



भारत सरकार  
Government of India

विद्युत मंत्रालय

Ministry of Power

केंद्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग

Power System Planning & Appraisal Division-2

सखा भवन, रा. कृ. पुरम, नयी दिल्ली -110066

Sewa Bhawan, R. K. Puram, New Delhi-110066



[ISO: 9001:2008]

No. 66/5/2016-PSPA-2/

Dated: 07.06.2016

-As per List Enclosed-

**Sub: 18<sup>th</sup> Meeting of Standing Committee on Power System Planning in Eastern Region to be held on 13<sup>th</sup> June, 2016 at Kolkata: Additional Agenda (II)**

Sir/Madam,

The additional agenda (II) regarding “**Perspective Intra-State Transmission Plan –State wise submission of Plan**” is enclosed. The Agenda item would be discussed in the forthcoming 18<sup>th</sup> Meeting of Standing Committee on Power System to be held on 13<sup>th</sup> June, 2016 at Kolkata.

The additional agenda(II) is also uploaded on the website of CEA with following link: <http://cea.nic.in/compsplanning.html>

Yours faithfully,

(Rishika Sharan)  
Director (PSPA-2)

Encl: As above

Copy for kind information to:

- 1) PPS to Member PS, CEA

**List of addressee:**

1. Managing Director, Bihar State Power Transmission Company, Vidyut Bhavan, Baily Road, Patna-800021. Tel. 0612-2504442 Fax No. 0612-2504557	2. Director (System), Damodar Valley Corporation DVC Towers, VIP Road, Kolkata-700054. Tel. 033-23557934 Fax No. 23554841
3. Member Secretary, Eastern Regional Power Committee, 14, Golf Club Road, Tollygange, <b>Kolkata-700033.</b> <b>Tel. No. 033-24235199</b> <b>Fax No.033-24171358</b>	4. Director (Commercial), Grid Corporation of Orissa Ltd, Jan path, <b>Bhubaneshwar-751022.</b> <b>Tel. No. 0674-2541127</b> <b>Fax No. 0674-2541904</b>

<p>5. Director (Transmission), Orissa Power Transmission Corporation Ltd, Jan path, <b>Bhubaneshwar-751022.</b> <b>Tel. No. 0674-2540098</b> <b>Fax No.0674-2541904</b></p>	<p>6. Director (Operation), West Bengal State Electricity Transmission Company Ltd, Vidyut Bhavan, 5<sup>th</sup> Floor, Block-D, Bidhannagar, Sector-II, <b>Kolkata- 700091.</b> <b>Tel. No. 033-23370206</b> <b>Fax No.033-23342243</b></p>
<p>7. Principal Chief Engineer cum Secretary, Power Department Government of Sikkim, Sikkim. Tel. No. 03592-2022440 Fax No.03592-202927</p>	<p>8. Managing Director, Jharkhand Urja Sancharan Nigam Limited Engineering Building, H.E.C., Dhurwa, Ranchi-834004. <b>Fax-0651-2400799</b></p>
<p>9. CEO, POSOCO B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi-110016 Tel. No. 26852843 Fax No. 2626524525, 26536901</p>	<p>10. Director (Projects), Power Grid Corporation of India “Saudamini” Plot No. 2, Sector-29, <b>Gurgaon-122001</b> <b>Tel. No. 0124-2571816</b> <b>Fax No.0124-2571932</b></p>
<p>11. Director (Technical), NTPC Limited, Engineering Office Complex, A-8, Sector 24, <b>Noida.</b> <b>Tel. No. 24362050</b> <b>Fax No. 24362421</b></p>	<p>12. Executive Director (T&amp;RE), NHPC Ltd, NHPC Office complex, Sector 33, <b>Faridabad-121003.</b> <b>Tel. No. 0129-2255805</b> <b>Fax No. 0129-2277523</b></p>

Copy to:

1. General Manager,  
Eastern Regional Load Dispatch Center,  
14, Golf Club Road, Tollygange,  
**Kolkata-700033.**  
**Tel No. 033-24235867**  
**Fax No. 033-24235809**

### **A.1 Perspective Intra state Transmission Plan for the year 2021-22**

This is in reference to the meetings held in Ministry of Power on 7.04.2016 wherein it was decided that all States/UT would submit year wise perspective transmission and distribution plan upto 2021-22 at 400 kV,220 kV, 132 kV, 66 kV and 33 kV level (as applicable) along with time lines and source of fund to CEA (PSPA-2 Division). This communication plan will also form part of this integrated perspective transmission plan. **Minutes of the meeting is enclosed at Annex-I.**

Subsequently an another meeting was held under the Chairmanship of JS(Transmission) on 27.05.2016 (**Minutes of the meeting enclosed at Annex-II**) wherein it was decided that CEA would convene a region wise meeting of various states to finalise the perspective intra-state transmission plan upto the year 2021-22. In these meetings the intra-state NIT and award plan for the current year 2016-17 and next year 2017-18 should also be obtained from the states and furnished to MoP for incorporation in the NIT and award Plan.

- 1. All states/UTs of Eastern Region are requested to expedite their state's transmission Plan and send the same to CEA as per the formats given in Annex-I.**
- 2. It is further requested that a copy of intra-state NIT and award plan for the current year 2016-17 and next year 2017-18 may be sent to CEA urgently (within a week.)**
- 3. The above information may be sent to Chief Engineer (PSPA-2), CEA at following email address: ceatransplan@gmail.com**

No.14/6/2016-Trans  
Government of India  
Ministry of Power  
Shram Shakti Bhawan, Rafi Marg, New Delhi-110001  
\*\*\*\*

Dated 21<sup>st</sup> April, 2016

Office Memorandum

Subject: Minutes of the meeting chaired by Smt. Jyoti Arora, Joint Secretary, Ministry of Power on 7.4.2016 regarding 20 Year Perspective Transmission Plan for the States/UTs for Intra-State Transmission system up to 33 kV.

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The undersigned is directed to forward herewith minutes of meeting held on 7.4.2016 under the chairmanship of Joint Secretary (Trans), Ministry of Power on the above subject for information and further necessary action.



(S.Venkateshwarlu)  
Under Secretary (Trans)  
E-mail: transdesk-mop@nic.in  
Tele-fax: 23325242

To

1. All the States/UTs (As per the list attached).
2. Member (PS), Central Electricity Authority, New Delhi.
3. CMD, PGCIL, Gurgaon.
4. CEO, RECTPCL, New Delhi.

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Copy to: PPSs to JS(Trans)/Director(Trans), Ministry of Power.

List of States/UTs:

1. Principal Secretary (Power), Government of Andaman & Nicobar Islands, Port Blair.
2. Secretary (Power), Govt. of Punjab, Sector-9, Chandigarh-160009 (UT).
3. Additional Chief Secretary (Power), Government of Himachal Pradesh, Shimla.
4. Secretary to Government, Energy Department, Govt. of Andhra Pradesh, Hyderabad.
5. Secretary(Power), Govt. of Arunachal Pradesh, Itanagar.
6. Secretary (Energy), Government of Bihar, Energy Department, Patna.
7. Principal Secretary (Energy), Government of Maharashtra, Mantralaya, Mumbai.
8. Secretary(Power), Government of Puducherry, Electricity Department, Puducherry
9. Secretary to Government, Energy Department, Government of Telangana, Hyderabad.
10. Principal Secretary (Power), Government of Tripura, P.O. Secretariat, Agartala.
11. Principal Secretary (Energy), Department of Energy, Government of Odisha, Bhubaneswar.
12. Secretary(Power), Electricity Operation Circle, Union Territory of Chandigarh, U.T. Secretariat, Sector-9 D, Chandigarh – 160009.
13. Secretary to Government, Power Department, Govt. of Kerala, Secretariat, Thiruvananthapuram
14. Principal Secretary (Energy), Govt. of Rajasthan, Government Secretariat, Jaipur.
15. Principal Secretary, Energy Department, Govt. of Chhattisgarh, D.K.S. Bhawan, Mantralaya, Raipur – 492001.
16. Principal Secretary (Energy), Government of Uttarakhand, Secretariat, Dehradun-248001
17. Additional Chief Secretary to Government of Haryana, Power Department, Haryana Civil Secretariat, Sector-17, Chandigarh-1600001.
18. Secretary (Power), Power Department, Government of Goa, Secretariat, Porvorim, Goa.
19. Principal Secretary, Energy Department, Government of Madhya Pradesh, Vallabh Bhavan, Mantralaya, Bhopal- 462 004.
20. Principal Secretary, Department of Power & Non Conventional Energy Sources, Government of West Bengal, New Secretariat Buildings, 1, KiranSankar Roy Road, Kolkata – 700001
21. Commissioner and Secretary (Power), Government of Manipur, New Secretariat, Imphal.
22. Principal Secretary to Government, Power Development Department, Government of Jammu & Kashmir, Civil Secretariat, Jammu (Jammu & Kashmir)
23. Principal Secretary (Power), Government of Meghalaya, Meghalaya Civil Secretariat, Main Building, R.No.340, Shillong-793001 (Meghalaya)
24. Secretary (Power), Government of National Capital Territory of Delhi, Department of Power, 8th Level, B-Wing, Delhi Secretariat, I.P. Estate, New Delhi – 110 113.

25. Principal Chief Engineer Cum Secretary, Energy & Power Department, Government of Sikkim, Kazi Road, Gangtok – 737 101.
26. Secretary (Power), Power & Electricity Department, Government of Mizoram, Aizawl-796001
27. Commissioner and Secretary (Power), Government of Nagaland, New Secretariat Complex, Kohima-797001.
28. Secretary (Power), Electricity Department, Union Territory of Dadra and Nagar Haveli, Daman & Due, Secretariat, Silvassa.
29. Secretary (Power), Electricity Department, Union Territory of Daman & Due, Secretariat, Moti Daman.
30. Secretary (Power), Administration of the Union Territory of Lakshadweep, Department of Electricity, Kavaratti – 682555
31. Principal Secretary (Energy Department), Government of Gujarat, Block No.5/5 New Sachivalaya, Gandhinagar-382010 (Gujarat)
32. Additional Chief Secretary, Government of Assam, Power (Elect) Department, Assam Secretariat, C-Block, 2nd Floor, Dispur, Guwahati-781006 (Assam)
33. Principal Secretary (Energy), Government of Jharkhand, Nepal House, Doranda, Ranchi-834002
34. Principal Secretary (Power), Government of Tamil Nadu, Government Secretariat, Chennai.
35. Principal Secretary (Energy), Government of Uttar Pradesh, Lal Bahadur Shastri Bhavan (Annexe), 5th Floor, Lucknow-226001 (Uttar Pradesh)
36. Secretary (Energy), Energy Department, Karnataka Government Secretariat, Bangalore.

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**Minutes of Meeting held on 7.4.2016 under the chairmanship of Joint Secretary (Trans), Ministry of Power regarding Perspective Transmission Plan up to 2021-22 for the States/UTs for intra-State transmission system up to 33kV.**

List of participants is at **Annex-1**.

2. Joint Secretary (Trans), Ministry of Power welcomed the participants to the meeting. She said that CEA has prepared a detailed perspective transmission plan for the year 2021-22 and perspective plan indicating broad transmission requirement for the year up to 2035-36. This document would be made available on the MoP/CEA's web site. She said that states have already identified their transmission and distribution system strengthening requirement for year 2018-19 under the power for all (PFA) documents. Now, every state has to extend / repeat the exercise for the time frame of 2021-22. In order to fully utilize the inter-state transmission assets, she highlighted the need of integration of inter-state transmission plan with intra-state transmission plan up to 33 kV level. For this, she requested each state to prepare their intra-state transmission plan up to 33 kV level. She then requested Chief Engineer (PSPA-2), CEA to briefly present the perspective transmission plan.

3. Chief Engineer (PSPA-2), CEA said that the perspective transmission plan has two parts, first part covers detailed transmission requirement for the year 2021-22 and is based on detailed system studies, while the second part for time frame of 2035-36 is indicative only and gives broad transmission requirement. He said that 19<sup>th</sup> Electric Power Survey (EPS) report of CEA is expected by June 2016. In the absence of the 19<sup>th</sup> EPS, region wise load demand was roughly estimated for year 2021-22 and the state wise demand was accordingly estimated in the proportions of 18<sup>th</sup> EPS. Similarly, in the absence of a firm generation addition programme for 13<sup>th</sup> plan period, an estimate was made considering ongoing and likely capacity addition from conventional generation project. Further, renewable generation (RE) addition of only 65 GW has been considered as no data for 175 GW RE addition is available with CEA. He added that in order to fully utilize the inter-state transmission assets (planned/ under implementation), state should expedite planning and implementation of their respective intra state systems and its interconnection with various ISTS schemes. If required by the states, additional 400 kV system can also be planned.

4. COO(CTU-PGCIL) informed about various 400kV inter-state transmission substations where downstream intra-state transmission system has not been implemented by the states or there is a delay in the implementation. States were requested to expedite the downstream system for existing substation and also to match the implementation of downstream system with the under construction substation(s) so as to derive intended benefit. Details of existing/ under construction substation(s) are enclosed at **Annex-2**.

5. Joint Secretary (Trans), Ministry of Power requested the state representatives to inform about the agency involved in the intra-state transmission planning, status of integrated planning documents up to 33kV level (including communications system, time frame and financial requirements) and adequacy of the state plans.

6 (i) UP submitted that Chief Engineer (Transmission Planning), UP is responsible for intra state transmission planning. He said that their transmission plan up to 2021-22 up till 132kV level is ready based on the demand projected by their distribution companies. The integrated plan up to 33kV level will be submitted within two months.

(ii) Representative from Delhi informed that they are working with their Discoms and integrated planning document will be submitted within two months up to 33kV level.

(iii) Maharashtra informed that they have a State Level Standing Committee for integrated planning of generation, transmission and distribution. Composition of the Maharashtra model of the Standing Committee presented before the meeting is at **Annex-3**. Maharashtra was also having a Steering Committee headed by concerned MD for monitoring the projects. Similarly, some of the other states indicated that they have an institutional mechanism for integrated planning and subsequent monitoring. It emerged that for optimal planning, the States which do not have such institutional integrated planning mechanism will set up the same at the earliest. Similarly, the States which presently do not have an institutional monitoring mechanism at the State level for monitoring of the progress of implementation of the integrated perspective plan will set up the same.

(iv) Thereafter, states of Jharkhand, Himachal Pradesh, Haryana, Uttrakhand, Punjab, Rajasthan, Bihar, Mizoram, Chhattisgarh, Mizoram, Jammu & Kashmir, Karnataka, Kerala, Odisha, Tripura, Assam etc. made brief presentation about planning process in their states. Some of the states raised the issue of funding from World Bank also to implement their plans, for which, it was informed that MoP is going to take up the matter with World Bank and Ministry of Finance (Department of Expenditure/Department of Economic Affairs).

7. After further discussions, following was decided:

(i) It was agreed that all States/UTs will submit year-wise perspective transmission and distribution plan up to 2021-22 at 400kV, 220kV, 132kV, 66kV and 33kV level (as applicable) along with timelines and source of fund. The communication plan will also form part of this integrated perspective transmission plan. The format of the expected plan document in which the information is to be submitted by the States to CEA (PSPA-2 Division) is attached at **Annex-4**.

(ii) The perspective plan will be submitted by the States/UTs to CEA within a period of two (2) months.

(iii) Status of availability of land, source of funding, financial and other project approvals also need to be indicated.



(iv) After submission of the integrated transmission and distribution plan the same will be vetted by CEA.

(v) While firming up the perspective plan, re-conductoring of existing transmission lines with HTLS conductor should also be considered to enhance the transmission capacity of the existing corridors. The perspective plan up to the year 2019 should be in line with that indicated by the States in the 24x7 PFA document of the State. CEA/CTU can be contacted for any support in preparation of the perspective Plan.

(vi) States facing fund constraints for transmission works can also consider some of the transmission lines and substations being built through TBCB (Tariff Based Competitive Bidding) route. State can also explore the option of Viability Gap Funding for financing transmission system.

(vii) States should set up institutional mechanism for integrated planning and monitoring of the plan.

(viii) It was felt that ROW and land for substations were the main issues with regard to implementation of transmission projects. It was opined that there was a need to bring out guidelines on practices which optimize land requirement for substations and reduce ROW requirements. The Local Municipal Corporations and Urban Town Planners need to be sensitized that at the time of town planning ROW for transmission lines and land for substation should also be reserved.

8. The meeting ended with a vote of thanks to the Chair.

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Date/time of the meeting : 7.4.2016 at 11.30am

Venue: Committee Room, NRPC office, Katwaria Sarai, New Delhi.

**List of Participants**

**Ministry of Power**

1. Smt. Jyoti Arora, Joint Secretary (Trans) - in the Chair
2. Shri Ghanshyam Prasad, Director (Trans)
3. Shri S.Venkateshwarlu, Under Secretary (Trans)
4. Shri P.K.Pahwa, Consultant (Transmission)  
Mobile: 9818243524/Email: [pkpahwa2000@yahoo.com](mailto:pkpahwa2000@yahoo.com)

**Ministry of Defence**

5. Shri A N Rai Major, Asst. Engineer, MES  
Mobile: 8447146921/Email: [geelectric@gmail.com](mailto:geelectric@gmail.com)

**Central Electricity Authority (CEA)**

6. Shri Ravindra Kumar Verma, Chief Engineer  
Mobile: 9868167199/Email: [rkvermacea@nic.in](mailto:rkvermacea@nic.in)
7. Shri Pardeep Jindal, Chief Engineer (PSPA-2)  
Mobile: 9818768460/Email: [jindal\\_pardeep@yahoo.co.in](mailto:jindal_pardeep@yahoo.co.in),  
[pjindal\\_plan@hotmail.com](mailto:pjindal_plan@hotmail.com),
8. Shri Ravinder Gupta, Director (PSPA)  
Mobile: 9968286184/Email: [ravindergupta\\_cea@rediffmail.com](mailto:ravindergupta_cea@rediffmail.com),  
[ravindergpt@yahoo.com](mailto:ravindergpt@yahoo.com),
9. Shri Awdhesh Kumar Yadav, Director (PSPA-I)
10. Ms. Kanchan Chauhan, AD-I, Mobile: 8375070150
11. Ms. Shivani Sharma, DD, Mobile: 9717686780/Email:  
[shivani0004@gmail.com](mailto:shivani0004@gmail.com),
12. Ms. Manjari Chaturvedi, DD, Mobile: 9810502209;  
Email: [manjari.cea@gmail.com](mailto:manjari.cea@gmail.com)
13. Shri Suyash A Verma, Assistant Director, Mobile: 7838308846
14. Shri Ajay Kumar, Assistant Director (PSPA-2), Mobile: 9818598498  
Email: [aksindhu@nic.in](mailto:aksindhu@nic.in)
15. Shri Nitin Deswal, Assistant Director

**Power Grid Corporation of India Limited (PGCIL)**

16. Ms. Seema Gupta, COO(CTU-Plg)  
Mobile : 9810281063/Email : [sgupta@powergridindia.com](mailto:sgupta@powergridindia.com)
17. Shri Ashok Pal, AGM (CTU-Plg)  
Mobile: 9910378105/Email: [ashok@powergridindia.com](mailto:ashok@powergridindia.com)

**New Delhi Municipal Corporation (NDMC)**

18. Shri S.R.Varshney, Ex. Engineer, Mobile: 9910421187
19. Shri S.K. Suman, SE (E) V

## **STATE SECTOR**

### **Govt. of NCT of Delhi/ Delhi Transco Ltd.**

20. Shri Ajay Kumar Bisht, Special Secretary (Power)  
Mobile: 09868166000/Email: [ajaybisht\\_2005@yahoo.co.in](mailto:ajaybisht_2005@yahoo.co.in)
21. Shri Sanjeev Singh, MD  
Mobile: 9999775544, Email: [md@dtl.gov.in](mailto:md@dtl.gov.in)
22. Shri Prem Prakash, Dir. (Operations)  
Mobile: 9999533630/Email: [premnimbekar@yahoo.com](mailto:premnimbekar@yahoo.com)
23. Shri. V Venugopal, GM(Planning)  
Email: [venugopal.v1960@yahoo.co.in](mailto:venugopal.v1960@yahoo.co.in)

### **Govt. of Madhya Pradesh/MPPTCL/MPPCL/MSPCL, Jabalpur**

24. Shri Anil Kumar Alung, AGM, State Plg Cell, MPPMCL  
Mobile: 09425805241
25. Shri M M Dhoke, SE O/o CE (P&D), MPPTCL,  
Mobile: 9425805237/Email: [ce.pnd@mptransco.inc.in](mailto:ce.pnd@mptransco.inc.in)

### **Govt. of Karnataka, Bengaluru**

26. Shri Jawaid Akhtar, MD  
Phone / Email: [md@kptcl.com](mailto:md@kptcl.com)
27. Shri A.J. Hosamani, CE(Plg.)  
Mobile: 09448363092/Email: [ceepnc@gmail.com](mailto:ceepnc@gmail.com)
28. Shri Deepak T.C., Liaison Officer, KPTCL  
Mobile: 9620736240/Email: [deepaktc23@gmail.com](mailto:deepaktc23@gmail.com)

### **Government of Uttar Pradesh/UPPCL/UPCL, Lucknow**

29. Shri Vishal Chauhan, MD  
Phone : /Email : [md@upptcl.org](mailto:md@upptcl.org)/[md@uprvujnl.org](mailto:md@uprvujnl.org)
30. Shri R.R.Singh, EE, UPCL  
Mobile: 07535044555/Email: [gmprojectupcl@gmail.com](mailto:gmprojectupcl@gmail.com)
31. Mohd. Ishaque, SE(T), Noida  
Phone: 8130599628/ Email: [seetenoida@upptcl.org](mailto:seetenoida@upptcl.org)
32. Shri Suman Guchh, CE  
Mobile: 09415005397/Email: [setppss@gmail.com](mailto:setppss@gmail.com)

### **Government of Uttrakhand/PTCUL, Dehradun**

33. Shri S.S. Yadav, MD  
Mobile: 09411112575/Email: [ssymohuk@gmail.com](mailto:ssymohuk@gmail.com)
34. Shri A.K. Agarwal, CE (O&M)  
Mobile: 09837893761/Email: [akagarwal\\_dgmpi@yahoo.com](mailto:akagarwal_dgmpi@yahoo.com)

### **Govt. of Maharashtra/MAHATRANSCO**

35. Shri Rajeev Mital, CMD  
Phone: 022-26591253/26595000/Fax: 022-26598595  
Mobile: 09769446924/ Email: [md@mahatransco.in](mailto:md@mahatransco.in)
36. Shri Kelkar S.G., CE,(STU)  
Mobile: 9167279940/Email: [cestu@mahatransco.in](mailto:cestu@mahatransco.in)

37. Shri Prafulla Pathak, RM, MSEB HCL,  
Mobile : 9810120094/Email : [msebdel@gmail.com](mailto:msebdel@gmail.com)

**Government of Kerala**

38. Smt. Vijaya Kumari P. Director (Trans)  
Mobile: 09446008444/Email: [mtksebksebnet.com](mailto:mtksebksebnet.com)  
39. Shri Biju S.S., AEE (PSE)  
Mobile: 09447885455/Email: [ssbiju@gmail.com](mailto:ssbiju@gmail.com)

**Govt. of Haryana/HVPL**

40. Shri Rakesh Jolly, CE/Planning  
Mobile: 09356273737/ Email: [ceplg@hvpl.gov.in](mailto:ceplg@hvpl.gov.in)  
41. Shri S.C. Sharma, SE / Area Plg.  
Mobile: 09354194844/Email: [seareaplg@hvpl.gov.in](mailto:seareaplg@hvpl.gov.in)  
42. Shri Gulshan Nagpal, SE, NCR, Plg.  
Mobile: 09313472660/Email: [senchrhvpl@gmail.com](mailto:senchrhvpl@gmail.com)  
43. Shri Surendra Singh XEN/Area Plg.II, Panchkula  
Email: [xenaplg@hvpl.gov.in](mailto:xenaplg@hvpl.gov.in)

**Govt. of Himachal Pradesh/HPPTCL/HPSEB**

44. Dr. Ajay Sharma, Special Secretary (Power) & Director (Energy)  
Mobile: 09418068206/Email: [ajaysharma\\_hp@hotmail.com](mailto:ajaysharma_hp@hotmail.com)  
45. Shri Rajiv Awasthi, CE(SP), HPSEB  
Mobile: 09418069834/Email: [cesp.hpseb@gmail.com](mailto:cesp.hpseb@gmail.com)

**Government of Goa/Goa Electricity Department**

46. Shri R.M. Ashrit, Ex. Engineer (EHV),  
Mobile: 07350644000/Email: [raviashrit@yahoo.co.in](mailto:raviashrit@yahoo.co.in)

**Govt. of West Bengal/WBSETCL**

47. Shri Kamales Biswas, Chief Engineer  
Mobile: 09434308079/Email: [bkamales@gmail.com](mailto:bkamales@gmail.com)  
48. Shri Asit Karmakar, Addl. Chief Engineer, CPD  
Mobile: 09434910090/Email: [asit.karmakar@wbsetcl.in](mailto:asit.karmakar@wbsetcl.in)

**Govt. of Punjab/PSTCL**

49. Shri Ajay Kapur, EIC/TS, PSTCL  
Mobile: 9646117802/Email : [ajaykapur.60@gmail.com](mailto:ajaykapur.60@gmail.com)  
50. Shri Munish Bhardwaj, Addl. SE/PSTCL  
Mobile: 9646118863/Email: [munishpseb@gmail.com](mailto:munishpseb@gmail.com)  
51. Er. Vinod Gulati, CE/Plg.  
Mobile: 09646118717/Email: [ce-plg@yahoo.com](mailto:ce-plg@yahoo.com)  
52. Shri Sukhwinder Singh Bhumra, Dy. CE  
Mobile: 09646118771/Email: [seplan3@gmail.com](mailto:seplan3@gmail.com)

**Govt. of Assam/AEGCL/APGCL**

53. Ms. Karuna Sarma, DGM, Guwahati  
Mobile: 9435013532/Email: [karunasarma@gmail.com](mailto:karunasarma@gmail.com)  
54. Shri Hemanta Madhab Sharma, Resident Engineer  
Mobile : 9810566869/Email : [re-liaison@apgcl.com](mailto:re-liaison@apgcl.com),

[hemantahemanta@rediffmail.com](mailto:hemantahemanta@rediffmail.com) ,

**Govt. of Jharkhand/Jharkhand Urja Sancharan Nigam Ltd. (JUSNL)**

55. Shri S.K.G. Rahate, Principal Secretary(Energy)  
Mobile 07070190807/Email: [psec.energy@gmail.com](mailto:psec.energy@gmail.com)
56. Shri Ajoy Prasad, JUSNL  
Mobile: 09431584785/Email: [cetjusnl@gmail.com](mailto:cetjusnl@gmail.com)
57. Shri Avinash Alda, JUVNL, Jharkhand

**Govt. of Gujarat/GETCO**

58. Shri K.H. Rathod, SE, STU, GETCO  
Mobile: 09925212250/Email: [stu.getco@gebmail.com](mailto:stu.getco@gebmail.com)
59. Shri Dipak H.Patel, Dy. Engineer (STU),  
Mobile: 9925213273/Email: [desystem@gebmail.com](mailto:desystem@gebmail.com)

**Govt. of Chhatisgarh/CSPTCL**

60. Shri Sanjay Patel, ED (C&P), CSPTCL  
Mobile: 09826157921/Email: [cecnp.csptcl@cseb.gov.in](mailto:cecnp.csptcl@cseb.gov.in)
61. Shri D.K. Chanda, SE (O/O ED(C&P))  
Mobile: 09425202572/Email: [dk.chanda576@gmail.com](mailto:dk.chanda576@gmail.com)
62. Shri Sanjay RB Khandelwal, Ex. Engineer  
Mobile: 09826446369

**Govt. of Tripura/Tripura State Electricity Corporation Ltd. (TSECL)**

63. Shri Mridul Kanti Chowdhury, Director (Tech),  
Mobile: 09436464245/Email: [kanti50@yahoo.co.uk](mailto:kanti50@yahoo.co.uk)

**Government of Sikkim**

64. Shri Sanjay P Kazi, CE  
Mobile: 9434169660/Email: [acepowersikkim@gmail.com](mailto:acepowersikkim@gmail.com)

**Govt. of Mizoram/Power & Electricity Department**

65. Ms. L. Hmar, SE(Plg)  
Mobile: 09436140198/Email: [eincplanning@gmail.com](mailto:eincplanning@gmail.com)

**Govt. of Nagaland, Department of Power, Nagaland**

66. Shri R. Angani,

**Govt. of Rajasthan/RVPN**

67. Shri A.K. Sharma, Chief Engineer (PPM)  
Mobile: 09414061519/Email: [ceppm@rvpn.co.in](mailto:ceppm@rvpn.co.in)
68. Shri M.P. Sharma,  
Mobile: 9413382617/Email: [mahavir\\_sh@rediffmail.com](mailto:mahavir_sh@rediffmail.com)

**Government of Jammu and Kashmir/PDD, Jammu/Sringar**

69. Shri Sheikh Gul Ayaz, Development Commissioner (Power), JK PDD and  
Chief Engineer(S&O), Kashmir/Mobile: 09906633900/09419005907  
Email: [dcpjkpdd@yahoo.com](mailto:dcpjkpdd@yahoo.com) /[gul.ayaz@hotmail.com](mailto:gul.ayaz@hotmail.com)
70. Shri B.A. Khan, Chief Engineer (M&RE),  
Mobile: 09419007058/Email: [bak822@gmail.com](mailto:bak822@gmail.com)
71. Shri Vikas Sharma, Liaison Officer, PDD, Delhi

Mobile: 9911584159/Email: liaisonpdd@gmail.com

**Government of Kerala/KSEB**

72. Smt. Vijaya Kumari P, Director (Trans. &SO)  
Mobile: 09446008444/Email: mtkseb@ksebnet.com

**Govt. of Odisha/GRIDCO**

73. Shri C.R. Mishra, OPTCL, BBSR  
74. Shri R.R. Panda, CGM(C), OPTCL, Odisha

**Govt. of Andhra Pradesh/APTRANSCO**

75. Shri L. Pardhasarathi, ADE, Mobile : 9440679372  
76. Smt. K. Nirmala, AE, Mobile: 09440619978/Email : knirmala@gmail.com

**Government of Telangana/TS Transco (Telangana) Hyderabad**

77. Shri P.V. Prabhakar Rao, CEP Proj-II  
Email : se\_ps\_transco@telangana.gov.in  
78. Shri J. Ajay Kumar, Divisional Engineer,  
Mobile: 9440679469/Email: desststransco@gmail.com

**Government of Tamil Nadu**

79. Shri M. Sudarsan, Executive Engineer (System Studies)  
Mobile: 09445856444/Email: sess@tnebnet.org  
80. Shri Ashok Kumar, Executive Engineer (System Studies)  
Mobile: 09411110724/Email: ashokgangwar@gmail.com

**Government of Manipur/MSPCL**

81. Shri NG. Sarat Singh, ED (T), MSPCL  
Mobile: 09436020929/Email: ngsarat@rediffmail.com

**Govt. of Meghalaya/Me Energy Coproration Ltd. (MeECL)**

82. Shri Anup Mahanta, CE (Generation)  
Mobile: 09402507319/Email: anupmahanta59@gmail.com

**Government of Arunachal Pradesh**

83. Shri Anong Perme, CE (P),  
Mobile: 09436040297/Email: anongperme@gmail.com

**Government of Puducherry/Puducheery Electricity Department**

84. Shri R. Murali, Executive Engineer, Electricity Deptt.

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## Un-utilized Downstream network at existing substation

S. No.	State	ISTS Substation	Voltage ratio in use	Downstream Network	Available status (States to update)
1	Odisha	Bolangir	400/220	LILO of Sadeipalli – Kesinga 220kV S/c at Bolangir	
				LILO of Sadeipalli – Katapalli 220kV S/c at Bolangir	
2	Odisha	Keonjhar	400/220	Keonjhar - Keonjhar (OPTCL) 220kV D/c	
				Keonjhar - Turumunga (OPTCL) 220kV D/c	
3	U.P.	Sohawal	400/220	Sohawal - Barabanki 220kV D/c	
				Sohawal - Tanda 220kV D/c	
				Sohawal - Sohawal 220kV D/c	
4	Haryana	Bhiwani	765/400/220	220kV 6 circuits	
5	Haryana	Jind	400/220	220kV 4 circuits	
6	Haryana	Kurukshetra S/Stn. (GIS)	400/220kV	220kV 8 circuits	
7	J&K	New Wanpoh	400/220	220kV 6 circuits	
8	J&K	Samba	400/220	LILO of Gladni – Hiranagar 220kV S/c at Samba	UC being implemented by POWERGRID
				LILO of Bishnah – Hiranagar 220kV D/c at Samba	UC
9	Karnataka	Tumkur (Vasantnarsapur) GIS	400/220kV	Tumkur (Vasantnarsapur) GIS - Antharasana Halli 220kV D/c	Oct 2016
				Tumkur (Vasantnarsapur) GIS - Madhugiri (KPTCL) 220kV D/c	Oct 2016
				Tumkur (Vasantnarsapur) GIS - Nittur/Vasantnarsapur 220kV D/c	2017

## Downstream network at under construction substation

S.No.	State	ISTS Substation	Voltage ratio in use	Substation COD	Downstream Network	Available status (States to update)
1	Maharashtra	Parli (PG)	400/220	Jan 18	LILO of Parli (MS) - Harnkul 220kV D/c at Parli (PG)	UC
					LILO of Parli (MS) - Osmanabad (MS) 220kV S/c at Parli (PG)	UC
2	Madhya Pradesh	Indore (PG)	400/220	Existing	LILO of Indore(MP) – Ujjain(MP) 220kV D/c at Indore(PG)	UC
					220kV 2 circuits	To be planned by MP
3	Madhya Pradesh	Rewa Pool	400/220	Mar 18	Rewa Pool - Rewa UMSP 3xD/c 220kV 6 circuits	UC - Matching with dedicated line
4	Bihar	Kishanganj	400/220	Mar 16	Kishanganj - Kishanganj (BSPTCL) – 1 <sup>st</sup> 220kV D/c	
					Kishanganj - Kishanganj (BSPTCL) – 2 <sup>nd</sup> 220kV D/c	
5	Bihar	Darbhangha	400/220	Jun 16	Darbhangha - Darbhanga (BSPTCL) 220kV D/c	
					Darbhangha - Motipur 220kV D/c	
					Darbhangha - Samastipur New 220kV S/c	
					Darbhangha - Laukhi 220kV D/c	
6	Bihar	Motihari	400/132	Aug 16	Motihari - Motihari (BSPTCL) 132kV D/c	
					Motihari - Betiah 132kV D/c	
					Motihari - Raxaul 132kV D/c	
7	West Bengal	Alipurduar	400/220	Jun 16	Alipurduar - Alipurduar (WB) 220kV D/c	
					LILO of Birpara - Salakati 220kV D/c at Alipurduar	Jun 16
8	West Bengal	Rajarhat	400/220	Jun 16	Rajarhat - Barasat 220kV D/c	



S.No.	State	ISTS Substation	Voltage ratio in use	Substation COD	Downstream Network	Available status (States to update)
					Rajarhat - New town AA2 220kV D/c	
					Rajarhat - New town AA3 220kV D/c	Jun 16
9	Jharkhand	Dhanbad	400/220	Award in process	Dhanbad - Govindpur 220kV D/c	
					Dhanbad - Jainamore(JUSNL) 220kV D/c	
10	Jharkhand	Daltonganj	400/220/13 2	Mar 17	Daltonganj - Latehar 220kV D/c	
					Daltonganj - Garhwa 220kV D/c	
					Daltonganj - Daltongang(JUSNL) 132kV D/c	
					Daltonganj - Chatarpur/Lesliganj 132kV D/c	
11	Odisha	Pandiabil	400/220	Mar 16	Pandiabil - Pandiabil (POWERGRID) 220kV D/c	Dec 15
					LILO of one circuit of Atri – Puri (Samangara) 220kV D/c at Padiabil	Dec 15
12	Uttarakhand	Dehradun Sub station	400/220	Jun 16	220kV 6 circuits	
13	Uttarakhand	Baram(Jauljivi) S/s	400/220	Award in process	Jauljivi S/s - Dhauligana D/c	
					Jauljivi S/s - Almora D/c	
					Jauljivi S/s - Pithoragarh S/c	
					Jauljivi-Sitarganj S/c	
14	Uttar Pradesh	Bagpat GIS	400/220	Mar 16	Bagpat GIS- Baraut D/c	
					Bagpat GIS-Shamli D/c	
					LILO of Moradnagar-II –Shamli S/c at Bagpat GIS	
					Bagpat GIS - Future 220kV 2 ckts	
15	Uttar Pradesh	Saharanpur	400/220	Mar 16	220kV 6 circuits	

S.No.	State	ISTS Substation	Voltage ratio in use	Substation COD	Downstream Network	Available status (States to update)
16	Delhi	Rajghat Sub station (GIS)	400/220	May 17	220kV 16 circuits	
17	Delhi	Dwarka -I Sub station (GIS)	400/220	May 17	220kV 16 circuits	
18	Delhi	Tughlakabad Sub station (GIS)	400/220	Jul 17	220kV 16 circuits	
19	Haryana	Kadarpur S/s in Gurgaon area (GIS)	400/220	Award in process	220kV 8 circuits	
20	Haryana	Sohna Road S/s in Gurgaon area (GIS)	400/220	Award in process	220kV 8 circuits	
21	Haryana	Prithala S/s in Palwal area (GIS)	400/220	Award in process	220kV 8 circuits	
22	J&K	Amargarh	400/220	Oct 18	220kV 6 circuits	
23	Himachal Pradesh	Parbati Pooling Station	400/220	Jun 16	Chaur - Parbati Pooling Station 220kV D/c	
24	Himachal Pradesh	Kala Amb	400/220	Jul 17	220kV 6 circuits	
25	Chandigarh	Chandigarh GIS	220/66kV	Award in process	66kV 12 circuits	
26	Panjab	Patran	400/220	May 16	220kV 8 circuits	
27	Tamil Nadu	Tirunelveli Pooling Station	400/230	Apr 17	Tirunelveli Pooling Station - Suzlon Power Infra Ltd. wind farms 230kV 6 circuits	April 2020
					Tirunelveli Pooling Station - Mytrah Energy wind 230kV D/c	Feb 2018
28	Andhra Pradesh	NP Kunta Pooling Station	400/220	May16	NP Kunta Pooling Station - APTRANSCO Switchyard 220kV D/c	April 2016

S.No.	State	ISTS Substation	Voltage ratio in use	Substation COD	Downstream Network	Available status (States to update)
					NP Kunta Pooling Station - NP Kunta Solar Park 220kV 6 circuits	Sept 2016
					NP Kunta Pooling Station - NP Kunta Solar Park 220kV 4 circuits	Dec 2016
29	Karnataka	Yelahanka	400/220	Substation ready but not charged	Yelahanka - Yelahanka (KPTCL) 220kV D/c	
					Yelahanka - BIAL (KPTCL) 220kV D/c	
					Yelahanka - Dodabellapur 220kV D/c	
					Yelahanka - Hebbal 220kV D/c	
					Yelahanka - Hoody 220kV D/c	
30	Karnataka	Tumkur (Pavagada) Pooling Station	400/220	Sep 17	Tumkur (Pavagada) Pooling Station - Tumkur Solar Park 220kV 4 circuits	Sept 2017
					Tumkur (Pavagada) Pooling Station - Tumkur Solar Park 220kV 4 circuits	Sept 2018
31	Assam	Rangia	400/220	Award in process	220kV 4 circuits	
32	Assam	New Mariani	400/220	Award in process	220kV 4 circuits	
33	Tripura	Surajmani nagar	400/132	Award in process	132kV 4 circuits	
34	Tripura	P.K.Bari	400/132	Award in process	132kV 4 circuits	
35	Nagaland	New Kohima	400/220	Award in process	220kV 4 circuits	

## Maharashtra model

**State level Standing  
Committee**

- The State Level Standing Committee on Planning has been formed vide Office Order No. 7759, dtd. 09.06.2015.
- Members of the State Level Standing Committee on Planning:
  - Director (Operations), MSETCL                      Chairperson
  - Director (Projects), MSETCL                      Member
  - Director (Operations), MSEDCL                      Member
  - Director (Projects), MSPGCL                      Member
  - Chief Engineer (SLDC)                      Member
  - One Representative from TPC/R-Infra                      Member
  - *(In rotation on year to year basis)*
  - Chief Engineer (STU)                      Convener
- Two independent members / experts each from reputed technical institutions and reputed finance institutes will be nominated in due course of time.

Format for submission of integrated perspective transmission plan level for the period 2017-2022 to CEA by the States.

Name of the State : -----

### Transmission lines

Year wise ckm of transmission lines planned to be added during the period 2017-22

Year	400kV ckm	220 kV ckm	132 kV ckm	66 kV ckm	33 kV ckm
<b>Upto Mar 17</b>					
<b>2017-18</b>					
<b>2018-19</b>					
<b>2019-20</b>					
<b>2020-21</b>					
<b>2021-22</b>					
<b>Total (17-22)</b>					
<b>Total (Mar 22)</b>					

Name of the State -----

### Sub-stations

Year wise transformation capacity to be added during the period 2017-22

Year	400kV		220 kV		132 kV		66 kV		33 kV	
	New S/s (No & MVA)	Augment ation of existing S/s (MVA)	New S/s (No & MVA)	Augment ation of existing S/s (MVA)	New S/s (No & MVA)	Augment ation of existing S/s (MVA)	New S/s (No & MVA)	Augment ation of existing S/s (MVA)	New S/s (No & MVA)	Augment ation of existing S/s (MVA)
Upto Mar 17										
2017-18										
2018-19										
2019-20										
2020-21										
2021-22										
Total (17-22)										
Total (Mar 22)										

-19-

Name of the State -----

**Intra –State Transmission lines planned to be commissioned**

Voltage	S.no	Name of the transmission line	Length in ckm	Estimated cost ( Rs crores)	Board and other management approvals in place	Funding arrangement and status of fund tie up	Status of placement of construction and other contracts	Target year of commissioning	Present status of implementation/ criticalities if any
<b>400 kV</b>	1								
	2								
	3								
<b>Total 400 kV ckm</b>									
<b>220 kV</b>	1								
	2								
	3								
<b>Total 220 kV ckm</b>									
<b>132 kV</b>	1								
	2								
	3								
	4								

Voltage	S.no	Name of the transmission line	Length in ckm	Estimated cost ( Rs crores)	Board and other management approvals in place	Funding arrangement and status of fund tie up	Status of placement of construction and other contracts	Target year of commissioning	Present status of implementation/ criticalities if any
	5								
<b>Total 132 kV ckm</b>									
<b>66 kV</b>	1								
	2								
	3								
	4								
	5								
	6								
<b>Total 66 kV ckm</b>									
<b>33 kV</b>	1								
	2								
	3								
	4								
	5								
	6								
<b>Total 33 kV ckm</b>									



Name of the State -----

**Intra-State transformation capacity planned to be commissioned**

Voltage level. New substn/ Augmentatio n of existing substn	S.n o	Name of the sub- station	Transfor mation voltage level kV	Transform ation capacity (MVA)	Estima ted cost ( Rs crores)	Board and other Managem ent approvals status	Funding arrangeme nt and status with regard to availability /tie up of fund	Identific ation of site and status of possessi on of land	Placeme nt of contracts for equip ment material and erection	Target Year of commissi oning	Present status of implementati on / criticalities if any
400 kV New sub stn	1		400/220								
	2		400/132								
	3										
	4										
400 kV Augmentati on existing sub-stn	1		400/220								
	2		400/220								
	3		400/132								
	4										
	<b>Total 400 kV MVA</b>										
220 kV New sub-stn	1		220/132								
	2		220/132								
	3		220/66								
	4		220/33								
220 kV	1		220/132								

Voltage level. New substn/ Augmentation of existing substn	S.no	Name of the sub-station	Transformation voltage level kV	Transformation capacity (MVA)	Estimated cost (Rs crores)	Board and other Management approvals status	Funding arrangement and status with regard to availability /tie up of fund	Identification of site and status of possession of land	Placement of contracts for equipment material and erection	Target Year of commissioning	Present status of implementation / criticalities if any
Augmentation existing sub-stn	2		220/66								
	3		220/33								
	4										
<b>Total 220 kV MVA</b>											
132 kV New sub-stn	1		132/66								
	2		132/33								
	3		132/11								
	4										
132 kV Augmentation Existing sub-stn	1		132/66								
	2		132/33								
	3		132/33								
	4		132/11								
<b>Total 132 kV MVA</b>											
66 kV New sub-stns	1		66/33								
	2		66/11								
	3		66/11								
	4										

Voltage level. New substn/ Augmentation of existing substn	S.no	Name of the sub-station	Transformation voltage level kV	Transformation capacity (MVA)	Estimated cost ( Rs crores)	Board and other Management approvals status	Funding arrangement and status with regard to availability /tie up of fund	Identification of site and status of possession of land	Placement of contracts for equipment material and erection	Target Year of commissioning	Present status of implementation / criticalities if any
66 kV Augmentation Existing sub-stn.	1										
	2										
	3										
	4										
<b>Total 66 kV MVA</b>											
33 kV New sub-stns	1		33/11								
	2		33/11								
	3		33/11								
	4		33/11								
33 kV Augmentation existing sub-stn	1		33/11								
	2		33/11								
	3		33/11								
	4		33/11								
<b>Total 33 kV MVA</b>											

No.3/12/2015-Trans  
Government of India  
Ministry of Power  
Shram Shakti Bhawan, Rafi Marg, New Delhi-110001  
\*\*\*\*

Dated, 1<sup>st</sup> June, 2016

Office Memorandum

Sub : Minutes of the meeting to review the plan of transmission projects targeted to be bid out/ awarded during 2016-17, 2017-2018 and the Integrated Transmission and Distribution Plan upto 33 kV along with communication system upto 2021-22 for the States/UTs and enhancement of TTC/ATC for Uttar Pradesh.

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The undersigned is directed to forward herewith minutes of meeting held on 27.5.2016 under the chairmanship of Joint Secretary (Trans), Ministry of Power on the above subject for information and further necessary action.



(Sanjeev Jain)  
Under Secretary (PG/ Trans)  
E-mail: transdesk-mop@nic.in  
Tele-fax: 23325242

To,

1. Member (PS), CEA, New Delhi.
2. CMD, PGCIL, Gurgaon.
3. CEO, POSOCO, New Delhi
4. CEO, RECTPCL, New Delhi.
5. CEO, PFCCCL, New Delhi.
6. Shri P.K Pahwa, Consultant (Trans), MoP.

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Copy to: PPSs to JS(Trans)/Director(Distribution)/Director(Trans), Ministry of Power.

**Minutes of the meeting to review the plan of transmission projects targeted to be bid out/ awarded during 2016-17, 2017-2018 and the Integrated Transmission and Distribution Plan upto 33 kV along with communication system upto 2021-22 for the States/UTs and enhancement of TTC/ATC for UP**

List of participants is at **Annex**.

1. A meeting was held under the Chairmanship of Mrs Jyoti Arora, Joint Secretary (Transmission), MoP on 27.5.2016 to work out the NIT and award plan for 2016-17.

2. Joint Secretary (Transmission), MoP, at the outset, stated that during the previous year 2015-16, NIT of transmission projects amounting to about Rs. 96,000 crores were issued against which award was of the order of Rs. 41,000 crores. Thus projects of about Rs. 55,000 crores for which NIT had already been issued should materialise for award during the current year. In addition, transmission projects for which NIT is yet to be issued may also get awarded during the current financial year. She stated that similar to previous year exercise, NIT and Award Plan for 2016-17 with respect to transmission projects is to be firmed up. This plan would also include intra-state transmission lines and transformation capacity up to 33 kV level.

3. PGCIL informed that they had very few projects in pipeline for NIT as for most of the projects; NIT had already been issued during 2015-16. During the current year they would be in a position to issue NIT for projects worth Rs. 5,000 crores only. **It was decided that PGCIL would prepare a month wise NIT Plan for 2016-17 indicating the project along with the cost and furnish the same to MoP within next ten days for incorporation in the overall NIT Plan.**

4. CEA informed that Standing Committee meetings are scheduled to be held shortly and transmission projects worth about Rs 5000 crores were likely to get approved. These projects would mostly be undertaken through TBCB route and NIT/RFQ is likely to be issued in current financial year. CEA further informed that under Green Energy Corridor inter-state plus intra-state transmission projects worth Rs 10,000 crores are likely to be bid out during the current financial year 2016-17. **It was decided that CEA would furnish the list of transmission projects with cost in next 10 days which are likely to be approved in SCM and for which NIT is likely to come in the current financial year for incorporation in the NIT Plan. CEA would also furnish list of such projects with estimated cost under Green Energy Corridor within 10 days for which NIT is anticipated during 2016-17.**

5. With regard to transmission projects under TBCB route it was informed by PFCCCL and RECTPCL that presently no projects were pending for issue of RfQ. However with regard to one of the schemes ERSS- XVIII for which RfQ was earlier issued, CEA vide its letter dated 06.04.2016 had revised the scope of the

transmission scheme and advised BPC to redo the RfQ with modified scope. PFCCL vide its letter dated 25.04.2016 had requested MoP for allowing to redo the RfQ with normal procedure instead of E-bidding.

5.1 It was decided that PFCCL may go ahead with re-initiation of RfQ for the ITP "ERSS-XVII" with the normal procedure instead of e-bidding however the RfP for this ITP will be carried out through e-Reverse Auction.

6. PFC Consulting Limited (PFCCL) also raised the issue of non-transfer of SPV of Tanda ATS to the successful bidder :

6.1 PFCCL as BPC has already completed the bid process for the transmission scheme "ATS for Tanda Expansion TPS (2X660) MW" and issued Letter of Intent to the successful bidder M/s. Essel Infraprojects Limited on 09.10.2015. However, the SPV could not be transferred as the following 3 nos. of Long Term Transmission Customers (LTTCS) out of 11 LTTCS has not signed the TSA. These LTTCS has already signed the PPA with NTPC based on their allocation of Power.

- I) Punjab State Power Corporation Ltd (PSPCL)
- II) Tata Power Delhi Distribution Ltd.
- III) BSES Rajdhani Power Ltd..

6.2 The representative of CEA has explained that signing of TSA and challenging signed PPA for procuring of power are two different issues. Signing of TSA is the requirement of SBD and non signing of TSA would result in delay of transfer of SPV to the successful bidder and which will further delay the implementation of transmission scheme.

**6.3 JS (Trans) has directed, a meeting may be called amongst CEA, NTPC, CTU, CERC, Law Department for examining the legal provisions with respect to PPA signed by these utilities.**

7. With regard to intra state transmission projects, it was desired by Joint Secretary, MoP that as a follow up to the earlier Perspective Plan meeting held on 4<sup>th</sup> April 2016, CEA should convene a region wise meeting of various states at the level of Member, CEA to finalise the perspective intra-state transmission plan up to 33 kV level up to the year 2021-22. In these meetings the intra-state NIT and Award Plan for the current year 2016-17 and next year 2017-18 should also be obtained from the states and furnished to MoP for incorporation in the NIT and Award Plan. These regional level meetings should be organised preferably within ten days. **CEA agreed to convene regional level meeting with the states at the level of Member, CEA.**

8. With regard to the Award Plan, it was noted that projects worth Rs. 96,000 crores were bid out during the previous financial year 2015-16 and award was

placed for about Rs 41,000 crores . Thus projects worth about Rs. 55,000 Crores which were bid out during last financial year are likely to be awarded during the current year 2016-17. **It was decided that PGCIL , REC, PFC, CEA will furnish a list of projects with cost for which NIT/RfQ was issued in 2015-16 and which are likely to be awarded during the current year 2016-17 for incorporation in the Award Plan . PGCIL and CEA will also furnish information with regard to the projects with cost for which NIT can be issued in 2016-17 and which are likely to be awarded in the current year 2016-17.**

9. CEA should look into the concerns raised by APP on draft transmission perspective plan and also the plants which are likely to be affected by environmental norms while giving final recommendation.

10. **Enhancement of TTC/ATC of UP:** With regard to enhancement of TTC/ATC of UP it was informed by POSOCO and CTU that as far as inter-state transmission network was concerned there were no issues. The main bottleneck was overloading of intra-state network at a number of drawl points and augmentation of intra-state network was required for enhancing the drawl capability of UP. **It was decided that CTU in association with POSOCO will furnish a comprehensive note in this regard to Joint Secretary (Trans) MoP.**

11. In this regard next meeting will be held on 13<sup>th</sup> June 2016 at 11:30 am.

The meeting ended with a vote of thanks to the Chair.

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## Annex

Date/time of the meeting: 27.5.2016 at 10.45 AM  
Venue: Ministry of Power, NPMC Room,  
Shram Shakti Bhawan, New Delhi-110001.

### List of Participants

#### Ministry of Power

1. Smt. Jyoti Arora, Joint Secretary (Trans) -In the chair
2. Shri Ghanshyam Prasad, Director (Trans)
3. Shri P.K.Pahwa, Consultant  
Mobile: 9818243524/Email: pkpahwa2000@yahoo.com

#### Central Electricity Authority

4. Shri Pardeep Jindal, Chief Engineer (PSPA-2)  
Mobile: 9818768460/Email: jindal\_pardeep@yahoo.co.in,  
Email: pjindal\_plan@hotmail.com,
5. Shri Ravinder Gupta, Director (PSPA)  
Mobile: 9968286184/Email: ravindergupta\_cea@rediffmail.com,  
ravindergpt@yahoo.com
6. Shri Chandra Prakash, Director (SP&PA)  
Phone: 26732327/Mobile: 9868807917/Email: cp\_cea@yahoo.co.in
7. Shri M. Srikanth Reddy, Assistant Director  
Mobile: 8447272084/Email: adptcc@gmail.com

#### Power Grid Corporation of India Ltd. (PGCIL)

8. Shri R. Nagpal, GM (CMG)  
Mobile: 9810485235/Email: rnagpal@powergridindia.com
9. Shri Mukesh Khanna, (CTU-Plg)  
Mobile: 9910378098/Email: mukeshkhanna@powergridindia.com
10. Shri H.H. Sharan, Addl. GM (LD&C)  
Mobile: 9873549014/Email: sharan@powergridindia.com

#### POSO/NRLDC

11. Shri K.V.S. Baba, GM, NLDC  
Mobile: 8527607575/E-mail: kvsbaba@posoco.in
12. Shri P.K. Agarwal, GM
13. Shri Rajeev Porwal, DGM

#### REC TPCL

14. Shri Bhupender Gupta, Addl. CEO  
Mobile: 9910027256/Email: bhupender\_g@yahoo.com
15. Shri Vivek Agarwal, Manager  
Mobile: 8800444788/Email: vivekagarwal.rec@gmail.com

#### PFC Consulting Ltd.

16. Shri Sanjay Nayak, AVP  
Mobile: 9871611467/Email: sanjaynayak@pfcindia.com,

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