

C/ENG/SEF/N/LTOA

Date: 18/01/2011

To

**As per list attached**

**Sub: Minutes for Connectivity/Long Term Access Meeting held on 29/12/10 at POWERGRID, Gurgaon**

Sir,

The Connectivity/Long Term Access Meeting was held on 29/12/2010 at POWERGRID, Gurgaon along with 29<sup>th</sup> Standing Committee Meeting of Northern Region on Transmission Planning. Various Long Term Access applications for transfer of power to Northern Region & Connectivity of generation to Northern regional grid were discussed. Please find enclosed the minutes for the same.

Thanking You,

Yours Faithfully

**(Y K Sehgal)**  
**Executive Director (SEF, CE & IT)**

***Copy for kind information:***

- Director (Projects)
- ED (Commercial)

## List of Addresses

1. Shri. S.M Dhiman Member(Power system),CEA , Sewa Bhawan, R.K. Puram, New Delhi –66	2. Shri. Ravinder, Chief Engineer (SP&PA),CEA , Sewa Bhawan, R.K. Puram, New Delhi –66
3. Member Secretary, NRPC 18A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi – 110 016	4. Director (Technical) NHPC, NHPC Office Complex, Sector 33, Faridabad – 121003
5. Director (Operation) Delhi Transco Ltd., Shakti Sadan, Kotla Road, New Delhi-110 002	6. Member (Transmission) HPSEB, Vidyut Bhawan, Shimla-171004.
7. Chief Engineer (Transmission) UP Transmission Corporation, 11 <sup>th</sup> Floor, Shakti Bhawan Extn. 14, Ashok Marg, Lucknow-226001	8. Director(Technical) PSTCL Head Office, Mall Road, Patiala,-147001, Punjab.
9. Director (Transmission), RRVNL, Vidyut Bhawan, Janpath, Jyoti Naga Jaipur, Rajasthan.	10. Chief Engineer (OP), Electricity Department, UT Sectt, Sector-9D,Chandigarh.-16100
11. Director (Transmission) HVPNL, Shakti Bhawan, Sector-6, Panchkula-134109, Haryana	12. Development Commissioner (Power) J&K Exhibition Ground, Near New Secretariat, Srinagar-19001
13. Executive Director (Projects) PTCUL, PTCUL H/Q Building, Saharanpur Road, Near 132 kV S/s Majra, Dehradun, Uttarakhand- 248001	14. Member (Electricity), BBMB, Flat No:1400, Sector-35B, Madhya Marg, Chandigarh.
15. Executive Director (Engg) NTPC Ltd, Engineering Office Complex, Plot No.A-8A, Sector-24, Post Box No.13, Noida (U.P.)-201301.	16. Shri. M. Krishanmoorthy, Associate Vice President, GMR Hydro Power Pvt. Ltd. Old Udhan Bhawan, IGI Airport, Palam New Delhi-110037.
17. Shri. V K Sharma, Head- Hydro (Projects), GMR Hydro Power Pvt. Ltd. Old Udhan Bhawan, IGI Airport, Palam, New Delhi-110037.	18. Er. V.K Misra, DGM (EC), Himachal Pradesh Power Corp. Ltd. Shanti Kutir, Kamna Nagar,Chakkar, Shimla-171005
19. Shri. D.D Chowdhury, DGM, Sunflag Power Ltd. 11th Floor, 116A-1119B, E-Block, International trade Tower, Nehru Place, New Delhi-1100019.	20. Shri. D.V. Rao Director, Sravanthi energy Pvt. Ltd., 136, Rider House, 3 <sup>rd</sup> Floor, Sector-44, Gurgaon-122002.
21. Shri. A.K Jain, Director, Beta Infratech Private Limited, B-4/45, Safdarjung Enclave, New Delhi-110029	22. Shri. Rahul Goyal, Director, Gama Infraprop (P) Ltd M-3, First Floor, Hauz Khas, Aurbindo Marg, New Delhi-110016
23. Shri G. Amudhan, Director, Rosa Power Supply Company Ltd 3 <sup>rd</sup> Floor, Trade Tower, 94, Mahatma Gandhi Marg, Lucknow-226001	24. Shri S.K Goyal, Director, Shri Bajrang Power & Ispat Ltd C-15, Lane-1, Sector-I, New Shimla, Himachal Pradesh-171009

<p>25. Shri. O.P Ajmera, President (Finance), Malana Power Company L Bhiwara Towers, A-12, Sector-1, Noida-201301.</p>	<p>26. Shri.Suresh K Narang, Project Director, Nabha Power Ltd, SCO 32, Sector-26-D, Madhya Marg, Chandigarh-160019.</p>
<p>27. Shri. Rajiv Bhardawaj, Executive Vice President, PTC India Ltd, 2<sup>nd</sup> Floor , 15 Bhikaji Cama Place, New Delhi-110066</p>	<p>28. Shri M.L Jadhav , Chief Engineer (Transmission), Nuclear Power Corporation of India Ltd V.S Bhavan Anushaktinagar , Mumbai-400094</p>
<p>29. Shri Abhijit Sen, AGM (P.E-Elect.), NTPC Ltd, Office Complex, A-8A, Sector-24, Noida-201301 (U.P)</p>	<p>30. Shri. S.P.Pathak GM ( Elect Design) Satluj Jal Vidyut Nigam Ltd Electrical Design Department Mehtas Niwas, New Shimla -171 009</p>

## Minutes for Connectivity/ Long term Access Meeting with Northern Region Constituents held on 29/12/2010 at Gurgaon

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### List of participants is enclosed at Annexure-I

POWERGRID welcomed all the participants to the Connectivity/Long term Access meeting of Northern region and informed that following Connectivity/ Long term Access applications for new generation projects in NR need to be discussed for resolution in addition to certain modifications/extensions of already granted Long term Access.

The Connectivity/Long Term Access Applications discussed in the meeting were:

- a) LTA to M/s GMR Hydro Power Pvt. Ltd. (Bajoli Holi HEP).
- b) LTA to M/s GMR Hydro Power Pvt. Ltd. (Alaknanda HEP).
- c) LTA & Connectivity grant to HPPCL (Sainj HEP).
- d) LTA & Connectivity grant to HPPCL (Sawra Kuddu HEP).
- e) LTA & Connectivity grant to HPPCL (Kashang HEP).
- f) LTA & Connectivity grant to HPPCL (Shongtong Karcham HEP).
- g) LTOA grant to M/s Sunflag Power Ltd. (Hanoli Tiuni HEP).
- h) LTA grant to M/s Shri Bajrang power & Ispat Ltd. in Himachal Pradesh (Rupin).
- i) LTOA of Tidong-I (100MW) of Nuziveedu Seeds Limited.
- j) LTA & Connectivity grant to M/s Sravanthi Energy Pvt. Ltd. (Uttarakhand).
- k) LTA & Connectivity grant to M/s Beta Infratech (P) Ltd. (Uttarakhand).
- l) LTA & Connectivity grant to M/s Gama Infroprop (P) Ltd. (Uttarakhand).
- m) LTA grant to M/s Rosa Power Supply Company Ltd. (Uttar Pradesh).
- n) LTA grant to M/s Power Trading Corporation (Malana-II HEP).
- o) LTA grant to M/s Malana Power in Himachal Pradesh (Bara Bangahal HEP).
- p) LTA grant to M/s Malana Power in Himachal Pradesh (Chango Yangthang).
- q) Connectivity for M/s Nabha Power limited in Punjab (Rajpura Project).
- r) Connectivity for Singrauli-III TPS (500 MW).
- s) Connectivity for Rapp-7& 8 of Nuclear Power Corporation.
- t) Connectivity and LTA grant to M/s Moser Baer (MP).
- u) Connectivity and LTA grant to M/s Pipavav Energy Pvt. Ltd. (Gujarat).
- v) LTA grant to M/s Bina TPS Energy Pvt. Ltd.
- w) Connectivity/LTA of generation developers in Vemagiri area, AP.
- x) LTA of generation developers in Nagapattinam/Cuddalore area.
- y) LTA granted under CERC regulation and BPTA yet to be signed.

Details of the discussions held are as below.

### 1.0 Long Term Access to M/s GMR Bajoli Holi Hydro Power Pvt. Ltd., for transfer of 180 MW power from Bajoli Holi HEP

POWERGRID informed that M/s GMR Bajoli Holi Hydro Power Pvt. Ltd., has applied for Long term Access for injection of 180 MW power from Bajoli Holi HEP (180MW), Himachal Pradesh. The likely beneficiaries in Northern region have been indicated as Delhi, Punjab and Haryana. The expected date of commencement of long term access, as indicated by the applicant is Dec 2015 and the Long term Access duration is 25 years.

### **Connectivity with Central Grid**

As per the applicant, power from the HEP is to be injected at Lahal pooling station by 220kV D/c line. In the 23<sup>rd</sup> Standing Committee, it was proposed that a pooling station upstream of Chamera-III would be constructed and power from future hydro generation like Kutehar (260MW), Bajoli Holi (180MW), Bara Bangahal (200MW), Bharmour (45MW) and Kugti (45MW) shall be injected at this pooling station at 220kV level. Further, as per the discussions held in 27<sup>th</sup> SCM, Himachal Pradesh is to establish a 400/220 kV pooling station at Lahal and considering the overall power flow requirement of about 1000-1100 MW, a 400 kV D/c Line from Lahal to Chamera pooling station of POWERGRID, to be implemented by HPPTCL, has been planned.

Thus, the connectivity for proposed power plant to Regional grid following was planned:

- Bajoli Holi power would be pooled at Lahal pooling Station of Himachal at 220kV.
- 400kV D/c line from Lahal Pooling Station to Chamera Pooling Point(PG).

As decided during the Long term Access meeting held along with 28<sup>th</sup> SCM held on 23<sup>rd</sup> February, 2010 "laying of 220 kV D/c line with twin moose (0.5) conductor would be required beyond Bajoli Holi to Lahal S/S to carry the combined power of both Bajoli Holi and Bara Bangahal HEP's."

Further, it was informed that M/s GMR has taken up the matter with CEA regarding sharing the cost of common transmission line from Bajoli Holi to Lahal Pooling Station. Due to uncertainty in getting Forest clearance for realization of their project, Bara Bangahal is not committal about the matter. In view of avoiding deferment of the project as issues like Forest clearance are also involved, M/s GMR has proposed the scheme to be developed by CTU/ISTS Licensee. It was informed that as per CERC regulations, CTU cannot take up the implementation of the line, however, it was suggested by CEA that to facilitate the IPP's in Himachal Pradesh, HPPTCL may take up high capacity line from Bajoli Holi to Lahal Pooling Station. HPPTCL agreed for implementation of 220 kV D/c line with twin moose (0.5) conductor required beyond Bajoli Holi to Lahal S/S. Chief Engineer (SP&PA), CEA advised M/s GMR to sign TSA with HPPTCL in this regard at the earliest.

The applicant was suggested to coordinate with HPPTCL for implementing of Lahal Pooling Station and Lahal- Chamera pooling station 400 kV D/c line. Long Term Access was processed for transfer of power beyond the ISTS injection point, i.e. Chamera Pooling Point.

Chief Engineer (SP&PA), CEA enquired about the progress of the project. Representative from GMR stated that DPR of the project is expected by Jan 2011, Environment clearance is expected by Jan 2011, Forest Clearance by October 2011, Land possession by November 2011 and December 2015 is expected commissioning. Chief Engineer (SP&PA), CEA stated that project developer should submit the six monthly progress to CEA & CTU.

### **Evacuation of Bajoli Holi Power beyond Chamera Pooling Point**

POWERGRID informed that the main corridor for transfer of power from generating station beyond Chamera pooling station would be Chamera-Jullandhar 400kV D/c. The line would be required for transfer of power of the order of 761MW from Chamera-III ((231MW), Kutehar (260MW), Barabangahal(200MW) and Budhil(70MW). In addition to Bajoli Holi, further new projects like Hadsar (60 MW), Kugti (45 MW) and Bharmour(45MW) are expected to be evacuated via this corridor. Since, the system would not be able to transfer additional power reliably under certain contingency condition hence it was agreed that

additional system may be required for transfer of power beyond Chamera Pooling with materialization of other projects. The system would be evolved looking into progress of the other generating stations in the basin and network in that time frame. It was agreed that M/s GMR Bajoli Holi Hydro Power Pvt. Ltd shall share the system cost alongwith other beneficiaries, if any, for the system.

POWERGRID further stated that as per the Regulations for “Grant of Connectivity, Long-term Access and Medium-term Open Access in Inter-State Transmission”, notified by Central Electricity Regulatory Commission (CERC), and Detailed procedures of Central Transmission Utility (POWERGRID) approved by CERC, Grid connectivity / application for connectivity is prerequisite for Long term Access/Medium term Open Access. POWERGRID mentioned that in line with the CERC regulation ‘No Objection Certificate’ from concerned state utility is required. Chief Engineer (SP&PA), CEA stated that HPPTCL may inform about NOC. HPPTCL stated that they have no objection to the proposed scheme. It was decided that confirmation of HPPTCL may be treated as NOC.

The Long term Access was agreed to be granted for transfer beyond the ISTS injection point, Chamera pooling point, subject to following:

- Applicant shall have to firm up exact destination at least 3 years prior to the intended date of availing LTA, at least for a capacity equivalent to 50% of the quantum of power for which LTA has been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009.
- Signing the requisite BPTA for Northern Regional Transmission system charges from Dec’2015 for 25 years.
- M/s GMR Bajoli Holi Hydro Power Pvt. Ltd. shall take up the matter with Himachal for connectivity and transfer of power from the generation project to 400/220kV Chamera Pooling substation.
- Additional strengthening may be required for transfer of power beyond Chamera Pooling. The system would be evolved looking into progress of the generating stations in the basin and network in that time frame. The system cost shall be shared by the applicant, along with other beneficiaries, if any.
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The Long term Access shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding LTA would have to be met.

## **2.0 Long Term Access to M/s GMR (Badrinath) Hydro Power Generation Pvt. Ltd., for transfer of 259 MW power from Alaknanda HEP**

POWERGRID informed that M/s GMR (Badrinath) Hydro Power Generation Pvt. Ltd had applied for Long term Access, for transfer of 259 MW power from Alaknanda HEP (300MW) located on Chamoli district in Uttarakhand. Expected date of commencement of Long term Access, as indicated by applicant is Dec. 2014. Duration of Long term Access is 25 years. The beneficiaries for the power are Northern Region constituents.

### **Connectivity with Central Grid**

The applicant has indicated connectivity with Grid as ISTS at Kashipur at 400kV through STU grid. In this regard it was mentioned that as per the decision taken during the

NRPC meeting held on 10/11/06 for projects in Uttarakhand, "PTCUL could take up the intrastate transmission system to the pooling point on their own for which there was no requirement of any commitment of payment of transmission charges by others constituents and arrangement of recovery of transmission charges will be only between PTCUL and the Generators. PTCUL/Generators would apply for open access for inter-state transmission system to CTU so that POWERGRID in consultation with CEA could firm up inter-state transmission and necessary modification in the system up to pooling point would also be firmed up in the process".

PTCUL informed that Power from Alaknanda HEP is to be stepped up at 220kV level, pooled at 220kV substation Joshimath and transmitted to Pipalkotli pool at 220kV. At Pipalkotli, it would be stepped up to 400kV and transmitted to Kashipur by Pipalkotli-Karanprayag-Srinagar-Kashipur 400kV D/c line.

The Long term Access was processed for transfer beyond the injection point, Kashipur pooling point. Further, it was agreed that the applicant shall construct / coordinate with PTCUL for dedicated transmission line as well as transmission system upto Kashipur and bear all applicable transmission charges as decided by appropriate agencies.

Chief Engineer (SP&PA), CEA enquired about the progress of the project. Representative from GMR stated that TEC of the project has been obtained in 2008, all clearances are in place, civil contracts have been awarded and they are ready to sign the BPTA for December 2014. Chief Engineer (SP&PA), CEA stated that project developer should submit the six monthly progress to CEA & CTU.

### **Evacuation of Alaknanda HEP Power beyond Kashipur**

Presently Kashipur is connected to Moradabad and Rishikesh by a 400kV S/c line. Under Northern Region System Strengthening Scheme-XXI following transmission system is being developed by POWERGRID which would facilitate power injected at Kashipur to be evacuated :

- Lucknow – Bareilly 765 kV S/c
- Bareilly – Kashipur 400 kV D/c (quad)
- Kashipur – Roorkee 400 kV D/c (quad)
- Roorkee – Saharanpur 400 kV D/c (quad)

Saharanpur would be connected to Meerut and Dehradun. Considering the total power injection at Kashipur additional strengthening may be required for transfer of power beyond Kashipur. The system would be evolved looking into progress of the generating stations in the basin and network in that time frame. The system cost shall be shared by the applicant, along with other beneficiaries, if any.

POWERGRID further stated that as per the Regulations for "Grant of Connectivity, Long-term Access and Medium-term Open Access in Inter-State Transmission", notified by Central Electricity Regulatory Commission (CERC), and Detailed procedures of Central Transmission Utility(POWERGRID) approved by CERC, Grid connectivity / application for connectivity is prerequisite for Long term Access/Medium term Open Access. POWERGRID mentioned that in line with the CERC regulation 'No Objection Certificate' from concerned state utility is required. Chief Engineer (SP&PA), CEA stated that PTCUL may inform about NOC. PTCUL stated that they have no objection to the proposed scheme. It was decided that confirmation of PTCUL may be treated as NOC. It was also stated that by PTCUL that GMR (Badrinath) Hydro Power Generation Pvt. Ltd.

should apply for connectivity & open access for intrastate system to PTCUL and also sign necessary TSA with them, so that implementation of the system is taken up.

Based on the discussions, the Long term Access for transfer beyond the injection point, Kashipur, was agreed to be granted, subject to following:

- Applicant would have to firm up exact destination at least 3 years prior to the intended date of availing LTA at least for a capacity equivalent to 50% of the quantum of power for which LTA had been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009.
- The Long term Access would be granted after the commissioning of following scheme:
  - Kashipur–Roorkee–Saharanpur 400 kV D/c (Quad conductor)
- Signing the requisite BPTA for Northern Regional Transmission system charges from Dec'2014 for 25 years.
- M/s GMR (Badrinath) Hydro Power Generation Pvt. Ltd. would take up the matter with Uttarakhand for connectivity and transfer of power from the generation project upto 400/220kV Kashipur. The applicant, would construct/coordinate with PTCUL for dedicated transmission line as well as transmission system upto Kashipur and bear all applicable transmission charges as decided by appropriate agencies.
- Applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- As the power is being injected into the STU network, the ISTS charges for free power would not be applicable.
- The Long term Access would be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding LTA would have to be met.
- Considering the total power injection at Kashipur additional strengthening may be required for transfer of power beyond Kashipur. The system would be evolved looking into progress of the generating stations in the basin and network in that time frame. The system cost shall be shared by the applicant, along with other beneficiaries, if any

### **3.0 Connectivity and Long Term Access (LTA) to Himachal Pradesh Power Corporation Limited, for connectivity and transfer of 100 MW power from Sainj HEP**

POWERGRID informed that Himachal Pradesh Power Corporation Ltd.(HPPCL) had applied for Connectivity and Long Term Access for their 100 MW Sainj HEP, at Kullu, H.P. Connectivity and LTA for the project are required by April, 2014. Commissioning schedules of the units is April, 2014 for unit-1 and May, 2014 for Unit-2. Beneficiaries for the project are Northern Region constituents. Chief Engineer (SP&PA), CEA asked about the progress of the project. Representative from HPPCL stated physical works of the project are in progress. Loan from ADB has already been finalized.

POWERGRID explained that the nearest substation to HEP is Parbati-II / Parbati-III switchyard. During the 26<sup>th</sup> SCM, it was discussed and agreed that the generation at Sainj HEP could be evacuated by 132 kV D/C line to 132/400 kV sub-station which could be connected at 400 kV level by LILO of Parbati-II – Parbati –III 400kV S/C line or through a 400 kV S/C line either to Parbati –III or to Parbati-II. It was also decided that



NHPC would review the availability of space for additional 400 kV bay at Parbati II as well as Parbati III and intimate the position to CEA as well as HPSEB. HPPTCL has intimated that NHPC has confirmed that space for 400kV bays are neither available at Switchyard of Parbati-II nor at III. As per the information, the step up voltage of the generation project is 132 kV. During the TEC of the generation project, it was indicated that a 400/132kV substation would be established wherein Sainj power would be pooled at 132kV and stepped up to 400kV. Beyond the proposed station, it was proposed to evacuate Sainj Power by LILO of one circuit of Parbati-II – Parbati-III line, near Parbati-II. Beyond Parbati-III and Parbati Pooling points, following Transmission system is being implemented:

- Parbati Pooling Point – Amritsar 400kV D/c
- Parbati Pooling Point – Koldam/Nalagarh 400 kV D/c ( Quad)

After the discussions it was agreed to grant Connectivity and Long term Access for 100MW generation of Sainj HEP of HPPCL by LILO of one circuit of Parbati-II to Parbati-III/ Parbati Pooling at new 400/132kV Substation subject to following:

### **Connectivity**

- A 400/132kV substation would be created wherein Sainj power would be pooled at 132kV and stepped up to 400kV. 132kV line from Sainj generation project to pooling station alongwith the pooling station shall be in the scope of HPPTCL.
- Connectivity would be by LILO of one circuit of Parbati-II to Parbati-III/ Parbati Pooling at proposed generation plant. The LILO shall carried out by the HPPTCL. Based on line routing and generation plant location either Parbati-II - Parbati-III or Parbati-II - Parbati Pooling station 400kV line may be carried out.
- Modification, if required, at Parbati-II and Parbati-III/ Parbati Pooling end switchyards would be at the cost of the HPPTCL.
- The applicant shall abide by all provisions of the Electricity Act, 2003, the CERC regulation 2009 (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Central Electricity Authority (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- Connectivity shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding connectivity would have to be met.
- The applicant shall furnish additional details for signing Connection Agreement for the same and would sign the Connection Agreement as per the provisions of Connectivity.
- Switchyard for the new station is to be designed with higher capacity switchyard rating which is generally used along with a quad line.

### **Long term Access**

- Applicant shall have to firm up exact destination at least 3 years prior to the intended date of availing LTA at least for a capacity equivalent to 50% of the quantum of power for which LTA has been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009.
- The Long Term access is being processed subject to the condition that the applicant, shall coordinate with HPPTCL for implementation of 132kV line, pooling station & 400kV LILO portion and bear all applicable transmission charges as decided by appropriate agencies.

- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The Long term Access shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding LTA would have to be met.
- Signing the requisite BPTA for Northern Regional Transmission system charges from Dec'2014 for 25 years.

*Regarding signing of BPTA, representative of HPPCL stated that it may not be possible to sign the BPTA within one month and requested for a time limit of 6 months for BPTA. The same was agreed.*

#### **4.0 Connectivity and Long Term Access (LTA) to Himachal Pradesh Power Corporation Limited, for connectivity and transfer of 111 MW power from Sawra Kuddu HEP**

POWERGRID informed that Himachal Pradesh Power Corporation Ltd.(HPPCL) had applied for Connectivity and Long Term Access of their 111 MW Sawra Kuddu HEP in Himachal Pradesh. As per the application, the connectivity and LTA for the project is required by December, 2012. Regarding progress of the generation project, HPPCL representative stated that work on the generation project is in progress, all the works have been awarded and project is being funded by ADB. The commissioning schedule of for unit-1, unit-2 & unit-3 is Dec 2012, Jan 2013 & Feb 2013 respectively. The target beneficiary for the power is Northern Region.

HPPCL informed that in addition to the Sawra Kuddu HEP, there are about 400 MW of hydro projects which are at various stages of development. For evacuation of power from Satluj basin, there are three corridors, Nathpa Jhakri- Nalagarh, Nathpa Jhakri-Abdullapur and Karcham Wangtoo-Abdullpur (under construction), out of which later two are routed via Pabbar Valley. HPPCL had proposed to evacuate 500 MW power from HEP's in Pabbar valley by creating a pooling station by LILO of one of the lines.

Considering the ROW constraints in Himachal Pradesh, it was agreed that Connectivity and Long term Access for 111MW generation of Sawra Kuddu HEP of HPPCL may be granted, by establishment of 220/400kV, 2x315 MVA pooling station along with LILO of Nathpa-Jhakri-Abdullapur 400 kV D/c line. During the meeting it was decided that as the project size is less than 250 MW, hence this scheme cannot be taken up by CTU/transmission licensee and needs to be implemented by HPPTCL. It was also deliberated that considering the less available time for implementation of 400 kV line, some alternative evacuation arrangement need to be evolved by HPPTCL.

After the discussions Connectivity and Long term Access for 111MW generation of Sawra Kuddu HEP of HPPCL was granted subject to following:

##### **Connectivity**

- Connectivity was agreed to be granted through LILO of Nathpa-Jhakri-Abdullapur 400 kV D/c line & establishment of 220/400kV, 2x315 MVA pooling station along with the modification at Nathpa Jhakri and Abdullapur, if any. LILO arrangement as well as establishment of 400/220 kV substation shall be implemented by HPPTCL at

their cost. Injection of power at this substation shall be at 220 D/c kV line to be constructed by HPPTCL.

- The applicant shall abide by all provisions of the Electricity Act, 2003, the CERC regulation 2009 (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Central Electricity Authority (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The connectivity shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding connectivity would have to be met.
- The applicant shall furnish additional details for signing Connection Agreement for the same and would sign the Connection Agreement as per the provisions of Connectivity.
- For any additional power injection at this new S/s, application as per CERC regulations would be required.
- Considering the less available time for implementation of 400 kV line, some alternative evacuation arrangement need to be evolved by HPPTCL

### **Long term Access**

- Applicant shall have to firm up exact destination at least 3 years prior to the intended date of availing LTA at least for a capacity equivalent to 50% of the quantum of power for which LTA has been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009. As the Long Term access is required before three years the applicant may finalize and intimate the beneficiaries immediately.
- Signing the requisite BPTA for Northern Regional Transmission system charges and submitting of required Bank Guarantee within 6 months. (*Normally time given is one month, however on a specific request time period of six months was agreed*).
- The applicant, shall coordinate with HPPTCL for dedicated transmission line/Substation and bear all applicable transmission charges as decided by appropriate agencies for transfer of power upto regional grid point.
- Signing the requisite BPTA for Northern Regional Transmission system charges from Dec'2012 for 25 years.
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The Long term Access shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding LTA would have to be met.

### **5.0 Connectivity and Long Term Access (LTA) to Himachal Pradesh Power Corporation Limited, for connectivity and transfer of 195 MW power from Kashang HEP**

POWERGRID informed that Himachal Pradesh Power Corporation Ltd.(HPPCL) had applied for Connectivity & Long Term Access for their 195 MW Kashang Generation project at Kinnaur, H.P. As per the application, the connectivity and LTA for the project is required by January, 2013. Commissioning schedules as indicated by HPPCL for

Unit-1 is Jan, 2013, for Unit-2 it is Feb,2013, Unit-3 it is October,2014. Beneficiary for power is Northern Region.

### **Connectivity and Long Term Access**

POWERGRID stated that as per the connectivity application, the nearest substation to Kashang HEP are Bhabha Substation (27 km), Kotla Substation (52 km) and Kunihar Substation (190km). As per the master plan evolved by CEA, for evacuation of power from Satluj basin, it envisages a 400/220kV Substation at Sherpa colony where power from various hydro projects is to be pooled.

POWERGRID informed that Tidong-I (100MW) which is in the vicinity had already applied for Long Term Access and while granting Long term Access it was intimated that initially power was to be evacuated by Tidong-I - Kashang – Bhabha – Kunihar 220 kV D/c line of STU and when the 400 kV substation at Jangi and pooling station at Sherpa colony would be commissioned, the Tidong power could be injected at Jangi and be evacuated as envisaged in the Master Plan for Sutluj Basin project. Further, it was informed that HPPCL in addition to Kashang HEP has also applied LTA for Shong Tong HEP (450 MW) which is close to Sherpa Colony.

As about 645 MW needs to be evacuated (Kashang -195MW & Shong Tong Karcham 450 MW), a 400/220kV Substation at Sherpa colony by LILO of one ckt. of Karcham Wangtoo- Abdullapur D/c line at a 400/220 kV substation at Sherpa colony may be established alongwith Shongtong. The substation would be commissioned matching with Shong Tong time frame and till then power from the project would be evacuated via extending Bhabha – Kunihar 220 kV D/c. Since the line shall carry 415 MW power, from Bhabha(120 MW), Kashang(195 MW) and Tidong-I(100MW), it would be loaded to its full capacity and would not be able to sustain contingency.

With the commissioning of Karcham Wangtoo system, about 1000 MW shall be available for future projects, out of which already 100 MW has been allotted for Sorang HEP. The proposed Tidong-I, Kashang and Shongtong Karcham can also be evacuated over the above corridor upto Abdullapur. It was agreed that beyond Abdullapur, additional transmission system would be required with commissioning of proposed generation projects. The additional transmission system shall be evolved based on progress of generation and network orientation. HPPCL would be required to share transmission charges for the additional transmission system, alongwith other generations, if any.

After the discussions it was agreed that Connectivity and Long term Access for 195MW generation of Kashang HEP of HPPCL be granted, subject to following:

### **Connectivity**

- As Kashang (195 MW) HEP, is scheduled to commissioned by January 2013, it was agreed that applicant may evacuate power from the project by extending Bhabha-Kunihar 220kV line initially till the commissioning of Sherpa colony. It was stated that the line shall carry power 415 MW, from Bhabha(120 MW), Kashang (195 MW) and Tidong-I(100MW), The line would be loaded to its full capacity and would not be able to sustain contingency.
- For evacuation of Shongtong Karcham (450 MW), a 400kV substation at Sherpa colony by LILO of one circuit of Karcham Wangtoo – Abdullapur line, matching with generation schedule (March'15) was proposed. The works of establishing 400kV Sherpa colony substation and providing connectivity from the generation project by 400kV D/c can be carried out under ISTS as per provisions of the CERC regulations

and approved procedure of CTU. With the commissioning of Sherpa colony, power from Kashang, in accordance with CEA master plan, may be pooled at Sherpa colony by LILO of Kashang-Bhabha-Kunihar 220kV line and establishment transformation capacity of 2x500 MVA. The works (LILO bays and provision of ICT & associated bays) may be carried out by can be carried out by CTU / transmission licensee as per provisions of the CERC regulations as a depository work on behalf of applicant/HPPTCL. LILO of 220kV line of HPPTCL at proposed Sherpa colony would have to be carried out by HPPTCL.

- To provide reliability HPPTCL may provide additional Kashang- Sherpa colony 220 kV D/c line in the time frame of Sherpa substation in line with master plan of CEA. In case of constraint in ROW, the capacity of 220kV D/c section between Kashang and Sherpa colony may be upgraded by reconductoring with high capacity conductor.
- HPPTCL/HPPCL would discuss for vacation of land presently being held by M/s Jaypee Ltd. for Sherpa Colony substation or else assist the CTU/transmission licensee for identifying/acquisition of the land for substation at Sherpa colony.
- The applicant shall abide by all provisions of the Electricity Act, 2003, the CERC regulation 2009 (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Central Electricity Authority (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time..
- The connectivity shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding connectivity would have to be met.
- The applicant shall furnish additional details for signing Connection Agreement for the same and would sign the Connection Agreement as per the provisions of Connectivity.

### **Long term Access**

- The Long term Access was granted subject to the condition that the applicant shall coordinate with HPPTCL for dedicated transmission line and bear all applicable transmission charges as decided by appropriate agencies.
- Applicant shall have to firm up exact destination at least 3 years prior to the intended date of availing LTA at least for a capacity equivalent to 50% of the quantum of power for which LTA has been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009. As the Long Term access is required before three years the applicant may finalize and intimate the beneficiaries immediately.
- Signing the requisite BPTA for Northern Regional Transmission system charges from Dec'2013 for 25 years within six months.
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The Long term Access shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding LTA would have to be met.

## **6.0 Connectivity and Long term Access (LTA) to Himachal Pradesh Power Corporation Limited, for connectivity and transfer of 450 MW power from Shongtong Karcham HEP**

POWERGRID informed that Himachal Pradesh Power Corporation Ltd.(HPPCL) has applied for Connectivity and Long Term Access of their Shongtong Karcham (450) MW Generation project in Satluj Basin at Kinnaur, H.P. As per the application, the connectivity and LTA for the project is required by March, 2015 (Unit-1 : March,2015, Unit-2 : April,2015 & Unit-3 : May,2015). The beneficiary for the power is Northern Region.

### **Connectivity and Long Term Access**

POWERGRID informed that HPPCL had proposed to LILO of one circuit of Baspa-II – Jhakri D/c line at Shongtong Karcham HEP. As per their connectivity application, the generation project is located about 2 km (during the meeting it was informed that it is about 20 km) from proposed Sherpa colony 400kV S/s. As per the master plan evolved by CEA for evacuation of power from Satluj basin, it envisages pooling of power from the project in 400/220kV Substation at Sherpa colony.

It was informed that Tidong-I (100MW) had already applied for Long Term Access and while granting Long term Access it was decided that initially power to be evacuated by Tidong-I - Kashang – Bhabha – Kunihar 220 kV D/c line of STU and when the 400 kV substation at Jhangi and pooling station at Sherpa colony would be commissioned, the Tidong power could be injected at Jhangi and be evacuated as envisaged in the Master Plan for Sutluj Basin project. Further, HPPCL has also applied LTA for Kashang HEP. Since 400/220kV substation of Jhangi will materialize in a later time frame, it was agreed that injection of power be at Sherpa colony.

Keeping above in view, presently about 750 MW needs to be evacuated from the basin, Kashang (195MW), Tidong-I (100 MW) and Shong Tong Karcham (450 MW) and to evacuate the power, a 400/220kV Substation at Sherpa colony by LILO of one circuit of Karcham Wangtoo- Abdullapur at Sherpa colony was agreed. The substation would be commissioned matching with Shong Tong time frame. It was agreed that the Shongtong Karcham HEP would be connected to Sherpa colony by a 400kV D/c line. With the commissioning of Karcham Wangtoo system, about 1000 MW shall be available for future projects, out of which already 100 MW has been allotted for Sorang HEP. Tidong-I, Kashang and Shongtong Karcham can also be evacuated over the corridor upto Abdullapur.

Beyond Abdullapur additional transmission system would be required with commissioning of proposed generation projects. The additional transmission system shall be evolved based on progress of generation and network orientation. HPPCL would be required to share transmission charges for additional transmission system, alongwith other generations, if any.

After the discussions, it was agreed that Connectivity and Long term Access for 450MW generation of Shongtong Karcham HEP of HPPCL be granted subject to following:

### **Connectivity:**

- For evacuation of Shongtong Karcham (450 MW) it is proposed to establish a 400kV substation at Sherpa colony by LILO of one circuit of Karcham Wangtoo – Abdullapur 400 kV D/c (quad) line, matching with generation schedule (March'15). The works of establishing 400kV Sherpa colony substation and providing connectivity from the

generation project by 400kV D/c can be carried out by CTU / transmission licensee as per provisions of the CERC regulations. With the commissioning of Sherpa colony, power from Kashang, in accordance with CEA master plan, would be pooled at Sherpa colony by LILO of Kashang-Bhabha-Kunihar 220kV line and establishment of transformation capacity of 2x500 MVA. The works (LILO and its bays and provision of ICT & associated bays) would be carried out as a depository work on behalf of HPPCL/HPPTCL.

- HPPTCL/HPPCL would discuss for vacation of land presently being held by M/s Jaypee Ltd. for Sherpa Colony substation or else assist the CTU/transmission licensee for identifying/acquisition of the land for substation at Sherpa colony.
- The applicant shall abide by all provisions of the Electricity Act, 2003, the CERC regulation 2009 (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State Transmission and related matters) Central Electricity Authority (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The connectivity shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding connectivity would have to be met.
- The applicant shall furnish additional details for signing Connection Agreement for the same and would sign the Connection Agreement as per the provisions of Connectivity.
- Further, HPPCL shall have to sign separate Transmission Agreement with CTU /transmission licensee for bearing transmission charges of Sherpa colony S/s alongwith LILO & 400kV D/c shall also be required to submit Bank Guarantee @ Rs. 2.5 Lakhs per MW if required line is less than 20 kms else @ Rs. 5 Lakhs per MW of connectivity applied/granted.

### **Long term Access**

- Applicant shall have to firm up exact destination at least 3 years prior to the intended date of availing LTA at least for a capacity equivalent to 50% of the quantum of power for which LTA has been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009.
- The Long term access is being granted subject to the condition that the applicant will bear all applicable transmission charges for transfer of power as decided by appropriate agencies
- Signing the requisite BPTA for Northern Regional Transmission system charges from Dec'2015 for 25 years.
- Additional strengthening would be required for transfer of power beyond Abdullapur. The system would be evolved looking into progress of the generating stations in the basin. The system cost shall be shared by the applicant, along with other beneficiaries, if any.
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC(Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The Long term Access shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission and all provisions regarding LTA would have to be met.

## **7.0 Long Term Open Access granted to M/s Sunflag under CERC regulation 2004**

POWERGRID informed that M/s Sunflag Power Ltd. had applied for Long-Term Open Access, for injection of 52.8 MW power from Hanoli Tiuni HEP (60MW) located at Uttarakhand. Expected date of commencement of Long term Open Access, as indicated by M/s. Sunflag Power Ltd. was December 2014 for 30 years. The beneficiary in Northern region had been indicated as any utility in Northern Grid. The application was discussed during the Long term Open Access meeting held on 23/02/2010 and it was agreed that PTCUL was to take up the intrastate transmission system up to the pooling point i.e. power from Hanoli Tiuni was to be transferred to Dehradun 400/220kV substation of POWERGRID, via Mori 220kV S/s of PTCUL, through a 220kV D/c line. The Long term Access intimation was issued to M/s Sunflag vide letter dated 20/04/2010.

Chief Engineer (SP&PA), CEA enquired about the latest commissioning schedule of the project. Representative of M/s Sunflag indicated that the revised commissioning schedule is December 2015. Chief Engineer (SP&PA), CEA that they should submit the 6 monthly progress to CTU & CEA.

It was informed that Sunflag had intimated that Hanoli Tuini is the only company in Yamuna Valley who have submitted application for seeking open Access from PTCUL and they are not sure about the period it would take PTCUL to construct the transmission line upto Dehradun substation of POWERGRID and desired for a 220 kV connectivity at 220kV switching point at Hatkoti, which is at a distance of around 32 km of HPPTCL in Himachal Pradesh. M/s Sunflag had requested for a “change of point of connection from Deharadun to Sainj in Himachal Pradesh as an interim arrangement till PTCUL becomes ready with their transmission system from the project to Dehradun”.

HPPTCL informed that they do not have any objection for granting the connectivity at HPPTCL network. PTCUL confirmed that they would provide the requisite STU network up to ISTS system i.e. 400/220 kV Dehradun S/s of POWERGRID matching with the commissioning schedule of Hanoli Tuni. It was also stated that by PTCUL that M/s Sunflag Ltd. should apply for connectivity & open access for intrastate system to PTCUL and also sign necessary TSA with them, so that implementation of the system is taken up. M/s Sunflag stated that they would apply for open access for intra state system as well as sign the TSA with PTCUL in January 2011.

## **8.0 Long term Access to Shri Bajrang Power & Ispat Ltd. for transfer of 22.5 MW power from Rupin HEP(45 MW) located in Himachal Pradesh**

POWERGRID informed that M/s Shri Bajrang Power & Ispat Ltd. had applied for long-term open access to transfer 45 MW of power for 40 yrs. from the proposed Rupin HEP(45 MW) to be set up in Himachal Pradesh. The commissioning schedule for generation project was Unit I II & III – June 2014. Representative from Bajrang power intimated that the commissioning schedule has been revised to June 2016. As per the application, a quantum of 22.5 MW was targeted to be transferred to Punjab/ Rajasthan in Northern Grid and balance 22.5 MW to Maharashtra (22.5 MW) in Western Grid. The application was discussed in the Long Term Open Access Meeting held on 30/05/2009 at Nainital alongwith 27<sup>th</sup> Standing Committee Meeting of Northern Region. Power from the generating station was to be evacuated to nearby Hatkoti pooling station of STU. Beyond HatKoti pooling station, the power was planned to be evacuated to Nalagarh 400/220kV substation of POWERGRID via Moginand 220kV substation.



The above granted LTOA was again discussed during the meeting and it was stated that applicant had recently forwarded a letter from HPPTCL, indicating that a 220/400kV pooling station near Sainj (Shimla) has been envisaged and advising approaching CTU for Long term Access. Further, the quantum of power to be transferred has been reduced from 45MW to 39.6MW, of which 20MW is targeted to be transferred to Punjab/Rajasthan in Northern Grid and balance 19.6MW to Maharashtra in Western Grid. Also, the scheduled commercial operation date has been changed from June 2014 to June 2016. In view of above changes, Long-term Open Access to M/s Shri Bajrang Power & Ispat Ltd. was agreed to be granted for transfer of 39.6MW of Rupin HEP beyond Sainj 400/220kV Substation subject to following:

- Signing the requisite BPTA for Northern Regional & Western Regional Transmission system charges from June'2016 for 40 years
- The applicant shall enter into Bulk Power Transmission Agreement (BPTA) with POWERGRID within thirty days of confirmed grant of Long Term Open Access.
- Shri Bajrang Power & Ispat Ltd. shall take up the matter with HPPTCL to ensure commissioning of Sainj 400/220kV substation with required connectivity, transmission line from generating station to Sainj and bear all applicable transmission charges for transfer of power up to regional grid point.
- M/s Shri Bajrang Power & Ispat Ltd have informed beneficiary as 20 MW for Punjab/Rajasthan in Northern Grid and 19.6 MW to Maharashtra in Western Grid. LTOA to Shri Bajrang Power & Ispat Ltd. would be granted with equal proportion of 10 MW for Punjab & Rajasthan.
- Transfer of 19.6 MW power to Maharashtra would be through displacement and looking into the quantum of power flow, no problem is envisaged in transfer of power.

#### **9.0 Long term Open access to M/s Nuziveedu Seeds Ltd. for transfer of 100 MW from their Tidong-I HEP at Kinnaur Distt., H.P.**

POWERGRID informed that they had received an application dated 4/6/08 from M/s Nuziveedu Seeds Ltd. seeking long-term open access to transfer 100 MW from Tidong-I, located at Kinnaur Distt., HP to various NR constituents. Out of 100 MW, 88 MW power is proposed to be distributed among three states- Haryana, Punjab & Delhi and 12MW (12% free power) has been allocated to HP. Expected date of commencement of Long term Open Access was indicated as 31/12/2011 and the duration is for 25 years.

During the Long term Open Access meeting held on 30/05/2009, it was discussed & agreed that the power from Tidong-I could be evacuated via Kashang, Bhabha, Kotla, Kunihar 220 kV D/C lines of HPSEB. It was also informed by HPSEB that the 220 kV D/c line from Kashang to a location near Bhabha HEP would be ready by March 2009. HPSEB was required to construct a 220 kV D/c line from Tidong-I to a location near Kashang-I project site and also 220 kV D/c line from Bhabha to Kunihar. It was also agreed that, as and when the 400 kV S/s at Jangi and pooling station at Sherpa colony would be commissioned, the Tidong power could be injected at Jangi Pooling Station and be evacuated as envisaged in the Master Plan for Sutluj Basin Project. Accordingly, the Long-term Open Access was granted to Tidong-I HEP of M/s Nuziveedu Seeds Limited.

As per revised plan, power from the project is to be evacuated via Kashang and is to be injected at Sherpa colony. Till the commissioning of Sherpa colony, power from the project would be evacuated by extending Bhabha-Kunihar line. It was mentioned that the line shall carry power 415 MW, from Bhabha (120 MW), Kashang (195 MW) and

Tidong-I (100MW), the line shall be loaded to its full capacity and would not be able to sustain contingency.

Further, it was informed that M/s Nuziveedu Seeds Ltd. had indicated that

- Name of the company has been changed to NSL Tidong Power Generation in place of Nuziveedu Seeds Ltd.
- Commencement of Open Access from 31/03/2012.
- BPTA would be signed by Tata Power Trading Co. Ltd. as they had signed PPA with Tata Power Trading Co. Ltd.
- The beneficiaries had changed and would be as decided by Tata Power Trading Co. Ltd.

After the discussions, it was agreed that without beneficiaries, LTOA cannot be processed. Further, owing to the changes in the application and new regulations in effect, a fresh LTA application is required from the applicant/ Tata Power Trading Co. Ltd. in accordance with the Regulations for “Grant of Connectivity, Long-term Access and Medium-term Open Access in Inter-State Transmission”, notified by Central Electricity Regulatory Commission (CERC), and Detailed procedures of Central Transmission Utility (POWERGRID) approved by CERC.

## **10.0 Connectivity and Long term Access for power project of M/s Sravanthi Energy Private Limited in Uttarkhand**

POWERGRID informed that M/s Sravanthi Energy Private Ltd., had applied for Connectivity and long term Access of their 450 MW (Phase-1 – 225MW and Phase-II– 225MW) Generation project at Village Khaikhera, Tehsil-Kashipur, Distt Udham Singh Nagar in Uttarakhand. As per the application, the connectivity for the project is required by January 2011. The commissioning schedules of the units are as below:

### **Phase-I : 225 MW**

Unit-1 (75 MW - Open cycle)	: January 2011
Unit-2 (75 MW - Open cycle)	: January 2011
Unit-3 (75 MW - Combined cycle)	: March 2011

### **Phase-II : 225 MW**

Unit-4 (75 MW - Open cycle)	: January 2012
Unit-5 (75 MW - Open cycle)	: January 2012
Unit-6 (75 MW - Combined cycle)	: March 2012

Long term Access is required is 25 years and is from March, 2011 for phase-I (225 MW) and January, 2012 for phase-II (225MW). The beneficiaries of the project are Northern region constituents.

### **Connectivity and Long Term Access of Generation**

The nearest substations for Connectivity of the generating station are Kashipur 400 KV S/s of PTCUL (10 km) and Mahuakheda Ganj 220kV S/s of PTCUL (2 km).

It was informed that in addition to Sravanthi (450 MW), M/s Gamma Infraprop and M/s Beta Infratech have applied for connectivity and LTA for their 337.5 MW and 358 MW generation plant near Kashipur respectively.

POWERGRID informed that the proposed Makhuakheda Ganj 220kV substation of PTCUL would not be able to handle power from all the projects. Considering the quantum of power to be evacuated from the project and target beneficiaries are

Northern Region constituents, connectivity of the generation project was agreed by LILO of one circuit Kashipur-Roorkee 400 kV Quad line at the generation switchyard.

However, keeping in view the early schedule of Sravanthi, which is the first 1<sup>st</sup> generator in the complex Phase-I (225 MW), connectivity was proposed at Mahuakheda Ganj as a temporary arrangement which would be restored back to final arrangement. This temporary arrangement would be for one year or as per the direction of PTCUL. It was also proposed that the detailed modalities for temporary termination may be carried out in consultation with PTCUL as the system belongs to STU.

Representative of the PTCUL stated that earlier a 220 kV D/c (Twin) line from generation project was being planned. It was explained that considering the quantum of power flow as well as the complete power is to go outside the state, the LILO of 400 kV line has been proposed. Considering this the proposal was agreed by the constituents.

### **Long Term Access**

The applicant had applied for LTA for 450 MW, Phase-I (225MW) from March, 2011 and Phase-II (225 MW) from January, 2012. The beneficiaries of the project have been indicated as Northern region Constituents. Power from the project is to be injected into the ISTS by LILO of one circuit Kashipur-Roorkee 400kV Quad line. For evacuation of power from the generation project, following transmission system of POWERGRID would be available:

- Sravanthi Generation– Roorkee 400kV
- Roorkee -Saharanpur 400 kV D/c (quad)
- Saharanpur-Dehradun 400 kV D/c (quad)
- Dehradun-Abdullapur 400 kV D/c (quad)

In addition to power from Sravanthi, Gama & Beta power plants, power from hydro generation projects proposed in Uttarakhand would also be injected at Kashipur. With the commissioning of the above projects additional strengthening would be required. It was decided that beyond Kashipur, additional strengthening required if any, would be carried out based on the progress of generation projects and M/s Sravanthi would also be required to share transmission charges for the additional transmission system, alongwith other generations, if any. It was also indicated that as there are space constraints at existing Kashipur, a 400 kV switching station (GIS) may be constructed in/around Kashipur area, which may be integrated with existing Kashipur & Sravanthi and additional strengthening may be identified from Kashipur. Additional strengthening would be identified in next two/three months.

### **Connectivity**

It was agreed that Connectivity of 450MW generation of M/s Sravanthi Energy Private Ltd. to Kashipur 400/220kV Substation may be granted subject to following:

- The applicant shall LILO one circuit of Kashipur-Roorkee 400kV Quad line at the generating switchyard. In case of any modification required in the proposed line due to the proposed LILO, the same shall be borne by the generator. The applicant shall ensure that the equipment and 400kV switchyard shall be designed for terminating Quad lines.
- However, keeping in view the early schedule of 1<sup>st</sup> generator, connectivity is being granted at Mahuakheda Ganj as a temporary arrangement which will be restored back to final arrangement. This temporary arrangement may be for one year or as per the direction of PTCUL.

- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Central Electricity Authority (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- The connectivity shall be as per the detailed procedures of Central Transmission Utility (POWERGRID) for Grant of Connectivity, Long-term Access and Medium-term Open Access to Inter-State Transmission.
- The applicant shall furnish additional details for signing Connection Agreement for the same and would sign the Connection Agreement as per the provisions of Connectivity.

### **Long Term Access**

M/s Sravanthi Ltd. had applied to POWERGRID for Long-Term Access, for their 450 MW (Phase-I – 225MW and Phase-II – 225MW) Generation project at Tehsil-Kashipur, Distt. Udham Singh Nagar in Uttarakhand. It was agreed to grant Long term Access subject to following:

- The applicant shall indicate the exact beneficiaries with quantum of power.
- The Long term Access is granted subject to commissioning of following scheme:
  - Kashipur–Roorkee–Saharanpur 400 kV D/c (Quad)
  - Saharanpur-Dehradun 400 kV D/c (Quad)
- In addition to power from Sravanthi, Gama & Beta power plants, power from generation projects proposed in Uttarakhand would also be injected at Kashipur. With the commissioning of the above projects additional strengthening would be required. It was decided that beyond Kashipur, additional strengthening required if any, would be carried out based on the progress of generation projects and M/s Sravanthi would also be required to share transmission charges for the additional transmission system, alongwith other generations, if any. It was also indicated that as there are space constraints at existing Kashipur, a 400 kV switching station (GIS) may be constructed in/around Kashipur area, which may be integrated with existing Kashipur & Sravanthi and additional strengthening may be identified from Kashipur. Additional strengthening would be identified in next two/three months.
- Grant of LTA would be subject to signing of the requisite BPTA for Northern Transmission system charges.
- Applicant shall have to firm up exact destination at least 3 years prior to the intended date of availing LTA at least for a capacity equivalent to 50% of the quantum of power for which LTA has been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009. As the Long Term access is required before three years the applicant may finalize and intimate the beneficiaries immediately.
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.

### **11.0 Connectivity and Long term Access for power project of M/s Gama Infraprop(P) Limited in Uttarkhand**

POWERGRID informed that M/s M/s Gama Infraprop(P) Limited, has applied for Connectivity and Long term Access for their 337.5 MW (Phase-1 – 225MW and Phase-II : 112.5 MW) Generation project at Village Mahua Khera Ganj , Tehsil-Kashipur, Distt

Udham Singh Nagar in Uttarakhand. The connectivity for the project is required by October 2011. Commissioning schedules of the units are:

**Phase-I : 225 MW**

GT (150 MW) : October 2011  
ST (75 MW) : December 2011

**Phase-II : 112.5 MW**

GT (75 MW) : March 2012  
ST (37.5 MW) : June 2012

**Connectivity of Generation**

POWERGRID informed that the nearest substations for Connectivity of the generating station are Kashipur 400 KV S/s of PTCUL (10 km) and Mahuakheda Ganj 220kV S/s of PTCUL (0 km), adjacent to substation. In addition to Gamma (337.5 MW), M/s Sravanthi and M/s Beta Infratech have applied for connectivity for their 450 MW and 358 MW generation plant near Kashipur respectively.

It was informed that the proposed Mahuakheda Ganj 220kV substation of PTCUL would not be able to handle power from all the projects. Considering the quantum of power targeted for interstate transfer, connectivity of the generation project was proposed in the agenda by the LILO of one circuit of Kashipur-Roorkee 400 kV Quad line at the generation switchyard. POWERGRID further informed that M/s Gama have recently informed that their generation step up is at 220 kV level and also they do not have space for accommodating 220/400 kV ICTs and therefore it would not be possible to make the LILO arrangement of 400 kV line. Considering this it was proposed that power from the generation project of Gama Infraprop (P) Ltd may be injected at Kashipur 400/220 kV substation of PTCUL by a high capacity 220 kV D/c (twin conductor) line. The same was agreed by the constituents of Northern region.

**Long Term Access**

It was informed by POWERGRID that the applicant had applied for LTA for 125 MW in Phase-I from 31/3/2012 and 133 MW in Phase-II from March, 2014. The beneficiaries of the project have been indicated as Northern region Constituents. 100MW has been allocated to Uttarakhand from Phase-I. As decided during the meeting, power from the project is to be injected at Kashipur 400/220 kV substation of PTCUL by a high capacity 220 kV D/c (twin conductor) line. For evacuation of power from the generation project, beyond Kashipur, following transmission system of POWERGRID would be available:

- Kashipur - Roorkee 400kV 400 kV D/c (Quad)
- Roorkee -Saharanpur 400 kV D/c (quad)
- Saharanpur-Dehradun 400 kV D/c (quad)
- Dehradun-Abdullapur 400 kV D/c (quad)

It was also informed, power from Sravanthi, Gama & Beta power plants and power from hydro generation projects proposed in Uttarakhand be injected at Kashipur. With the commissioning of the above projects additional strengthening would be required. It was decided that beyond Kashipur, additional strengthening required if any, would be carried out based on the progress of generation projects and M/s Gama would also be required to share transmission charges for the additional transmission system, alongwith other generations, if any. It was also indicated that as there are space constraints at existing Kashipur, a 400 kV switching station (GIS) may be constructed in/around Kashipur area, which may be integrated with existing Kashipur & Sravanthi and additional strengthening may be identified from Kashipur. Additional strengthening would be identified in next two/three months.

It was also informed by POWERGRID that although LTA application has been received, Bank Guarantee has not been submitted. It was requested to the representative of that BG needs to be submitted urgently. It was also requested that the applicant shall submit status for Land, TOR, Forest clearance, Gas supply and water for Phase II of the project.

### **Connectivity**

Connectivity of 337.5MW generation of M/s Gama was granted subject to following:

- The applicant shall implement a 220 kV D/c (Twin conductor) line at Kashipur 400/220 kV substation of PTCUL as a dedicated system. All the cost towards its implementation including 220 kV bays at both ends, cost towards O&M etc shall be borne by the applicant.
- The applicant shall take up the matter with PTCUL for termination of their line at Kashipur 400/220 kV substation.
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Central Electricity Authority (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- As the generation is being injected into the STU grid, the connectivity shall be as per the direction/procedure of PTCUL.

### **Long Term Access**

M/s Gamma Infraprop (P) Ltd. has applied for Long-Term Access LTA for 125 MW in Phase-I (225MW) from 31/3/2012 and 133 MW in Phase-II 112.5 MW from March, 2014 Generation project at Kashipur in Uttarakhand. It was agreed to grant Long term Access subject to following:

- Long term Access is granted subject to the availability of following scheme:
  - Kashipur–Roorkee–Saharanpur 400 kV D/c (Quad)
  - Saharanpur-Dehradun 400 kV D/c (Quad)
- It was also informed, power from Sravanthi, Gama & Beta power plants and power from hydro generation projects proposed in Uttarakhand be injected at Kashipur. With the commissioning of the above projects additional strengthening would be required. It was decided that beyond Kashipur, additional strengthening required if any, would be carried out based on the progress of generation projects and M/s Gama would also be required to share transmission charges for the additional transmission system in proportion to the LTA capacity, alongwith other generations, if any. It was also indicated that as there are space constraints at existing Kashipur, a 400 kV switching station (GIS) may be constructed in/around Kashipur area, which may be integrated with existing Kashipur & Sravanthi and additional strengthening may be identified from Kashipur. Additional strengthening would be identified in next two/three months.
- The applicant needs to submit Bank Guarantee for the 258 MW, which would be Twenty Five Lakhs Eighty Thousand. The Grant of LTA intimation shall be issued subject to submitting of the Bank Guarantee.
- It was agreed to grant the LTA subject to signing of the requisite BPTA for Northern Transmission system charges.
- Applicant shall have to firm up exact destination at least 3 years prior to the intended date of availing LTA at least for a capacity equivalent to 50% of the quantum of power for which LTA has been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009. As the open

access is required before three years the applicant may finalize and intimate the beneficiaries immediately

- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.

## **12.0 Connectivity and Long term Access for power project of M/s Beta Infratech (P) Limited in Uttarakhand.**

POWERGRID informed that M/s Beta Infratech (P) Limited has applied for Connectivity and Long term Access for their 358 MW Generation project at Village Mahuakhhera Ganj, Distt. Udham Singh Nagar in Uttarakhand. Connectivity for the project is required by December 2011. Commissioning schedules of the units are:

GT- #1 (77.1 MW)	: December 2011
GT - #2 (77.1 MW)	: February 2012
ST -#3 (85.2 MW)	: March 2012
GT - #4 (77.1 MW)	: December 2012
ST -#5 (41.3 MW)	: March 2013

### **Connectivity of Generation**

The nearest substations for Connectivity of the generating station are Kashipur 400 KV S/s of PTCUL (14-15 km) and Mahuakhhera Ganj 220kV S/s of PTCUL (1km). As per the Long term Access application the target beneficiary for 308 MW is PTCUL and only 50 MW is for Northern region. As most of power is to be consumed within the state it was proposed that the connectivity could be provided at Mahuakhhera Ganj 220kV substation of PTCUL. The same was agreed by all the constituents. It was also proposed that the connectivity of the generator may be through LILO of one ckt of Kashipur – Mahuakhheraganj 220 kV D/c line or by some other suitable arrangement in coordination with PTCUL for termination of a 220kV Line from the generating station to Mahuakhhera Ganj.

### **Long Term Access**

The applicant has applied for LTA for 50 MW, from March, 2012. The beneficiaries of the project have been indicated as Northern region Constituents. Power from the project is to be injected at Mahuakhhera Ganj. Mahuakhhera Ganj would be connected to Kashipur 400kV Substation of PTCUL by 220kV line of PTCUL. Long term Access was granted for transfer of power beyond Kashipur 400kV substation. Presently connectivity of Kashipur 400kV with rest of the grid is via Kashipur-Moradabad 400kV S/c and Kashipur-Rishikesh 400kV S/c. For improved connectivity of Kashipur and better evacuation of power, following transmission system is under implementation:

- Kashipur – Roorkee-Saharanpur 400 kV D/c (quad)
- Saharanpur-Dehradun 400 kV D/c (quad)
- Dehradun-Abdullapur 400 kV D/c (quad)

It was also explained that similar to the case of Gama & Sravanthi, the identified strengthening shall have to be shared by Beta also, in proportion to the LTA capacity.

### **Connectivity**

Connectivity of 358 MW generation of M/s Beta Infratech Pvt. Ltd. to Kashipur 400/220kV Substation was agreed subject to following:

- The applicant shall build a 220kV D/c with adequate capacity from generating switchyard to Mahuakheda Ganj.
- The applicant should coordinate with PTCUL for connectivity at Mahuakhedaganj with PTCUL. The connectivity of the generator may be through LILO of one ckt of Kashipur – Mahuakhedaganj 220 kV D/c line or by some other suitable arrangement in coordination with PTCUL for termination of 220kV Line at Mahuakheda Ganj.
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Central Electricity Authority (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.
- As the generation is being injected into the STU grid, the connectivity shall be as per the direction/procedure of PTCUL.

### **Long Term Access**

M/s Beta Ltd. had applied to POWERGRID for Long-Term Access for 50 MW from their 358 MW Generation project at Village Mahuakhera Ganj, Distt Udham Singh Nagar in Uttarakhand. Long term Access was processed for transfer of power beyond Kashipur. Long term Access was agreed to be granted subject to following:

- The applicant shall indicate the exact beneficiaries with quantum of power.
- The Long term Access is granted subject to commissioning of following scheme:
  - Kashipur–Roorkee–Saharanpur 400 kV D/c (Quad)
  - Sharanpur-Dehradun 400 kV D/c (Quad)
- It was also informed, power from Sravanthi, Gama & Beta power plants and power from hydro generation projects proposed in Uttarakhand be injected at Kashipur. With the commissioning of the above projects additional strengthening would be required. It was decided that beyond Kashipur, additional strengthening required if any, would be carried out based on the progress of generation projects and M/s Gama would also be required to share transmission charges for the additional transmission system in proportion to the LTA capacity, alongwith other generations, if any. It was also indicated that as there are space constraints at existing Kashipur, a 400 kV switching station (GIS) may be constructed in/around Kashipur area, which may be integrated with existing Kashipur & Sravanthi and additional strengthening may be identified from Kashipur. Additional strengthening would be identified in next two/three months.
- LTA granted is subject to signing of the requisite BPTA for Northern Transmission system charges. The applicant shall coordinate with PTCUL for applicable STU transmission charges.
- Applicant shall have to firm up exact destination at least 3 years prior to the intended date of availing LTA at least for a capacity equivalent to 50% of the quantum of power for which LTA has been sought for through signing of PPA with such grid connected entities/STUs as per CERC Regulations 2009. As the Long Term access is required before three years the applicant may finalize and intimate the beneficiaries immediately
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.



### **13.0 Long Term Open Access to Rosa Power Supply Company Limited for transfer of 600 MW from their Rosa Thermal Power Project (Stage II) located at Shahjahanpur, Uttar Pradesh.**

POWERGRID informed that M/s Rosa Power Supply Company Limited had applied seeking Long Term Open Access for transfer of 300 MW power from Stage-II (2x300 MW) of Rosa Power Project located at Shahjahanpur, U.P. Out of 600 MW power, 300 MW power was allocated to Uttar Pradesh and balance 300 MW was to be transferred to Delhi (150MW) and Haryana (150 MW). The application was discussed in the Long Term Open Access Meeting held on 30/05/2009 at Nainital alongwith 27<sup>th</sup> Standing Committee Meeting of Northern Region. During the meeting, it was decided that Long-term Open Access could be granted for 25 years subject to following:

Long Term Open Access to Rosa Power Company shall be granted after the commissioning of following strengthening scheme:

- Bareilly – Meerut 765 kV S/c
- One ckt of Lucknow – Bareilly 765 kV line
- Bareilly-Kashipur–Roorkee–Saharanpur 400 kV D/c (Quad conductor)

For connectivity of Rosa Power Plant with the grid, the following was agreed:

- Rosa- Shahjahanpur 400 kV D/c

POWERGRID further informed that Shahjahanpur (PG) S/s was expected to be commissioned by Nov.'12 whereas the first unit of Rosa Stage-II was to be commissioned by September '2011 and second unit by December'2011. It was also informed that UPPTCL proposed to LILO one circuit of Unnao – Bareilly 400 kV D/c line at Rosa TPS alongwith bypassing of Series compensation of Unnao.

POWERGRID proposed that in view of the early commissioning schedule of the generation, Rosa generation might be connected to the grid by connecting the proposed Rosa-Shahjahanpur line to one circuit of Lucknow –Bareilly 400kV line i.e., LILO of Lucknow-Bareilly line at Rosa generation till the commissioning of Shahjahanpur S/s. Thereafter the system as envisaged originally would be restored.

POWERGRID would construct one D/c line (LILO portion upto proposed site of Shahjahanpur substation) and M/s Rosa would also bring their line upto proposed site of Shahjahanpur substation and both lines would be joined so as to make Rosa – Lucknow and Rosa –Bareilly 400 kV S/c lines. This would avoid any additional expenditure and avoid bypassing of the series compensation. It was assured by POWERGRID that they would implement the proposed arrangement matching with Rosa Stage-II first unit commissioning.

### **14.0 Long term Access for Malana-II power project in Himachal Pradesh**

POWERGRID informed that M/s Power Trading Corporation had applied for Long-term Open Access to transfer 86MW of power from the proposed Malana-II HEP (100 MW) to be set up in Himachal Pradesh. For transmission requirement and injection of power at Nalagarh, LILO of one circuit of ADHEP-Nalagarh 220 kV D/c line has been carried out by the project developer. In a meeting held on 3<sup>rd</sup> September, 2010 at NRLDC, New Delhi to discuss Control area, Jurisdiction, location of energy meter, scheduling , loss apportionment and dispatch instructions etc, in respect of AD HEP and Malana-II HEP it was decided that “ Malana-II with an installed capacity of 100 MW has only 86 MW LTA on ISTS from Nalagarh onwards

to Punjab. Since the total generation from the Malana-II HEP should also be for full capacity of 100 MW rather than 86 MW and it was agreed that necessary action would be taken by M/s Everest Power Limited and CTU for correcting the LTA capacity in respect of Malana-II HEP". During the meeting it was opined that since the LTA application was for 86 MW and BPTA for the same has already been signed and therefore there is no requirement of a new BPTA. Additional BPTA, for the balance power, shall be signed incase new application is received.

### **15.0 Long term Access for Bara Bangahal HEP of M/s Malana Power in Himachal Pradesh**

POWERGRID informed that M/s Malana Power Company had applied for Long term Access in ISTS for transfer of 240 MW of power from the proposed Bara Bangahal HEP (3x66.67MW) to be set up in Himachal Pradesh. The commissioning schedule for generation project is progressively from 30/11/2016. The application was discussed in the Long term Open Access Meeting held on 30/05/2009 at Nainital along with 27<sup>th</sup> Standing Committee Meeting of Northern Region. It was discussed that power from Bara Bangahal was to be injected at Bajoli Holi HEP at 220kV level. Beyond Bajoli Holi, power was to be pooled at Lahal pooling point of Himachal. From Lahal pooling, evacuation to Chamera Pooling station of POWERGRID would be through a 400kV D/c line to be established by HPPTCL. Beyond Chamera Pooling point power would be evacuated via ISTS regional grid. It was agreed that Long-term Open Access can be granted to M/s Malana Power Company for transfer of Bara Bangahal power from Chamera Pooling station of POWERGRID, subject to that the company shall within a month's time indicate the quantum of power, firm commissioning schedule, period of open access and the arrangement for supply of home state power. After receipt of above information, the intimation for Long term Open Access was to be issued. Incase of non-receipt of above information, the Long term Open Access Application was to be closed.

Chief Engineer (SP&PA), CEA enquired about the progress of the project. Representative of Malana Power company intimated that the project falls in Dhauladhar wild life sanctuary and they have taken up the issue with Supreme Court. In the absence of clearance from HP and from Supreme Court, they are not in a position to commit on the commissioning date or sharing of cost with Bajoli Holi or sign the BPTA.

After detailed deliberations it was agreed to close the application, as the application is very old (Oct'08), and developer was suggested to apply afresh with the progress of generation project.

### **16.0 Long term Access for Chango Yangthang HEP of M/s Malana Power in Himachal Pradesh**

POWERGRID informed that M/s Malana Power company, had applied for Long-term Access in ISTS for transfer of 168 MW of power from the proposed Chango Yangthang HEP to be set up in Himachal Pradesh. The commissioning schedule for generation project is progressively from 01/05/2015. The application was discussed in the Long term Open Access Meeting held on 30/05/2009 at Nainital along with 27<sup>th</sup> Standing Committee Meeting of Northern Region. It was discussed that, as per the Master plan of HP, Power from the Yangthang generation project would be evacuated via Jangi and Sherpa 400/220kV pooling station to Northern region grid. After the discussions. Long-term Open Access was granted to M/s Malana Power

Company for transfer of Chango Yang Thang power from a feasible ISTS Grid station i.e. Abdullapur, subject to that the company shall within a month's time indicate the quantum of power, firm commissioning schedule, period of open access and the arrangement for supply of home state power. It was decided that after receipt of above information, the intimation for Long term Open Access shall be issued. In case of non-receipt of above information, the Long term Open Access Application was to be closed. Representative of Chango Yangthang stated that they are willing to develop the generation, however in the absence of firming up of transmission system they are not making any progress on the project. POWERGRID stated that the cost of transmission system even upto Sherpa colony 400 kV station would be very high and it may not be an economical solution for a single project.

Chief Engineer (SP&PA), CEA stated that HPPTCL should develop the transmission system to facilitate the IPPs on the lines of Uttarakhand.

After detailed deliberations it was decided that the application may be put on hold for another six months and matter shall be discussed again.

### **17.0 Connectivity for 1x700 MW expansion unit of Rajpura project of M/s Nabha Power Limited in Punjab**

POWERGRID informed that M/s Nabha Power Limited (a wholly owned subsidiary of L&T) is currently developing a 2x700 MW domestic coal based thermal power project at Rajpura in Punjab. Further, M/s NPL has signed a MOU with the Government of Punjab for enhancing the capacity of the present plant by an expansion unit of 1x700 MW adjacent to the current plant. The expansion unit shall be setup within the boundary of the present project.

M/s Nabha Power Ltd, had applied to POWERGRID for Connectivity of their 700MW. As per the application, the connectivity for the project is required by August'2014.

#### **Connectivity of Generation**

Nabha is (2x700 MW) is an already under construction thermal power plant in Punjab. For evacuation of power from the project following transmission had been agreed for immediate evacuation of power:

- Nabha Generation – Rajpura 400kV D/c
- Nabha Generation – Nakodar 400kV D/c

The proposed 700 MW is the third unit proposed at Nabha. With this generation unit the total generation capacity at Nabha (Rajpura) would be 2100 MW.

It was deliberated and agreed that as the proposed generation is an expansion unit, hence the lines, already being implemented from the generation project would provide connectivity for the generation. Additional lines required, if any, for evacuation of power from the generation would be looked into with the Long term Access application. M/s Nabha Power Ltd. was suggested to submit the LTA application. M/s Nabha Power Ltd informed that they will submit the open Access application by March'2011.

### **18.0 Singrauli-III TPS (500 MW).**

POWERGRID informed that NTPC is developing Singrauli STPP Stage-III (500 MW) in UP with Northern Region beneficiaries. The project is likely to be commissioned in

2013-14. It was informed that the present available system would not be adequate to evacuate power from this project. He further informed that studies were carried out by POWERGRID & CEA and after analysing the same, following transmission scheme was proposed for evacuation of power from Singrauli-III TPS:

- Singrauli-Allahabad 400kV S/c
- Allahabad-Kanpur 400kV D/c

The above scheme was discussed and agreed in 29<sup>th</sup> Standing Committee Meeting also and details were discussed and agreed. POWERGRID stated that NTPC had applied for connectivity, however it was advised that NTPC might apply for LTA, after which intimation shall be issued and works would be taken up for implementation.

### **19.0 RAPP-7&8 (2x700 MW) of Nuclear Power Corporation.**

POWERGRID stated that M/s NPCIL is developing a 1400 MW (2x700 MW) Nuclear power plant in Rawatbhata, Chittorgarh in Rajasthan scheduled for commissioning by Jun-2016 and Dec-2016. The studies were carried out and following Transmission system was proposed for RAPP-7&8:

- RAPP–Jaipur (South) 400kV D/c line of which one ckt. to be LILoed at Kota
- RAPP – Shujalpur (WR) 400 kV D/C

The above scheme was also discussed and agreed during the 29<sup>th</sup> Standing Committee Meeting of Northern Region Transmission Planning. During the meeting POWERGRID also stated that NPCIL would have to provide 125 MVAR Bus Reactor at their generation switchyard. NPCIL informed about space constraint at switchyard. Chief Engineer (SP&PA), CEA decided that the above bus reactor is necessary and NPCIL should accommodate the same by carrying out requisite re-orientation/modification in switchyard. He further stated that if required a joint survey by a team consisting of CEA, POWERGRID & RAPP engineers could be arranged for identifying space for installing proposed bus reactor in RAPP 7-8 switchyard.

POWERGRID requested NPCIL to submit the Long Term Access Application and stated that the above scheme would be taken up after the grant of LTA.

### **20.0 Connectivity and Long term Access to M/s MB Power (Madhya Pradesh) Ltd. (Moser Baer).**

POWERGRID informed that M/s MB Power(Madhya Pradesh) Ltd. had earlier applied for grant of “Long term Open Access” as per CERC regulation 2004 for transfer of 1128MW power from their proposed generation project [2x600 MW] in Distt. Anuppur, MP. The above application was also discussed in the 28<sup>th</sup> Standing Committee Meeting of NR constituents regarding Long-term Open Access applications held on 23/02/2010 at New Delhi. Subsequently, M/s Moser Baer had applied for connectivity and Long-term Access for the same project as per CERC Regulations, 2009 with applications details as under,

Generation Project	: District-Anuppur, State- MP
Generation Step up Voltage	: 400kV
Connectivity sought	: 1122 MW
Date from which Connectivity sought	: Aug'13
Commissioning schedule	: Unit-1 : Aug'13. Unit-2 : Dec'13

Capacity for which LTA is required :392 MW \*\*  
Drawl of Power (Target Beneficiary) : 200MW(WR) & 192MW( NR)  
Date from which LTA is required : Aug'13  
*\*\* Balance power reserved for GoMP (393 MW), Short term sale (337 MW)*

### **Connectivity**

The issue of connectivity was discussed in the 12<sup>th</sup> Meeting of Western Region Constituents regarding Connectivity/Long term Access applications held at NRPC, New Delhi on 08<sup>th</sup> July, 2010 and it was agreed that connectivity for the above project may be provided with direct interconnection at 400kV Jabalpur Pooling Station through MB TPS – Jabalpur Pooling Station 400kV D/c (Triple) line. Till the availability of proposed transmission system and to take care of any mismatch between commissioning of generation project and line termination at Jabalpur Pooling Station, connectivity of Moser Baer(MB) TPS with WR grid may be provided by terminating the 400kV D/c(triple) line from MB TPS to Jabalpur(existing) S/s of POWERGRID as an interim arrangement. It was agreed that, POWERGRID shall develop the transmission system for Connectivity; however, the commissioning schedule of the system for connectivity would be as per CERC time lines (tariff regulations 2009) plus 9 months.

### **Long Term Access**

The revised allocation to Northern region is 192 MW. A comprehensive transmission scheme for transfer of power to NR from IPP's has been evolved in an integrated manner looking into power transfer network requirement in Northern Region from IPP's in Western region & Orissa. The allocation to NR from above project would be transferred over the corridor.

### **Common Transmission Corridor**

Common Transmission system to shared by Maruti Clean Coal & Power Ltd.(300MW), Dheeru Powergen(450MW), Jaiprakash Power Ventures Ltd(1320MW), Aryan M.P Power(1200MW), Bina Power(500MW), CSPTCL (432 MW), M B Power[MP] (1200 MW) along with IPPs in Orissa (6080 MW) in proportion to allocation to NR.

- Bina – Gwalior 765 kV S/c (3rd)
- Gwalior – Jaipur 765kV S/c (2nd)
- Jaipur – Bhiwani 765kV S/c

M/s Moser Baer shall share the transmission charges of the above strengthening scheme. Transmission Charges for above links shall also be shared by other IPPs, if applicable.

Common Transmission system to shared by M B Power (MP) [1200MW] along with IPPs in Orissa (6080 MW) in proportion to allocation to WR

- a) Jabalpur Pooling Station – Bhopal – Indore 765kV S/c
- b) 765/400kV 2x1500MVA Jabalpur Pooling Station

Common Transmission system to shared by Maruti Clean Coal & Power Ltd.(300MW), Dheeru Powergen(450MW), Jaiprakash Power Ventures Ltd, (1320MW), Aryan M.P. (1200MW), Bina Power(500MW), CSPTCL (432 MW), M B Power(MP) (1200MMW) in proportion to allocation to WR

- a) Indore - Vadodara 765 kV S/c
- b) Vadodara – Pirana 400kV D/c(Quad)
- c) Establishment of 765/400kV 2x1500MVA Pooling station at Vadodara

In addition as was discussed in WR constituent meeting M/s Moser Baer shall share the transmission charges of

- Jabalpur Pooling Station – Bina 765kV S/c(3<sup>rd</sup>) along with associated bays at either end (Implementation through private sector)

It was agreed that Long term Access be granted to M/s Moser Baer subject to:

- M/s Moser Baer shall have to firm up PPA at least for 50% of LTA quantum, 3 years prior to the intended date of availing LTA as per CERC regulations, 2009 and intimate to POWERGRID.
- Till the availability of above proposed transmission system strengthening(s), power transfer may be effected depending on the transmission capacity available and in case of any transmission constraint for power transfer from the MB TPS during operation, M/s MB Power(MP) Ltd. may take necessary action to back down the generation as per the instruction of respective Load Despatch Centre.
- M/s MB Power (MP) Ltd. shall sign BPTA with POWERGRID/transmission licensee for sharing of WR regional transmission charges corresponding to 392MW, NR transmission charges corresponding to 192MW as per CERC norms as well as transmission charges towards common transmission corridors in WR and NR to WR.
- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC (Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.

## **21.0 Connectivity and Long term Access to Pipavav Energy Pvt. Ltd.**

POWERGRID informed that M/s Pipavav Energy Ltd. had earlier applied for grant of “Long term Open Access” as per CERC regulation 2004 for transfer of 1110MW power from their proposed project [2x600 MW] in Distt Amreli, Gujarat. The above application was also discussed in the 28<sup>th</sup> Standing Committee Meeting of NR constituents regarding Long-term Open Access applications held on 23/02/2010 at New Delhi. Subsequently, M/s Pipavav Energy Ltd. applied for connectivity and Long-term Access for the same project as per CERC Regulations, 2009 with applications details as under:

Generation Project	: 1200MW (2x600MW) District-Amreli, State- Gujarat
Connectivity sought	: 1110 MW
Date from which Connectivity sought	: Jan’13
Commissioning schedule	: Unit-1: Jun’13, Unit-2: Oct’13
Capacity for which LTA is required	: 1110 MW
Drawl of Power (Target Beneficiary)	: 510MW WR), 270MW (NR) & 330MW(ER)
Date from which LTA is required	: Aug’13

### **Connectivity**

Earlier connectivity for the above project was considered at nearby 400kV Amreli (GETCO) substation. The issue of connectivity was discussed in the of 12<sup>th</sup> Meeting of Western Region constituents regarding Connectivity/Long term Access Applications held at NRPC, New Delhi on 08<sup>th</sup> July, 2010 and it was agreed that connectivity for the above project may be provided w.e.f. Jan’13 at the nearest ISTS substation which is 400kV

Pirana through 400kV Pipavav TPS – Pirana D/c(Triple) line. However, in case there is any mismatch between implementation of above connectivity with the generation project, it was agreed that interim arrangement through LILO of 400kV Amreli – Jetpur S/c line at Pipavav TPS is to be provided. However, in that case, power transfer may be effected depending upon the system condition.

### **Long Term Access**

The revised allocation to Northern region is 270 MW. As it was discussed in 28<sup>th</sup> Standing Committee Meeting of NR constituents, for power transfer from Pipavav to Northern region, the applicant shall share the system identified for WR-NR corridor with IPP's in SR, consisting of following elements:

### **Transmission system strengthening in WR**

- Pirana – Dehgam 400kV D/c (2<sup>nd</sup>)
- Installation of 1x315 MVA,400/220kV ICT (3<sup>rd</sup>) at Pirana

Above transmission arrangement shall facilitate power transfer within WR while power transfer to beneficiaries in ER shall be effected on displacement basis. M/s Pipavav Energy Ltd. shall bear the transmission charges of the above strengthening scheme. Transmission Charges for above link shall also be shared by other IPPs, if applicable

### **WR-NR corridor identified along with other IPP generation projects in SR**

- Jabalpur Pooling Station – Orai 765kV S/c
- Orai – Bulandshahar 765kV S/c
- Bulandshahar – Sonipat 765kV S/c
- Establishment of 765/400kV, 2x1000MVA S/s at Orai by LILO of one ckt. of Satna – Gwalior 765kV line
- Establishment of 765/400kV 2x1500MVA S/s at Bulandshahar by LILO of Agra – Meerut 765kV line
- Establishment of 765/400kV 2x1500MVA S/s at Sonapat by LILO of Bhiwani – Meerut 765kV line
- Orai-Orai(UPPCL) 400kV D/c (Quad))
- Sonipat – Kurushetra 400kV D/c (Quad))
- Sonipat(new) – Sonipat (Under constr.) 400kV D/c (Quad))
- Bulandshahar – Hapur (UPPCL) 400kV D/c (Quad)

It was agreed that Long term Access may be granted to M/s Pipavav Energy Ltd. from Aug- 13 subject to:

- M/s Pipavav Energy Ltd. shall have to firm up PPA at least for 50% of LTA quantum 3 years prior to the intended date of availing LTA as per CERC regulations, 2009 and intimate to POWERGRID.
- Till the availability of above proposed transmission system strengthening(s), power transfer may be effected depending on the transmission capacity available and in case of any transmission constraint for power transfer from the Pipavav TPS during operation, M/s Pipavav Energy Ltd. may take necessary action to back down the generation, as per the instruction of respective Load Despatch Centre.
- M/s Pipavav Energy Ltd. shall sign BPTA with POWERGRID for sharing of WR regional transmission charges corresponding to 1200MW, NR & ER transmission charges corresponding to 290MW & 360 MW respectively and ER-WR inter-regional transmission charges as per CERC norms as well as shall share the transmission charges towards transmission system strengthening scheme for WR-NR corridor along with other already identified IPPs in SR listed above.

- The applicant shall abide by all provisions of the Electricity Act, 2003, CERC(Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-State transmission and related matters) Regulations, 2009, Approved Detailed procedure of CTU, CEA (Technical Standards for connectivity to the Grid) and Indian Electricity Grid Code as amended from time to time.

## 22.0 Long Term Access to Bina TPS Energy Pvt. Ltd.

POWERGRID informed that the application was discussed in the 28<sup>th</sup> Standing Committee Meeting of NR constituents regarding Long-term Open Access applications, wherein the allocation to NR was indicated as NR (132.5MW) and WR (132.5 MW). The revised allocation is 132.68MW (WR) & 132.67MW (NR). The members agreed to grant LTOA with the revised allocation.

## 23.0 Connectivity/LTA to generation developers in Vemagiri area, Andhra Pradesh.

POWERGRID informed that it had received following applications for Connectivity/LTA in Vemagiri area, Andhra Pradesh:

### Connectivity Applications

S.No.	Applicant	Connectivity applied for (MW)	Connectivity required from
1	Spectrum Power Generation Ltd.	1400	December, 2012
2	Reliance Infrastructure Ltd.	2400	September, 2012 /September, 2013
3	GVK Gautami Power Ltd.	800	September, 2012
4	GVK Industries Ltd.	800	September, 2012
	<b>Total</b>	<b>5400</b>	

### LTA Applications

S.No.	Applicant	Installed Capacity (MW)	LTA applied for (MW)	Time Frame	Target Beneficiary Regions		
					SR	WR	NR
1	Spectrum Power Generation Limited	1400	1350	March, 2013	1020	330	0
2	Reliance Infrastructure	2400	2200	Jan, 2012	1500	700	0
3	GVK Gautami Power Ltd.	800	800	Sept 2012	433	100	267
4	GVK Industries Ltd	800	800	Sept 2012	520	100	180
	<b>Total</b>	<b>5400</b>	<b>5150</b>		<b>3473</b>	<b>1230</b>	<b>447</b>

It was decided to grant LTA to above applicants alongwith the following system for Connectivity and LTA:

### **Transmission system for Connectivity (in the scope generation developer):**

- (i) Spectrum Power Generation Ltd. (1400 MW)
  - 400 kV quad D/c line to Vemagiri-II pooling station
  - 125 MVAR Bus Reactor at generation switchyard



(ii) Reliance Infrastructure Ltd. (2400 MW)

- 2x400 kV quad D/c line to Vemagiri-II pooling station (the two nos. of dedicated lines may be phased matching with the commissioning of the two phases).
- 2x125 MVAR Bus Reactor at generation switchyard (the two nos. of 125 MVAR bus reactors may be phased matching with the commissioning of the two phases).

(iii) GVK Gautami Power Ltd (800 MW)

- Bus extn. of the existing switchyard
- 400 kV D/c line to Vemagiri-II pooling station
- 80 MVAR Bus Reactor at generation switchyard

(iv) GVK Industries Ltd (800 MW)

- Bus extn. of the existing switchyard or LILO of one of the existing 400 kV D/c line at new switchyard
- 400 kV D/c line to Vemagiri-II pooling station
- 80 MVAR Bus Reactor at generation switchyard

Note: (1) *The bays, works and bus reactor(s) at the generation switchyard shall be under the scope of generation developers.*  
(2) *The bays and works at the pooling station shall be under the scope of entity developing transmission system for connectivity.*

**Common Transmission System for projects located in Vemagiri area:**

- (i) Establishment of 765/400kV GIS Pooling station at Vemagiri with 4x1500 MVA transformer with sectionalisation arrangement to control short circuit MVA
- (ii) LILO of Gazuwaka – Vijayawada 400kV S/c line at Vemagiri Pooling Station for initial integration with SR grid and which later shall be bypassed
- (iii) Establishment of 765/400kV GIS Pooling station at Khammam & Hyderabad with 2x1500 MVA transformers each
- (iv) Hyderabad 765/400 kV S/s – Hyderabad (existing) 400 kV D/c (quad) line
- (v) Khammam 765/400 kV S/s – Khammam (existing) 400 kV D/c (quad) line
- (vi) Vemagiri Pooling Station – Khammam 2x765kV D/c line
- (vii) Khammam – Hyderabad 2x765 kV D/c line
- (viii) Hyderabad – Wardha 765 kV D/c line
- (ix) Wardha – Jabalpur Pooling station 765 kV D/c
- (x) Beyond Jabalpur Pooling Station the transmission system will be provided integrating with the proposed High Capacity Power Transmission Corridor – IX i.e. Jabalpur Pooling Station – Orai – Bulandshahar 765 kV S/c depending upon the inter-regional power transfer.

The above was discussed and agreed in the 31<sup>st</sup> Standing Committee meeting of SR held on 16<sup>th</sup> November, 2010.

As per CERC regulation, for 500 MW and more dedicated transmission line is part of coordinated transmission of CTU/CEA. Further, minimum time required for dedicated line as per CERC is about 3 years + 9 months from date of signing of BPTA/BG. POWERGRID informed that in instant case, the time available for construction of dedicated line is less than above time line. Therefore, the dedicated line is to be constructed by respective generation developer. Further, the implementation schedule of dedicated line is to be matched with the Vemagiri pooling station to be constructed by POWERGRID. It was agreed that Connectivity & LTA for projects in Vemagiri area may be granted.

**24.0 LTOA to generation developers in Nagapattinam / Cuddalore area (as per CERC regulations 2004).**

POWERGRID had received following applications for LTA in Nagapattinam / Cuddalore area of Tamil Nadu:

S.No.	Applicant	Installed Capacity (MW)	LTA applied for (MW)	Time Frame	Target Beneficiary Regions		
					SR	WR	NR
1	NSL Power Pvt. Ltd.	1320	800	2014	267	267	266
2	PEL Power Ltd.	1050	987	June, 2013	700	0	287
3	IL&FS Tamil Nadu Power Co. Ltd.	1200	1150	June, 2013	575	575	0
	<b>Total</b>	<b>3570</b>	<b>2937</b>		1542	842	553

It was decided to grant LTOA for above applicants' alongwith the following system for Connectivity and LTOA:

**Transmission system for Connectivity (in the scope of respective generation developers):**

- (i) NSL Power Pvt. Ltd. (800 MW)
  - 400 kV quad D/c line to Nagapattinam pooling station
  - 125 MVAR Bus Reactor at generation switchyard
- (ii) PEL Power Ltd. (987 MW)
  - 400 kV quad D/c line to Nagapattinam pooling station
  - 80 MVAR Bus Reactor at generation switchyard
- (iii) IL&FS Tamil Nadu Power Co. Ltd. (1150 MW)
  - 400 kV quad D/c line to Nagapattinam pooling station
  - 125 MVAR Bus Reactor at generation switchyard

Note: (1) *The bays, works and bus reactor(s) at the generation switchyard and Nagapattinam Pooling station shall be under the scope of generation developers.*

The implementation schedule of dedicated line is to be matched with the Nagapattinam pooling station to be constructed by POWERGRID.

**Common Transmission System for projects located in Nagapattinam/Cuddalore area:**

- New 765/400kV Pooling station at Nagapattinam (GIS) with 4x1500 MVA transformers with sectionalisation arrangement to control short circuit MVA
- Nagapattinam Pooling Station – Salem 765kV D/c line
- Salem – Madhugiri 765 kV S/c line – 2 (line-1 planned with Tuticorin LTOA projects and has been granted regulatory approval by CERC)
- Madhugiri – Narendra 765kV D/c line
- Charging of Narendra – Kolhapur 765kV D/c line at its rated voltage
- Kolhapur – Padghe 765 kV D/c one circuit via Pune
- New 765/400kV Pooling station each at Narendra (GIS) and Kolhapur(GIS) with 2x1500 MVA transformers

- Provision of 2x1500 MVA, 765/400 kV transformers each at Madhugiri and Salem
- LILO of both circuits of Kolhapur – Mapusa 400 kV D/c line at Kolhapur 765/400 kV Ss
- Charging of Salem – Madhugiri 765 kV S/c line – 1 (planned with Tuticorin LTOA projects) at its rated voltage
- LILO of Neyveli – Trichy 400kV S/c line at Nagapattinam Pooling Station for interim arrangement which later shall be bypassed
- 400 kV interconnection between Narendra (existing) and Narendra 765/400 kV GIS Ss

Looking into the synchronous operation of SR and NEW grid by 2013-14 through Raichur – Sholapur 765 kV 2xS/c lines, it is desirable that Narendra – Kolhapur 765 kV D/c link shall also be available by that timeframe for smooth synchronization. Accordingly, the Narendra – Kolhapur section alongwith necessary interconnections were agreed to be delinked with generation development in the Cuddalore/Nagapattinam area and taken up separately matching with the timeframe of Raichur-Sholapur 765 kV lines. The 765 kV operation of this link would be undertaken matching with the progress of generation projects in Cuddalore/Nagapattinam area.

#### **Scheme for SR and NEW grid interconnection**

- (i) New 765/400kV substation each at Narendra (GIS) and Kolhapur(GIS) initially charged at 400 kV.
- (ii) Narendra (GIS) – Kolhapur (new) 765kV D/c line (initially charged at 400 kV).
- (iii) LILO of both circuits of Kolhapur – Mapusa 400 kV D/c line at Kolhapur (new).
- (iv) Narendra (GIS) - Narendra (existing) 400 kV D/c (quad) line.

The above was discussed and agreed in the 31<sup>st</sup> Standing Committee meeting held on 16<sup>th</sup> November, 2010.

High Capacity Power Transmission Corridor – IX i.e. Jabalpur Pooling Station – Orai–Bulandshahar 765 kV S/c shall be utilized for power transfer to Northern region.

It was agreed that LTOA for above projects may be granted.

#### **25.0 Long Term Access granted under CERC regulation and BPTA yet to be signed**

POWERGRID informed that some of the applicants who had applied for Long term Open Access under CERC Regulation, 2004 and are yet to sign the BPTA agreement. The list of such Open Access applicant's alongwith with details is given in the agenda.

While discussing these projects, NTPC had informed that works on Lohari Nagpala has been stopped. Regarding Tapovan Vishnugad HEP it was stated that they had already signed the long term PPA and now their project is being developed as Regional Project. NTPC further requested that their previous application may be changed from Merchant plant to regional plant. It was also deliberated that transmission system within Uttarakhand shall be implemented by PTCUL and power would be injected at Kashipur. POWERGRID stated that considering the total power injection at Kashipur, additional strengthening might be required from Kashipur. It was agreed that NTPC would inform the details about the beneficiaries.

commissioning schedule and status of the generation project and would also request about the change in the beneficiary status from Merchant project to regional project. After details from NTPC system strengthening would be finalized.

Further discussions were held for the balance application also and based on the discussions it was decided to close the following applications:

1. NTPC Ltd. for transfer of 600 MW power from Lohari Nagpala
2. PTC India Ltd for transfer of 22.5 MW power from Bhilangana HEP
3. Reliance Industries Ltd for transfer of power from Jhajjar generation project
4. Lanco Hydro Energy Private Limited for transfer of Rambara HEP.
5. Nuziveedu Seeds Limited for transfer of power from Tidong-I
6. JSW Energy Ltd. for transfer of power from Kutehar HEP
7. Gujarat Fluoro Chemicals Ltd for transfer of Barmer Wind Plant
8. NDPL for transfer of Jhajjar-II power

M/s Sunflag power is to sign within a month failing which their application would be deemed to be closed.

It was decided that above applications be closed and applied afresh if required, in accordance with new regulations.

**Meeting ended with a vote of thanks.**

**List of participants for Connectivity/LTA meeting, held on 29.12.2010 at POWERGRID, Gurgaon.**

	Designation
<b>CEA</b>	
1. Sh. Ravinder	Chief Engineer
2. Sh. B.K. Sharma	Director (SP&PA)
3. Sh. Rajeev Kumar	Dy. Director (SP&PA)
<b>BBMB</b>	
1. Sh. Kush Gupta	CE/SO
2. Sh. R.S. Lamba	Director/PQ
<b>PGCIL</b>	
1. Sh. Y. K. Sehgal	ED (Engg.)
2. Sh. Mukesh Khanna	DGM (Engg.)
3. Sh. U. K. Tyagi	GM(Comm.)
4. Sh. S.S. Raju	DGM(Comm.)
<b>NTPC</b>	
1. Sh. Abhijit Sen	Addl. GM (Project Engg.)
2. Sh. A. Basu Roy	DGM
3. Sh. S. S. Mishra	DGM
<b>J&amp;K</b>	
1. Sh. F. R. Kirmani	CE( P&D )
<b>DTL</b>	
1. Sh. V. K. Gupta	DGM(Planning)
<b>RVPNL</b>	
1. Sh. Y K Raizada	Director(Tech.)
2. Sh. L.N. Nimawat	SE
<b>HVPNL</b>	
1. Sh. C D Sangwan	XEN(SS)
2. Sh. R. K. Goel	SE (Planning)
<b>HPPCL</b>	
1. Sh. Jitendra Dogra	Asstt. Engr.
2. Sh. A. C. Sharma	Dir(E)
<b>UPPCL</b>	
1. Sh. V. P. Tewari	SE(Planning)
2. Sh.M. Z. Khan	EE(Tr. Planning)
3. Sh. Y. Sharma	CE(TS)Agra
<b>HPPTCL</b>	
1. Sh. V.K. Kaprate	Director(P&C)
2. Sh. Sandeep K. Sharma	Sr. Mgr.(Planning)

NPCIL

- |                        |             |
|------------------------|-------------|
| 1. Sh. Sandeep Sarwate | Dy. CE      |
| 2. Sh. K. Murdia       | DCE(ED)     |
| 3 Sh. K. P. Singh      | ACE(Trans.) |

PTCUL

- |                    |            |
|--------------------|------------|
| 1.Sh. S. Bhatnagar | DGM(Engg.) |
|--------------------|------------|

**Connectivity / LTA applicants**

Sunflag Power Ltd

- |                           |                          |
|---------------------------|--------------------------|
| 1. Sh. J. Somu            | GM(P)                    |
| 2. Sh. Pavan Kumar        | Sr. Mgr.                 |
| 3. Sh. Rajiv Pandey       | Sr. Mgr.                 |
| 4. Sh. Praveen Kumar Giri | Chief Principal Engineer |

NSL Tidong Power Generation Pvt. Ltd.

- |                        |                |
|------------------------|----------------|
| 1. Sh Sanjay Tripathi  | AGM (P&C)      |
| 2. Sh. Saswat Satpatny | Deputy Manager |

Malana Power Company Ltd.

- |                           |                          |
|---------------------------|--------------------------|
| 1. Sh. Praveen Kumar Giri | Chief Principal Engineer |
| 2. Sh C.P. Bhatnagar      | GM-Commercial            |
| 3. Sh. S. B. Chaubey      | Advisor                  |

Sravanthi Energy Pvt. Ltd.

- |                          |            |
|--------------------------|------------|
| 1. Sh. Neeraj Kumar Jain | DGM        |
| 2. Sh. G. A. Naidu       | UP-Project |
| 3. Sh. Vijay Gupta       | CEO        |

Gama Infraprop

- |                     |              |
|---------------------|--------------|
| 1. Sh.Satwant Singh | VP(Projects) |
|---------------------|--------------|

Beta Infratech Pvt. Ltd.

- |                 |            |
|-----------------|------------|
| 1. B. B. Sharma | GM(Trans.) |
|-----------------|------------|

Everest Power Pvt. Ltd.

- |                       |                |
|-----------------------|----------------|
| 1. Sh. S. K. Bhowmick | Vice President |
| 2. Sh. Rajendra Singh | Advisor        |

Shri Bajrang Power & Ispat (P) Ltd.

- |                    |            |
|--------------------|------------|
| 1. Sh. B. S. Mehta | Consultant |
|--------------------|------------|

NPL/L&T

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|----------------------------|------------------|
| 1. Sh. Suresh Kumar Narang | Project Director |
| 2. Sh. Upinder Singh       | Chief Executive  |
| 3. Sh. Kuldeep Goel        | G.M.             |
| 4. Sh. S. Agarwal          | DGM              |

GMR Energy

- |                            |         |
|----------------------------|---------|
| 1. Sh. A. L. Nageshwar Rao | Advisor |
| 2. Sh. Alok Choubey        | AGM     |
| 3. Sh. P. Senthur Pandian  | AGM     |

4. Sh. Ajay Nathani

UP(Tr.)