiri area of Andhra Pradesh, GMR Rajahmundry Energy Limited (GREL) is constructing a 768 MW gas based combined cycle power plant and had requested to review their grant of LTA/Connectivity considering the development of pooling station in Vemagiri Area.

GREL during the 32nd Meeting of Standing Committee on Power System Planning in SR held on 8 June, 2011, had indicated that as an interim arrangement they were constructing the LILO of Gazuwaka – Vijayawada 400 kV S/c line at their generation switchyard. This LILO line was required to be further extended up to Khammam S/S for LTA. Considering the planning of High Capacity Corridor from Vemagiri to Hyderabad via Khammam, GREL was allowed to terminate their lines at Vemagiri Pooling Station instead of Khammam. During the above meeting, GREL further proposed to LILO their LILO portion of Gazuwaka – Vijayawada 400 kV S/c line at Vemagiri Pooling Station and this portion to be constructed on multi-circuit tower to avoid construction of another LILO of Gazuwaka – Vijayawada 400 kV S/c line at Vemagiri Pooling Station under “Common

Transmission System Associated with ISGS projects in Vemagiri Area of Andhra Pradesh” and the same was agreed in the above meeting.

However, considering that initial integration of Vemagiri Pooling Station is through LILO of Gazuwaka – Vijayawada line and many other generations are being pooled in this pooling station and high capacity corridor from this point, it was felt prudent that LILO of Gazuwaka –Vijayawada line at Vemagiri Pooling Station shall be implemented by POWERGRID. GMR would extend their interim LILO arrangement to Vemagiri Pooling Station. This will also help in operation of the Pooling Station and the High Capacity Corridor.



Members agreed for the same.

10.0 Meeting ended with vote of thanks.

----- X ----- X ----- X -----

List of participants of the 13th Meeting of Southern Region regarding Connectivity and LTA applications of SR held on 20.10.2011 at New Delhi

Sl. No. Name and Organization Designation

Central Electricity Authority (CEA)

- | | | |
|----|------------------------|----------------------------|
| 1. | Ravinder | Member (Power Systems) |
| 2. | K K Arya | Chief Engineer (SP&PA) I/c |
| 3. | Pardeep Jindal | Director (SP&PA) |
| 4. | Manjari Chaturvedi | Asst. Director-I (SP&PA) |
| 5. | Nageswara Rao Maragani | Engineer (SP&PA) |

Southern Region Power Committee (SRPC)

- | | | |
|----|--------------|----------------------|
| 6. | S D Taksande | Member Secretary I/c |
| 7. | S R Bhatt | SE |

Power Grid Corporation of India Limited (POWERGRID)

- | | | |
|-----|---------------------|----------------------------|
| 8. | Y K Sehgal | ED (SEF & CE) |
| 9. | Bharat Bhushan | ED (SR-I) |
| 10. | S Ravi | AGM (SR-I) |
| 11. | Kamal Sarkar | AGM (OS) |
| 12. | A. S. Kushwaha | AGM (LD&C) |
| 13. | Rakesh Prasad | AGM (Commercial) |
| 14. | Dilip Rozekar | DGM(SEF) |
| 15. | R V Madan Mohan Rao | CDE (SEF) |
| 16. | Pradeep K Gupta | Chief Manager (Commercial) |
| 17. | Gunjan Aggarwal | Mgr (OS) |

Power System Operation Corporation Limited (POSOCO)

- | | | |
|-----|--------------|----------------------|
| 18. | P R Raghuram | GM, SRLDC |
| 19. | S P Kumar | Chief Manager, SRLDC |

NTPC Limited (NTPC)

- | | | |
|-----|-------------|----------|
| 20. | Abhijit Sen | AGM (PE) |
| 21. | S S Mishra | DGM |

Neyveli Lignite Corporation Limited (NLC)

- | | | |
|-----|----------|--------------|
| 22. | S Muthu | CGM |
| 23. | R Suresh | CGM (Comml.) |

Transmission Corp. of Andhra Pradesh Ltd. (APTRANSCO)

- | | | |
|-----|---------------|-------------------|
| 24. | M Jayachandra | CE (PS) |
| 25. | V S Subbarao | SE (SP) |
| 26. | P V Rao | DE/System Studies |

Karnataka Power Transmission Corporation Limited (KPTCL)

- | | | |
|-----|--------------|-------------------------|
| 27. | Pratap Kumar | Director (Transmission) |
| 28. | D Chethan | EE (PSS) |
| 29. | K Paramesha | AEE (PSS) |

Kerala State Electricity Board (KSEB)

30. M A Rawther Member (Transmission)

Tamil Nadu Electricity Board (TNEB) / TANTRANSCO

31. S Akshya Kumar Dir / Tran.Projects (TANTRANSCO)
32. K Thangachamy SE / System Studies (TANGEDCO)
33. S Ravi Chandra SE / System Studies (TANGEDCO)

Connectivity/LTA Applicants

1. S N Sunkari GM (Tr.) GMR Energy Limited
2. Priyanka Bajpai Manager GMR Energy Limited
3. Abhay Kumar Sinha GM – Power GMR Krishnagiri SEZ Limited
4. Arivu Chelvan VP GMR Krishnagiri SEZ Limited
5. A L Naleswararao Advisor GMR Energy Delhi
6. V Chandramoleeswaran Director Chettinad Power Corporation Pvt. Ltd.
7. Muthuvel DGM (CA) Chettinad Power Corporation Pvt. Ltd.
8. B Narasimharao VP East Coast Energy Pvt. Ltd.
9. A Mohan Menon Advisor East Coast Energy Pvt. Ltd.
10. K Balachandra VP Sindya Power Generating Co. Pvt. Ltd.
11. R Suresh Kumar Sr. GM Sindya Power Generating Co. Pvt. Ltd.
12. S Arounassalame COO Empee Power & Infrastructure Pvt. Ltd.
13. Dr K S Gandhi Advisor Simhapuri Energy Pvt. Ltd.
14. Suryanarayan R GM - Projects Regen Powertech Pvt. Ltd.
15. Neeraj Singh Gautam Dy. Manager Regen Powertech Pvt. Ltd.
16. Rahul Vikram Asst. Manager Regen Powertech Pvt. Ltd.
17. Rahul Surana VP – Projects Surana Power Limited
18. K Balaraman CGM Surana Power Limited
19. K Anand Kumar Sr. Consultant Surana Power Limited
20. A K Loganathan Tech. Dir. Surana Power Limited
21. R Veda Siddarth AGM (Proj.) Surana Power Limited
22. R Sudheer Tech. Dir. Surana Power Limited
23. R K Gupta COO Lanco Kondapalli Power Ltd.
24. Jagadeesha H S Sr. Engr.PRDC, Bangalore

Indicative flow chart of revised procedures

