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**EASTERN REGIONAL POWER COMMITTEE
14, GOLF CLUB ROAD, TOLLYGUNGE
KOLKATA-700 033**

NO. ERPC/TCC & COMMITTEE/14/2011/2784-2843

Date: 4th August, 2011

To :

- 1. Members of Eastern Regional Power Committee.**
- 2. Members of TCC.**
- 3. Special Invitees.**

Subject: Minutes of 18th ERPC & 18th TCC Meetings.

Sir,

The 18th ERPC and 18th TCC meetings were held on 30th June and 1st July 2011 respectively at Ranchi. During the TCC meeting everyone was in agreement with the informal proposal of Member Secretary for issuance of combined minutes of meeting of TCC & ERPC meetings. Chairperson, ERPC was apprised at Patna (27.07.2011) who had also consented to this proposal.

A copy of the minutes of these meetings (ERPC & TCC) is enclosed for kind information.

Yours faithfully,

Sd/-

**(A. K. Rampal)
Member Secretary**

Encl: As above

Distribution List : ERPC Members

1. The Chairperson, ERPC & Chairman, Bihar State Electricity Board, Vidyut Bhavan , Bailey Road, Patna-800021. (Fax No. 0612-2504937 / 2504557)
2. Chairman & Managing Director, West Bengal State Electricity Distribution Company Ltd. Vidyut Bhavan, 7th Floor, Sector-II, Bidhannagar, Kolkata-700091.(Fax # 033-23373002)
3. Managing Director, West Bengal State Electricity Transmission Co. Ltd., Vidyut Bhavan, 7th Floor, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091. (Fax No.033-23370206)
4. Chairman, Jharkhand State Electricity Board, Engineering Building, HEC, Dhurva, Ranchi-834004. (Fax No.0651-2400799)
5. Chairman, Damodar Valley Corporation, DVC Towers, VIP Road, Kolkata -700054. (Fax No.033-23551252)
6. Chairman & Managing Director, Orissa Power Transmission Corporation Ltd., Janpath, Bhubaneswar-751022. (Fax No. 0674-2541904)
7. Principal Chief Engineer-cum- Secretary, Energy & Power Department, Govt. of Sikkim, Kazi Road, Gangtok-737101.(Fax No. 03592-228186/201148)
8. Member (GO&D), Central Electricity Authority, Sewa Bhawan , R.K. Puram, New Delhi-110066. (Fax No. 011-26108834)
9. Director (Commercial), NTPC Ltd., Core-7, SCOPE Complex, 7, Institutional Area, Lodhi Road, New Delhi -110003. (Fax No. 011-24368417)
10. Director (Finance), NHPC Ltd., NHPC Office Complex, Sector-33, Faridabad, Haryana-121003. (Fax No. 0129-2272413)
11. Director (Operations), Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon-122001. (Fax No.0124-2571922)
12. Chairman & Managing Director, West Bengal Power Development Corporation Ltd., Bidyut Unnayan Bhavan, 3/C, Block LA , Sector-III, Bidhannagar, Kolkata-700098. (Fax No.033-23393286)
13. Managing Director, Durgapur Projects Ltd., 1593 Rajdanga Main Road, Kolkata-700107. (Fax No.033-24418173).
14. Managing Director, CESC Ltd., CESC House, 1 Chowringhee Square, Kolkata-700001. (Fax No.033-22129871)
15. Managing Director, OHPC Ltd., Orissa State Police Housing & Welfare Corporation Bldg. Vanivihar, Janpath, Bhubaneswar- 751022(Fax No.0674-2542102)
16. Managing Director, OPGC Ltd., Zone-A, 7th Floor, Fortune Towers, Chandrasekharpur, Bhubaneswar-751023. (Fax No.06645-222230)
17. Executive Director, National Load Dispatch Center,B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110016. (Fax No.011-26852747)
18. General Manager, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata – 700033. (Fax No.033-24235029)
19. Managing Director, Tenughat Vidyut Nigam Ltd., Hinoo, Doranda, Ranchi – 834002 (Fax No.0651-2253181)
20. Managing Director, BSHPC Ltd., Sone Bhawan, Birchand Patel Marg, Patna-800001 (Fax No.0612-2227692)
21. Director (Operations), PTC India Ltd., 2nd floor, NBCC Tower,15 Bhikaji Cama Place, New Delhi-110066. (Fax No.011-41659504 / 41659502)
22. Chairman & Managing Director, GRIDCO Ltd., Janpath, Bhubaneswar-751022. (Fax No.0674-2541904)
23. Executive Director & CEO, Powerlinks Transmission Ltd., DLF Tower-A, District Centre-Jasola, New Delhi-110025.(Fax No.011-45159555)
24. Chief Executive Officer, Maithon Power Ltd., C-43, Sector-62, NOIDA-201307, Uttar Pradesh. (Fax No.0120-6663093 / 6663029)
25. Managing Director, Adhunik Power & Natural Resources Ltd., Crescent Tower, 3rd Floor, 229 AJC Bose Road, Kolkata-700020. (Fax No.033-30915346)
26. Chief Executive Officer, Sterlite Energy Ltd., 1st Floor, City Mart Complex, Baramunda, Bhubaneswar-751012. (Fax No. 0674-6610342)

Distribution List : TCC Members

1. The Chairperson, TCC & Member (Transmission), Bihar State Electricity Board, Vidyut Bhavan, Bailey Road, Patna-800021. (Fax No.0612-2504557)
2. Director (RT & IT), WBSEDCL, Vidyut Bhavan, 7th Floor, Sector-II, Bidhannagar, Kolkata-700091. (Fax # 033-23379676)
3. Director (Operation), West Bengal State Electricity Transmission Co. Ltd., Vidyut Bhavan, 7th Floor, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091. (Fax No.033-23370206)
4. Member (Technical), Jharkhand State Electricity Board, Engineering Building, HEC, Dhurwa, Ranchi-834004. (Fax No.0651-2400799 / 2490486)
5. Director (Commercial), Damodar Valley Corporation, DVC Tower, VIP Road, Kolkata-700054. (Fax No.033-23552129)
6. Director (Engineering), Orissa Power Transmission Corporation Ltd, Janpath, Bhubaneswar-751022. (Fax No.0674-2541904 / 2542932)
7. Addl. Chief Engineer (EHV/M&E), Energy & Power Dept., Govt. of Sikkim, Kazi Road, Gangtok-737101. (Fax No.03592-201148 / 228186)
8. Chief Engineer (GM), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.(Fax No.011-26109750)
9. Regional Executive Director (ER-I), NTPC Ltd., 2nd floor, Lok Nayak Jai Prakash Bhawan, Dak Bunglow Chowk, Patna-800001. (Fax No.0612-2230035 / 224287)
10. Regional Executive Director (ER-II), NTPC Ltd., Plot No.730, Sahidnagar, Bhubaneswar-751007. (Fax No.0674-2540919)
11. Executive Director (O&M), NHPC Ltd., NHPC Office Complex, Sector-33, Faridabad-121003, Haryana. (Fax No.0129-2272413 / 2278009)
12. Executive Director (ER-I), Power Grid Corporation of India Ltd, Alankar Place, Boring Road, Patna-800001. (Fax No.0612-2234097)
13. Executive Director (ER-II), Power Grid Corporation of India Ltd, J-1-15, Block-EP, Sector-V, Salt Lake City, Kolkata-700091. (Fax No.033-23572814 / 23572815)
14. Director (O&M & FM), WBPDC, Bidyut Unnayan Bhavan, 3C, Block-LA, Sector-III, Bidhannagar, Kolkata-700098. (Fax No.033-23393286)
15. Executive Director (Corporate Services), CESC Ltd, CESC House, 1 Chowringhee Square, Kolkata-700001. (Fax No.033-22129871)
16. General Manager, ERLDC, 14, Golf Club Road, Kolkata –700 033. (Fax No.033-24235029)
17. General Manager, Tenughat TPS, Lalpania, Dist- Bokaro, Jharkhand-829149. (Fax No.06544-225402)
18. Director (Operation), Corporate Office, Orissa Hydro Power Corporation Ltd, Orissa State Police Housing & Welfare Corporation Building, Vanivihar Chowk, Janpath, Bhubaneswar-751022. (Fax No.0674-2542102)
19. Director (Operation), Orissa Power Generation Corporation Ltd, Zone-A, 7th floor, Fortune Towers, Chandrasekharapur, Bhubaneswar-751023. (Fax No.0674-222225)
20. Director (Operation), Durgapur Projects Ltd., 1593 Rajdanga Main Road, Kolkata-700107. (Fax No.033- 24418173)
21. Director (Commercial), GRIDCO Ltd., Janpath, Bhubaneswar-751022. (Fax No.0674-2543452)
22. Executive Vice President (Marketing/Commercial), PTC India Ltd., NBCC Tower, 15 Bhikaji Cama Place, New Delhi-110066. (Fax No.011-41659504)
23. General Manager (P&O), Powerlinks Transmission Ltd., C/o Powergrid, Vidyutnagar, Satellite Township, Siliguri-734015, West Bengal. (Fax No.0353-2568856)
24. Chief Executive Officer, Maithon Power Ltd., C-43, Sector-62, NOIDA-201307, Uttar Pradesh. (Fax No.0120-6663093)
25. Director, Adhunik Power & Natural Resources Ltd., Crescent Tower, 3rd Floor, 229 AJC Bose Road, Kolkata-700020. (Fax No.033-30915344)
26. Senior Vice President, Sterlite Energy Ltd., 1st Floor, City Mart Complex, Baramunda, Bhubaneswar-751012. (Fax No. 0674-6610342)

Distribution List : Special Invitees

1. Member (E & C), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
2. Chief Engineer (SP & PA), CEA, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. Member Secretary, NERPC, MSHFCS Building, Nongrim Hills, Shillong-793003
4. Member Secretary, NRPC, 18A, SJSS Marg, Katwaria Sarai ,New Delhi-110016.
5. Member Secretary, SRPC, 29, Race Course Cross Road, Bangalore-560009.
6. Member Secretary, WRPC, MIDC Area, Mumbai-400093.
7. Chief General Manager (S&M), Coal India Ltd., 16 Park Street, Kolkata-700016.
8. Joint Director (RM), Railway Board, Eastern Railway House, 17 N.S. Road, Kolkata-700001.

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MINUTES OF 18th ERPC & 18th TCC MEETINGS

In Chair:

ERPC Meeting (01.07.2011) : Shri P.K. Rai, Chairman, BSEB

TCC Meeting (30.06.2011) : Shri T.T. Jha, Member (Transmission), BSEB

List of Participants is at Annexure-A1 & A2

INAUGURAL SESSION :: ERPC MEETING

JSEB welcomed the delegates on dais by presentation of flower bouquet.

Thereafter, all delegates participated in lighting of ceremonial lamp.

Shri S.N. Verma, Chairman, JSEB, on behalf of JSEB welcomed Shri P.K. Rai, Chairperson,ERPC & Chairman,BSEB, members of ERPC on dais, Shri Yashi Wangdi, Director General, Department of Energy, Royal Govt. of Bhutan, Shri D.C. Rinjin, Managing Director, Druk Green Power Corporation, Royal Govt. Bhutan, TCC members and all other participants. He said “It is my privilege to welcome you all to this meeting which is being hosted by JSEB within a month of my taking over the charge of Chairman, JSEB”. He briefly stated about his 27 years of journey as a power engineer starting with TISCO, then to NHPC, Uttarakhand and now in JSEB. He said that that electricity is the means of development and the utilities should strive to provide quality power to its consumers, be it domestic or industrial. He proposed power pool of 50 MW in the region which could be made available to a State in case of emergency to meet its essential loads like railways, hospitals, water supply etc. He sought opinion of the members on the proposal. He said “ the essence of this meeting is cooperation among the constituents on the various issues” and wished the meeting a success.

Shri A.K. Rampal, Member Secretary, ERPC welcomed all delegates and requested Chairperson,ERPC to deliver his address.

Shri P.K. Rai, Chairperson, ERPC & Chairman, BSEB welcomed the members of ERPC, distinguished guests from Bhutan, members of TCC and all others participants. He profusely thanked Shri S.N. Verma, Chairman, JSEB and his team for excellent arrangement for the meeting. To save time, he took as delivered the formal speech circulated along with the agenda. He felt nostalgic that in early eighties as Divisional Engineer in Adra Division of Indian Railways he was in-charge of air conditioning and electrical installations at this BNR Hotel which was a small hotel then having only 12 rooms. Now the hotel has undergone massive transformation with many rooms and big conference hall. He endorsed the view of Chairman, JSEB and stressed the need for cooperation among the constituents of ERPC. He said “Bond and togetherness will help in solving many of our problems. Willingness to contribute maximum and expect least from others should be the spirit for getting the bond stronger”. He supplemented the proposal of Chairman, JSEB on power pool by stating that unallocated central sector power of the power stations located in Eastern Region should be allocated to the States in the regions in keeping with the letter and spirit of Govt. policy. In conclusion he acknowledged the contribution of his predecessor Shri M.K. De, Principal Secretary (Power), Govt. of West Bengal as Chairperson, ERPC in setting very high standard of managing the affairs of ERPC.

(The speech of Shri P.K. Rai is given at Annexure-A3)

INAUGURAL SESSION :: TCC MEETING

JSEB welcomed the delegates on dais by presentation of flower bouquet.

Thereafter, all delegates participated in lighting of ceremonial lamp.

Shri C.S. Gupta, Member (Technical), JSEB welcomed Shri T.T. Jha, Chairperson, TCC & Member (Transmission), BSEB, members of TCC, Shri Kencho Dorji, Head of Tala HEP, Bhutan and other participants to the meeting on behalf of JSEB. He said JSEB has made earnest effort to make stay of the esteemed delegates pleasant and comfortable. He said that Ranchi has hilly topography with full of flora and fauna. The present climate is also very pleasant. Time permitting the delegates may make a short trip to the nearby temples and water falls. Regarding TCC, he said that it is an important forum to facilitate integrated operation of the grid and also to achieve common objective. He requested considered and pragmatic view of the members on the new PoC regulations which is going to adversely impact the ER constituents in general and JSEB in particular.

Shri A.K. Rampal, Member Secretary, ERPC welcomed Shri Kencho Dorji, Head, Tala HEP, Bhutan, Shri T.T. Jha, Chairperson (TCC) & Member (Transmission), BSEB, Shri C.S. Gupta, Member (Technical), JSEB, other TCC members on dais and other participants to the 18th TCC meeting. He thanked JSEB for elaborate arrangement and conducive atmosphere for the meeting. He drew the attention of members on two important matters viz. implementation of PoC regulations from 1st July, 2011 and the proposal of Royal Govt. of Bhutan on drawal of off-peak power from India during driest months i.e. January to March commencing from 2012 upto 2016. He informed both the matters will be discussed in detail in the meeting.

Shri T.T. Jha, Chairperson, TCC and Member (Transmission), BSEB welcomed all members of TCC on dais, Shri Kencho Dorji, Head of Tala HEP, Bhutan and all other participants. He thanked Shri C.S. Gupta, Member (Technical), JSEB and his team for excellent arrangements for the meeting. He highlighted the pleasant climate of Ranchi and said that the place was summer capital of Bihar during British era. He said that Eastern Region has energy shortage of about 4 to 5 % and peak shortage of about 6%. About 1994 MW of central sector power which about 40% of total central sector power in the region has been allocated outside the region. BSEB with meagre generation is the worst sufferer, particularly during summer months. Further, BSEB has to supply power to Nepal to honour the international commitment. He urged for allocation of unallocated central sector power to the states within the region. He also drew the attention of the members to the fact that implementation of PoC regulations with effect from 1st July, 2011 will pose huge additional financial burden on ER constituents and requested the forum to initiate appropriate step for deferment of PoC regulations.

WELCOME OF NEW ERPC & TCC MEMBERS

ITEM NO.A : WELCOME OF NEW ERPC MEMBERS

ERPC welcomed new members, i.e. Shri K.K. Agrawal, Member (GO&D), CEA, Shri S.N. Verma, Chairman, JSEB, Shri R.N. Sen, Chairman, DVC, Shri S. Khatua, Managing Director, OHPC and Sh. A.K. Giri, Principal Chief Engineer-cum-Secretary, Energy & Power Department, Govt. of Sikkim (in absentia)

ERPC placed on record the contributions of Shri M.K. De, Principal Secretary (Power), Govt. of West Bengal and CMD, WBSEDCL & Chairman, WBSETCL, Shri Pema Wangchen, Principal Chief Engineer-cum-Secretary, Energy & Power Department, Govt. of Sikkim and Shri Shiv Basant, Chairman, JSEB. All of them were members of ERPC and former two had held the post of Chairperson, ERPC for the year 2009-10 and 2010-11 respectively.

ITEM NO.A0 : WELCOME OF NEW TCC MEMBER

TCC welcomed new members i.e. Shri K.N. Singh, Senior Vice President, Sterlite Energy Ltd. and Shri S.P. Kazi, Addl. Chief Engineer (EHV/M&E), Energy & Power Department, Govt. of Sikkim (in absentia).

TCC placed on record the contribution of Shri P.B. Subba, Chief Engineer, Energy & Power Department, Govt. of Sikkim as member of TCC from 2008-09 to 2010-11 who also held the post of Chairperson, TCC for the year 2009-10.

CONFIRMATION OF MINUTES

ITEM NO.A1: CONFIRMATION OF THE MINUTES OF THE 17th ERPC MEETING HELD ON 17.03.2011 AT JAIPUR

The minutes of the 17th ERPC meeting held on 17th March,2011 at Jaipur were circulated vide letter no.ERPC/ TCC & Committee/14/2011/340-97 dated 11.04.2011.

No comments have been received from constituent members on the minutes of the meeting.

Members may kindly confirm the minutes of 17th ERPC meeting.

Deliberation in the ERPC meeting

ERPC confirmed the minutes of 17th ERPC meeting.

ITEM NO.A2:CONFIRMATION OF THE MINUTES OF 17th TCC MEETING HELD ON 16.03.2010 AT JAIPUR

The minutes of 17th TCC meeting were circulated vide letter no. ERPC/TCC & Committee/ 14/2011/1119-44 dated 20.05.2011.

No comments have been received from constituent members on the minutes of the meeting.

Members may kindly confirm the minutes of 17th TCC meeting.

Deliberation in the TCC meeting

TCC confirmed the minutes of 17th TCC meeting.

FOLLOW UP ACTIONS

ITEM NO.1B ERPC (CONDUCT OF BUSINESS) RULES 2006 - AS AMENDED 2011 (Item No.B1 of minutes of 17th ERPC meeting) – Posed directly to ERPC

In the 17th ERPC meeting held on 17th March,2011 the following decision was taken on amendment of Eastern Regional Power Committee (Conduct of Business) Rules 2006 (CBR) :

“ *ERPC Secretariat made a presentation.*

After brief deliberation, it was decided that

- a) Members would send their comments to the Secretariat within a month.*
- b) Members will nominate one person from their organisation for finalising the CBR.*
- c) A meeting will be conducted within 1½ months.*

The CBR so finalised will be adopted. It shall be ratified in the next ERPC meeting.”

Subsequently, comments were received from BSEB, ERLDC, NHPC, NTPC, and PTC.

A meeting was held on 4th May,2011 at ERPC Secretariat in which representatives from APNRL, BSEB, CESC, DVC, ERLDC, NTPC, POWERGRID, SEL WBSEDCL, WBSETCL were present. Diverse opinions prevented Secretariat to finalise the document. Subsequently, Member Secretary had separate follow up meeting with NTPC/NHPC/ERLDC.

ERPC Secretariat will make a presentation depicting the changes with reference to the draft CBR (already circulated vide its letter dated 1st March,2011).

The schedule of changes with reference to the draft CBR circulated is attached as **Annexure –A4**.

The Secretariat will place the draft regulations (as required in the CBR) for approval of ERPC in its next meeting.

Members may kindly consider ratifying the CBR.

Deliberation in the ERPC meeting

ERLDC proposed changes in para 6.1, 6.2 and sought deletion of para 32 of the draft CBR. Accepting the suggestion, ERLDC was requested to furnish amended para, which shall be adopted in the CBR.

ERLDC has since furnished the following amended para:

Para 6.1 ERPC Secretariat shall be provided with one computer terminal for fetching real time parameters from ERLDC control room.

As and when the existing SCADA system is replaced at ERLDC, provision would be kept to incorporate in the project so that ERPC Secretariat can be provided with three (including the one already provided) computer terminals for fetching the real time parameters from ERLDC Control Room.

The hardware and software cost as well as cost of maintenance would be borne out of ERPC Fund.

Para 6.2 As and when, the SLDCs of the region are provided with Video Conference facility, ERPC Secretariat would also be provided with similar conferencing facility to link up with ERLDC and SLDCs. The funding of the said project and its maintenance shall be done through ERPC Fund, in case PSDF funding is not available for the same.

BSEB reiterated its suggestion to include in para 5.7 titled 'Manpower' the following:

“A draft regulation shall be formulated within 3 months of the finalisation of the CBR determining the eligibilities, terms & conditions for drawing officers from the constituents against the vacant posts”.

Member Secretary, ERPC clarified that all the draft regulations including the one suggested, shall be placed in the next ERPC meeting for its approval/ ratification. So, its inclusion need not be impressed upon.

BSEB agreed.

NTPC suggested changing the wording of para 8 and para 18.1 as under:

“All decisions shall be taken during a meeting of the constituent members called 'ERPC Meeting'. All decisions of ERPC shall be by consensus.”

Member Secretary, ERPC endorsed NTPC views.

With the above observations, ERPC approved the CBR for its notification and circulation.

ITEM NO.2B: ERPC ESTABLISHMENT FUND AND ERPC FUND – Submission of Financial Statement (Item No.B2 of the Minutes of 17th ERPC meeting) – Posed directly to ERPC

In the last (17th) ERPC meeting the Secretariat had apprised that financial statements for the year 2010-11 were under preparation and would be placed in the next meeting.

Accordingly, the financial statements in respect of 'ERPC Establishment Fund' and 'ERPC Fund' for the year 2010-11 have been prepared and enclosed at **Annexure-A5 & A6** respectively.

Both the accounts will be got audited as per the regulations on the funds which are under finalisation.

Members may kindly note.

Deliberation in the ERPC meeting

Members noted.

ITEM NO.3B: RENOVATION OF ERPC SECRETARIAT PREMISES AND STAFF QUARTERS (Item No.B1 of the Minutes of 16th ERPC Meeting) – Posed directly to ERPC

In the 15th ERPC meeting held on 28th September,2010 it was reported that “ Civil engineer from POWERGRID visited the ERPC Secretariat. The schedule of work and cost estimate will be placed before the Committee on submission of the report by POWERGRID.”

In the 16th ERPC meeting held on 18th December,2010 “ Member Secretary apprised that CPWD having constructed the buildings was approached and the scheme is still being got developed.”

The Secretariat will make a presentation on the proposed R&M work.

Deliberation in the ERPC meeting

The Secretariat made a presentation. The presentation is given at **Annexure-A7**.

After brief deliberation members agreed to the following:

- a) To commence Renovation & Modernisation (R&M) of ERPC Secretariat premises. The plans may be got developed during rainy season, and from 10th October onwards, construction may be got commenced.
- b) Plan the conversion of vacant staff quarters into the guest house accommodation. This accommodation can also be used for residential training programs.
- c) Since 1st, 2nd and 3rd floors of the Secretariat building are being used by ERPC, while 4th & 5th floors are being used by ERLDC/POWERGRID, R&M cost of the Secretariat building will be apportioned in the ratio of 3:2.
- d) In principle approval of the estimated cost of Rs. 4 crore (Rs. 3 crore for three floors of office premises and Rs. 1 crore for residential complex) to be shared equally by all members of ERPC. However, exact mode of its sharing by ‘members by rotation or future members’ shall be elaborated and placed before ERPC in its next meeting.
- e) NBCC shall be approached for consultancy-cum-execution of this R&M work. In case NBCC is unwilling, POWERGRID shall get this work done on deposit basis, who had already conveyed its willingness to get done as ‘deposit work’.
- f) A sub-committee of three persons shall be constituted by drawing one person each from member organisations of ERPC having its office in Kolkata. They shall oversee entire R&M work from ERPC perspective.
- g) The progress report including the detailed estimate shall be placed from time to time in the future ERPC meeting(s). CEA shall also be regularly apprised of this activity.

ITEM NO. B.1: PROCUREMENT OF SPARE TRANSFORMERS BY PGCIL

(Item no. B 3.1, 3.2 of MOM of 17th ERPC meeting)

(A): FOR ITS OWN USE

Background:

In the 13th and 14th ERPC meeting, procurement of two numbers of 315 MVA, 400 / 220 kV autotransformer and one number 80 MVAR shunt reactor as O&M spare was approved.

(B): FOR USE BY CONSTITUENT STATES

Background:

16th ERPC approved procurement of following transformers for use as spare transformers in the state network :

1. 400/220kV, 2X 315 MVA
2. 220/132kV, 2x 160/150 MVA(as may be available)
3. 132/66 kV, 1x 50 MVA
4. 132/33kV, 1x 50 MVA

In the 17th ERPC meeting, PGCIL informed that their Board had given investment approval for all except 132/33 kV, 50 MVA transformer and order would be placed within 2-3 months. It was also decided that Member Secretary, ERPC would take up the transformer with Director (Operation), PGCIL.

Latest Status for (A) & (B):

- ✓ Bids for reactor opened on :10.06.2011
- ✓ Bids for spare transformers opened on :16.06.2011
- ✓ Likely date of placement of order :##
- ✓ Delivery Schedule :##

Regarding procurement of 132/33 kV, 50 MVA transformer, Member Secretary approached Director (Operation), PGCIL on two occasions but Powergrid has shown its inability due to technical reason i.e. it is not equipped to handle 132/33 kV transformer.

PGCIL may update the status.

Deliberation in the TCC meeting

Member Secretary, ERPC informed that Powergrid needs a consolidated approval for the spare transformers for getting statutory approval(s). It was agreed that ERPC Secretariat may convey to Powergrid the ERPC approval for procurement of spare transformers for PGCIL's own use and for the use by ER States, by consolidating the relevant minutes of various ERPC meetings, and stipulate all terms and conditions, including the number of transformers, cost sharing mechanism, location and charged condition etc.

PGCIL informed that

- ✓ Likely date of placement of order : end of August 2011
- ✓ Delivery Schedule : 14-18 months after placement of order

With regard to procurement of 132/33 kV, 50 MVA transformer, Director (Operation) PGCIL had already conveyed its inability to procure. Member Secretary, ERPC proposed that he in consultation with BSEB and JSEB would discuss alternative arrangement to procure the 132/33 kV transformer and may place the proposal before the ERPC.

TCC agreed with the suggestion and noted the status for procurement of spare transformers.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO. B.2: UPGRADATION OF TENUGHAT EVACUATION SYSTEM

(Item no. B.3.1 of MOM of 17th ERPC meeting)

(A) REPLACEMENT OF ZEBRA CONDUCTOR AT TAIL END OF 220 KV TENUGHAT-BIHARSHARIFF LINE

Background:

The issue of replacement of 1.6 km span of zebra conductor by moose conductor at BSEB end of the line was deliberated and agreed upon by BSEB in 17th ERPC meeting.

Follow-up action:

- The existing towers can not sustain the load of new moose conductor.
- Powergrid ruled out reinforcement of towers and suggested to replace the existing towers along with their foundations.
- Powergrid sought the details of existing towers and their foundations.
- BSEB agreed to furnish the details of the towers and foundation promptly within 4/5 days.
- Powergrid agreed to assess the cost involvement in the following two cases and submit to TCC:
 - ✓ Replacement of all existing 5 towers with appropriate new towers
 - ✓ Utilizing the existing towers by reducing the span and additional new towers.

Powergrid may update the status.

Deliberation in the TCC meeting

TVNL expressed its deep concern that one unit of Tenughat TPS was under shutdown w.e.f. 19.05.11, as five towers collapsed in 220 kV Tenughat-Biharshariff line. BSEB responded that order for restoration of towers has been placed and the line may be restored by July'11.

TVNL impressed upon the need for early replacement of conductors and agreed to bear its cost. It also stressed the need to assess whether or not the existing towers can sustain the load of new moose conductor. So, Powergrid was requested to get the work done at the earliest.

Powergrid stated that it needed the design data of the towers including that of foundation.

BSEB has assured to get the conductor replaced while restoring the towers.

BSEB subsequently, in consultation with TVNL, have furnished the following scheme :

“ 1.6 km tail end line is double Zebra while TTPS bay at Biharshariff CT to line portion is of single Moose, CT to Breaker and Breaker to mail Bus is of double Moose. BSEB shall charge the CT to line portion to ‘double Moose’ (from earlier single moose) before charging the line (expected : 15th August 2011). This will suffice the TVNL requirement.”

Deliberation in the ERPC meeting

ERPC noted.

(B) CONVERSION OF 220 KV TENUGHAT SUB STATION TO 400 KV

Background:

In the last (17th) TCC meeting, it was understood that award of the work for construction of 400 kV Tenughat s/s is getting delayed because scope of the work is still being discussed and is yet to be finalized. TCC requested TVNL and PGCIL to settle the issue and inform the OCC forum.

Latest Status:

- ✓ Powergrid informed that TVNL was frequently changing the scope of work and is yet to freeze the scope.

TVNL may respond.

Deliberation in the TCC meeting

TVNL informed that it had finalized the scope of work with Powergrid and the work is to be completed by 24 months. Member Secretary desired Powergrid to confirm (within 10 days) that all issues are settled and it is in a position to commence the work.

Subsequently, Powergrid has confirmed that it is in a position to commence work.

Its progress shall be monitored by OCC.

Deliberation in the ERPC meeting

ERPC noted.

(C) PAYMENT ISSUES FOR BAY EXTENSION WORK OF BIHARSHARIFF S/S

Powergrid has come up with its payments issues regarding bay extension works at 400 kV Biharshariff s/s. Powergrid has now informed that work for the bay extension at Biharshariff substation for the 400 kV Biharshariff-Tenughat s/c line was held up due to non receipt of balance payment (Rs.706.31 lacs).

TVNL may respond.

Deliberation in the TCC meeting

Member Secretary, ERPC opined that this payment issue relates to construction period and should not be mixed-up with planning/operation issues and may be dropped.

Powergrid agreed.

However, JSEB assured to get this payment released shortly.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.B.3: SCHEDULING OF TALCHER STAGE –II STPS BY ERLDC (Item no. C.6 of MOM of 17th ERPC meeting)

Background:

In the last (17th) ERPC meeting, citing various provisions of IEGC, Member Secretary, ERPC expressed that Talcher Stage-II falls under the control area of Eastern Region and therefore scheduling of Talcher Stage-II should be done by ERLDC.

ERPC agreed with the observation of Member Secretary and empowered Member Secretary, ERPC and General Manager, ERLDC to pursue this matter.

Latest Status:

- ✓ Subsequently, SRPC in its 16th meeting held on 30.04.11 decided to continue with existing practice of scheduling of Talcher STPS stage-II by SRLDC.

Members may deliberate.

Deliberation in the TCC meeting

Members noted the status-quo in this regard.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO. B.4: NON RECEIPT OF SEM DATA FROM MALBASE SUBSTATION (Item no. C.21 (B2) of MOM of 17th ERPC meeting)

Background:

In the last (17th) ERPC meeting, the issue was discussed and concerned parties were requested to intimate the following information to OCC.

- I) PTC/ERLDC: Latest status of receipt of SEM data from Malbase substation
- II) Powergrid: Latest status of procurement of 25 numbers of Laptops/DCDs for Eastern Region

Latest Status:

- ✓ In the 61st OCC meeting, ERLDC confirmed that they were regularly receiving SEM data from Malbase substation.
- ✓ Regarding procurement of Laptops/DCDs, Powergrid informed that NIT had been floated and delivery was expected by September 2011.

Powergrid may update.

Deliberation in the TCC meeting

As per Powergrid, NIT for Laptops/DCDs would be floated in July 2011 and delivery was expected by October 2011.

Members noted.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO. B.5: METERING ARRANGEMENT FOR SEL (STERLITE ENERGY LIMITED) (Item no. C.21 (C3) of MOM of 17th ERPC meeting)

Background:

This issue was discussed in last (17th) ERPC meeting and it was decided that Powergrid would inform the latest status regarding installation of meters in SEL in next OCC.

Latest Status:

- ✓ Eight numbers of SEMs to be installed by SEL (6 nos) and OPTCL (2nos).
- ✓ Data transfer from SEL to RLDC/SLDC is still under implementation by SEL.
- ✓ As per ERLDC, additional meter(s) may also be needed depending on connectivity of units.
- ✓ Connectivity with ISTS/STU is being finalized by GRIDCO/SEL
- ✓ SPS has since been finalized by ERLDC in consultation with SEL and OPTCL

Members may note.

Deliberation in the TCC meeting

TCC noted.

Deliberation in the ERPC meeting

ERPC also noted.

ITEM NO. B.6: PRIORITIZATION OF ICT PROCUREMENT FOR CHUKHA TRANSMISSION SYSTEM (Item no. F.2 of MoM of 17th ERPC meeting)

Background:

In the last (17th) ERPC meeting, WBSETCL impressed upon PGCIL to take up the work for installation of 160 MVA, 220/132 kV ICT priority wise at Siliguri, Birpara and Malda sub-station with special attention for Siliguri by December, 2011. PGCIL acknowledged the concern of WBSETCL and assured to look into early commissioning of Siliguri ICT.

Latest Status:

- ✓ Procurement of above ICTs was in award/evaluation stage.
- ✓ WBSETCL was willing to lend a transformer to PGCIL for early commissioning of ICT at Siliguri.

PGCIL and WBSETCL may inform the latest status.

Deliberation in the TCC meeting

Powergrid apprised that order for the above ICTs would be placed in July 2011 and delivery would take another 14-18 months from placement of order.

However, sensing the urgency of the ICT at Siliguri, WBSETCL had offered Powergrid to use one of its ICT till procurement by Powergrid and also requested Powergrid to update the status. No updated status was reported upon by Powergrid.

In view of grid security concerns at Siliguri, it was decided to monitor this issue in the future OCC meeting(s).

Deliberation in the ERPC meeting

WBSETCL urged Powergrid to install the ICT at Siliguri by December 2011.

Regarding offer of WBSETCL, Powergrid opined that apart from availability of ICT, availability of bay equipment also needs to be ascertained.

It was agreed that Powergrid would revert back on the matter in the next OCC.

ITEM NO B.7: CONSTITUTION OF SUB-COMMITTEE TO LOOK INTO COAL DIVERSION FROM KAHALAGAON STAGE-I TO KAHALGAON STAGE-II (Item no. C.1 of MoM of 15th ERPC meeting)

Background:

While discussing the issue of coal diversion from Kahalgaon Stage-I to Stage-II, it was decided that

“For exploring their options and taking appropriate action, constituent states of Bihar, Jharkhand, Orissa and West Bengal formed a sub-committee comprising of Sh. T. T. Jha, Member (Transmission), BSEB, Sh. C. S. Gupta, Member (Tech), JSEB, Sh.

A. C. Mallick, Director (Commercial), GRIDCO and Sh. Anirban Guha, Director (RT), WBSETCL”.

Subsequently, Sh. A. C. Mallick, after his superannuation, was replaced by Sh. P. K. Pradhan, Director (Commercial). Shri T. T. Jha, Member (Trans.), BSEB, being the Chairman of TCC was nominated as head this sub-Committee.

Latest Status:

The sub-committee held its first meeting on 18.06.11.

The sub-Committee may apprise.

Deliberation in the TCC meeting

It was noted that the sub-Committee is in the process of finalizing the report.

NTPC stated that they are making all efforts for maximising generation availability by optimal utilisation of coal supply from all possible sources. NTPC has earlier also explained in detail regarding additional coal being arranged by NTPC through imports and MoU route for its units at Kahalgaon STPS Stage-I and II.

In this regard, Member Secretary, ERPC informed that coal has been recently allocated for Kahalgaon U#7 and Farakka U#6.

NTPC confirmed the coal linkages for above units.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.B8: IMPLEMENTATION OF SYNCHROPHASOR TECHNOLOGY IN EASTERN REGION (Item No. B.3.4 of 17th ERPC meeting)

ERPC approved total number of 26 PMUs (original -28 out of which 2 will be funded from NRLDC Pilot Project) at an estimated cost of Rs.18.65 Crores and their location to be identified by ERLDC.

Approval was subject to the condition that the Scheme would be taken up for implementation only if it is 100% funded from PSDF.

ERLDC has informed it is in readiness to submit the proposal to PSDF for its funding. ERPC decided that ERPC Secretariat shall communicate to CERC for increasing the ceiling for RPC approved projects. ERLDC was also directed to explore the possibility if taking the scheme under separate statewise project or application wise project.

Latest status:

ERPC has requested the Secretary, CERC for enhancement of limit to Rs.20 Crore provided it is 100% funded by PSDF as grant (copy enclosed at **Annexure-I**).

- CERC is yet to approve the ‘Disbursement Procedure’ of PSDF.

ERLDC may appraise the latest status regarding splitting the project.

Deliberation in the TCC meeting

ERLDC was requested to present their plan before ERPC.

Deliberation in the ERPC meeting

GM-ERLDC mentioned that project for installation of 28 number PMUs for Eastern Region is awaiting approval of PSDF. However, Eastern grid requires a few number at critical locations so as to have better visibility of dynamic phenomenon, whose cost can be met out of CAPEX plan for 2012-13 (Rs. 8 crore) for interfacing PMU data with SCADA/EMS systems and to explore the R&D activities related to CIM. ERPC may approve expenditure for few PMUs in 2011-12 by preponing the CAPEX plan for 2012-13.

ERPC concurs with the proposal of ERLDC.

ITEM NO.B9: VOLTAGE COLLAPSE PREDICTION RELAYS

(Item No. B.3.5 of 17th ERPC meeting)

ERPC in its 15th meeting approved ERLDC proposal for procurement of 10 Nos. of Voltage Collapse Prediction Relays of M/s. A.Eberle costing Rs. 3 crores including (cost of training abroad) subject to the condition that it is to be funded from PSDF.

ERLDC in the 17th ERPC meeting informed that it is ready to submit the proposal to PSDF as and when PSDF calls.

Latest status:

- CERC is yet to approve the ‘Disbursement Procedure’ of PSDF.

Members may kindly note.

Deliberation in the TCC meeting

Status remains same. TCC noted.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.B10: SPECIAL PROTECTION SCHEMES

(Item No. B.3.6 of 17th ERPC meeting)

ERPC in its 16th meeting approved the following System Protection Schemes (SPSs) proposed by ERLDC:

- i. SPS for Purnea – Muzaffarpur D/C
- ii. 400kV Farakka-Kahalgaoon line

- iii. 400kV Farakka-Malda line
- iv. SPS for Purnea – Binaguri D/C
- v. SPS for Tenughat – Biharshariff S/C
- vi. SPS for Sterlite Energy Ltd.
- vii. SPS for Mejia ‘B’ and MPL Power stations

ERLDC is yet to submit the proposal to PSDF.

Latest Status :

- CERC is yet to approve the ‘Disbursement Procedure’ of PSDF.
- SPS for Sterlite has been finalised in consultation with ERLDC and OPTCL, SLDC
- As and when NTPC approaches ERPC/ERLDC for review of SPS at (ii) or (iii), the same shall be got reviewed.
- For (vii), DVC and MPL may respond

Members may please note.

Deliberation in the TCC meeting

- Regarding SPS for (ii) and (iii), NTPC reiterated their observation that the SPS is not required after commissioning of the 2nd Farakka-Kahalgaon D/C line.

It was agreed to review this SPS requirement before implementation.

- ERLDC impressed upon Sterlite Energy Ltd. (SEL) for immediate implementation of SPS at SEL. SEL agreed.
- Regarding SPS for Mejia B and MPL, MPL and DVC in consultation with ERLDC would finalize the SPSs for implementation by July 2011. They have agreed for its implementation.

ERLDC opined that any new IPPs coming up with evacuation plan by LILO of existing ISTS line would be allowed to charge only after implementation of its associated SPS.

All agreed with ERLDC to take up each SPS (including IPP LILO) on case to case basis.

Deliberation in the ERPC meeting

ERPC Noted.

ITEM NO.B11: Interim Arrangement for evacuation of power from Teesta-III HEP (1200MW) by Teesta Urja Ltd. through LILO of one circuit of 400kV Teesta V-Siliguri D/C line at Teesta-III HEP (Item No. B 3.7.1 of 17th ERPC meeting)

Background

After the Standing Committee Meeting (SCM), NHPC conveyed that it may accord consent for interim arrangement for the evacuation of power of Teesta-III through existing Teesta-V

system only after the above technical and commercial aspects are specified and agreed to by concerned utilities.

In the 9th Protection sub-Committee meeting, a basic scheme for reducing generation at Teesta-III HPS, in the event of tripping of (i) Teesta V - Binaguri direct line or (ii) Teesta III – Binaguri line section, was explained by ERLDC.

The scheme was forwarded to NHPC HQ for examination both by NHPC and Teesta Urja Ltd. before its finalization. [This scheme has to be implemented by Teesta Urja Ltd. at their own cost.].

Latest Status :

- The expected commissioning schedule of Teesta Urja Ltd. : March, 2012

NHPC may apprise.

Deliberation in the TCC meeting

It was decided to discuss this matter before ERPC members.

Deliberation in the ERPC meeting

NHPC proposed that ERPC should take a lead and hold a meeting with officers of Teesta-III Project, NHPC as well as Powergrid. As the design wing of NHPC shall also be required to be involved, it is proposed to hold this meeting at Delhi so that all concerned may conveniently attend the meeting. All technical and operational aspects of the system may be discussed and the issue may be finalised in the proposed meeting. A convenient date may be got fixed by ERPC Secretariat.

ERPC consented.

ITEM NO.B12 Composite Transmission System for transfer of power from Orissa UMPP and Orissa Ph-II IPP Projects to Beneficiaries (under the Scope of Powergrid)

(Item No. B 3.7.3 of 17th ERPC meeting) – follow-up items

Even after two meetings held between Odisha and CTU after the SCM held on 28.12.2010, the composite transmission system is yet to be finalized.

OPTCL and Power Grid may inform the latest status.

Deliberation in the TCC meeting

OPTCL and CTU were requested to make presentations before ERPC.

Deliberation in the ERPC meeting

Powergrid expressed that Orissa is agreeable to draw its share from Powergrid's pooling station provided no transmission charges are levied on them. In this regard, Powergrid viewed that the requirement of pooling station and drawal of its share is a technical matter. As far as transmission charges are concerned, the same would be governed by the prevailing regulations/norms of CERC.

OPTCL made the presentation.

After presentation, it was agreed that CTU and OPTCL may deliberate further in a meeting to be held at Gurgaon.

ITEM NO.B13 Evacuation of Power from Upcoming IPP's in Odisha

–Proposed by Odisha (Item No. B.3.7.4 of 17th ERPC meeting)

In the SCM held on 28.12.2010, PGCIL made a presentation on the evacuation of power from the IPP's coming near Dhenkanal i.e. Tata power, CESC, Visa Power, Mahanadi Aban, Bhusan by setting up of a 765kV Pooling station at Dhenkanal. GRIDCO/OPTCL also made a presentation justifying of one 400kV STU S/s at Khuntuni (near Dhenkanal) for evacuation of state share power from the Phase-I & Phase-II IPP's by swapping mechanism. GRIDCO stated that 765kV S/s at Dhenkanal is not required.

Subsequently PGCIL came up with the proposal of connecting one unit each from Tata power, CESC, Visa Power, Mahanadi Aban, Bhusan with OPTCL network & PGCIL 765kV S/s separately through swapping arrangement.

With the above arrangement only 3600MW out of total Odisha share of about 6000MW can be evacuated into STU network. Connection of IPP generator with STU S/s at Khuntuni is a better proposal due to following reasons:

1. Less RoW and forest involvement.
2. In case tie bus is closed, fault MVA will increase.
3. OPTCL need not have to pay PoC charges.

OPTCL made a presentation on it.

Latest Status:

The scheme is yet to be finalised. OPTCL may indicate the present status.

Deliberation in the TCC meeting

OPTCL and CTU were requested to make presentations before ERPC.

Deliberation in the ERPC meeting

Powergrid expressed that Orissa is agreeable to draw its share from Powergrid's pooling station provided no transmission charges are levied on them. In this regard, Powergrid viewed that the requirement of pooling station and drawal of its share is a technical matter. As far as transmission charges are concerned, the same would be governed by the prevailing regulations/norms of CERC.

OPTCL made the presentation.

After presentation, it was agreed that CTU and OPTCL may deliberate further in a meeting to be held at Gurgaon.

**ITEM NO.B14: TRANSMISSION OF SR POWER TO WR THROUGH PGCIL
POOLING STATION IN ODISHA (Item No. C.9 of 17th TCC meeting)**

- a. If the 765kV line from southern region to western region is anchored at Angul, then Odisha will have to pay PoC charges. Hence it is not acceptable to OPTCL.
- b. OPTCL to get the ISTS Transmission Charges for 220kV Budhipadar-Tarkera line and part of 400kV Rengali-Kolaghat line.

Odisha made a presentation in the 17th ERPC meeting, wherein it was decided that Odisha was to put forward the issue in the next Standing Committee meeting.

Odisha may intimate the latest status.

Deliberation in the TCC meeting

OPTCL opined that it might agree on the scheme provided that no additional burden is posed to OPTCL under POC regime.

Powergrid expressed that Orissa is agreeable to draw its share from Powergrid's pooling station provided no transmission charges are levied on them. In this regard, Powergrid viewed that the requirement of pooling station and drawal of its share is a technical matter. As far as transmission charges are concerned, the same would be governed by the prevailing regulations/norms of CERC.

Deliberation in the ERPC meeting

CTU and OPTCL may deliberate further in a meeting to be held at Gurgaon.

**ITEM NO.B15: COMMISSIONING OF 220KV BUS BAR PROTECTION AT
BIHARSHARIF SUBSTATION (BSEB) & RAMCHANDRAPUR
SUBSTATION (JSEB) - (Item No. C-10 of 17th TCC meeting)**

This matter was discussed in various ERPC fora and implementation is pending since long.

The Bus Bar Protection of 220KV Biharshariff Substation (BSEB) and Ramchandrapur Substation (JSEB) are yet to be commissioned by BSEB & JSEB. Due to non-availability of Bus Bar protection, the fault in the bus is cleared by the protection of the ICTs.

Both BSEB and JSEB agreed to accord priority to the above tasks.

In the 9th Protection sub-Committee held on 19.04.2011, it was learnt that M/s. Areva was requested by BSEB to depute their commissioning Engineer for installation of Bus differential protection relay at Biharshariff S/s, to which M/s. Areva did not respond. On the request of BSEB, Powergrid agreed to get expedited commissioning of the scheme with the help of M/s. Areva.

BSEB and JSEB may inform the latest status.

Deliberation in the TCC meeting

BSEB shared their concern that M/s Areva did not respond despite of their continued

persuasion, and sought Powergrid's advice. Powergrid stated that some payment issue is dissuading M/s Areva. While BSEB said that the payment is not yet due.

TCC advised Powergrid to assist BSEB to sort out this 'contractual obligation' issue. Its status will be discussed in next OCC meeting.

Accepting the request of JSEB, TCC decided that a group with representations from ERLDC, ERPC, Powergrid and JSEB would study the feasibility of installation of busbar protection at Ramchandrapur. It was also decided to include the Chandil S/S.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.B16 LESS REGISTRATION AT 132 KV MAITHON-JAMTARA TIE FLOW FROM 23.09.2007 TO 03.12.2007 (Item No. B.3.8 of 17th ERPC meeting)

At a meeting convened at ERPC, Kolkata on 18.01.2011 between JSEB, DVC and ERPC a model of calculation was decided, which was agreed unanimously by JSEB and DVC. DVC had intimated that the formula proposed in the meeting dated 18.01.2011 has been approved by DVC management.

In the last ERPC meeting, JSEB accepted the formula decided in the meeting on 18.01.2011. JSEB assured that formal acceptance from JSEB management would be communicated within 15 days.

However, JSEB management has not yet formally approved the formula.

In the last Commercial Sub-Committee meeting (16.06.2011) members referred this to TCC for further deliberation

JSEB may respond.

Deliberation in the TCC meeting

This issue will be discussed before ERPC.

Deliberation in the ERPC meeting

Member Secretary emphasised that such issues should not prolong for 3-4 years and redressal has become urgent. JSEB responded with a proposal to host a meeting at Ranchi on 20th July 2011 wherein appropriately empowered representatives of JSEB, DVC and ERPC Secretariat will participate and mutually sort out this issue and conclusively decide the principles guiding the resolution. It shall also finalize a time schedule for follow-up actions to reach the end.

ITEM NO. B17: DISCUSSION WITH SRPC IN RESPECT OF IRE ACCOUNT FOR ER-SR EXCHANGE (Item No.B.3.12 of 17th ERPC meeting)

In the last the ERPC meeting, Member Secretary, ERPC apprised the members regarding the issues and the outcome of the subsequent meeting with Southern Region.

Shri M.K. De, Chairperson, ERPC informed that he would take up the issue with his counterpart in SR shortly.

Deliberation in the TCC meeting

This issue will be discussed before ERPC.

Deliberation in the ERPC meeting

Member Secretary apprised the status quo.

ERPC noted.

ITEM NO.B18: CHARGES FOR INTERCHANGE BETWEEN SR AND ER THROUGH HVDC LINE (Item No.C18 of 17th ERPC meeting)

In the last the ERPC meeting, after detailed deliberation it was decided that Chairperson, ERPC, shall take up the matter with his counterpart in SR to settle the issue.

Deliberation in the TCC meeting

This issue will be discussed before ERPC

Deliberation in the ERPC meeting

Member Secretary apprised the status quo.

ERPC noted.

ITEM NO.B19 COAL ARRANGEMENT OF FARAKKA STPS UNIT # 6 OF NTPC (Item No. C.2 of 17th t TCC meeting)

In the last Commercial Sub-Committee meeting it was informed that the meeting of the Sub Committee constituted by ERPC to examine the operational issues of Kahalgaon Stage I&II is scheduled on 18.06.2011 at ERPC. It was decided that the above issue would be taken up once the recommendation of Sub-Committee is finalized and accepted by ERPC.

NTPC may apprise its coal arrangement plan.

Deliberation in the TCC meeting

This issue will be discussed before ERPC.

Deliberation in the ERPC meeting

NTPC informed that linkage for supply of coal w.r.t. Unit-6 of Farakka STPS has now been received.

ERPC noted.

ITEM NO.B20: INTEGRATED PLANNED MAINTENANCE OF TALCHER STAGE-I & II STPS (Item No. C.6 of 17th ERPC meeting)

In the last Commercial Sub-Committee meeting it was informed that the meeting of the Sub-Committee constituted by ERPC to examine the operational issues of Kahalgaon Stage I&II is scheduled on 18.06.2011 at ERPC. It was decided that the above issue would be taken up once the recommendation of Sub-Committee is finalized and accepted by ERPC.

This is information of members.

Deliberation in the TCC meeting

Member Secretary informed that there is no change in status.

Deliberation in the ERPC meeting

ERPC noted

ITEM NO.B21: FIBRE OPTIC CONNECTIVITY IN EASTERN REGION

(Item No. C.11 of 17th ERPC meeting)

After detailed deliberation in the last ERPC meeting the scheme was approved.

PGCIL may update the latest status.

Deliberation in the TCC meeting

Powergrid informed that preparation of FR for management approval is in the final stage and NIT may be floated in the month of August'11.

Further, ERLDC will identify the priority locations. Powergrid agreed to consider this.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.B22: IMPLEMENTATION OF AUTOMATIC METER READING IN EASTERN REGION (Item No. C.21E of 17th t ERPC meeting)

In the last ERPC meeting ERLDC had informed that the cost of the AMR project is expected to come down from Rs. 8.6 Crores to Rs. 3.6 Crores for 115 locations (including AMC for 5 years).

ERPC members concurred with ERLDC proposal preferably by utilizing the fund available under PSDF. Accordingly, Powergrid was to invite competitive bidding for implementation of the same.

ERLDC/PGCIL may update the present status.

Deliberation in the TCC meeting

GM, ERLDC stressed that in view of the implementation of AMR in our region funding may be delinked from PSDF.

TCC felt that this issue may be discussed before ERPC.

Deliberation in the ERPC meeting

GM, ERLDC explained that it is prudent that the project be undertaken through CTU/POWERGRID who may be entrusted with the responsibility of installation of interface meters. Its annuity may be allowed to be recovered as per the principles of sharing of cost (of meter installation).

The cost of the AMR project for 115 existing locations is estimated to be around 3.6 Crores (including AMC for 5 years). As far as IPPs are concerned the cost of meters and AMRs shall be borne by the respective stations.

ERPC approved the ERLDC proposal.

**ITEM NO.B23: NOMINATION TO THE VALIDATION COMMITTEE FROM
EASTERN REGION (*Item No. C.19 of 17th ERPC meeting*)**

As per the procedure approved by ERPC in its last meeting, Shri T.T. Jha, Member (Transmission), BSEB and only TCC member from Bihar has been nominated to the validation committee.

Members may kindly note.

Deliberation in the TCC meeting

TCC noted.

Deliberation in the ERPC meeting

ERPC noted.

NEW ITEMS

ITEM NO. C.1: INSTALLATION OF 125 MVAR BUS REACTOR AT BIHARSHARIFF

BSEB is suffering from high voltage in 400 kV Biharshariff s/s resulting into persistent high voltages 220 kV substations of BSEB namely Biharshariff, Bodhgaya, Begusarai. The issue was discussed in last (67th) OCC meeting, and various measures to contain over-voltage were deliberated.

After deliberation, OCC members agreed that

1. ERLDC would change the tap position of 400/220 kV ICTs at Biharshariff s/s (PG)
2. BSEB would explore closing the 220 kV loop of Pusauli-Dehri-Bodhgaya-Biharshariff

Further, OCC members recommended for installation of an additional 125 MVAR bus reactor at Biharshariff s/s and referred it to ensuing TCC/ERPC meeting for further deliberation. In this regard, Powergrid was requested to examine space availability at Biharshariff s/s for accommodating the said reactor.

Members may discuss.

Deliberation in the TCC meeting

Powergrid confirmed the space availability at Biharshariff for installation of 125 MVAR reactor.

TCC recommended that ERPC may approve installation of 125 MVAR Reactor.

After approval this scheme shall be referred to Standing Committee on Power System Planning for Eastern region for information as system strengthening scheme.

Deliberation in the ERPC meeting

ERPC approved the proposal for installation of 125 MVAR bus reactor at 400 kV Biharshariff S/s of Powergrid.

This would be referred to Standing Committee on Power System Planning for Eastern region for information as a system strengthening scheme.

ITEM NO.C2: SPS FOR 2X1250 MW, HVDC BALIA - BHIWADI LINE (780 KM)

Member Secretary, NRPC vide its letter dated 23.03.2011 addressed to Member Secretary, ERPC informed that pole-I of + / - 500Kv, 2x 1250 MW HVDC Balia – Bhiwadi bi-pole has already been commissioned on 01.09.2010. The pole-II of the link is expected to be commissioned by March, 2011. Since the link is of very high capacity and in the absence of immediate automatic correction under outage of the link, a SPS was proposed by NRLDC which was approved by 16th NRPC meeting held on 16.04.2010.

The SPS requires an automatic backing down of generation by 750MW in ER at Kahalgaon / Barh / Farakka for taking care of tripping of both poles.

ERPC forwarded the detailed scheme to ERLDC & NTPC for comments.

In the 9th Protection Sub-Committee meeting the issue was discussed and the observation is as follows:

“ NTPC is not able to appreciate the need for an SPS for one pole outage. Also, as per CEA manual on transmission planning criteria single ckt./ pole outage should not necessitate rescheduling of generation or shedding of load.

From the data of NRPC, it is observed that sensitivity testing was done with only one pole of Balia – Bhiwadi was in service. It is expected that by now both the pole might be in service or likely to be commissioned shortly. Further study required to be carried out when both the poles are in service and flow around 2500 MW for sensitivity.

Introduction of SPS should not be treated as routine affair and should be introduced as a last resort with time limitation (till augmentation of transmission lines).

NTPC is very much concerned for the grid security such as implementation of RFGMO in all the units, tripping of units or load reduction at TSTPS in case of pole blockade (SPS-450/1000). However it observed that recently all the proposed SPS or implemented SPS, ISGS are only participating player. Study & proposal to be done in such a manner that all the Generators of the grid should participate.

Commercial impact on load reduction or tripping of unit must be considered while implementing any SPS especially tripping of units due to sudden load reduction or due to SPS logic. Present implemented SPS does not cover commercial losses due to tripping of unit (DC loss).”

Other Members noted that the study results received from NRPC, considered single pole operation of the Balia-Bhiwadi HVDC link. Therefore, the results for bi-pole outages also need to be examined. It was further opined that the reduction of generation on implementation of SPS has to be effected at Barh STPS and KhSTPS Stage-II of NTPC only, as the link is basically intended for evacuation of power from these stations. The ER constituents would be adversely affected, in case generation is reduced at Farakka and / or KhSTPS Stage-I.

ERLDC endorsed the views of ER constituents.

NTPC may initiate the discussion.

Deliberation in the TCC meeting

NTPC reiterated the following views as also recorded in the MoM of the 9th Protection Sub-Committee :

1. NTPC is not able to appreciate the need for an SPS for one pole outage. As per CEA manual on transmission planning criteria single ckt / pole outage should not necessitate

rescheduling of generation or shedding of load.

2. From the data of NRPC it is observed that sensitivity testing was done with only one pole of Balia-Bhiwadi in service. It is expected that by now both the poles might be in service or likely to be commissioned shortly. Further study is required to be carried out when both the poles are in service and flow around 2500 MW for sensitivity analysis.
3. Introduction of SPS should not be treated as routine affair and should be introduced as a last resort with time limitation till augmentation of transmission line.
4. NTPC is very much concerned for the grid security such as implementation of RFMMO in all units, tripping of units or load reduction at TSTPS in case of pole blockage (SPS 450/1000). However, it is observed that recently all the proposed SPS or implemented SPS, ISGS are only participating player. Study and proposal to be done in such a manner that all the generators I of the grid should participate.
5. Commercial impact on load reduction or tripping of unit must be considered while implementing any SPS especially tripping of units due to sudden load reduction or due to SPS logic. Present implemented SPS does not cover commercial losses due tripping of unit (DC loss).

NTPC stated that it is not in agreement for implementation of SPS in view of the reasons already stated.

Each member including ERLDC endorsed that generation reduction, if required, should be from Kahalgaon Stage-II and Barh (when commissioned).

TCC recommended that Member Secretary may be empowered to take a stand in the meeting of the joint committee as suggested by NRPC. His stand and decision shall be ratified.

Deliberation in the ERPC meeting

ERPC accepted the recommendation and empowered Member Secretary.

ITEM NO.C3: CORRIGENDUM TO THE MINUTES OF THE STANDING COMMITTEE MEETING ON POWER SYSTEM PLANNING HELD ON 20.09.2010 AND 28.12.2010 RESPECTIVELY – Posed directly to ERPC

ITEM NO.C3.1: CEA vide its letter no. 66/5/99-SP&PA/ dated 10-12-2010 had issued an corrigendum to the minutes of the Standing Committee meeting on Power System Planning in ER held on 20-09-2010 at NRPC, New Delhi. The said corrigendum is given below for the changes indicated in 'Bold' for information and ratification by TCC :

1. First Para of Item-3.0 (MoM) is revised as following:

Director (SP&PA), CEA stated that the proposal LILO of one ckt. of the ongoing 400kV Durgapur(Parulia) - Jamshedpur D/C line of PGCIL (Part of approved ERSS-I scheme) at DSTPP was planned under the scope of DVC to cater to the requirement of start-up-power for Durgapur STPP and

to facilitate power evacuation. DVC completed the proposed LILO (6 Km) work. As the construction of the 400kV Durgapur(Parulia) - Jamshedpur D/C line at Parulia and Jamshedpur ends was held up due to objections raised by M/s Bengal Aerotropolis Pvt. Ltd (BAPL) and by M/s ECL, he requested PGCIL to give the latest status on it. ED, PGCIL stated POWERGRID has been facing severe right of way constraints due to ECL for termination of Durgapur –Jamshedpur 400 kV line at Durgapur. He stated that effort is being made to complete this 400kV line and terminate at Jamshedpur. The other end of the line which is to be terminated at Durgapur 400 kV Sub-station could be terminated at Durgapur STPP of DVC till the Right of way issues be resolved. ***ED,POWERGRID further proposed that till the portion of the line (Durgapur-Jamshedpur 400kV D/C) between Durgapur(PG) - DSTPP(DVC) gets completed, the line may be terminated at DSTPP(DVC) so as to form DSTPP(DVC) – Jamshedpur 400kV D/C line and the same may be included in the regional scheme. Once, Durgapur(PG) - DSTPP(DVC) portion of line is completed then the line may be re-configured as Durgapur- Jamshedpur 400kV D/C line with one ckt. LILO at DSTPP (DVC).***

Deliberation in the ERPC meeting

Powergrid reaffirmed that till the portion of the line (Durgapur–Jamshedpur 400kV D/C) between Durgapur (PG) – DSTPP (DVC) gets completed, the line may be terminated at DSTPP (DVC) so as to form DSTPP (DVC) – Jamshedpur 400kV D/C line and the same may be included in the regional scheme. Once Durgapur (PG) – DSTPP (DVC) portion of line is completed then the line may be re-configured as Durgapur- Jamshedpur 400kV D/C line with one ckt. LILO at DSTPP (DVC).

ERPC ratified.

2. Item 5.1.2 of MoM is revised as following:

5.1.2 Common system strengthening for transfer of power from Phase-I generation projects in Jharkhand and West Bengal to NR/WR (Under the scope of PGCIL)

Director (SP&PA), CEA stated that the requirement of the common system strengthening works were finalized into three region specific groups viz. ‘ER’, ‘NR’ and ‘WR’ in the last meeting of Standing Committee held on 14th Sept.’09. *As proposed by PGCIL, the works were regrouped into two parts i.e. Part-A & Part-B for implementation. On this, PGCIL further proposed to include establishment of 765kV Varanasi S/s and associated 765kV and 400kV lines for delivery of power to NR under Part-A, which were taken under Part-B.* PGCIL representative stated that due to delay in commissioning of Tilaiya UMPP project, LILO of 765kV Gaya – Balia line at Varanasi in NR would be done in place of LILO of Tilaiya – Balia line at Varanasi. Accordingly, the scope of work under Part-A & Part-B for the common system strengthening would be as following:

I. Common system strengthening for transfer of power from Phase-I generation projects in Jharkhand and West Bengal - Part-A

- Ranchi – Gaya 400 kV (Quad) line via pooling station proposed near Essar / Corporate generation projects
- Ranchi New (765/400kV S/s) - Dharamjaygarh / near Korba 765kV S/c
- Establishment of 400kV Pooling Station (Jharkhand Pool) near Essar and Corporate generation projects. This will be a switching station without ICTs
- *New 2x1500 MVA, 765/400 kV substation at Varanasi*
- Gaya – Varanasi 765 kV S/c**
- LILO of Gaya - Balia 765 kV S/c line at Varanasi**

- **400kV connectivity for new 765/400kV S/s at Varanasi**
- **Varanasi - Sarnath (UPPCL) 400kV D/c (quad)**
- **LILO of Sasaram - Allahabad 400kV line at Varanasi**

II. Common system strengthening for transfer of power from Phase-I generation projects in Jharkhand and West Bengal - Part-B

- New 2x1500 MVA, 765/400 kV substation at Kanpur
- Varanasi – Kanpur 765 kV D/c
- Kanpur – Jhatikra 765 kV S/c
- Kanpur (765/400kV) - Kanpur (Existing) 400kV D/C (Quad)

III. Private Sector line: *In addition to the above work to be undertaken by PGCIL, Dharamjaygarh – Jabalpur 765kV D/C line (2nd line) would be under the scope of private sector. Associated 765kV line bays at Dharamjaygarh and Jabalpur sub-station would be under the scope of POWERGRID.*

The charges of the common transmission system would be borne by the generation developers of Jharkhand as well as WBSEDCL till the time the long term beneficiaries are finalized. Further, the regional charges of Eastern Region would be borne by the developers of Jharkhand projects in proportion to their installed capacity and by WBSEDCL corresponding to open access quantum i.e. 1000MW. The regional charges for WR and NR would also be shared by the developers of Jharkhand projects and WBSEDCL in proportion to the power allocated to these regions. Once, the long-term beneficiaries are tied-up, transmission charges would be shared by the beneficiaries in proportion to their allocation. All the constituents of ER concurred.

Deliberation in the ERPC meeting

PGCIL further proposed to include establishment of 765kV Varanasi S/s and associated 765 and 400kV lines for delivery of power to NR under Part-A, which were taken under Part-B.

PGCIL stated that due to delay in commissioning of Tilaiya UMPP project, LILO of 765kV Gaya – Balia line at Varanasi in NR would be done in place of LILO of Tilaiya – Balia line at Varanasi. Accordingly, the scope of work under Part-A & Part-B for the common system strengthening would be as above.

ERPC ratified.

3. 'Part- C' in Item - 6.2.4 of MoM is revised as following:

Part-C: Transmission System for development of pooling station in Northern part of West Bengal and transfer of power from Bhutan to NR/WR (under the scope of PGCIL)

(By 2014-15, when Punatsangchhu-I (1200MW) comes up in Bhutan)

- New 2x315MVA, 400/220kV AC & HVDC sub-station with + 800kV, 3000MW converter module at new pooling station at Alipurduar.
- Extension of + 800 kV HVDC station with 3000 MW inverter module at Agra LILO of Bishwanath Chariyali – Agra HVDC line at new pooling station in
- Alipurduar for parallel operation of the HVDC station
- LILO of Bongaigaon – Siliguri 400kV D/c line(quad) (Bongaigaon – Siliguri 400kV D/c line under pvt. Sector) at new pooling station in Alipurduar
- LILO of Tala-Siliguri 400kV D/c line at new pooling station in Alipurduar.
- LILO of Birpara-Salakati 220kV D/c line at new pooling station in Alipurduar

- **Lhamoizingkha (Bhutan Border) – Alipurduar 400kV D/C with Quad Moose Conductor**
- Earth Electrode line at new pooling station at Alipurduar
- Earth Electrode line at Agra HVDC Terminal

Deliberation in the ERPC meeting

ERPC ratified.

ITEM NO.C3.2: CEA vide its letter no. 66/5/99-SP\$PA/ dated 04-05-2011 had issued an corrigendum to the minutes of the Standing Committee meeting on Power System Planning in ER held on 28-12-2010 at PGCIL, Gurgaon. The said corrigendum is given below for the changes indicated ‘in Bold’ for information and ratification by TCC :

1. Second Para of Item-2.0 of the MoM is revised as following:

However, MD (WBSETCL), agreeing to the above stated that the Farakka – Rajarhat section of the 400 kV Rajarhat-Purnea D/c line (triple snowbird) should be at least set-up on priority basis matching with the commissioning 400kV Beharampur switching station with LILO of 400kV Farakka –Jeerat line being developed by PGCIL for power supply to Bangladesh. For delay in implementing the Farakka – Rajarhat section, supplying power to the load centers at Jeerat and Subhasgram areas in WB in the event of power supply to Bangladesh would cause overloading in the Farakka – Jeerat/Subhasgram section, and for any line outage in the corridor, West Bengal would suffer badly. In this connection, ED (PGCIL) informed that as construction of the 400kV Beharampur switching station and associated work are under implementation phase, it would be difficult to bring the 400kV Farakka-Rajarhat portion with the time frame of Beharampur Sw. Station. On the proposal of WBSETCL, CE (SP&PA) stated that on topmost priority efforts would be given for construction of the Farakka – Rajarhat section of the Rajarhat-Purnea 400 kV D/c line.

ED (PGCIL) has agreed for the same. As regards availability and acquisition of land at Rajarhat, MD, WBSETCL would extend possible help in this regard.

2.0 First Para of Item-9.0 (MoM) is revised as following:

PGCIL participant stated that the Cross border power transmission Co. Ltd. has been granted transmission license by CERC, so Muzaffarpur-Dhalkebar 400kV D/C line will be implemented by M/s Cross Border Power Transmission Co. Ltd.. Upon query from ER constituents about sharing of charges for the line, Chief Engineer (SP&PA) clarified **that no transmission charges would be paid by ER constituents.**

Deliberation in the ERPC meeting

POWERGRID informed that MoM of the SCM in Eastern Region held on 20-12-2010 at Gurgaon was circulated by CEA. Subsequently, some modifications in MoM were suggested by PGCIL based on the deliberation took place in the meeting. Accordingly, the second para of Item-2 and the first para of Item-9 of the minutes were revised. The summary of the same is as per following paras (2.1 and 2.2):

2.1 Establishment of 400kV Rajarhat-Purnea 400 kV D/c line and 400/220 kV S/S at Rajarhat as system Strengthening in ER.

On the proposal of WBSETCL, CE (SP&PA) stated that on topmost priority efforts would be given for construction of the Farakka - Rajarhat section of the Rajarhat-Purnea 400 kV D/c line. ED (PGCIL) has agreed for the same. As regards availability and acquisition of land at Rajarhat, MD, WBSETCL would extend possible help in this regard.

2.2 Progress on Muzafferpur-Dhalkebar 400kV D/C transmission schemes to supply power

PGCIL participant stated that the M/s Cross Border Power Transmission Co. Ltd. has been granted transmission license by CERC, so Muzaffarpur Dhalkebar 400kV D/C line will be implemented by M/s Cross Border Power Transmission Co. Ltd.

In this regard, members enquired about the recordings in the corrigendum which states as below :

“Chief Engineer (SP&PA) clarified that no transmission charges would be paid by ER constituents”.

In this regard, POWERGRID explained that the transmission charges shall be shared as per the prevailing regulations of CERC.

ERPC ratified the revisions of Minutes of SCM.

ITEM NO.C3.3: ADDITIONAL AGENDA POINTS RAISED BY POWERGRID FOR RATIFICATION:

Items of MoM of Standing Committee Meeting (SCM) held on 20-09-2010 were ratified in the 16th meeting of ERPC. However, following additional agenda items of SCM were not been included in the main part of MoM of 16th ERPC meeting :

1. Item 15.1 of MOM of SCM : WBSETCL’s System Strengthening Scheme

Due to the space constraint at Jamshedpur S/Stn, 400kV Kharagpur-Jamshedpur(PG) D/C line of WBSETCL would be terminated at 400kV Chaibasa substation being constructed by POWERGRID instead of Jamshedpur (PG) S/S. Accordingly, the WBSETCL’s line would be as following:

- Kharagpur – Chaibasa (PG) 400kV D/c line

The matter was deliberated and agreed upon by the ERPC.

2. Item 15.4 of MOM of SCM: Transmission System for Pipavav Energy Generation Project at Amreli, Gujrat in Western Region

POWERGRID informed that Pipavav Energy Pvt. Ltd. has applied for Long Term access. The target beneficiaries for 360 MW power transfer were indicated to be in the Eastern region. Since the power transfer shall take place on the basis of displacement, no separate strengthening scheme in ER/ER-WR corridor was envisaged.

The matter was noted by the ERPC.

3. Item 15.5 of MOM of SCM: Measures to control Short Circuit Level in Eastern Region

POWERGRID stated that due to accumulation of generation projects in Eastern Region and evolution of Regional Grid over the years, the Short Circuit levels (SCL) at 400 kV bus of various sub-stations has grown up to a high value. As more generation projects are being envisaged in coming years, it is likely that the Short Circuit levels of the sub-stations would exceed the permissible limits of existing switchgear capacity (i.e.40 kA) in near future.

Based on the system studies carried out by PGCIL to examine the short circuit levels at various substations of Eastern Region, PGCIL suggested measures to reduce SCLs below the permissible limits considering ongoing generation projects and transmission schemes corresponding to 2011-12 condition (with DVC generation projects).

Study results showed that short circuit levels at various 400kV substations are exceeding the permissible limit of 40kA at Maithon, Durgapur, Kahalgaon, Mathon-RB, Biharsharif Sub-stations. Step by step splitting arrangement was proposed for the following 400kV substations to contain the short circuit level below 40kA.

- Maithon
- Durgapur
- Kahalgaon
- Biharsharif

POWERGRID made a presentation explaining their study results. Accordingly, it was proposed to carry out splitting arrangement with tie line breaker for the following 400kV substations in Eastern Region to contain the short circuit level below 40kA.

- Maithon
- Durgapur
- Kahalgaon
- Biharshariff

The splitting arrangement at Kahalgaon generation switchyard would be carried out by NTPC.

The matter was deliberated and ERPC ratified SCM decisions.

ITEM NO.C4 : Establishment of 400 kV Rajarhat-Purnea 400 kV D/c line and 400/220 kV S/S at Rajarhat as system Strengthening in ER.

This scheme was approved by ERPC in its meeting held on 17.03.2011. The approved scheme envisaged SF6 circuit breakers for the substation at Rajarhat.

Subsequently, Powergrid encountered problem in acquiring the land at Rajarhat and a meeting was held at New Delhi on 10.06.2011 between Chief Engineer (SP & PA), CEA and Member Secretary, ERPC, wherein it was decided to adopt GIS for this substation. Copy of CEA's letter dated 10.06.2011 is enclosed at **Annexure-II**.

TCC may deliberate and recommend the ERPC to ratify this decision.

Deliberation in the TCC meeting

TCC recommended ERPC to ratify this decision. Further it also desired to adopt GIS for other sub-stations facing problems with land acquisition.

Deliberation in the ERPC meeting

Accepting the TCC recommendation, ERPC ratified the decision.

ITEM NO.C5: Land requirement for establishment of 400/220 KV S/S at Uttara under ERSS-III—Agenda submitted by Powergrid

ERPC approved the scheme in its 11th meeting dated 29.08.2009. POWERGRID has been given the responsibility for construction of 400/220KV S/S at Uttara in Odisha. POWERGRID had submitted application for pursuing the Administration for issue of notification under Sec. – IV. Meeting was held with Chief Secretary and Secretary (Energy), Govt. of Odisha regarding the land identify by POWERGRID ay Uttara. Consent for identified land for construction of 400/220KV Uttara S/S was accorded by concerned State officials.

Accordingly POWERGRID initiated the process of acquisition of land.

Meanwhile District Collector, Khurda has informed that the said land will not be available to POWERGRID due to the identification of said land for International Airport. POWERGRID now is in the process of identification of the fresh land for the said substation.

Powergrid may explain.

Deliberation in the TCC meeting

The issue was referred to ERPC for discussion.

Deliberation in the ERPC meeting

Powergrid informed that two numbers of sites as identified by OPTCL, need to be examined from their suitability and would revert back.

ITEM NO.C6: PROLONGED SHUT DOWN OF 400 kV MAITHON – JAMSHEDPUR LINE

In a special meeting held on 30.03.2011 at ERPC, the proposal of Powergrid to construct multi circuit towers over a stretch of 15 km in the wild life Dalma forest area to provide 400 kV Maithon-Jamshedpur and Mejia-Jamshedpur S/C lines in view of Right-of-Way constraints. Accordingly, shut down was availed one by one for 400 kV Durgapur-Jamshedpur S/C , 400kV Mejia-Jamshedpur S/c line after the contingency Plan drawn up by ERLDC, giving prior intimation to all concerned for smooth operation of the grid. The shut down of 400kV Maithon-Jamshedpur was availed by Powergrid on 10.05.2011 and would continue upto 30.06.2011.

The progress of the shut down was further reviewed at ERPC on 13.06.2011. After detailed deliberation, the shut down period was extended upto 10.08.2011, in view of multi utility involvement, difficult working conditions, rainy season etc. beyond the control. The work was already suffered 7 days due to “Bandh” and other reasons. Powergrid agreed to complete the construction of multi-circuit tower work by 10.08.2011.

Powergrid may inform the latest status.

Deliberation in the TCC meeting

Powergrid was requested to apprise the restoration status before ERPC.

Deliberation in the ERPC meeting

Powergrid has intimated that the construction of multi-circuit towers is likely to be completed by 10.08.2011 as per discussion held in the meeting in ERPC.

ITEM NO.C7: AGENDA SUBMITTED BY JSEB (Refer Annexure - III)

All agenda items from 7.1 to 7.6 as below were discussed and not referred to ERPC. However, decision of TCC is given for information.

- 7.1** *Stringing of second circuit of 220 kV Farakka- Lalmatia line and construction of one additional 220 kV bay both at Farakka & Lalmatia ends at JSEB cost.*

Deliberation in the TCC meeting

JSEB was advised to explore this scheme with ECL & PGCIL and go ahead with its implementation. Being a state scheme, ERPC approval is not required.

- 7.2** *Construction of 220 kV Tenughat-Govindpur(near Dhanbad)-Maithon(PGCIL)-Dumka D/C line at JSEB cost*

Deliberation in the TCC meeting

JSEB was advised to explore the scheme with ECL & PGCIL and go ahead with its implementation. Being a state scheme, ERPC approval is not required.

7.3 *Restoration of 220kV Tenughat-Biharsharif S/C line in Bihar Jurisdiction*

Deliberation in the TCC meeting

Already discussed under item no. B.2 (A)

7.4 *Construction of 400/220 kV Patratu S/S along with transmission line between Patratu and Ranchi (PGCIL) at 400 kV level*

Deliberation in the TCC meeting

JSEB may refer its proposal to Standing Committee for Planning in Eastern Region. SCM decision shall be ratified by ERPC.

7.5 *Allocation of 40 MW continuous power from Joda (OPTCL) S/s to Kendposi (JSEB) at 132 kV Level*

Deliberation in the TCC meeting

OPTCL confirmed that the 3rd ICT at Joda would be commissioned within 6 months and it is willing to meet JSEB demand.

JSEB was advised to enter into a commercial arrangement with OPTCL for it.

7.6 *Construction of 132 kV Baripada (PGCIL) -Noamundi (JSEB) trans. line*

Deliberation in the TCC meeting

OPTCL confirmed its willingness to spare these bays and sought JSEB to intimate the date by which these bays shall be required by it. JSEB shall respond in writing.

Deliberation in the ERPC meeting

ERPC noted TCC deliberations for item no.7.1 to 7.6.

ITEM NO.C8: HIGHLIGHTS OF GRID PERFORMANCE AND IMPORTANT EVENTS

Highlights and grid performance review for the period February to April'11 including important events are given at **Annexure -IV**.

ERLDC may give a brief presentation on grid performance.

Deliberation in the TCC meeting

ERLDC was requested to make the presentation before ERPC.

Deliberation in the ERPC meeting

ERLDC made a presentation.

ITEM NO. C9A: PAYMENT OF UI -- PRESENT STATUS

The status of UI payment for 2010-11 and 2011-12 as submitted by ERLDC is enclosed at **Annexure – VA & VB**. The details are tabulated below:

SL NO	PERIOD	BSEB		JSEB	
		PRINCIPAL	INTEREST (As on 31.05.2011)	PRINCIPAL	INTEREST (As on 31.05.2011)
1	2010 – 11	6.66 Cr	16.75 La	6.29 Cr	12.13 La
2	2011-12 (up to week – 8)	5.79 Cr	9.18 La	(-) 1.79 Cr	5.51 La
	TOTAL	12.44 Cr	25.93 La	4.51 Cr	17.64 La

In the last Commercial Sub-Committee meeting (16.06.2011), BSEB representative was not present. JSEB representative assured that they would liquidate their outstanding dues within a week.

BSEB and JSEB may intimate the latest status of liquidation of UI charges.

Deliberation in the TCC meeting

This issue was referred to ERPC.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO. C9B: RECONCILIATION OF UI POOL ACCOUNT

As intimated by ERLDC, the statement of reconciliation of UI Account for the period from April'10 to March'11 was sent to all constituents on 29.04.2011 for checking at their end and confirmation. WBSETCL, NTPC, NHPC, NERLDC & SRLDC has sent their confirmation. The above confirmation is yet to be received from other constituents.

In the last Commercial Sub-Committee meeting (16.06.2011), ERLDC informed that DVC has reconciled the UI account. All constituents informed that they would send their confirmation within a week. It was unanimously agreed that if confirmation was still pending from any constituents by 29.06.2011, it will be deemed to be taken as confirmed.

ERLDC may update the latest status.

Deliberation in the TCC meeting

This issue was referred to ERPC for discussion.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO. C9C: REACTIVE ENERGY CHARGES – PRESENT STATUS.

As per ERLDC, the updated position of Receipt/Payment of Reactive Energy Charges in the pool as on 31.05.2011 (considering bill up to 22.05.2011) is indicated in **Annexure – VI**. Out of this amount Rs. 2.26 Lac has been paid to POSOCO for further disbursement to M/S AREVA for imparting training to ER Constituents. The above amount is paid on 10.05.2011.

In the last Commercial-Sub-Committee meeting (16.06.2011), ERLDC informed the following:

- One training of SCADA EMS was completed.
- Second training is scheduled to be held from 20.06.2011.
- Training on “Black Start & Restoration Procedures” would be organised on 24.06.2011 jointly by ERLDC and ERPC.

ERLDC may like to inform the latest status.

Deliberation in the TCC meeting

GM, ERLDC informed that the workshop on “Black Start & Restoration Procedures” for Eastern Region was organised on 24.06.2011 jointly by ERLDC and ERPC. Since amounts totalling Rs. 1,74,998 has been advanced out of ERPC Fund for organising this workshop, TCC may recommend to ERPC for reimbursement of this expenditure from Reactive Pool Account to “ERPC Fund”.

TCC recommended to ERPC to concur with ERLDC proposal.

Deliberation in the ERPC meeting

ERPC concurred.

ITEM NO. C9D: TRANSFER OF UI (PRINCIPAL & BANK INTEREST) FROM ERLDC UI POOL ACCOUNT TO POWER SYSTEM DEVELOPMENT FUND (PSDF)

As submitted by ERLDC, an amount of Rs.2.02 Crores on account of capping and Rs. 2.04 Crores on account of surcharge for the year 2010 – 11 have been transferred to PSDF on 20.05.11. The status of fund transferred to PSDF so far is enclosed in **Annexure-VII**

This is for information to the members.

Deliberation in the TCC meeting

This issue was referred to ERPC for discussion.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.C10: ISSUES RAISED BY ERLDC

10A. NON RECEIPT OF SEM DATA

JSEB

Since 22.02.10, SEM readings from JSEB substations for JSEB tie lines are not being received at ERLDC. The matter had been discussed in various forum of TCC/ERPC wherein it was intimated by JSEB that they are taking expeditious action in this regard. Nothing has been done so far and entire computation is being done considering the meter readings of other ends.

JSEB is requested to look into the matter and ensure sending of data at ERLDC.

In the last Commercial Sub-Committee meeting (16.06.2011),

- JSEB informed that contract for collection and transfer of meter data to ERLDC has already been awarded.
- JSEB representative assured that ERLDC would start receiving data by the end of this month.

ERLDC may inform the latest status.

Deliberation in the TCC meeting

ERLDC informed that data is at present not available at their end, and requested JSEB to expedite the sending of data.

Deliberation in the ERPC meeting

JSEB was advised to ensure that data is received by ERLDC on time.

10B. METERING ARRANGEMENTS OF VARIOUS IPPs

MEJIA – B POWER STATION

In the 16th ERPC meeting it was decided that Mejia – B shall be considered as a separate control area and its scheduling shall be done by ERLDC as per the provisions of IEGC. ERLDC informed that the metering requirement of the power station has already been examined at their end and proposed metering scheme of Mejia - B has also been forwarded to DVC for further necessary action. It was informed to DVC by ERLDC that DVC/MEJIA shall interact with POWERGRID, ERTS-II for installation of additional meters (check and standby) the details of which are given in the diagram in **Annexure-VIII**.

One no. of SEM (as Check meter) each at Mejia-B end of both the 400 KV outgoing Feeders, 02 nos. of SEMs (as Standby) at EHV side of GTs, 02 nos.

of SEMs (as standby) at EHV side of Station transformer is required to be installed. Thus total 06 nos. of SEMs are required to be installed.

In the last Commercial Sub-Committee meeting (16.06.2011), DVC assured to provide the latest status of installation of meters in two days time.

DVC is requested to inform the latest status.

Deliberation in the TCC meeting

DVC informed that they have already written a letter to Powergrid.

Powergrid confirmed that they would complete the installation of meters by first/second week of July'11.

Deliberation in the ERPC meeting

ERPC noted.

10C. SEL (STERLITE ENERGY LIMITED)—also refer Item B.5

The metering requirement at Sterlite has been re-examined in a meeting with ERPC, ERLDC & SEL at Jharsuguda on 23.05.2011. It has been decided in the meeting that Special Energy meter should be installed on HV Side as well as LV Side of each ICT, CPP to Budhipadar connection at VAL end, which has to be arranged by SEL. Further 02 nos. of L&T make ABT meter is required to be installed on the VAL-Budhipadar feeder at Budhipadar end. Sterlite intimated that they are going to synchronise U # 3 by 3rd/4th week of May'2011. Therefore, for UI energy accounting purpose, 02 nos. of SEM are required to be installed (One SEM each at EHV side of GT & Station transformer). Thus total 08 nos. of SEMs are required to be installed at Sterlite.

The L&T make ABT meters shall be provided and installed by POWERGRID, ER-II. POWERGRID shall also arrange for 02 no DCDs to enable downloading of data from these meters. SEL shall arrange to send all the ABT meter readings on weekly basis (by every Monday) to ERLDC, through email. SEL will provide the switchyard SLD, protection & metering scheme details to SLDC/ERLDC/ERPC within a week.

In the last Commercial Sub-Committee Meeting (16.06.2011), SEL assured that the meters for Unit # 3 was in place and data will be available to ERLDC within a week.

ERLDC may apprise the latest status.

Deliberation in the TCC meeting

SEL informed that meters are in place. It was decided to withdraw the agenda.

10D. 66 KV RANGIT – RABANGLA LINE

During the last standing committee meeting approval was accorded for converting 66 KV Rangit –Melli line to (i) 66 KV Rangit – Rabangla line and

(ii) 66 KV Melli – Rabangla line. With the changed configuration the tie line now should be considered as 66 KV Rangit – Rabangla line instead of 66 KV Rangit –Melli line. Sikkim/Powergrid may initiate action of shifting of Melli end meter to Rabangla for 66 KV Rangit – Rabangla Line and Sikkim may arrange for sending of Rabangla end data for UI computation purpose.

The matter discussed in 16th Commercial Sub-Committee but no action has yet been taken.

In the last Commercial Sub-Committee Meeting (16.06.2011), PGCIL representative informed that they would sort out the matter in coordination with Sikkim.

PGCIL & SIKKIM may intimate the latest status.

Deliberation in the TCC meeting

Powergrid requested Sikkim to provide the CT/PT ratio at Ravangla so that they may initiate the process of shifting of meters.

Sikkim requested Powergrid to install new meter at Ravangla. The existing meter at Melli should not be relocated.

Deliberation in the ERPC meeting

ERPC noted.

10E. INSTALLATION OF METER AT PPSP

400 KV PPSP – Durgapur line was made LILO at Bidhannagar in WBSETCL. With this, the new Tie line became as 400 KV Bidhannagar- Durgapur. Special energy meter had already been installed at Durgapur, which is being used for accounting purpose. However at present there is no ABT meter installed at Bidhannagar end. As per CEA metering regulation 2006 and its amendments, one no. of SEM is required to be installed also at Bidhannagar end of Bidhannagar – Durgapur line and the same end data is required to be sent at ERLDC for UI computation purpose.

In the last Commercial Sub-Committee Meeting (16.06.2011), WBSEDCL informed that they would inform their counterpart of WBSETCL to take up the matter with PGCIL. WBSEDCL representative further assured that the matter would be sorted out before ensuing TCC/ERPC meetings.

ERLDC may update the latest status.

Deliberation in the TCC meeting

WBSEDCL, PGCIL and ERLDC will sort out this issue mutually and inform ERPC accordingly.

Deliberation in the ERPC meeting

WBSEDCL informed that they shall sort out this matter mutually.

10F. OPENING OF NEW ACCOUNT

Consequent to the formation of Power System Operation Corporation (POSOCO) as a wholly owned subsidiary company of POWERGRID, new bank accounts have been opened as detailed below in IDBI Bank, Specialised Corporate Branch, Kolkata.

Bank : IDBI Bank, Specialised Corporate Branch,
Kolkata
IFSC Code : IBKL0000135
Type of Account : Current Account
Bank Tel No. : 033 – 66338889/66337739
Bank Account Details :

Power System Operation Corporation Ltd.
– ERPC UI A/C : 0135103000005029
Power System Operation Corporation Ltd.
– ERPC Reactive A/C : 0135103000005043
Power System Operation Corporation Ltd
– ERPC IRE A/C : 0135103000005036
ERLDC Short-term Open Access A/C : 0135103000005012

Henceforth the payments are required to be made in the new accounts with immediate effect.

Members may kindly note and get it complied in their respective organizations.

Deliberation in the TCC meeting

TCC noted.

Deliberation in the ERPC meeting

ERPC noted.

10G. OPENING OF LC BY ER CONSTITUENTS FOR UI PAYMENTS

As per the Unscheduled Interchange charges and related matters (Amendment) Regulations, 2010 issued by CERC vide notification No. L-1(1)/2009-CERC dated 28th April, 2010 (effective from 03.05.10)

Quote

All regional entities which had at any time during the previous financial year failed to make payment of Unscheduled Interchange charges including Additional Unscheduled Interchange charges within the time specified in this regulations shall be required to open a Letter of Credit (LC) equal 110% of its average payable weekly UI liability in the previous

financial year, in favour of the concerned RLDC within a fortnight from the date these Regulations come into force.....

.....Provided further that LC amount shall be increased to 110% of the payable weekly liability in any week during the year, if it exceeds the previous LC amount by more than 50%.

Unquote

The LC amount to be opened by BSEB & JSEB is tabulated in **Annexure -IX**. ERLDC has already intimated the concerned constituents through individual letters.

In the last Commercial Sub-Committee Meeting (16.06.2011), it was decided to refer the issue to TCC for guidance.

BSEB and JSEB may inform their respective latest status.

Deliberation in the TCC meeting

This issue was referred to ERPC.

Deliberation in the ERPC meeting

BSEB and JSEB assured that they will take appropriate action in this regard.

10H. NON-RELEASE OF PAYMENT TOWARDS SERVICE CHARGES FOR MAINTENANCE OF EMS/ SCADA SYSTEM –FIFTH AND SIXTH QUARTERS’ BY FOLLOWING CONSTITUENTS:

LTSA(Long term Service Agreement) contract for EMS/SCADA system installed at all control centres (ERLDC ,WBSETCL, OPTCL, DVC, JSEB, BSEB & Sikkim) was awarded to M/s Areva India T & D Ltd. on 15th January 2010 by ERLDC. As per MOU between ERLDC and constituents, constituents have to pay advance quarterly charges for each quarter. During the 8th SCADA O & M meeting held at ERLDC, Kolkata on 25th Jan’11, ERLDC impressed upon the constituents to make quarterly payment of maintenance charges to ERLDC within stipulated time, in order to facilitate timely payment to M/s Areva. All the constituents except BSEB, OPTCL & Sikkim have paid the AMC charges so far. As on 01/06/2011 following are the dues against BSEB, OPTCL & Sikkim:

SIKKIM			
S.N.	Quarter	Bill Amount	Due Date
1	05(From : 18th Jan , 2011 To : 17th Apr , 2011)	49432	17.01.11
2	06 (From : 18th Apr, 2011 To : 17th Jul , 2011)	49432	17.04.11
		Rs. 98,864	
BSEB			
S.N.	Quarter	Bill Amount	Due Date
1	06 (From : 18th Apr, 2011 To : 17th Jul , 2011)	1486541	17.04.11
		Rs.14.86 Lacs	
OPTCL			
S.N.	Quarter	Bill Amount	Due Date
1	06 (From : 18th Apr, 2011 To : 17th Jul , 2011)	3785575	17.04.11
		Rs. 37.86 Lacs	

Total Outstanding amount is **Rs. 53.70 Lacs**

In the last Commercial Sub-Committee Meeting (16.06.2011),

- Sikkim representative assured that they will liquidate their dues within one month.
- OPTCL informed that the change over from ERLDC to POSOCO had caused some delay. They have taken up the matter and it would be sorted out soon and payments will be made within a month.

ERLDC may update the status of payments and concerned members may please respond.

Deliberation in the TCC meeting

This issue was referred to ERPC.

Deliberation in the ERPC meeting

BSEB, Sikkim and OPTCL assured that they will take appropriate action.

ITEM NO.C11:

11A. DECLARATION OF COD OF 400 KV D/C BIHARSHARRIF – KODARMA TL ASSOCIATED WITH START-UP POWER TO DVC.

POWERGRID has declared the COD of 400 KV D/C BIHARSHARRIF – KODARMA transmission line associated with start-up power to DVC with effect from 01.06.2011(Ref: PGCIL Letter ER-I/PT/EDO/951 dated 17.05.11).

In the last Commercial Sub-Committee Meeting (16.06.2011), Powergrid provided the requisite information which is attached in **Annexure-X**. Commercial Sub-committee members recommended to TCC for acceptance of COD of the above element.

TCC members may discuss and recommend to ERPC for acceptance.

Deliberation in the TCC meeting

TCC recommended to ERPC for approval of COD of this element.

Deliberation in the ERPC meeting

ERPC approved the COD of this element.

11B. DECLARATION OF COD OF 160 MVA 220/132 KV ICT-II AND ASSOCIATED 220KV & 132 KV BAYS AT BARIPADA.

In the meeting Powergrid informed that the above element has been declared commercial w.e.f. 01.04.2011 and requested members to recommend to TCC for acceptance of the same.

In the last Commercial Sub-Committee Meeting (16.06.2011), Powergrid provided the requisite information which is attached in **Annexure-X**. Commercial Sub-Committee members recommended to TCC for acceptance of COD of the above element.

TCC members may discuss and recommend to ERPC for acceptance.

Deliberation in the TCC meeting

Declaration of COD will be accepted by GRIDCO and ERPC will be informed in the next meeting.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.C12: SHARING OF ISTS CHARGES AND LOSSES----IDENTIFICATION OF NON-ISTS LINES CARRYING INTER -STATE POWER

In the last Commercial Sub-Committee meeting, SE (Commercial), ERPC, informed that as per latest order of CERC dated 04.04.2011 and minutes of 4th validation committee for the year 2011-12, only those lines would be considered whose transmission charges was being shared prior to 15.06.2010. Thus the consolidated list of non-ISTS ER lines carrying inter-state power sent by ERPC Sectt. was rejected by Implementing Agency.

Consequently, ERPC Secretariat has intimated NLDC that 220 KV Budhipadar Ckt-I&II should be included as per the new order.

For identification of non-ISTS lines for inclusion in the year 2012-13, ERPC Secretariat wrote to the constituents for submission of non-ISTS lines. In

response, Bihar and Gridco submitted the list. Response from the other constituents are awaited.

In the last Commercial Committee meeting, the remaining constituents were requested to furnish the list by 23.06.2011. To this, JSEB, WBSEDCL/WBSETCL, SIKKIM confirmed that they would submit a list of their lines carrying inter-state power by next Thursday (23.06.2011).

After deliberation it was decided that ERLDC would carry out system study to identify the non-ISTS lines for Eastern Region and make a presentation in the TCC meeting for deliberation and acceptance.

ERLDC may kindly give a presentation.

Deliberation in the TCC meeting

This issue was referred to ERPC.

Deliberation in the ERPC meeting

The members noted that the new transmission cost sharing methodology has been implemented w.e.f. 01.07.2011. Members expressed the view that even at this stage, there is no clarity regarding the PoC methods based on which new transmission charge/ losses sharing methodology has been implemented. The beneficiary constituents of the Eastern Region expressed that they would be extra burdened with this methodology, affecting their strained balance sheets.

Member (GO&D), CEA accepted that a meeting may be organised at ERPC HQ where Chief (Engg), CERC, Chief Engineer (SP&PA), CEA, CEO POSOCO, Executive Director (Comml), Powergrid may be present to clarify the points raised by the Eastern regional Constituents. Tentatively 7th July 2011 was fixed, which could not be adhered to due to preoccupancy of Members of ERPC with 'Power Minister's Conference scheduled for 13th July'.

The meeting has since been scheduled for 6th August 2011.

Regarding non-ISTS lines, it was decided that ERLDC will consider all the lines and furnish to ERPC secretariat a list of qualifying non-ISTS lines. That list may be taken as having been approved by ERPC.

ERPC authorized Member Secretary to intimate NLDC accordingly.

ITEM NO.C13:SOFTWARE FOR PREPARATION OF REGIONAL TRANSMISSION ACCOUNTS AS PER CERC (SHARING OF IST CHARGES & LOSSES) REGULATIONS, 2010

In the last Commercial Sub-Committee meeting, Mr Kumar Ravi, Managing Director of M/s CyBuzz SC familiarised the members with their RATS (Regional Account for Transmission System) software, which they have

developed to calculate monthly transmission account as per CERC (Sharing of IST Charges & Losses) Regulations, 2010.

He intimated that the price of the software for NRPC had been Rs.5 Lacs plus taxes.. The company offered a discount of 20% to ERPC for the above software provided no customisation is required.

CyBuzz SC was asked to furnish written confirmation of its offer.

TCC may recommend to ERPC for approval of the procurement of RATS software from M/s CyBuzz SC at a cost of approximately 4 Lacs plus taxes as applicable, by utilising the ERPC FUND.

Deliberation in the TCC meeting

TCC recommended to ERPC for approval of utilising the ERPC FUND.

Deliberation in the ERPC meeting

ERPC approved.

ITEM NO.C14:INCREASE IN POWER DEMAND IN BHUTAN DUE TO DEMAND FOR CONSTRUCTION POWER OF HYDRO PROJECTS— AGENDA BY PTC

- Bhutan exports surplus hydro power to India under power sale agreements between Deptt of Energy, Royal Govt. of Bhutan and PTCIL.
- Deptt of Energy, Bhutan has informed that their demand is increasing because of increase of consumption and to a large extent, due to increasing demand for construction power of 10 Mega Hydro Projects being constructed in Bhutan under the “10,000 MW Hydro Power capacity addition by 2020” agreed between Govt of India and Govt of Bhutan.
- This may lead to power shortage in the lean season from 2012 onwards.
- In order to meet the power demand, Bhutan has proposed to supply peaking power from its existing Hydro Power plants during India’s peak hours and import power during off-peak hours of India.
- Bhutan has further proposed that there should be no financial transaction and settlement should be on net energy basis.
- A detailed note as furnished by PTC is attached in **Annexure—XI**.

PTC may give a presentation on this issue.

Deliberation in the TCC meeting

PTC gave a presentation.

It was decided that the beneficiary constituents would study the proposal for further discussion in ERPC.

Deliberation in the ERPC meeting

PTC gave a presentation.

It was decided to convene a meeting at Delhi on 11th and 12th July 2011 for taking a rational position on this issue.

ADDITIONAL AGENDA

ITEM NO.C15: SPLITTING OF 400KV KAHALGAON STPS BUS BY NTPC

- 400kV bus splitting at Maithon, Durgapur, Kahalgaon, Maithon-RB, and Biharshariff Sub-stations was discussed in the Standing Committee held on 20.09.2010.
- NTPC would have to take up the work for their Kahalgaon power station to contain fault level.
- Provisions for incurring 60-70 Crores for the work, capital addition exists under CERC frame-work for capitalisation of associated expenditure and NTPC would suitably approach the competent authority.

In the 17th ERPC meeting,

“ NTPC expressed reservation on the proposed bus splitting of 400 kV Kahalgaon STPS on complex technical consideration at present (as it was not envisaged at the design stages). Further, there is no provision for taking up such capital works under existing CERC Regulation for thermal generating station.

However, ERPC expressed the concern of fault levels of Kahalgaon STPS and suggested NTPC to explore.”

NTPC may make a presentation.

Deliberation in the TCC meeting

NTPC stated that they have no ‘in-principle reservation’ in carrying out the same and are exploring the technical feasibility of making the arrangements. However, the present CERC Tariff Regulations do not provide for capitalisation of such expenditures after CoD. Therefore, an unqualified consent for capitalisation of the expenditure for this scheme and arrangement that the same shall be serviced by the beneficiaries through tariff of the station would need to be provided in the MoM for NTPC to take up the work, if found feasible

It was decided that further discussions would be taken up in the OCC.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.C16: ULDC SYSTEM- SIGNING OF MOU FOR AMC OF WIDEBAND COMMUNICATION AND AUXILIARY POWER SUPPLY SYSTEM

The issue was raised as an additional agenda by Powergrid.

Deliberation in the TCC meeting

JSEB and BSEB have assured for early signing of MOU.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.C17: SUB-STATION EQUIPMENT FOR DISASTER MANAGEMENT/ERS SUB-STATION

In the 15th TCC & ERPC meeting, procurement of one no 400 KV ERS Substation as a part of disaster management was approved.

Deliberation in the TCC meeting

Powergrid will inform ERPC tomorrow.

Deliberation in the ERPC meeting

Powergrid informed that they have filed petition with CERC on 22.03.2011. Queries raised by CERC have been last replied on 18.05.2011. Hearing is awaited.

SECRETARIAT ISSUES

ITEM NO.D1 ERPC-ESTABLISHMENT FUND FOR THE YEAR 2011-12

For the year 2011-12 contribution of Rs.14 lakh per member was approved by ERPC in its 17th meeting held on 17th March,2011. Members were requested send their contributions vide letter dated 25th April,2011.

So far, the following members have sent their contributions: APNRL, CESC, NHPC, NTPC, OPGC, POWERGRID, PTC, SEL, WBSETCL.

Other members are requested to sent their contributions to the Secretariat at an early date.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.D2 ERPC FUND FOR THE YEAR 2011-12

For the year 2011-12 contribution of Rs.1 lakh per member was approved by ERPC in its 17th meeting held on 17th March,2011. Members were requested send their contributions vide letter dated 25th April,2011.

So far, the following members have sent their contributions: APNRL, CESC, NHPC, NTPC, OPGC, POWERGRID, PTC, WBSETCL and SEL (Rs.50000/-).

Other members are requested to sent their contributions to the Secretariat at an early date.

Deliberation in the ERPC meeting

ERPC noted.

ITEM NO.D3 OUTSOURCING OF PERSONNEL FOR THE SECRETARIAT

In the 12th ERPC meeting held on 4th December,2009 the issue of shortage of manpower in the ERPC Secretariat was elaborated.

“ Member Secretary is authorised to get few jobs done by out-sourcing as an interim measure as and when needed. He shall use ‘ERPC Establishment Fund’ to get such out-sourced jobs done from time to time.”

Accordingly, Member Secretary has engaged persons in following two categories :

Category I : Data Entry Operator/ Assistant/ Accountant – Seven^{*} personnel via competitive bid route.

Date of floating/ opening of NIT : 18.12.2010 / 03.01.2011

Date of award of contract / average emoluments : 07.02.2011 / Rs.7947 per month

Name of the agency : M/s Panther Security Service

*Two retired staff of the Secretariat having experience in establishment matters have been engaged through the above contract.

Payment for these personnel is made out of the fund available under office expenditures.

Category II: Consultants - In view of acute shortage of officers, over a period of time the Member Secretary has also engaged four retired Executive Engineer of CEA as consultants who had long experience of working in ERPC/EREB. The consultants are engaged in various technical functions viz. REA, UI and Reactive Energy Accounts, drafting of CBR, drafting of proposals for R&M works etc. At present each consultant is paid Rs.15000/- per month out of ‘ERPC Fund’. So far an amount of Rs.4.65 lakh has been paid out of the ‘ERPC Fund’ (upto May’11).

ERPC may approve.

Deliberation in the ERPC meeting

ERPC approved.

FINALISATION OF NEXT MEETING

ITEM NO.E1: FINALISATION OF VENUE AND TENTATIVE DATE OF THE NEXT COMMITTEE MEETING

The roster approved in the 1st ERPC meeting is updated with the inclusion of IPPs as member/associate member and is given below :

Sl. No.	Host Organisation
1.	WEST BENGAL
2.	DVC
3.	NHPC
4.	POWERGRID
5.	SIKKIM
6.	PTC
7.	ORISSA
8.	JHARKHAND
9.	BIHAR
10.	NTPC
11.	CESC
12.	APNRL
13.	MPL
14.	STERLITE ENERGY LTD.

Now, it is the turn of Bihar to host the next meeting, for which Members may decide tentative date and venue.

Deliberation in the ERPC meeting

It was proposed to swap the turns of Bihar and NTPC for hosting the next meeting. NTPC and BSEB agreed to the proposal.

After deliberations, it was proposed to hold the next meeting at Lakshadweep on 29th & 30th September 2011.

NTPC agreed to confirm the venue shortly after assessment of feasibility of Lakshadweep.

The house empowered NTPC to consider Port Blair as 2nd option in the event Lakshadweep is not feasible.

Subsequently, in consultation with Chairperson, ERPC and on advice of NTPC (the host) the venue is changed to Goa and the dates are 23rd/24th September 2011.

Thereafter, the meeting ended with vote of thanks by JSEB.

LIST OF PARTICIPANTS IN THE 18TH ERPC MEETING

Date: 01.07.2011

Venue: Chanakya BNR Hotel, Ranchi

Name of the Constituent / Organisation	Sl. No.	Name S/Shri	Designation	Contact No.	E-mail ID
BIHAR BSEB	1.	P.K.Rai	Chairperson , ERPC & Chairman , BSEB	9470001757	pkrai@rediffmail.com
	2.	T.T. Jha	Member (Transmission)	9471000038	mem.trans.bseb@gmail.com
	3.	Rakesh	EEE / Interstate	9693937774	rakesh.bseb@gmail.com
WEST BENGAL A)WBSEDCL	4.	M. S. Pal	Chief Engineer (PTR)	9830955601	ceptr.wbsecl@gmail.com
	5.	P. Banerjee	Divisional Engineer	9432140765	Preetam72@gmail.com
	B) WBSETCL	6.	S. Nag	Director (Operation)	9051088140
7.		D. Chakraborty	Chief Engineer	9831093513	
8.		P. Saha	Chief Engineer (CPD)	9836043600	
C) WBPDCCL	9.	A. Karmakar	Supdt. Engineer	9433339597	cped@cal3.vsnl.net.in
	10.	Dr. K. GUPTA	Managing Director	9874674474	krishna.gupta@nic.in
	11.	R. Bose	Director (O & M)	9836162233	rbose@wbpdcl.co.in
D) CESC	12.	B. Chakraborty	Vice President (SO)	9831095597	
	13.	R. Chakraborty	Senior Manager	9831054619	rahulchakravarty@cesc.co.in
	JHARKHAND (A) JSEB	14.	S.N. Verma	Chairman	9431120503
15.		C.S. Gupta	Member (Technical)	9731708970	csguptacc@yahoo.co.in
16.		S.C. Misra	Chief Engineer (Comml)		
	17.	G. Shukla	Chief Engineer (Trans)	9431135530	gaya.shukla@yahoo.co.in
	18.	B.S. Jha	General Manager (SPS)	9431815670	bsjha@sify.com
	(B) TVNL	19.	A. Kumar	Managing Director	8757629740
20.		S.R. Singh	EEE	9431929187	shritvnl@rediffmail.com
21.		S.K. Choudhary	EEE	9430724198	Shailesh.ttps@yahoo.co.in
ORISSA (A) OPTCL	22.	Hemant Sharma	CMD, OPTCL & GRIDCO		
	23.	J.P. Das	Chief General Manager (Construction)	9437012391	jpgdasoptcl@yahoo.co.in
	24.	S.K. Das	General Manager (SLDC)	9437000261	s.santoshdas@rediffmail.com
(B) GRIDCO	25.	S.C. Mishra	Dy. Manager	9437178512	suresh1063@gmail.com
	26.	P.K. Pradhan	Director (Commercial)	9437125994	prasanta30@gmail.com
	27.	S.K. Mohanty	Manager (E)	9737307920	
(C) OHPC	28.	S. Khatua	Managing Director	9438003000	Skhatua61@gmail.com
	29.	D.K. Sahoo	Sr. General Manager(EI)	9437562226	dks51159@gmail.com
(D) Special Invitee	30.	A.C. Mallick	Ex-Director (Commercial), GRIDCO	9437012395	alokhmallick@gmail.com
GOVT. OF SIKKIM	31.	R.P. Gurung	Supdt. Engineer , Energy & Power Dept.	9434750149	
	32.	H.B. Pradhan	Executive Engineer, E&P Dept.	9434030676	
DVC	33.	R.N. Sen	Chairman		chairman@dvc.Gov.in
	34.	M.K. Bandyopadhyay	Director (Commercial)	9903985130	maloybanerjee5@gmail.com
	35.	P.K.Choudhary	Chief Engineer (Comml)	9831954292	pkkolkata@hotmail.com
	36.	A. Nayak	Chief Engineer (CLD)	9434064682	amitava.nayak @dvc.gov.in
	37.	A.K. Jain	Chief Engineer (PSR)	9432221049	akjain.dvc@gmail.com
	CEA	38.	K.K. Agrawal	Member (GO & D)	9868804534
39.		Dr. Jaipal Singh	Member (E & C)	9958182605	jaipalsingh.cea@nic.in
40.		K.P. Singh	Chief Engineer (O & M)	9868161010	kpsingh52@hotmail.com
	41.	Alok Saxena	Director (OM)		
	42.	A. Parvej	Dy. Director	9560014816	anzum_bce@yahoo.co.uk
	NHPC	43.	M.S. Babu	Executive Director (Commercial)	9910352345
44.		N. Ram	Chief Engineer (Comml.)	8527072777	nikkaram2007@rediffmail.com
	45.	D.K. Ray	General Manager (O & M)	9910227850	dkray2004@yahoo.co.in

POWERGRID	46.	S. Sen	Executive Director (O&M), ER-II	9434740003	siddhisen@gmail.com
	47.	B. Sharma	General Manager I/C (ER-I)	9771496900	bsharma@powergridindia.com
	48.	P. Sharma	General Manager (Comml)	9910378002	prashant@powergridindia.com
	49.	R.V.S. Kushwaha	Addl. General Manager (O &M)	9431031606	ruskush@rediffmail.com
	50.	K. Sarkar	Addl. General Manager (OS), CC	9711435904	ksarkar@powergridindia.com
	51.	A. M. Pavgi	Addl. General Manager (Engg., SEF)	9910378086	apavgi@powergridindia.com
	52.	N.K. Ohdar	Addl. General Manager	9434740022	nkodhar@yahoo.co.in
	53.	A.K. Varma	Dy. General Manager (Comml)	9431815669	akverma@powergridindia.com
	54.	S.K. Singh	Chief Manager (OS)/ ER-II	9434740009	sksinghpg@yahoo.co.in
	NTPC	55.	U.P. Pani	Regional Executive Director (ER-I)	9470001650
56.		V.K. Padha	General Manager (Comml.), CC	9868391617	vkpadha@ntpc.co.in
57.		R.K. Pal	General Manager (OS), ER-II HQ	9438233206	rkipal@ntpc.co.in
58.		A.K. Tiwary	Addl. General Manager (OS/FM), ER-I HQ	9431600707	aktiwary@ntpc.co.in
59.		K.K. Sinha	Addl. General Manager(Comml), ER-I HQ	9431011265	kksinha.02@ntpc.co.in
	60.	D. Kar	Sr. Manager (Comml.), CC	9650990401	debabratarak@ntpc.co.in
ERLDC	61.	P. Pentayya	General Manager, ERLDC	9432669226	ppentayya@gmail.com
	62.	P. Mukhopadhyay	Dy. General Manager	9433041810	
	63.	G. Mitra	Dy. General Manager	9433041811	
	64.	S. Banerjee	Chief Manager	9433041823	
	65.	S. Konar	Manager	9433041854	
PTC	66.	Deepak Amitabh	Director (Finance)		
	67.	H. Saran	Sr. Vice President	9810394429	harishsaran@ptcindia.com
APNRL	68.	S.B. Agrawal	Chief Executive Officer(Power)	9007098190	abagarwal@adhunikgroup.co.in
SEL	69.	C.N. Singh	Sr. Vice President	9777451669	singhcn@gmail.com
	70.	M. Rastogi	Associate Vice President	9937555543	manoj.rastogi@vedanta.co.in
	71.	M. Panda	Associate General Manager	9777457222	manoj.panda@vedanta.co.in
BHUTAN	72.	Yashi Wangdi	Director General, Dept. of Energy	97517640974	ywangdi@druknet.bt
	73.	D.C. Rinzin	Managing Director, DGPC	9752336341	md@drukgreen.com
	74.	Kencho Dorji	Head, Tala	97517118828	ce.thp@drukgreen.com
	75.	K.Tswewang	Executive Engineer	9752324734	pcd.doc@gmail.com
	76.	U.D.Dahal	Manager	97577101322	ujjwaldahal@bpc.in
NERPC	77.	B.K. Jain	Member Secretary	9436706436	bkjain1952@yahoo.co.in
ERPC	78.	A.K. Rampal	Member Secretary	9432012412	mserpc@gmail.com
	79.	A.K. Bandyopadhyay	Superintending Engineer	9433068533	
	80.	J. Bandyopadhyay	Superintending Engineer	9432326351	
	81.	B. Sarkhel	Superintending Engineer	9433065724	
	82.	S.P. Datta	Dy. General Manager	9433067022	spdatta@rediffmail.com
	83.	G. Ghosh	Executive Engineer	9051221331	
	84.	S.M. Jha	Executive Engineer	9748216566	erpcjha@yahoo.co.in
	85.	S. Paul	Executive Engineer	9874919946	subhro@engineer.com

LIST OF PARTICIPANTS IN THE 18TH TCC MEETING

Date: 30.06.2011

Venue: Chanakya BNR Hotel, Ranchi

Name of the Constituent / Organisation	Sl. No.	Name S/Shri	Designation	Contact No.	E-mail ID
BIHAR BSEB	1.	T.T. Jha	Chairperson , TCC & Member (Trans), BSEB	947100038	mem.trans.bseb@gmail.com
	2.	Rakesh	EEE /Interstate	9693937774	rakesh.bseb@gmail.com
WEST BENGAL A)WBSEDCL	3.	M. S. Pal	Chief Engineer (PTR)	9830955601	ceptr.wbsedcl@gmail.com
	4.	P. Banerjee	Divisional Engineer (E)	9432140765	preetam72@gmail.com
B) WBSETCL	5.	S. Nag	Director (Operation)	9051088140	snag1953@rediffmail.com
	6.	D. Chakraborty	Chief Engineer	9831093513	
	7.	P. Saha	Chief Engineer (CPD)	9836043600	
	8.	A. Karmakar	Supdt. Engineer	9433339597	cped@cal3.vsnl.net.in
C) WBPDCCL	9.	R. Bose	Director (O & M)	9836162233	rbose@wbpdcl.co.in
D) CESC	10.	B. Chakraborty	Vice President (SO)	9831095597	
	11.	R. Chakraborty	Senior Manager	9831054619	rahulchakravarty@cesc.co.in
JHARKHAND (A) JSEB	12.	C.S. Gupta	Member (Technical)	9731708970	csguptacc@yahoo.co.in
	13.	C.D. Kumar	Engineer-in-Chief		
	14.	S.C. Misra	Chief Engineer (Comml)		
	15.	B.S. Jha	General Manager (SPS)	9431815670	bsjha@sify.com
(B)TVNL	16.	A. Kumar	Managing Director	8757629740	akntpc@gmail.com
	17.	R. Sahu	General Manager	9431929193	ramawatar.s@rediffmail.com
	18.	S.R. Singh	EEE	9431929187	shritvnl@rediffmail.com
	19.	S.K.Choudhary	EEE	9430724198	shailesh.ttps@yahoo.co.in
ORISSA (A) OPTCL	20.	J.P. Das	Chief General Manager (Construction)	9437012391	jpgdasoptcl@yahoo.co.in
	21.	S.K. Das	General Manager (SLDC)	9437000261	s.santoshdas@rediffmail.com
	22.	S.C. Mishra	Dy. Manager	9437178512	suresh1063@gmail.com
(B) GRIDCO	23.	P.K. Pradhan	Director (Commercial)	9437125994	prasanta30@gmail.com
	24.	S.K. Mohanty	Manager (E)	9737307920	
(C) OHPC	25.	D.K. Sahoo	Sr. General Manager(EI)	9437562226	dks51157@gmail.com
GOVT. OF SIKKIM	26.	R.P.Gurung	Supdt. Engineer	9434750149	
	27.	H.B. Pradhan	Executive Engineer	9434030676	
DVC	28.	M.K. Bandyopadhyay	Director(Commercial)	9903985130	maloybanerjee5@gmail.com
	29.	A. Nayak	Chief Engineer (CLD)	9434064682	amitava.nayak@dvc.gov.in
	30.	P.K. Choudhary	Chief Engineer (Commercial)	9831954292	pkkolkata@hotmail.com
	31.	A.K. Jain	Chief Engineer (PSR)	9432221049	akjain.dvc@gmail.com
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	33.	N. Ram	Chief Engineer (Comml.)	8527072777	nikkaram2007@rediffmail.com
NHPC	34.	D.K.Ray	General Manager (O & M)	9910227850	dkray2004@yahoo.co.in
	35.	S. Sen	Executive Director (O&M), ER-II	9434740003	siddhisen@gmail.com
POWERGRID	36.	B. Sharma	General Manager I/C (ER-I)	9771496900	bsharma@powergridindia.com
	37.	P. Sharma	General Manager (Comml)	9910378002	prashant@powergridindia.com
	38.	R.V.S. Kushwaha	Addl. General Manager (O &M)	9431031606	ruskush@rediffmail.com
	39.	K. Sarkar	Addl. General Manager (OS)	9711435904	ksarkar@powergridindia.com
	40.	A.M. Pavgi	Addl. General Manager (SEF-Engg)	9910378086	apavgi@powergridindia.com
	41.	N.K.Ohdar	Addl. General Manager	9434740022	nkodhar@yahoo.co.in
	42.	A.K. Varma	Dy. General Manager (Comml)	9431815669	akverma@powergridindia.com
	43.	S.K. Singh	Chief Manager (OS)/ ER-II	9434740009	sksinghpg@yahoo.co.in

NTPC	44.	V.K. Padha	General Manager (Comml.), CC	9868391617	vkpadha@ntpc.co.in
	45.	R.K. Pal	General Manager (OS), ER-II	9438233206	rkpal@ntpc.co.in
	46.	A.K. Tiwary	Addl. General Manager (OS/FM)	9431600707	aktiwary@ntpc.co.in
	47.	A. Sen	Addl. General Manager (Engg), CC	9650992601	aksen@ntpceoc.co.in
	48.	K.K. Sinha	Addl. General Manager(Comml)	9431011265	kksinha.02@ntpc.co.in
	49.	T.K. Konar	Dy. General Manager (Comml.)		
ERLDC	50.	D. Kar	Sr. Manager (Comml.), CC	9650990401	debratakar@ntpc.co.in
	51.	P. Pentayya	General Manager	9432669226	ppentayya@gmail.com
	52.	P. Mukhopadhyay	Dy. General Manager	9433041810	
	53.	G.Mitra	Dy. General Manager	9433041811	
	54.	S. Banerjee	Chief Manager	9433041823	
55.	S. Konar	Manager			
PTC	56.	H. Saran	Sr. Vice President		
APNRL	57.	S.B. Agrawal	Chief Executive Officer(Power)	9007098190	abagarwal@adhunikgroup.co.in
SEL	58.	C.N. Singh	Sr. Vice President	0977745669	Chabinath.singh@vedanta.co.in
	59.	M. Rastogi	Associate Vice President	9937555543	manoj.rastogi@vedanta.co.in
	60.	M. Panda	Associate General Manager	9777457222	manoj.panda@vedanta.co.in
BPC	61.	Kencho Dorji	Head, Tala HEP	97517118828	ce.thp@drukgreen.com
	62.	K.Tswewang	Executive Engineer, DoE	9752324734	pcd.doc@gmail.com
	63.	U.D.Dahal	Manager, BPC	97577101322	ujjwaldahal@bpc.in
ERPC	64.	A.K. Rampal	Member Secretary	9432012412	mserpc@gmail.com
	65.	A.K. Bandyopadhyay	Superintending Engineer	9433068533	
	66.	J. Bandyopadhyay	Superintending Engineer	9432326351	
	67.	B. Sarkhel	Superintending Engineer	9433065724	
	68.	S.P. Datta	Dy. General Manager	9433067022	spdatta@rediffmail.com
	69.	G. Ghosh	Executive Engineer	9051221331	
	70.	S.M. Jha	Executive Engineer	9748216566	erpcjha@yahoo.co.in
	71.	S. Paul	Executive Engineer	9874919946	subhro@engineer.com

ADDRESS OF SHRI P.K. RAI CHAIRPERSON, ERPC & CHAIRMAN, BSEB ON THE OCCASION OF 18TH ERPC MEETING ON 1ST JULY,2011 AT RANCHI

Good Morning. Shri S.N. Verma, Chairman-JSEB, our distinguished guests from Bhutan Mr. Yeshe Wangdi, Director General, Department of Energy and Mr. D.C. Rinzin, Managing Director-Druk Green Power Corporation, Shri K.K. Agrawal, Member(GO&D)-CEA, Dr. Jaipal Singh, Member(E&C)-CEA, Shri Hemant Sharma, CMD-OPTCL & GRIDCO, Dr. Krishna Gupta, Managing Director-WBPDCL, Shri R.N. Sen, Chairman-DVC, Shri Deepak Amitabh, Director-PTC, Shri S. Khatua, Managing Director-OHPC, Shri P. Pentayya, General Manager-ERLDC, Shri U. P. Pani, Regional Executive Director-NTPC, Shri S.B. Agrawal, Chief Executive Officer(Power)-Adhunik Power, Shri Anil Kumar, Managing Director-TVNL, Shri M.S. Babu, Executive Director-NHPC, Shri S. Sen, Executive Director-POWERGRID, Shri C.N. Singh, Senior Vice President-SEL, Shri K.P. Singh, Chief Engineer-CEA, Shri B.K. Jain, Member Secretary-NERPC, Shri A.K. Rampal, Member Secretary-ERPC, special invitees, members of TCC and other participants, it is my privilege to welcome you all to the 18th ERPC meeting being held at Ranchi under the aegis of JSEB.

I thank Chairman-JSEB and the entire JSEB team for excellent arrangement for the meeting. This is my first meeting as Chairperson-ERPC and I look forward to cooperation of all members and their advice for effective discharge of my responsibilities. My predecessor Shri M.K. De, Principal Secretary (Power), Govt. of West Bengal has set a very high standard on managing the affairs of ERPC. I would also like to put it on record the valuable contribution of Shri De as a member of ERPC since its inception. With the cooperation of all, I shall strive to bring in synergy in the affairs of ERPC with a view to resolve various issues through consensus.

The last ERPC meeting was held on 17th March, 2011 at Jaipur. We are meeting after about 3½ months to discuss many operational, commercial and policy matters. I look forward to the valued opinions of members on the issues placed before the Committee for deliberations and decisions.

The performance of the grid during the period February'11 to May'11 was satisfactory. The grid frequency remained within the IEGC recommended band of 49.5 Hz to 50.2 Hz for about 92% of time. The regional energy consumption increased by 3% and peak demand by 5 % on Year-on-Year basis. The peak demand recorded 12879 MW on 10th May,2011. During this period the average net export from Eastern Region to other regions was 963 MU per month, a reduction of about 14% on Year-on-Year basis. The reduction in export can be attributed to increase in demand in Eastern Region with no perceptible increase in generation.

I would like to draw the attention of members on few issues which may come up for discussion today :

1. The proposed reduction in power vis-à-vis energy availability from the power stations in Bhutan viz. Tala, Chukha & Kurichhu w.e.f. January'12 is also an important issue which needs to be deliberated in detail. The States in ER have to study its impact in the coming years.
2. Arrangement for adequate coal for Farakka and Kahalgaon STPS of NTPC. The States in Eastern Region in general are heavily dependent on the generations from these two power stations. Bihar in particular is totally dependent on central sector generation. NTPC may apprise its plan to sustain generation.
3. BSEB is facing high voltage problems at their 220 kV Biharshariff, Bodhgaya and Begusarai sub-stations due to high voltage at 400 kV Biharshariff sub-station of Powergrid. The matter was to be discussed by TCC yesterday. I hope TCC has come out with a solution to the problem and placed its observation and recommendation before the ERPC.
4. Conversion of presently operated at 220 kV Tenughat-Biharshariff line into 400 kV may be accorded top priority for two unit operation of Tenughat TPS and grid stability.

5. Power from many new power stations in ER viz. SEL at Jharsuguda, MPL at Maithon, Mejia'B' at Mejia is mostly tied up constituents outside Eastern Region while the States of our Region are starving. West Bengal has tied up some power from MPL. Some other States in ER also could have been interested in taking power from these power stations had there been prior information in ERPC forum. In future, the member(s) from the State where power plants would be coming up, may place prior information before ERPC.

Before concluding, I once again thank Chairman, JSEB and his team and wish the meeting a grand success.

Thank you.

Changes made in draft CBR

Para 1.5

Add

These rules shall be reviewed at the end of every 3 years.

Para 2.1 (c)

Delete

~~‘Associate Member’ means member opted by ERPC by its own resolution.~~

Para 5.7.1

Modify

As per GoI Resolution, CEA shall provide the officers and staff to man the Secretariat. However, as and when CEA is unable to depute the requisite number of Group “A” or Group “B” Officers, the vacant posts other than Member Secretary, shall be got filled up by drawing officers from constituents on ~~formal/ informal~~ deputation basis or otherwise, upto the day CEA provides the officers. For this purpose, ERPC shall make regulations determining the terms and conditions of its officers. Until this regulation comes into force, the terms and conditions of the parent organisations shall apply.

Para 6

Modify

- 6.1 ERLDC (POSOCO) shall provide upto three computer terminals at ERPC Secretariat, conforming to the same specifications and technology as has been adopted by ERLDC for itself, to have a view of all the parameters in real time frame of Regional grid system. ERLDC shall get it maintained. ~~and bear the Expenditure related with~~ to it shall be incurred from ERPC Fund.
- 6.2 ERLDC (POSOCO) shall provide Video Conference Facility at ERPC Secretariat premises, as and when SLDCs of the region are provided with this facility. ERLDC shall get it installed and maintained. ~~and shall bear the expenditure related with it.~~ *The expenditure related to it shall be incurred from ERPC Fund.*

Para 7

Modify

Website of ERPC

The ERPC shall have its own website which shall be got maintained by ERPC Secretariat. *The expenditure related to it shall be incurred from ERPC Fund.*

Para 8

Modify

All the decisions shall be taken during a meeting of the constituent members called “ERPC Meeting”. It shall evolve a consensus on all issues relating to economy and efficiency in the operation of power system in the region in line with the para 6(8) of the GoI Resolution. ~~For other issues, efforts shall be made to evolve decision by consensus, failing which decision shall be taken by majority.~~ Chapter-III deals with the procedure for conducting all such meetings.

Para 12.2

Modify

Member Secretary, ERPC on its own or a matter referred by CEA/GOI or on a matter proposed by any constituents may convene a meeting on short notice on any urgent matter in consultation with Chairperson, ERPC. The decision of Member Secretary and Chairperson with regard to degree of urgency shall be binding on all parties concerned.

Para 18.1

Modify

All decisions in the ERPC shall be taken by consensus on all issues relating to economy and efficiency in the operation of power system in the region. ~~For other issues, efforts shall be made to evolve decision by consensus, failing which decision shall be taken by majority.~~

Para 22.6

Modify

All constituents will host jointly the remaining ‘Sub-Committee Meetings’ at ERPC HQ and incur the expenditure related with it *out of ERPC Fund.*

Para 30

Delete

~~Expenses related to maintenance and upkeepment of Conference Room at the Secretariat shall be met out of the “ERPC Fund” mentioned in para (28) above.~~

Para 31

Delete

~~Expenses related to maintenance and upkeepment of Guest House at the Secretariat shall be met out of the “ERPC Fund” mentioned in para (28) above.~~

Para 37

Delete

~~Associate Members~~

~~Any utility, not eligible to be permanent member or member by rotation as per GoI Resolution, but willing to become a member of ERPC may apply for Associate Membership of ERPC. ERPC through its own resolution may accept the Utility as Associate Member.~~

ERPC ESTABLISHMENT FUNDSTATEMENT OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE PERIOD FROM APRIL, 2010 TO MARCH, 2011

Receipts	Amount (Rs.)	Payments	Amount (Rs.)
To Opening Balance	3,76,04,324	By Reimbursement of expenditure to Govt. account for the period from April 2009 to March 2010.	2,39,00,850
~ Contribution received (2010-11) from the different Constituents.	3,08,00,000	~ Reimbursement of expenditure to the Govt. account for the period from April 2010 to Sept. 2010	1,03,50,173
		~ Reimbursement of expenditure to the Govt. account for the period from Oct. 2010 to Dec. 2010	48,44,432
		~ Closing Balance	2,93,08,869
	6,84,04,324		6,84,04,324

ERPC FUNDSTATEMENT OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE PERIOD FROM APRIL, 2010 TO MARCH, 2011

Receipts		Rs.	Payments		Rs.
To	<u>OPENING BALANCE</u>	12,84,360	By	Expenditure towards meeting / Workshop	4,86,237
	Cash in Hand 10,102.00				
	Cash at Bank <u>12,74,258.00</u>				
			~	Publication / Printing works	65,105
~	Contribution received	11,00,000	~	Honorarium for outsourcing of services for Technical & Non-Technical works	5,98,677
	- 2010-11 10,50,000				
	- 2011-12 <u>50,000</u>				
~	Refund of Advance	29,316	~	Routine Petty Expenses	75,221
~	Interest received from Bank	51,276	~	Advances	2,500
			~	Purchase of Stationary / Consumable items	11,978
			~	Bank Charges	150
			~	<u>CLOSING BALANCE</u>	
				Cash in Hand 4,294.00	
				Cash at Bank * <u>12,20,790.00</u>	12,25,084
		<u>24,64,952</u>			<u>24,64,952</u>

* Cash at Bank includes Rs.6,91,585.00 on account of Contribution for PSS Tuning work.

RENOVATION AND MODERNISATION OF ERPC OFFICE BUILDING

1

- ERPC office building is around 30 years old.
- It is in urgent need of major repairs. Further with passage of time nature and volume of job etc. have undergone sea change.

2

To keep pace with time ERPC building needs:

- Major architectural renovation
- Improvement in conference hall(s) with appropriate PA system
- Modern security system
- Fire fighting system
- State of art IT system etc.

3

- ERPC staff quarters located in the vicinity of the office complex also need major R&M.

Type	Accom	No	Allot- ted	Vacant
B	1 BR	20	1	19
C	1BR	20	7	13 *
D	2 BR	16	9	7 **
E	Dup	2	0	2

- Latest position of staff quarters is :

* 1 No C-Type Quarter
Converted to Guest House
** 2 Nos. D-Type Quarter
Converted to Guest House

4

Most of the vacant quarters are proposed to be changed into guest house to:

- Accommodate participants in the meeting(s)
- Arrange residential training programme (DRUM)

(During the visit of Chief Engineer (HR),CEA, CESC had shown its Training Institute and apprised him that it was willing to take up ADB funded training programme but was constrained by residential premises)

5

- WRPC and NRPC have already taken up R & M work on deposit basis through POWERGRID and NTPC respectively at estimated cost of Rs. 7.5 crore and Rs. 3.3 crore.
- Both of them are in the advanced stage of completion.
- NTPC have suggested POWERGRID may take up this R&M work.

6

- Preliminary assessment of R &M:
about Rs.6 crore :
 - Quarters—Rs. 1 Crore
 - Office Building:
 - 3 floors (ERPC Sectt.) - Rs. 3 Crore
 - 2 Floors(ERLDC & Powergrid)-Rs. 2 Crore
- Two ways of sharing this cost (Option A and Option B) are explored

7

OPTION - A

- The liability on ERPC constituents:

Rs.4.0 crore.(Around Rs.18 lakh per Constituent)

8

OPTION - B

- Total amount to be spent by regular members (22 members @ Rs.18 lakh)
- Annuity of Rs. 'X' lakh for a term of 20 years @ 12% p.a. interest.
- Annuity 'X' to be apportioned to all constituents in that year.
- The amount recovered from new members to be divided among the contributing members.

9

ERPC may please discuss and decide

- POWERGRID may be given go ahead
- The preliminary works: Hiring the Architect, development of the plan(s) etc. to be completed by monsoon.
- Work to commence after monsoon.
- To convey willingness of ERPC to get the building renovated on self financing basis. The detailed plan and progress report shall be sent to CEA regularly.

10

- A Sub-Committee may be constituted consisting of 3 persons (other than POWERGRID) to oversee.
- The progress will be placed before ERPC regularly.

11

Thank You

12

AGENDA SUBMITTED BY JSEB**7.1 Stringing of second circuit of 220 kV Farakka- Lalmatia line and construction of one additional 220 kV bay both at Farakka & Lalmatia ends at JSEB cost.**

The transmission network in Santhal Pargana is very weak and JSEB is unable to meet the power requirement of this region specially Dumka, the second capital of Jharkhand due to limited incoming source of power. At present the following quantum of power is fed for this area:

i) DVC – Maithon	-	40 MW
ii) BSEB – Sultanganj	-	20-30MW
iii) Farakka – Lalmatia (at 220kv) and Kahalgaon – Lalmatia	-	40 MW

Thus the available power is only 90 – 100MW whereas demand in the area has gone upto 200MW. There is no other source of JSEB either readily available or expected within one year at present and the expected load will be around 600 MW during end of 12th Plan.

As such one option is to string a 220kV 3 phase line from Farakka to Lalmatia on the same tower of ECL on which 220kV 3 phase D/C line presently singly strung may be utilized to feed power from Farakka to Santhal Pargana region through Lalmatia. Thus JSEB intends for stringing of second circuit of 220kV line from Farakka to Lalmatia and constructing one additional 220kV bay in the switchyard at Farakka STPS at JSEB cost.

7.2 Construction of 220 kV Tenughat-Govindpur(near Dhanbad) - Maithon(PGCIL) -Dumka D/C line at JSEB cost

JSEB is going to construct 220/132/33 kV Grid Sub-Station at Govindpur near Dhanbad by connecting the grid at 220 kV from Tenughat TPS. 220kv.3 phase D/C transmission line from Govindpur to Rupnarayanpur (PGCIL) is envisaged to be constructed. As such further two nos. of 220kV bays are required for Rupnarayanpur – Dumka transmission line at Rupnarayanpur on JSEB cost.

Further, earlier 02(Two) no bays at Rupnarayanpur(PGCIL) were earmarked for JSEB. This has been transferred to DVC. 02 no bays at 220kV level for transmission lines at 220 kV level from Dumka may be allotted for more power in this region.

7.3 Restoration of 220kV Tenughat-Biharshariff S/C line in Bihar Jurisdiction

05(Five) nos. towers of 220kV Tenughat – Biharshariff Transmission line have fallen on 19.05.2011. Due to above reason, one unit of TTPS is under forced shut down due to evacuation constraints. JSEB is forced to resort to continuous load shedding in its area. BSEB may kindly be requested to restore the above transmission line at the earliest.

7.4 Construction of 400/220 kV Patratu S/S along with transmission line between Patratu and Ranchi (PGCIL) at 400 kV level

Demand of power in Ranchi, the capital city of Jharkhand and its adjoining areas is growing day by day. Conversion of 220 kV Tenughat- Biharshariff transmission line to 400 kV level is also to be done. Work at Biharshariff end is also in progress. Some IPPs like Abhijit Group, Essar are also coming and capacity addition at PTPS and TTPS are also on card. Keeping in view the above factors, 400/220 kV, G/S/S and transmission lines for evacuation of power are essential. Sufficient land at Patratu is available for construction of 02 (Two) nos. bays at PGCIL, Ranchi at 400 kV level may kindly be granted for power evacuation.

7.5 Allocation of 40 MW continuous power from Joda (OPTCL) S/s to Kendposi (JSEB) at 132 kV Level

JSEB supplies power to its valued customer like South Eastern Railways, TISCO, SAIL in Jamshedpur and adjoining areas through its G/S/S. In case of disturbance at G/S/S at Chandil, Power flow to Rajkharsawan also gets affected thereby supply to traction substations and SAIL TISCO gets affected.

2x20MVA, 132/33 G/S/S at Kendposi is connected at 132kV level with Joda (GRIDCO)/OPTCL). If 40 MW load allocation is provided to JSEB from Joda, the power through this alternative source can be utilized to meet at least the demand of Railways in the adjoining areas.

7.6 Construction of 132 kV Baripada (PGCIL) -Noamundi (JSEB) transmission Line

Power demand in the area of West Singhbhum (Gua, Kiruburu, Chiria etc.) of Jharkhand is to go up from present 50 MW to 200 MW in 2014-15. To meet this power demand the only option with us is to construct 132kV D/C transmission line from Baripada (GRIDCO) to Noamundi, JSEB Grid sub-Station.

It may be mentioned that two nos. of 132kV bays were earmarked for JSEB at Baripada Grid sub-station. The matter has also been taken up in the ERPC meeting at Kolkata on 29.04.2011 with an assurance from OPTCL authorities to spare two nos. of required 132kV bays for JSEB.

HIGHLIGHTS & GRID PERFORMANCE FOR THE PERIOD FROM FEBRUARY TO APRIL, 2011

FREQUENCY :

Frequency profile for the months of February to April'11 is shown below:

Months	% of time of the month frequency remained			Average Frequency (Hz)
	<49.5 Hz	49.5 to 50.2 Hz (IEGC Band)	> 50.2 Hz	
February'11	4.49	89.89	5.62	50.02
March'11	3.41	94.22	2.37	49.95
April'11	6.88	91.73	1.39	49.86
May'11	3.17	92.11	4.72	49.92

From the above table it may be observed that:

- Frequency profile in the IEGC band (i.e. 49.5 to 50.2Hz) remained in between 89.89 % to 94.22 % of time during the above months. The average frequency for these four months remained in between 49.86 Hz to 50.02 Hz.

2. PERFORMANCE REVIEW (YoY COMPARISON)

Description	Average (MW) / Month			May'10	May'11	% change
	February'10 to May'10	February'11 to May'11	% change			
Net Generation (MU)/Month	7900	7917	0.2	8387	8384	0.0
Net Central Sector Thermal Generation (MU)/Month	2501	2515	0.6	2641	2487	-5.8
Import from CPPs (MU/Month)	447	491	10.0	486	463	-4.6
ER Consumption (MU/Month)	7229	7446	3.0	7283	7712	5.9
Net Export to Outside Region (MU/Month)	1118	963	-13.9	1590	1135	-28.6
Regional Peak Demand Met (MW)	12275	13539	10.3	11691	13539	15.8
Peak Export (MW)	3644	3311	-9.1	3644	2900	-20.4

Generation/ Demand/ Export:

During the period from February'11 to May'11 as compared with the corresponding period of previous year (i.e. February'10 to May'10)

- Net average generation/month increased marginally.

Annexure-IV (2/4)

- Net Central Sector Thermal Generation/month has also increased marginally
- Overall Availability/month from CPPs has shown improvement by 10 %.
- Energy consumption/month in ER has increased marginally by 3.0 %.
- Net Export from ER to other regions reduced by 14%
- Regional Peak Demand met increased considerably by 10.3%
- Peak export registered at 3311 MW on 28.02.11 .

1. CONSTITUENTWISE REQUIREMENT (MU/DAY) & PEAK DEMAND MET (MW) DURING FEBRUARY, MARCH AND APRIL & MAY'11

SYSTEM	REQUIREMENT MET (MU/ DAY)				PEAK DEMAND MET (MW)			
	FEB,11	MAR'11	APRIL '11	MAY'11	FEB'10	MAR'10	APRIL '11	MAY'11
BSEB	25.32	24.93	23.78	26	1307	1402	1314	
JSEB	17.2	15.69	16.15	16	897	1052	833	
DVC	41.63	41.2	42.09	45	1836	1916	1845	
GRIDCO	61.91	65.15	64.28	61	3315	3792	3310	
WBSEDCL	67.96	73.66	74.45	71	4368	4357	4302	
CESC	21.05	24.76	27.77	29	1343	1466	1582	
DPL	4.87	4.71	4.44	5	248	246	248	
SIKKIM	1.49	1.24	1	1.3	104	91	68	
Region	241.43	251.34	253.96	254.3	12508	12331	12420	

**4. MONTHLY AND CUMULATIVE EXPORT OF POWER FROM ER
(BASED ON SEM FIGURES)**

Table: 1 (A) EXPORT FROM ER

Region	Export in MU		Export in MU		% Growth in Export *	
	During May'11	Cumulative (February to May'11)	During May'10	Cumulative (February'10 to May'10)	During May'11	Cumulative (February to May'11)
NR	956.01	2863.22	1191.21	3668.69	-19.7	-22.0
WR	33.25	33.25	18.73	18.73	77.5	77.5
SR	7.03	1237.62	245.2	1581.65	-97.1	-21.8
NER	163.27	661.61	96.65	517.19	68.9	27.9
TOTAL	1159.56	4795.7	1551.79	5786.26	-25.3	-17.1

B) IMPORT TO ER

Region	Import in MU		Import in MU		% Growth *	
	During May'11	Cumulative (February to May'11)	During May'10	Cumulative (February'10 to May'10)	During May'11	Cumulative (February to May'11)
NR	0	0	0	0	-	-
WR	0	881.55	0	1424.22	-	-38.1
SR	0	0	0	0	-	-
NER	0	0	0	0	-	-
TOTAL	0	881.55	0	1424.22	-	-38.1
Net Export from ER	1159.56	3914.15	1551.79	4362.04	-25.3	-10.3

* As compared to similar period of last year.

Annexure-IV (3/4)

During the period under review i.e., February to May'11, the net export from Eastern Region was 3914 MU as compared to 4362 MU in the corresponding period of previous year, showing decline of 10.3 %. During this period (i.e. February to May'11), NR, SR & NER drew 2863MU & 1238 MU & 661.61 MU respectively, whereas WR wheeled 848 MU through ER.

5. System Operational Discipline during the period from FEB-11 to MAY-11.

(All figures in MU)

MONTHS	FEB-11		MAR-11		APRIL-11		MAY-11	
	SCH.	ACT.	SCH.	ACT.	SCH.	ACT.	SCH.	ACT.
BSEB	636.19	671.89	741.27	753.39	626.94	667.58	862	815
JSEB	273.89	252.81	272.5	284.17	271.77	270.81	308	297
OPTCL	429.48	436.81	538.74	523.88	467.75	463.73	544	501
DVC *	-198.55	-61.96	-222.07	12.81	-197	94.75	-189	-26
SIKKIM	29.7	37.76	41.78	36.29	25.24	27.51	33	27
WBSETCL	214.96	257.88	548.49	475.4	478.73	243.90	475	430
% f < 49.5 Hz.		4.49		3.41		6.98		3.17

*** It was observed that DVC overdrew even during the low frequency period.**

Members may like to discuss the grid performances.

IMPORTANT EVENTS :

1. 220 KV Begusarai-MTPS-II of BSEB first time charged at 10:55 hrs of 15.02.2011.
2. 66 KV Rangit-Ravangla S/C (using part of 66 KV Rangit-Melli S/C) first time charged at 15:20 hrs of 16.02.2011.
3. 400 KV Rourkela-Sterlite ckt (which is part of LILO of 400 KV Rourkela-Raigarh –II at Sterlite) first time charged on 26.02.2011 at 20:45 hrs.
4. 400 KV Raigarh-Sterlite first time charged at on 27.02.2011 at 20:46 hrs and power flow in 400 KV Rourkela-Sterlite-Raigarh started at 21:12 hrs of 27.02.2011.
- 5) STERLITE U#1 (600 MW) of VEDANTA first time synchronized at 02:27 hrs of 02.03.11.
- 6) STPS U#6 (250 MW) OF WBPDC first time synchronized at 00:36 hrs of 03.03.11.
- 7) FARAKKA STPS #6 (500MW) of NTPC first time test synchronized at 05:15 hrs on 07.03.11.

Annexure-IV (4/4)

- 8) 132 KV Dehri-Sonenagar ckt-I & II (BSEB) first time charged on 10/03/11 at 13:41 hrs and 13:43 hrs respectively.
- 9) 220 KV Mejia-Kalyaneswari I & II (DVC), which is made by LILOing 220 KV Mejia-CTPS D/C at Kalyaneswari, first time charged on 18/03/11 at 03:50 hrs and 19:35 hrs respectively.
- 10) 160 MVA ICT-II (220/132 KV) at Baripada first time charged (34 mw load) at 16:10 hrs of 23.03.11.
- 11) Black start at Indravati #4 was successfully done at around 16:00 hrs of 23.03.11
- 12) 315 MVA ICT - II (400/220 kV) at Biharshariff (which tripped on fire hazard on 05.10.10) charged with loading at 20:37 hrs of 23.03.11.
- 13) 220 kV Purnea - Dalkhola D/C line, which was under outage due to tower collapse since 13.04.10, restored on normal towers & taken into service on 25.03.11 at 13:39 hrs.
- 13) 400 KV Sagardighi-Parulia ckt-I of WBSETCL first time synchronized at 13:56 hrs of 28/04/11.
- 14) MAITHON RIGHT BANK #1 (2X525) MW of MPL First time synchronized at 05:35 hrs of 28.03.11.

SUMMARY OF UI RECEIPT AND PAYMENT STATUS

BILL UPTO 27.03.2011 (Week - 52 of 2010 - 11)

Last Payment Disbursement Date - 09.05.11

Figures in Rs. Lakhs

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
WR	2427.61745	2427.83708	103102.62970	103102.84933	0.00000
SR	13216.66971	13216.66971	5032.73215	5032.73215	0.00000
NER	3077.16459	3043.94511	14575.64242	14542.42299	0.00005
NR	120147.02952	120171.33321	375.58654	399.89023	0.00000
BSEB	6590.15778	5703.80937	8973.47389	8752.76517	665.63969
JSEB	2951.65982	1314.61105	19835.76128	18828.20985	629.49734
DVC	42809.38169	42827.86304	482.11664	500.59799	0.00000
GRIDCO	7563.58258	8756.82839	28337.61818	29530.86399	0.00000
WBSETCL	10110.33035	10541.40680	13872.71756	14303.79400	-0.00001
SIKKIM	922.19002	627.78336	2063.95000	1769.54334	0.00000
NTPC	299.20215	299.26116	3512.05681	3512.11582	0.00000
NHPC	1.83443	1.83443	1434.03509	1434.03509	0.00000
MPL	81.03942	81.03942	0.00000	0.00000	0.00000
STERLITE	0.00000	0.00000	3686.15581	3686.15581	0.00000
Pool Balance	0.00000	0.00000	1177.70540	1177.70540	0.00000
Additional UI charge	2320.58622	1495.93011	585.78482	0.00000	824.65611
Transfer to IRE	0.00000	0.00000	514.91659	581.52578	66.60919
TOTAL	210197.85951	209014.22	207562.88288	207155.20694	

% Realization 99.4368937 As on 09.05.11

Receivable: Receivable by ER POOL Payable Payable by ER POOL

Received Received by ER POOL Paid Paid by ER POOL

"- ve" Payable by ER pool "+ ve" Receivable by ER pool

SUMMARY OF UI RECEIPT AND PAYMENT STATUS

BILL UPTO 22.05.2011 (Week - 08 of 2011 - 12)

Last Payment Disbursement Date - 03.06.11

Figures in Rs. Lakhs

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
WR	0.00000	0.00000	12743.54475	10451.51527	-2292.02948
SR	1139.05952	715.53208	533.57162	388.05252	278.00834
NER	1198.69489	642.59237	926.62236	926.62236	556.10252
NR	7422.50960	6069.62996	223.06118	0.00000	1129.81846
BSEB	1288.50616	0.00000	709.95959	0.00000	578.54657
JSEB	886.90253	0.00000	1065.87921	0.00000	-178.97668
DVC	13614.84348	12980.29129	0.00000	0.00000	634.55219
GRIDCO	177.63047	177.63047	2019.91886	940.15611	-1079.76275
WBSETCL	78.29638	78.29638	9399.56282	8704.49075	-695.07207
SIKKIM	28.47778	28.47778	1871.34877	1432.73508	-438.61369
NTPC	346.17976	152.17050	481.26706	481.26706	194.00926
NHPC	0.00000	0.00000	327.12115	232.16656	-94.95459
MPL	24.81888	23.01216	0.00000	0.00000	1.80672
STERLITE	5152.13042	3516.57449	753.01417	753.01417	1635.55593
Pool Balance	0.00000	0.00000	-155.76031	0.00000	155.76031
Additional UI charge	340.14218	175.19505	0.00000	0.00000	164.94713
Transfer to IRE	0.00000	0.00000	-0.03336	0.00000	0.03336
TOTAL	31358.04987	24384.21	30899.07787	24310.01988	

% Realization 77.7605992 As on 03.06.11

Receivable: Receivable by ER POOL Payable Payable by ER POOL

Received Received by ER POOL Paid Paid by ER POOL

"- ve" Payable by ER pool "+ ve" Receivable by ER pool

**STATUS OF REACTIVE CHARGES IN ER REACTIVE POOL AS PER PUBLISHED A/C UPTO 22.05.11.
AS ON 31.05.11**

Figures in Rs

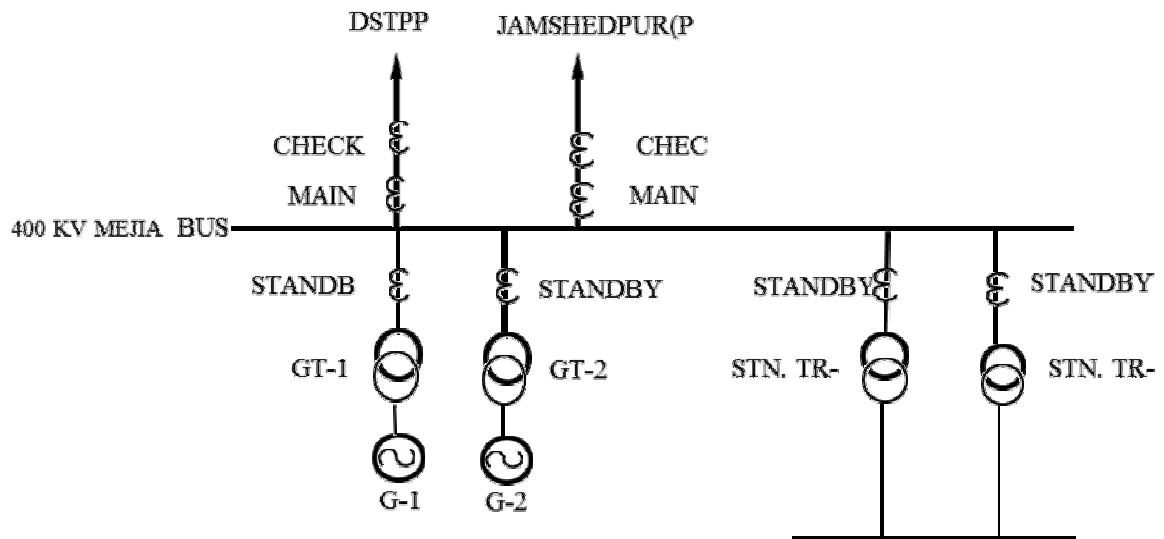
CONSTITUENTS	2003-04		2004-05		2005-06		2006-07		2007-08		2008-09		2009-10		2010-11		2011-12		TOTAL	
	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED	RECEIVABLE	RECEIVED
BSEB	0	0	0	0	0	0	284950	0	0	0	0	0	0	0	0	0	0	0	284950	0
DVC	6593	6593	86391	86391	264138	264138	0	0	0	0	0	0	0	0	0	0	0	0	357122	357122
GRIDCO	0	0	0	0	0	0	0	0	0	0	223311	223311	0	0	0	0	0	0	223311	223311
WBSEB	1778848	1778848	451090	451090	350045	350045	3519490	3519490	881058	881058	3716019	3716019	3431470	3431470	1273089	1273089	0	0	15401109	15401109
UPPCL	0	0	0	0	0	0	28575	8465	0	0	0	0	0	0	0	0	0	0	28575	8465
TOTAL	1785441	1785441	537481	537481	614183	614183	3833015	3527955	881058	881058	3939330	3939330	3431470	3431470	1273089	1273089	0	0	16295067	15990007

Total Received	16274957
Expenditure incurred for organising workshop on Black Start Procedure (4 SLDCs)	160000
Expenditure incurred for organising a seminar on Power Exchange	290000
Expenditure incurred for organising seminar on "Reduction of Agreed technical & commercial Loss-Issues and Challenges " at Bhubaneswar	184991
Expenditure incurred for organising workshop on Black Start Procedure at ERPC on 19.11.09	123028
Expenditure incurred for organising a seminar on Black Start on 18.04.09 at Hotel Big Boss	49050
Amount Retained in Reactive A/C	15467888
Waival of UPPCL amount on 14 th commercial sub committee meeting on 10.09.10	20110
Amount Credited to reactive account due to TDS (2003-04 to 2007-08) on 25.11.10	402619
Expenditure for SCADA Training at ERLDC ON 23.02.11	226115
Net Retained in Reactive A/C	15624282
Proposed Expenditure for EMS training approved in 13th ERPC meeting	3409885
Proposed Workshop/Seminar on Transmission pricing, Power Exchange & FGMO	2000000
Estimated Available Amount in the POOI	10214397

ANNEXURE-VII

DETAILS OF DISBURSEMENT TO POWER SYSTEM DEVELOPMENT FUND

SI No	Nature of Amount	Amount transferred to PSDF	Date of Disbursement	Cheque No	Remarks
1	UI (Principal)	4976.07019	11.11.10	219865 to 219891	Capping of 2007 - 08
	UI (Principal)	12153.10284	11.11.10	219865 to 219891	Capping of 2008 - 09
	UI (Principal)	3430.79751	11.11.10	219865 to 219891	Capping of 2009 - 10
	UI (Principal)	3836.50702	11.11.10	219865 to 219891	Surcharge of 2009 - 10
	UI (Principal)	975.41106	11.11.10	219865 to 219891	Capping of 2010 - 11
	UI (Principal)	1314.55152	11.11.10	219865 to 219891	Surcharge of 2010 - 11
	Total	26686.44014			
2	UI (Interest)	1284.96601	19.11.10	219919 & 219920	Bank interest of 2009 - 10
3	UI (Principal)	581.47030	22.02.11	219990	Capping & Surcharge
4	UI (Principal)	487.14040	14.03.11	220021	Capping & Surcharge
5	UI (Interest)	200.00000	14.03.11	220021	Bank Interest for UI of 2010-11
6	Reactive (Interest)	6.16992	14.03.11	220021	Bank Interest for Reactive of 2010-11
7	UI (Principal)	202.29434	20.05.11	No Cheque	Capping of 2010 - 11
8	UI (Principal)	204.06337	20.05.11	No Cheque	Surcharge of 2010 - 11
	Total	29652.54448			



ANNEXURE-IX

2010-11: Letter of Credit (LC) Amount against UI charges*Figures in Lacs of Rupees*

ER Constituents	Total UI charges payable to pool during 2010-11 (A)	Average weekly UI liability (A)/52 weeks (B)	LC Amount 110% of (B)
BSEB	6590.62	126.74	139.42
JSEB	2951.66	56.76	62.44

Annexure-X

A) 400kV D/C Koderma -Biharshariff Transmission Line and associated bays at Biharshariff.

DOCO	6/1/2011
Name of Project	DVC Start –UP Power
Approved Cost	290.49 Cr.
Standing Committee-ER reference	05/05/2007 at Puri & 05/11/2007 at Ranchi
EREB/ERPC Meeting reference	3 rd TCC and 4 th ERPC at Ranchi Dated 18/06/07 & 19/06/07.
Sharing of Transmission Charge	To be borne by DVC till the time the same is paid by respective beneficiaries.

B) 160 MVA 220/132kV ICT-II and associated 220kV & 132kV bays at Baripada.

DOCO	4/1/2011
Name of Project	Eastern Region Strengthening Scheme-II.
Approved Cost	227.52 Cr.
Standing Committee-ER reference	26/06/2006 Mirik, Darjeeling
EREB/ERPC Meeting reference	1 st TCC and 2 nd ERPC at Kolkata Dated 28/08/06 & 29/08/06.
Sharing of Transmission Charge	* To be borne by GRIDCO as per CERC Regulation 200-14 clause (5 of 33)

* Transmission charges for 400/220kV Step-Down (ICTS) and downstream systems, under inter state transmission scheme brought under commercial operation after 28/03/2008 shall be determined separately and shall be payable only the beneficiaries directly served.

Proposal for Meeting Bhutan's Power Shortage during the Lean Months

Bhutan exports surplus hydropower to India under the Power Sales Agreements signed between the Department of Energy (DOE) and the Power Trading Corporation (PTC) India. Bhutan's domestic demand of power is growing and is expected to surpass the total firm generation capacity of 288 MW by 2012. The shortage of power is anticipated in the lean season from 2012 on account of surge in power demand mainly due to 10 mega hydroelectric projects being constructed under the "10,000 MW Hydropower capacity addition by 2020" agreed between the RGoB and Gol for which construction power has to be necessarily arranged. In order to meet the anticipated power shortage, Bhutan has proposed to supply peaking power from its existing hydro power plants to coincide with India's peaking hours and import power in the off peak period. Considering that there is a premium for peaking power, Bhutan has further proposed that such an arrangement should have no financial transaction involved for the net energy imported by Bhutan to meet its shortages. Three meetings have already been held between the DOE and PTC. The last meeting was held on 15.4.2011 in New Delhi.

Bhutan anticipates power shortage in the driest months of January to March from the year 2012 onwards till the new hydropower plants under construction are commissioned in stages from 2016 onwards. Bhutan will supply peaking power from its existing hydro power plants, i.e. Chhukha, Tala, Basochhu and Kurichhu in these three months. Besides coinciding with minimal flow volume in the rivers, these three months also coincide with annual maintenance of the power plants. The amount of peaking power that would be available would therefore be subject to machine availability. In order to avoid stress to the machines through frequent starts and stops, peaking power would be made available only once a day, from 4 pm to 10 pm or any stretch of 6 hours, to coincide with India's peaking hours.

a) Generation during the Indian Peak Hours (4 pm till 10 pm)

Based on the historical hydrology data, diurnal pondage capacities of the hydro power plants, and the availability of the generating units considering the maintenance schedules, the quantum of peaking power that can be made available are as indicated in the Table 1 below:

Table 1

Month	Power Generation (MW)					Total (MW)
	Basochhu	Chhukha	Kurichhu	Tala	BPC	
January	30	197	30	402	3.5	663
February	27	186	30	380	3.5	627
March	30	193	30	394	3.5	650

From Table 1, it is seen that Bhutan would be able to generate a minimum of 627 MW during the peak hours in a day which can be coincided with the six-hour peak load period in India. The corresponding energy generation from the above peaking arrangement would be as shown in the Table 2 below:

Table 2

Month	Energy Generation (MU)					
	Basochhu	Chhukha	Kurichhu	Tala	BPC	Total
January	5.580	36.642	5.580	74.814	0.651	123.267
February	4.536	31.248	5.040	63.922	0.588	105.334
March	5.580	35.898	5.580	73.237	0.651	120.946

b) Generation during the Off-peak Hours (10 pm to 4 pm)

During the off-peak hours, while a percentage of the river inflows will be used to build up the reservoir levels for the daily 6-hour peaking, the hydropower plants will be generating some amount of power mainly to ensure readiness of machines for peaking and reliability of back up supply for domestic load. Generation of power (MW) and energy (MU) during the off-peak hours is shown by the following Tables:

Table 3

Month	Power Generation (MW)					Total (MW)
	Basochhu	Chhukha	Kurichhu	Tala	BPC	
January	10	62	15	126	3.5	216
February	10	51	15	104	3.5	184
March	10	57	15	117	3.5	203

Table 4

Month	Energy Generation (MU)					Total (MU)
	Basochhu	Chhukha	Kurichhu	Tala	BPC	
January	5.580	34.359	8.370	70.212	1.953	120.474
February	5.040	25.672	7.560	52.461	1.764	92.497
March	5.580	32.044	8.370	65.481	1.953	113.428

c) Combined Generation (peak and off peak periods):

The combined energy generation for the three lean months would be as follows:

Table 5

Month	Basochhu	Chhukha	Kurichhu	Tala	BPC	Total (MU)
Jan	11.160	71.001	13.950	145.026	2.604	243.741
Feb	9.576	56.920	12.600	116.383	2.352	197.831
March	11.160	67.942	13.950	138.718	2.604	234.374

d) Peak Power Energy available to India and Off-peak Power/ Energy Required by Bhutan:

Bhutan's estimated peak loads projected for the years from 2012-2016 are as below:

Year	2011	2012	2013	2014	2015	2016
National Peak Load (MW)	255.27	348.68	391.57	413.11	455.24	500.77

After meeting the internal demand of the country, the following Table shows the overall Peak Power/ Energy that would be available to India and Off- peak Power/ Energy required by Bhutan in the three months of January to March from the years 2012 to 2016:

Table 6

Year	Peak Supply (Exports)		Off-Peak Requirement (Imports)		Energy Net-Off (MU)	Premium
	MW _{max}	MU	MW _{max}	MU		
2012-East	(27.23)	(11.762)	(34.5)	(48.692)	(60.455)	-8%
2012-West	372.59	186.710	(100.7)	(113.065)	73.644	
2013	331.27	158.134	(162.0)	(198.710)	(40.576)	26%
2014	313.19	147.477	(181.1)	(227.186)	(79.709)	54%
2015	277.89	126.652	(218.4)	(282.728)	(156.077)	123%
2016	399.69	192.528	(98.7)	(84.900)	107.628	

At present, Bhutan's Eastern Grid fed by Kurichhu power plant and Western Grid connected to the other hydro power plants are not interconnected. Interconnection is expected to be completed by 2012 end. From Table 6 above, it is seen that in the year 2012, Bhutan's Eastern grid will have to import energy from the Indian Grid while excess generated energy will be exported from its Western Grid. Overall, Bhutan will be still a net exporter in 2012. From 2013, Bhutan will be a net-energy importer till 2015 and the import will be made during the off-peak hours only. Although the above Table 6 gives the maximum MW requirement of Bhutan during the off-peak period, it is expected to re-import continuous base load requirement of 30 MW (East) and 70 MW (West) in 2012, 123 MW in 2013, and 140 MW in 2014.

To the Indian Grid, coinciding with its evening peak period from 4 pm to 10 pm, 372 MW would be available from Bhutan's Western Grid in 2012, while from 2013 onwards, decreasing amounts, down to 278 Mw in 2015, would be available. Eastern Bhutan would require about 27 MW in 2012 during the peaking period.

While in 2012 Bhutan would still be overall net exporter of energy, the net energy required to be imported by Bhutan in 2013, 2014, and 2015 would be 41 MU, 80 MU and 156 MU respectively. Considering that these energy amounts are net imported energy against peaking power and energy supplied by Bhutan during the peaking period, it is proposed that there be no financial transaction for these quantum of net energy imported.

As discussed between DOE and PTC, It is proposed that the principle of supplying peaking power against importing during off-peak hours in order to meet increased load demand of Bhutan be agreed till Bhutan's firm power capacity is enhanced to surpass the domestic demand, with commissioning of new hydropower plants. This is likely to happen from 2016 onwards. However, the implementation of this arrangement is proposed to be agreed for three years, i.e. from 2012 up to the year 2014. This is because of the difficulty in estimating the load growth to a fair degree of accuracy from 2015 onwards due to uncertainties of timely implementation of hydropower projects and their commissioning. The arrangement for 2015 is proposed to be reviewed with PTC in 2014 by which time accurate load demand figures would be available. It is also proposed that although the figures of power and energy transactions have been worked out carefully, a meeting can be held between the concerned parties in every December to review and adopt the figures of supply and demand forecast for the next calendar year so that the arrangement poses minimal UI burden to the Indian Grid.

The implementation of the proposal would benefit both Bhutan and India. India would get peaking power whereas Bhutan would be able to re-import power during the off-peak period to meet its power shortage during the leanest months of the said years.