

EASTERN REGIONAL POWER COMMITTEE

MINUTES OF THE 11TH MEETING OF EASTERN REGIONAL POWER COMMITTEE

Date: 29.08.2009

Venue : The Ffort Raichak Hotel

The list of participants is given at Annexure-A.

Shri Pema Wangchen, P.C.E.-cum-Secretary, Energy & Power Department, Govt. of Sikkim, chaired the meeting.

Shri M.K. De, CMD, WBSEDCL and WBSETCL welcomed Shri Pema Wangchen, Chairperson-ERPC & Secretary, Energy & Power Department, Govt of Sikkim, other members on dais and all other participants to the 11th ERPC meeting. He added that WBSEDCL & WBSEDCL as host had tried to make modest arrangements for the meeting at this location outside Kolkata. He hoped that delegates would have pleasant and comfortable stay. He stated that ERPC is a forum where regional issues of conflicting interests of constituents are discussed with view to arrive at consensus. In the past the region had suffered due to lack of consensus on sharing of cost of transmission lines. He hoped that with the introduction of new transmission pricing mechanism contemplated by CERC, the problems would be overcome. He raised concern for acute coal shortage in some of the important power stations in the region and advocated for regulators for coal and railways. He mentioned that as per regulations distribution companies like WBSEDCL have to pay capacity charge to the generating companies even though there is no or little generation in power stations due to coal shortage, but there is no mechanism for the distribution companies to recover the cost from its consumers. He highlighted that unlike generation and transmission tariff, the distribution tariffs are always subjected to close scrutiny and interference. He mentioned that in the current year the revenue gap of WBSEDCL is about Rs.1000 crore. He also raised issue of allocation of power from Subansiri HEP to NER, WR and NR ignoring the need of ER constituents. He said that financial closure for the NHPC project was achieved based on the MoU with potential customers. The then WBSEB, now WBSEDCL, had signed MoU for 500 MW power from the project. The transmission lines for evacuating the power from the power station located in NER would pass through West Bengal and other States in Eastern Region. In spite having signed MoU, decision of MoP allocating the power to others, bypassing the ER constituents was a case of discrimination. He requested members to give their opinion on the issue during the course of the meeting.

Shri R.K. Grover, Member Secretary, ERPC welcomed Shri Pema Wangchen, Chairperson-ERPC, other members of ERPC and all other participants. He appreciated the excellent arrangement made by WBSEDCL for the meeting and thanked CMD, WBSEDCL for setting a new bench mark in hospitality. He informed the members that yesterday TCC had discussed in details about the coal shortage problems in power stations. As per NTPC, Farakka and Kahalgaon STPS require 27 Million MT of coal in 2009-10, against which the fuel supply agreement (FSA) with Coal India is only for 15 Million MT. Another 2 Million MT is being arranged from CIL through MoU route and 4 Million MT through e-auction, but both at a higher price. The new mines at Lalmatia would take at least 2 to 3 years to be operational, subject to acquisition of land and environmental clearance. He mentioned that issues like overdrawal by NR during low

frequency and steep hike in fuel price adjustment of NTPC stations in ER were discussed at length yesterday. ERLDC had given their view points on overdrawal. Whereas, NTPC and BSEB were advised to sit together, exchange further information on FPA and come out with specific calculation on increased FPA.

Shri Pema Wangchen, Chairperson-ERPC and PCE-cum-Secretary, Energy & Power Department, Govt. of Sikkim in his address highlighted the grid performance during the year 2008-09 and during the period April'09 to July'09. He said that the region had shown all round growth in the areas of generation, energy consumption and peak demand met. He raised concern for overdrawal by some of the ER constituents and NR during low frequency period and urged all constituents to adhere to the instructions of RLDC for reliable grid operation. He highlighted the issues pertaining to steep hike in fuel price adjustment in NTPC stations in ER, acute coal shortage at Farakka, Kahalgaon, Talcher of NTPC and some power stations of WBPDC and DVC, low generation of new units due to technical or coal shortage. Regarding order of MoP on allocation of power from Subansiri and Kameng HEP in Arunachal Pradesh, he wanted to know from NHPC whether the power from the above hydro projects were offered to constituents of ER. In conclusion, he thanked CMD, WBSEDCL, his officers and staff for making excellent arrangement for hosting the meeting at Raichak, by the bank of river Ganges having magnificent panoramic view.

Shri Swapan Mukherjee, Chairman, BSEB said that so far availability of power was concerned, Bihar was one of the worst suffering States in the region. The average peak demand of the State was about 2000 MW whereas availability even during this high hydro period was about 1100 MW. Generation of NTPC stations at a very low PLF of about 60% due to coal shortage had aggravated the situation. He said that if low thermal generation continued, the situation would further deteriorate during December to March when hydro generation would go down. He stated that there was mismanagement in coal supply and endorsed the view of CMD, WBSEDCL about the requirement of regulator on coal. He mentioned that due poor quality of coal, generations at their Barauni and Mujaffarpur had been affected badly.

Shri C.J. Venugopal, CMD, OPTCL & GRIDCO said that in the current year the peak demand in Orissa had already touched 3200 MW, and with more industries coming up and village electrification work under RGGVY the demand was expected to rise further. He informed that the investment in Eastern Regional States under RGGVY is highest in the country. He mentioned that Eastern Region is surplus in power is a myth. In the current year Orissa system would be under shortage in availability, the same would be true for Bihar and other States in the region. He suggested that respective States, in their own way, should take up the matter with MoP for getting proper allocation of power. He highlighted the issue of coal shortage in pit head power station like Talcher. He said that domestic coal linkage vis-à-vis supply were not adequate for the NTPC power stations. Coal was procured under e-auction or imported under compulsion. But it resulted in substantial increase in fuel price. Regulator in the State allow only marginal increase in fuel price adjustment and tariff under regulated regime could not increased frequently. He said in the current year the revenue gap in Orissa would be about Rs.1200 crore in which FPA itself accounted for Rs.450 crore. He requested generating companies to indicate their fuel cost in advance in a more transparent manner indicating the components of domestic linkage supply, e-auction and import. Regarding development of new transmission lines as per transmission planning, he said that not much progress had taken place since the decisions taken in the previous ERPC meetings clearing may new transmission lines. He requested Power Grid to respond to the need and give definite date line for completion of the

approved projects. He also urged for review of progress and implementation at ERPC forum.

Shri R.N. Nayak, Director (Operations), Power Grid assured the members that availability of transmission line would not be a constraint for new generators. Power Grid is geared up to meet the requirement. He requested the generators to inform realistic commissioning schedule in advance so that requisite transmission lines could be built in time. Regarding corridor constraints in chicken neck area near Siliguri, he said that +/- 800 kV HVDC link had been planned for evacuation of power from NER to other regions. There would be four corridors of 6000 MW capacity each which would be adequate enough to take care of future requirement.

Shri G.N.S. Munda, Member(Technical), JSEB said that under the drought like situation, low availability from NTPC stations due to coal shortage and low hydro availability in the State had severely affected the power supply position in the State. He requested for allocation of additional 200 MW central sector power to Jharkhand to tide over the power crisis.

Shri G.J. Deshpande, Regional E.D.(ER-I), NTPC said that he agreed with the view of CMD, WBSEDCL and other members that States like West Bengal, Jharkhand and Orissa were in the midst of coal mines, but unfortunately the power stations in Eastern Region only suffering from coal shortage. He said that even now NTPC stations in other region were operating in the range of 95% PLF, whereas Farakka was operating at 75% and Kahalgaon at about 65% PLF only. He further said that as per New Coal Distribution Policy of Govt. of India, 90% of required coal should be through linkage and balance 10% through e-auction or other route, but Coal Companies were offering more coal under e-auction. He informed the members that NTPC had raised the issue at the highest level in the Government, and as a result of that a high level team comprising of officers from MoP, Ministry Coal and Ministry of Railways had visited Farakka, Kahalgaon and Lalmatia. They would be also visiting Talcher. Farakka and Kahalgaon required 27 Million MT of coal, but fuel supply agreement had been signed with Coal India for 15 Million MT. No linkage was given for 1000 MW of Kahalgaon. He said that to bridge the shortfall 2 Million MT would be procured from Coal India through MoU route, about 3 to 3.5 Million MT by import and another 4 Million Mt through e-auction. He assured the members that October onwards the generations at the NTPC power stations in ER would pick up following increase in coal supply and the loss of generation during the last five months would be made up.

Shri Debashis Sen, Managing Director, WBPDC said that it was a fact that power plants were facing coal shortage. Even the Units commissioned during recent past were underperforming due to coal shortage. Since shortage in coal supply was a acknowledged fact, he wanted to know how new coal based Units had been planned. He suggested that in the next ERPC meeting Chairman, Coal India may be invited to know about their perspective plan on supply of coal to power stations. As an alternative, he suggested that the generating companies may look for gas based power plants keeping in view that GAIL is likely provide gas pipe line in Eastern Region by the year 2012, subject to acceptable cost of generation. He also informed that their Kolaghat plant, which is about 25 years old, has been fine by Pollution Control Board for violating some environmental norms and wanted to know from members of ERPC about the best practices followed by other generating companies for managing the environmental issues.

Shri S.P. Datta, Managing Director, DPL said that DPL was also facing problems related to maintenance of environmental norms. The Pollution Control Board had already

lodged complaint to this effect. DPL unit No. 1 & 2 are very old, commissioned way back in 1965, the coke oven plant was commissioned in 1961. CEA has already advised closure of Unit No.1 and 2. DPL management and the Government have to take decision on the matter. Regarding performance of new Unit No.7, he said that in the month of March & April'09 the Unit operated at about 75% PLF. In May'09 it had touched 80% PLF. But there is scope for improvement, coal is not the only constraint. He said that PG test of the Unit would be done shortly.

Shri J. Padhi, Director (Operation), OHPC said that their hydro power stations were a part of multipurpose project, where irrigation requirement gets highest priority and the power generation the least. Being multipurpose projects, spilling of water for power generation alone is normally not allowed. He informed that the weeds problem at Chiplima HPS could be overcome and the plant is now operational.

Shri M.L. Batra, Member Secretary, SRPC said that in view of disparity in the statements of Coal India and NTPC, SRPC had advised him to visit Talcher power station for on the spot study of the problem. He further said SRPC had already decided to write to MoP for taking up the issue with appropriate authority for creation of regulator on coal. In a similar manner ERPC could also take up the matter with MoP. He said that the issue was required to be sensitized. He suggested that Ministry of Coal and Ministry of Railways may be invited as special invitee to ERPC meetings for getting their view point on the issues.

ITEM NO.1 CONFIRMATION OF THE MINUTES OF THE 10TH ERPC MEETING HELD ON 11.04.2009 AT PORT BLAIR

The minutes of the 10th ERPC meeting held on 11.04.2009 at Port Blair was issued vide letter no.ERPC/Committee/2009/2648-2695 dated 08.05.2009. No comments have been received from the constituent members on the minutes of the meeting.

Members may please confirm the minutes of the 10th ERPC meeting.

DELIBERATION IN THE ERPC MEETING

Members confirmed the minutes of the 10th ERPC meeting issued vide letter no. ERPC/Committee/2009/2648-2695 dated 08.05.2009.

ITEM NO. 2 ISSUES REFERRED TO ERPC BY TCC MEMBERS IN THE 10TH TCC MEETING HELD ON 28.08.2009

ITEM NO. 2.1 CORRIDOR CONSTRAINTS FOR EXPORT OF SURPLUS POWER FROM ER TO NR – ISSUE RAISED BY WBSEDCL

TCC AGENDA

WBSEDCL have submitted that during July'09 there was sustained high overdrawal by NR. The overdrawal had reached as high as 600 to 800 MW. However, WBSEDCL's application for export of 100 MW power to NR was rejected by NRLDC on the ground of corridor constraints. Since WBSEDCL was denied open access for the month of July'09, it appeared that no margin was available for export of power to NR which inter-alia

meant that the reliability margin of the transmission system would be at stake if it was allowed.

WBSEDCL have submitted that under the above circumstances the following issues need to be clarified / answered :

- i) Why NRLDC has been allowing sustained overdrawal by NR constituents ?
- ii) What action NRLDC has taken when sustained overdrawal by NR constituents at low frequency is observed ?
- iii) Web site information of NRLDC is not like other RLDCs. If there is any specific reason, it should be mentioned.

WBSEDCL may elaborate the issue and members may please discuss.

DELIBERATION IN THE TCC MEETING

During deliberation, it transpired that though NR is overdrawing on sustained basis to the tune of 600-800 MW, open access transaction of WBSEDCL was curtailed/refused on the ground of corridor constraints during the month of June, July and August'09. ERLDC representative informed that due to downstream grid constraints beyond Uttar Pradesh, WBSEDCL power was sometimes curtailed/refused. Sometimes day-ahead transaction was refused, as there was no margin available in ER-NR corridor after accounting for collective transactions. He opined that with interconnected operation of four grids, viz. ER, NR, WR and NER, the entire inter-regional exchanges should be considered rather than one particular inter-regional exchange. For the last few months, though NR is overdrawing from ER, but ER has overdrawn compared to its net inter-regional schedule with other regions. It was felt that in recent times due to typical generator disposition in Chattisgarh, WR power was wheeled to NR through ER, which further accentuated NR overdrawal from ER.

Representative of WBSEDCL pointed out that while curtailing/refusing open access transaction, actual constraints were not intimated. He further mentioned that unlike other RLDC websites, NRLDC website does not display real time actual vis-à-vis schedule drawal of NR constituents.

After detailed discussion, members referred the matter to ERPC.

DELIBERATION IN THE ERPC MEETING

CMD, WBSEDCL stated that transmission assets came up because long term customers had underwritten the cost. However, in real time it was observed that though some transactions were refused/curtailed on the ground of design margin getting violated, UI energy was flowing on sustained basis through the veil of design margin. Therefore the basic issue regarding how much design margin should be kept needs to be revisited. He flagged the issue of persistent overdrawal by some NR states and requested members to ponder over the idea of "Frequency Adjusted Schedule".

ED, NLDC mentioned that earlier workshop had been arranged to explain the issues related with “Design Margin/Available Transfer Capacity (ATC)/Total Transfer Capacity (TTC)” and would be arranged again to share information with the constituents. He advocated keeping sufficient “Design Margin” for calculation of ATC so that grid is not endangered. He stated that the issue of overdrawal by some NR States were flagged in all quarters and all penal sections were invoked. He expressed the need for tighter frequency control, which is already effected by narrowing the IEGC frequency band by 0.2 Hz in both side. On a query, he informed that UFRs in other regions were working and giving load relief during period of designated frequency condition.

ITEM NO. 2.2 PROPOSAL FOR INSTALLATION OF NEW 400 KV S/S IN ORISSA AT UTTARA INSTEAD OF SUNDERGARH

TCC AGENDA

In the meeting of the Standing Committee on Power System Planning in ER held on 08.11.2008 at Bhubaneswar and subsequently, in the special meeting of ERPC held on 30-12-2008, setting up of 400/220 kV, 2x315 MVA Sundergarh S/s with LILO of the existing 400 kV Talcher-Rourkela D/C line was decided to be constructed as part of system strengthening works in ER as a regional/inter state system.

Subsequently, GRIDCO vide letter no. DC-28/2008/5542 dated 06.08.2009 addressed to Member (PS), CEA proposed for setting up of 400/220 kV, 2x315 MVA S/s at Uttara (in Puri District) with LILO of 400 kV Baripada-Mendhasal D/C line as inter-state transmission works in lieu of 400/220 kV, 2x315 MVA Sundergarh S/s with LILO of the existing 400 kV Talcher-Rourkella D/C line.

Chief Engineer (SP&PA), CEA vide his letter no. 68/1/09-SP&PA/ dated 20.08.2009 has intimated that CEA do not have objection to the above proposal of GRIDCO and the same may be vetted by ERPC.

Members may like to deliberate and decide.

DELIBERATION IN THE TCC MEETING

After discussion, TCC members agreed for setting up of 400/220 kV, 2x315 MVA S/s at Uttara (in Puri District) with LILO of 400 kV Baripada-Mendhasal D/C line as inter-state transmission works in lieu of 400/220 kV, 2x315 MVA Sundergarh S/s with LILO of the existing 400 kV Talcher-Rourkela D/C line subject to that the associated cost is not changed appreciably and **referred the matter to ERPC for approval.**

DELIBERATION IN THE ERPC MEETING

Representative of Powergrid informed that with the changed LILO configuration, the cost would reduce. After discussion, ERPC members approved setting up of 400/220 kV, 2x315 MVA S/s at Uttara (in Puri District) with LILO of 400 kV Baripada-Mendhasal D/C line as inter-state transmission works in lieu of 400/220 kV, 2x315 MVA Sundergarh S/s with LILO of the existing 400 kV Talcher-Rourkela D/C line.

ITEM NO. 2.3 ALLOCATION OF POWER FROM SUBANSIRI HYDRO ELECTRIC PROJECT(2000 MW) AND KAMENG HYDRO ELECTRIC PROJECT (600 MW) IN ARUNACHAL PRADESH

TCC AGENDA

MoP / GoI in their letter vide No. 11/1/2002-DO (NHPC) dated 14.07.2009 communicated allocation of power in favour of NER, NR and WR from the under-mentioned power stations as indicated below :

From Subansiri HE Project (2000 MW)

<u>Sl.No.</u>	<u>Regions</u>	<u>% age Allocation</u>	<u>Equivalent Power in MW</u>
1.	Power alloc. to NER incl. free power to home state (13%) & Unallocated share at the disposal of Centre to be alloc. to NE states (15 %)	50	1000

<u>Sl.No.</u>	<u>Regions</u>	<u>% age Allocation</u>	<u>Equivalent Power in MW</u>
2.	Northern Region	25	500
3.	Western region	25	500

From Kameng HE Project (600 MW)

<u>Sl.No.</u>	<u>Regions</u>	<u>% age Allocation</u>	<u>Equivalent Power in MW</u>
1.	Power alloc. to NER incl. free power to home state (12%) & Unallocated share at the disposal of Centre to be alloc. to NE states (15 %)	50	300
2.	Northern Region	25	150
3.	Western region	25	150

Members may please note.

DELIBERATION IN THE TCC MEETING

It was observed by Director, WBSEDCL that while finalising the Subansiri HE Project (2000 MW), an MOU was signed by the then WBSEB for the investment approval of the above project. While making the perspective planning, West Bengal had assumed the quantum of power as available to it. He informed that West Bengal has taken strong observation against the non-inclusion of West Bengal as a beneficiary of the above project and had already registered a protest in writing to Government of India.

It was observed by Director (Commercial), GRIDCO that it transpired that the initial agreement with the generator for investment approval has no sanctity, so he proposed that CEA should be entrusted in future for such agreement with the beneficiaries during investment approval.

BSEB also supported the proposal.

After deliberations, it was decided to refer the matter to ERPC for further advice.

DELIBERATION IN THE ERPC MEETING

During deliberation all the utility constituents of the Eastern Region expressed dismay over non-allocation of any power by MoP, GoI from 2000 MW Subansiri HEP to any State in the Eastern Region. Members felt that allocation of entire 2000 MW power of Subansiri HEP to NER, NR and WR in the ratio of 50:25:25 was highly discriminatory as ER constituents from the very inception of the project have been closely associated with it by signing necessary MOUs / consent letters for the investment approval of the said project. Further, the beneficiaries of the ER, while drawing their perspective power planning of the State had assumed the availability of tentative allocation of share from this project. Non-allocation of any power at this stage would only aggravate the already prevailing power shortage situation of the Eastern Region.

In view of the above, constituents of the Eastern Region unanimously objected strongly to the unilateral allocation of 2000 MW Subansiri HEP in Arunachal Pradesh made by MoP, GoI vide letter no. 11/1/2002-DO (NHPC) dated 14.07.2009 without considering the legitimate claim of the Eastern Regional constituents, who had earlier entered into MOU and had given consent letter for investment approval and earnestly request the MoP, GoI for re-consideration of the above allocation in the overall national interest.

It was decided that Member Secretary, ERPC would forward the above sentiments of the Eastern Region to the MoP, GoI with a copy to CEA for redressal of the grievances of the Eastern Regional constituents.

Chief Engineer (GM), CEA present in the meeting advised the aggrieved constituents of ER to furnish necessary documents to CEA for further scrutiny of the same. Concerned constituents of ERPC agreed to send the same to CEA directly.

ITEM NO.2.4 REQUIREMENT OF SEMs UPTO 2012 (11TH PLAN PERIOD)

TCC AGENDA

The proposal for requirement of Special Energy Meters (SEMs), for new power system elements covered under 11th Plan Period (up to 2012), was prepared and circulated by ERLDC in the OCC meeting held on 17th May,2009 at ERPC, Kolkata. ERLDC had forwarded the requirement of 605 Nos. of SEMs (550 Nos. as per list with 10 % Spare Meters i.e. Requirement of Total No. of SEMs as 605 Nos.) to Powergrid for initiating necessary action for procurement. In addition, as per ERLDC / Powergrid, depending upon locations of meters to be installed as above, 100 Nos. of

DCDs are also required to be procured. Accordingly, Powergrid intimated that as per earlier purchase order, the unit cost of SEM and DCD are Rs. 27,000/- and Rs. 45,000/- respectively. Thus, the total cost involvement estimated towards purchase of approximately, 605 Nos.of SEMs and 100 Nos. of DCDs would be around Rs. 2. 04 Crore.

The issue was also placed by ERLDC / Powergrid in the 10th Commercial Sub-Committee meeting held on Kolkata for necessary approval after deliberation.

In the said Commercial Sub-Committee meeting, after taking into account the requirement of SEMs for the upcoming projects in Sikkim, it was decided that 650 nos (subject to actual) SEMs and 100 nos. DCD (not Laptop) would be procured by POWERGRID at an estimated cost of Rs.3.5 crore [at the estimated rate of Rs.27,000/- for 1 no. SEM and Rs.45,000/- for 1 no. DCD]. The total cost would be apportioned among the beneficiary constituents of Eastern Region in proportion to the share allocation for the month in which the proposal is approved in the ERPC meeting. Against the POWERGRID's proposal of levying 15% as overhead charges, it was decided, on request from the beneficiaries, that the charges shall be limited to 10%.

It was further decided that ERLDC would circulate the revised list indicating therein the constituent-wise requirement of SEMs and DCDs.

The issue is placed before TCC members for their agreement on the above issue along with confirming the total estimated cost. ERLDC is requested to submit the list regarding constituent wise requirement of SEMs and DCDs.

DELIBERATION IN THE TCC MEETING

TCC accorded in principle approval for procurement of 650 numbers of SEMs and 100 numbers of DCDs (not Laptop) at an estimated cost of Rs.3.5 crores with an overhead charge of 10% payable to POWERGRID. The total cost would be apportioned among the beneficiary constituents of Eastern Region for the month in which the proposal is approved in ERPC meeting. Further, ERLDC would circulate the revised list indicating therein constituentwise requirements of SEMs and DCDs.

The issue is placed before ERPC for approval.

DELIBERATION IN THE ERPC MEETING

As recommended by TCC, ERPC approved the above proposal.

ITEM NO. 2.5 OPTIONS FOR PROVISION OF ADDITIONAL BAY/BREAKER FACILITY AGAINST 400KV MALDA-FARAKKA FEEDER-I AT MALDA S/S

TCC AGENDA

The issue raised by Powergrid on the above subject is described below :

400 KV Malda-Farakka Ckt-I bay is running on single breaker (ABB SF6 Circuit Breaker diverted from Durgapur) without any provision to transfer

the bay to TBC which has been constructed in the year 2002. At that time due to space constraints transfer bay was not constructed. The power flow through this line has increased up to SIL level during winter season. This makes this feeder a critical one from system stability point of view. Outage of the only available Circuit Breaker for 400 KV Farakka-Malda-I on account of maintenance, break down will put considerable operational problem and may jeopardize the grid.

Looking in to the criticality of the matter, an expert committee has visited site and explore various option to provide transfer facility through TBC or additional/redundant breaker facility. The committee after comprehensive study of the Physical layout and other consideration has submitted their report wherein they have recommended for providing additional bay by relocation of some of the existing equipment/structures.

The matter was discussed in 39th OCC meeting of ERPC wherein in principle agreement for installation of additional bay/breaker facility against 400 KV Malda-Farakka Feeder-I at Malda S/S have been agreed by ER constituents. The approximate cost for commissioning of one bay at Malda S/S will be Rs. 2 crore. The expenditure will be pooled with regional transmission charges.

The issue was placed in the 10th Commercial Sub-Committee meeting for deliberation and agreement on the proposal, to which members agreed.

Members may please discuss.

DELIBERATION IN THE TCC MEETING

TCC accorded in principle approval for commissioning of one bay at Malda S/S at an estimated cost of Rs.2 crores to be borne by the ER beneficiaries as an element of regional pool.

The issue is referred to ERPC for approval.

DELIBERATION IN THE ERPC MEETING

As recommended by TCC, ERPC approved the above proposal.

ITEM NO.2.6.A) AUGMENTATION OF TRANSFORMATION CAPACITY OF 220/132 kV BIRPARA SUB-STATION OF POWERGRID – ISSUE RAISED BY POWER GRID

TCC AGENDA

Presently, the transformation capacity of 220/132kV Birpara Sub-Station is 150MVA (1x50 MVA & 1x 100MVA). From the load pattern of both ICTs, it has been observed that the power flow through both the transformers exceeds more than 90-100 MW during peak hours and it is clear that with the same transformation capacity of 150MVA available at Birpara, and considering the rate of rise of demand per year (more than 20%), the full load of WBSETCL cannot be met in near future. Further, due to non-availability of alternate source at Birpara, WBSETCL has to resort load shedding in case of outage any one of ICT. As such the augmentation of transformation capacity at Birpara Sub-Station is required immediately to have sufficient margin to take care of load growth in future.

The issue was discussed in 37th OCC meeting of ERPC held on 17.04.09. Members suggested that 50 MVA transformer may be replaced by (1X160MVA) transformer, alternatively 3rd transformer of (1x160MVA) capacity may be installed at Birpara Sub-Station. WBSETCL representative agreed in principle for augmentation of transformation capacity of 220/132 KV Birpara Sub-Station.

DELIBERATION IN THE TCC MEETING

After deliberation it was decided that the existing 1 x 50 MVA transformer at Birpara S/s of Powergrid would be replaced by 1x100 MVA transformer. The entire cost would be borne by WBSETCL. **It was decided to refer the issue to ERPC.**

DELIBERATION IN THE ERPC MEETING

As recommended by TCC, ERPC approved the above proposal.

ITEM NO.2.6.B) AUGMENTATION OF TRANSFORMATION CAPACITY OF 220/132 kV SILIGURI SUB-STATION OF POWERGRID – ISSUE RAISED BY POWER GRID

TCC AGENDA

Presently, only one no. 220/132kV 100MVA ICT is available at Siliguri Sub-Station of Powergrid. It has been observed that during lean period of Hydro generation i.e. whenever Rangit HPS is out of service, the power flow through the transformer exceeds more than 80MW during peak hours and it is clear, that with the same transformation capacity of 100MVA available at Siliguri and with the same load pattern, it will be difficult to cater the load through this transformer. As such the augmentation of transformation capacity at Siliguri Sub-Station is required immediately to have sufficient margin to take care of load growth in future.

The issue was discussed in 37th OCC meeting of ERPC held on 17.04.09. Members suggested that 2nd transformer of 1x160MVA may be installed at Siliguri Sub-Station. WBSETCL representative agreed in principle for augmentation of transformation capacity of 220/132 kV Siliguri Sub-Station.

Powergrid stated that the approximate cost for procurement, installation and commissioning of 2 nos. 160 MVA ICTs would be Rs.20 crore.

The above issues were further discussed in the 10th Commercial Sub-Committee Meeting held on 25.06.2009 and members noted the same.

Members may like to discuss and agree to the proposals. In case of agreement to the above proposals, WBSETCL is to give consent for bearing the associated cost as above.

DELIBERATION IN THE TCC MEETING

After deliberation it was decided that 1 x 100 MVA additional transformer would be installed at Siliguri S/s of Powergrid. WBSETCL's proposal

regarding sharing the cost by WBSETCL with Sikkim was not agreed to by Sikkim and **it was decided to refer the issue to ERPC.**

DELIBERATION IN THE ERPC MEETING

After brief deliberation on the issue, WBSETCL agreed to bear the entire cost for installation of one additional 100 MVA transformer .

ITEM NO.2.7 COMMERCIAL AGREEMENT FOR IMPLEMENTATION OF FIBRE OPTIC NETWORK IN LIEU OF EXISTING MICROWAVE NETWORK – ISSUE RAISED BY POWERGRID

TCC AGENDA

Powergrid have submitted that during the 10th ERPC meeting, the establishment of Fibre Optic Network in lieu of existing Microwave links was approved by ERPC. Powergrid have already initiated process of investment approval and procurement for the Fibre Optic Communication Scheme.

Powergrid have proposed that the project shall become “part of Commercial Agreement” already signed by Powergrid with respective constituents for ER-ULDC Project and the tariff shall be as determined by CERC.

Powergrid may further clarify the matter and members may please discuss.

DELIBERATION IN THE TCC MEETING

Initiating the discussion, Member Secretary, ERPC informed the members that the Scheme for implementation of Fibre Optic Communication in lieu of existing microwave links in Eastern Region was approved by ERPC in 10th ERPC meeting held on 11.04.2009 at Port Blair. Based on approval of scheme by ERPC, Powergrid has initiated process of investment approval for the scheme. Further, Powergrid has proposed that project shall become part of Commercial Agreement already signed by Powergrid with respective constituents for ER-ULDC project and tariff shall be as determined by CERC.

After deliberations, constituents agreed to examine with the proposal of Powergrid for making the “Fiber Optic Communication Project in lieu of existing microwave links” as a part of the Commercial Agreement of ER-ULDC project signed on 09.01.2003 with respective constituents. Powergrid was requested to forward a copy of the existing BPTA to the concerned divisions of the constituents for scrutiny. Powergrid agreed.

DELIBERATION IN THE ERPC MEETING

ERPC advised Powergrid to make available a copy of the existing BPTA to the concerned constituents for scrutiny. After this, concerned constituent would give, in writing, to Powergrid regarding the acceptance of Powergrid’s proposal.

ITEM NO.3 CONSTITUTION OF ERPC

As per the decision taken in the 10th ERPC meeting held on 11th April,2009 and in accordance with the resolution dated 09.05.2008 of Ministry of Power, Govt. of India, the following organisations were inducted as new member of Eastern Regional Power Committee for the year 2009-10 :

1. Durgapur Projects Ltd.
2. Tata Power Company Ltd:
3. Adani Enterprises Ltd.
4. DPSC Ltd..

Accordingly, the new members were informed about their membership in ERPC for the year 2009-10 with the request to confirm about their willingness to contribute requisite amount to ERPC Establishment Fund and ERPC Fund as applicable for members.

In response to above Durgapur Projects Ltd. (DPL) and Tata Power Company Ltd (TPCL) have accepted the membership and agreed to contribute in the requisite funds. Both DPL and TPCL have sent their nomination in the ERPC. TPCL have also sent their contributions to ERPC Establishment Fund and ERPC Fund. Adani Enterprises Ltd. (AEL) have declined to be a member of ERPC at present, citing their present business interest in Western and Northern Region. DPSC Ltd. have agreed to contribute in ERPC Fund (Rs.50000) but expressed their difficulty to contribute in ERPC Establishment Fund (Rs.14 lakh) citing that they are a small distribution company.

Bihar State Hydroelectric Power Corporation (BSHPC) is a member of ERPC since beginning i.e. from 2006-07, but inspite of number of reminders they have not contributed in ERPC Establishment Fund since 2007-08 and in ERPC Fund since 2006-07. They have neither attended any ERPC or any Sub-committee meetings except the 1st ERPC meeting held on 25.05.2006.

Powerlinks Transmission Ltd. (PTL), through various communications have expressed their willingness to be a member of ERPC and other sub-committees, and they have agreed to contribute in ERPC Establishment Fund and ERPC Fund. PTL operate and maintain transmission system associated with of Tala HPS.

In view of above it is proposed that (i) BSHPC may be temporarily debarred from the list of ERPC member till they confirm their willingness and contribute in the requisite funds, (ii) Powerlinks Transmission Ltd. may be inducted as 'Associate Member' like GRIDCO and PTC.

Regarding membership of DISCOM and TRADER on rotation basis for a period of one year only, to allow wider participation of various stake holders it is proposed that such entities may be allowed to contribute Rs.Two Lakh in ERPC Establishment Fund and Rs.50000 in ERPC Fund for their membership in ERPC. Their membership shall be subject to their confirmation on payment to ERPC Establishment Fund and ERPC Fund.

Members may please discuss and decide.

DELIBERATION IN THE ERPC MEETING

After brief deliberation on the proposals members decided that (i) instead of debarring, BSHPC be requested once more to confirm their willingness to contribute in ERPC Establishment Fund and ERPC Fund as a member of ERPC and (ii) Powerlinks Transmission Ltd. be inducted as **Associate Member** of ERPC subject to their confirmation on contribution in ERPC Establishment Fund and ERPC Fund.

Regarding membership of DISCOM and TRADER on rotation basis for a period of one year and the proposal for contribution of Rs.Two Lakh in ERPC Establishment Fund and Rs.50000 in ERPC Fund, members did not agree to the proposal and resolved that all members of ERPC should contribute equally and at par with other members. Members advised Member Secretary,ERPC to communicate the decision to the DISCOM and TRADER.

ITEM NO.4 FUNDING OF ERPC SECRETARIAT

ERPC-ESTABLISHMENT FUND

A) FOR THE YEAR 2007-08

Contribution of Rs.10 lakh each from BSHPC and NESCO has not been received. Number of letters has been issued to BSHPC and NESCO but no payment has been received so far. As decided in the 10th ERPC meeting held on 11th April,2009, the matter has been brought to notice of MoP vide letter dated 17th June,2009 for suitable advice. Reply from MoP is awaited.

Members may please note.

DELIBERATION IN THE ERPC MEETING

Members noted.

B) FOR THE YEAR 2008-09

Contribution approved by ERPC : Rs.14 lakh per member of ERPC.

Contributions @ Rs.14 lakh have been received from all the members except from BSHPC, JUSCO and SOUTHCO. Number of letters has been issued to these organisations but no payment has been received so far. As decided in the 10th ERPC meeting held on 11th April,2009, the matter has been brought to notice of MoP vide letter dated 17th June,2009 for suitable advice. Reply from MoP is awaited.

Members may please note.

DELIBERATION IN THE ERPC MEETING

Members noted.

C) FOR THE YEAR 2009-10

In the 10th meeting of ERPC held on 11th April,2009 contribution of Rs.14 lakh per member for the year 2009-10 was approved by ERPC.

So far contributions have been received from the following organisations :

CESEC, WBPDC, OPGC, WBSEDCL, PTC, TVNL, NHPC, TPCL, NTPC, and DVC.

Contributions are pending from the following organisations :

BSEB, JSEB, OPTCL, WBSETCL, POWERGRID, OHPC, DPL, GRIDCO, SIKKIM, BSHPC, AEL and DPSC.

Members who have not contributed so far are requested to send their contribution to ERPC Secretariat at an early date.

DELIBERATION IN THE ERPC MEETING

It was informed by ERPC Secretariat that Power Grid and JSEB have also sent their contribution. Members who have not contributed so far, agreed to send their contribution expeditiously.

ITEM NO.5 CONTRIBUTION TO ERPC FUND

(A) Status of Contribution to ERPC FUND for the year 2006, 2007 and 2008-09

Contribution approved by ERPC for the year 2006 : Rs.38000 per member.
Contribution not received from : BSHPC, Tata Steel Ltd.

Contribution approved by ERPC for the year 2007 : Rs.38000 per member.
Contribution not received from : BSHPC, NESCO.

Contribution approved by ERPC for the year 2008-09 : Rs.50000 per member.
Contribution not received from : BSHPC, JUSCO & SOUTHCO.

Number of letters has been issued from time to time from to the above organisations requesting to send their contribution but without any response.

The matter was discussed in the 10th ERPC meeting held on 11.04.2009. As decided in the meeting, reminders have been issued to the above organisations for sending their outstanding contributions. But no response has been received from any of them.

Members may please note.

DELIBERATION IN THE ERPC MEETING

Members noted.

(B) Contribution to ERPC FUND for the year 2009-10

In the 10th ERPC meeting held on 11th April,2009 the Committee approved the annual contribution of Rs.50,000 per member to the **ERPC FUND** for the year 2009-10.

So far contributions have received from the following organisations :
WBSEDCL, WBSETCL, CESC, PTC, OPGC, TVNL, NHPC, TPCL, NTPC, DVC, POWERLINKS.

Contributions are pending from the following organisations :
BSEB, JSEB, OPTCL, POWERGRID, WBPDC, OHPC, DPL, GRIDCO, SIKKIM, BSHPC, AEL and DPSC.

Members who have not contributed so far are requested send their contribution to ERPC Secretariat at an early date.

DELIBERATION IN THE ERPC MEETING

It was informed by ERPC Secretariat that Power Grid and JSEB and DPSC have also sent their contribution. Members who have not contributed so far, agreed to send their contribution expeditiously.

ITEM NO.6 FINALISATION OF VENUE AND TENTATIVE DATE OF THE NEXT COMMITTEE MEETING

As per the roster finalised in the first ERPC meeting held in Kolkata on 25.05.2006, the next ERPC meeting is to be hosted by DVC.

The roster approved in the first ERPC meeting is given below :

Sl. No.	Host Organisation
1.	WEST BENGAL
2.	DVC
3.	NHPC
4.	PGCIL
5.	SIKKIM
6.	MEMBER, IPP
7.	MEMBER, TRADER
8.	ORISSA
9.	JHARKHAND
10.	BIHAR
11.	NTPC

DVC may agree to host the next meeting and Members may decide tentative date and venue for the next meeting.

DELIBERATION IN THE ERPC MEETING

After brief deliberation, it was decided that the next ERPC meeting would be held in December'09 / January'10. NHPC was requested to host the meeting, to be followed by DVC. The date and venue would be decided in due course of time.

In conclusion, Shri Pema Wangchen, Chairperson, ERPC summarised the decisions taken in the meeting and thanked WBSEDCL for excellent arrangement.

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

EASTERN REGIONAL POWER COMMITTEE

MINUTES OF THE 10TH TCC MEETING

Date: 28.08.2009

Venue : The Ffort Raichak Hotel

The list of participants is given at Annexure-B.

Shri P.B. Subba, Chief Engineer, Energy & Power Department, Govt. of Sikkim, chaired the meeting.

Shri Anirban Guha, Director (R&T), WBSEDCL welcomed the TCC members and other delegates to the 10th TCC meeting on behalf of WBSEDCL and WBSETCL. He informed that they had put in best efforts to make the stay of the guests pleasant and comfortable and requested them to contact the Nodal Officer in case of any difficulty. He mentioned that TCC is an important platform for resolving operational and commercial issues and positive and pro-active approach of constituent members is required for arriving at consensus. He wanted members to discuss the steep hike in cost of coal and its adverse impact on the distribution companies like WBSEDCL. He wished the meeting a grand success.

Shri R.K. Grover, Member Secretary, ERPC welcomed Shri P.B. Subba, Chairman - TCC, other TCC members on dais and all other participants. He specially welcomed Mr. D. Phuntshok, Director(Projects), Druk Green Power Corporation of Govt. of Bhutan and Shri M.L. Batra, Member Secretary, SRPC for attending the meeting as special invitee. He highlighted that monsoon failure which has affected hydro generation all over the country and raised concern for inadequate coal supply to thermal power stations in Eastern Region compounding the problem. He mentioned that Eastern Region is having huge coal reserve, ironically, it is the only region having coal shortage at the power stations. Even pit head stations are having only one day coal stock. He hoped that in the presence of the officers from Coal India and Railways, who have been specially invited for the meeting, the issues would be discussed in details and efforts would be made to work out a solution. He mentioned that the issues like capacity declaration of NTPC stations under coal shortage condition vis-à-vis its schedule, steep hike in fuel price adjustment of NTPC stations in ER, overdrawal by NR under low frequency conditions are slated for discussions and requested members to give their valued opinions on the issues. He thanked Shri Anirban Guha, Director, WBSEDCL and his team for excellent arrangements made for the meeting.

Shri P.B. Subba, Chairman-TCC and Chief Engineer, Energy & Power Department, Govt of Sikkim, welcomed all participants to the 10th TCC meeting. He said that issues like coal shortage was being discussed for quite some time and hoped for early solution of this problem. He also pointed out that overdrawal under UI mode was taking place during low frequency at the risk of grid security. In conclusion, he thanked WBSEDCL for hosting the meeting at a quiet place amidst verdant environment, perhaps best suited location near Kolkata for holding serious discussions on many contentious issues.

Shri D.P. Phunsthok, Director (Projects), Druk Green Power Corporation of Bhutan thanked ERPC for inviting Druk Green Power Corporation and WBSEDCL for making excellent arrangement for the meeting. He said that due to bad monsoon the hydro stations in Bhutan picked up its generation late, but presently generating at full capacity. He said

Bhutan is continuously learning from India and looked forward to the deliberations on various issues during the meeting.

Shri K.K. Agrawal, Executive Director(ER-I),Power Grid in his opening remarks mentioned that Power Grid is playing a leading role in transmission of power all over the country. He stressed that strengthening of protection system at State level is necessary, for want of which many a times undesirable tripping of protection systems of Power Grid takes place. He expressed willingness of Power Grid to help the States for incorporation of proper protection system and protection co-ordination.

Shri G.N.S. Munda, Member(Technical),JSEB said that inadequate rainfall and drought like situation have affected many States including Jharkhand. Low generation at thermal power stations due to coal shortage has severely affected availability of central sector generation. He hoped that some solution on coal supply problem would come out in the meeting.

Shri R.K. Sharma, Member (Transmission),BSEB stated that low generation by NTPC stations is affecting power supply position in Bihar. Of late peaking up of generation by the hydro plants in Bhutan has come to their rescue to some extent. He hoped that the issue of high FPA of NTPC stations would be resolved through discussion in the meeting.

Shri Alok Gupta, Chief Engineer(GM),CEA mentioned about overdrawal by some constituents. He said that maintenance of grid discipline is very important and all constituents have to co-operate. He suggested that the rotational load shedding may be implemented by the States having power shortage and indulging in overdrawal from the grid. He also informed that CEA is in the process of finalizing the guidelines for roof top solar system and open communication protocol for meters as per IEC 62056. He requested distribution companies to get in touch with Distribution Division of CEA for further details. He also requested the Distribution Companies to furnish details on capital expenditures made by them during the 11th Plan period to enable CEA to make a realistic assessment for the 12th Plan period.

Shri L.K. Kanungo, General Manager,ERLDC stated that in an integrated grid having very complex network configuration adherence to grid discipline as per regulations is very important. He mentioned that many issues have been slated for discussion and ERLDC would respond to those issues during the course of the meeting. He hoped that with collective wisdom of the members it would be possible to resolve the issues and arrive at consensus.

Shri A.C. Sarkar, Director(Transmission),WBSETCL said that April and May'09 had been a difficult time in West Bengal due to the devastation caused by 'Aila'. The transmission system has since been normalized. He stated that that as a transmission company they are geared up to transmit power generated by the generating companies.

Shri Utpal Bahattacharya, Executive Director (Corporate Services),CESC mentioned that CESC is doing reasonably well but also come across occasional problems in coal supply. He mentioned that land acquisition has become a problematic area for construction of transmission line. Out of 330 tower locations, problems still persist in 10 tower location, causing serious bottleneck in evacuation of power.

Shri P.K. Chakraborty, Director (FM & HR), WBPDC highlighted that due to shortage of coal the daily availability is restricted to 2700 to 2800 MW out of total

installed capacity of 3850 MW. During 2008-09 WBPDCCL's loss of generation due to coal shortage was 2100 MU. This year the daily loss of generation is about 10 MU per day. To tide over the coal shortage WBPDCCL have signed MOU with ECL for supply of additional coal at double the notified price. Some amount of coal is also imported. The overall increase in tariff would be about 40 paise per unit. He mentioned that at present ECL is supplying only 55% of their required quantity of coal.

Shri M. Majumder, Director(Operation), DPL mentioned about the problems related quantity as well as quality of coal supply. He said that earlier DPL used to get C or D grade coal, but at present they are getting below G grade coal. Further volatile matters are less than 20% while the ash contents are very high causing serious operational and environmental problems. He also mentioned about the difficulties in handling of BOBR rakes, resulting in increase in unloading time.

Shri P.C. Kumbhaj, General Manager(OS), NTPC highlighted the acute coal shortage at Farakka and Kahalgaon. He said that the power stations were expected to run at 90% PLF but were running at only 60 to 65 % capacity due to coal shortage. He also mentioned about the poor quality of coal in form of big boulders etc., causing unloading problem at the power stations.

ITEM NO.1 CONFIRMATION OF THE MINUTES OF 9th TCC MEETING OF ERPC HELD ON 10.04.2009 AT PORT BLAIR

The minutes of 9th TCC meeting of ERPC were circulated vide letter no. ERPC/Committee/2008/2648-95 dated 08.05.2009. No comments have been received on the minutes of the meeting.

Members may please confirm the minutes of 9th TCC meeting.

DELIBERATION IN THE TCC MEETING

Members confirmed the minutes of the 9th TCC meeting issued vide letter no. ERPC/Committee/2008/2648-95 dated 08.05.2009.

ITEM NO.2 HIGHLIGHTS OF GRID PERFORMANCE FOR THE PERIOD APRIL'09 TO JULY'09

2.1 FREQUENCY :

Frequency profile for the period April'09 to July'09 and the corresponding period of the previous year (i.e. April'08 to July'08) are shown below:

	2008-09	2009-10	2008-09	2009-10	2008-09	2009-10
	< 49.0 Hz	<49.2 Hz	49.0 to 50.5 Hz	49.2 to 50.3 Hz	>50.5Hz	> 50.3 Hz
	IEGC Band					
April	29.77	18.93	70.22	81.07	0.01	0
May	3.23	6.58	96.07	93.42	0.70	0

June	4.9	19.33	95.03	80.67	0.07	0
July	9.26	4.74	90.75	95.26	0	0

From the above table it may be observed that :

- Frequency profile within and below the IEGC band has recorded wide variation April'09 and June'09 compared to April'08 and June'08 respectively. During June'09 the frequency profile deteriorated compared to the profile in June'08.

DELIBERATION IN THE TCC MEETING

Members opined that as IEGC frequency band was changed w.e.f. 1st April 2009, frequency profiles given in above table in 2008-09 and 2009-10 were not strictly comparable. Members also noted that during early months of 2009-2010, Orissa generation suffered due to less generation from hydro stations.

2.2 PERFORMANCE REVIEW

Description	Average (MU)/Month			April'08 to July'08	April'09 to July'09	% Increase
	April'07 to March'08	April'08 to March'09	% Increase			
Net Generation (MU)/Month	7094	7584	6.9	7394	7692	4.0
Net Central Sector Thermal Generation (MU)/Month	2037	2147	5.4	2077	2296	10.5
Import from CPPs in (MU)/Month	127	190	49	156	272	73.7
ER Consumption (MU)/Month	6038	6505	7.7	6482	7022	8.3
Net Export to Outside Region (MU)/Month including transmission loss	1184	1269	7.2	1068	943	(-)11.8
Regional Peak Demand Met (MW)	10721	11789	10	10750	11983	11.5
Peak Export (MW)	3741	3630	-3	3148	3507	11.4

Generation : During the period under review, the overall generation in Eastern Region increased by about 4% compared to the same period of the last year. Although many new Units were commissioned during the last year, the overall increase in generation was marginal mainly because of less generation from newly commissioned units due to their frequent tripping, shortage of coal and less hydro generation due to inadequate rainfall.

Demand : During the period under review the regional peak met was 11983 MW, an increase of 11.5% compared to corresponding period of last year. The monthly average regional energy consumption was 7022 MU, an increase of 8.3% compared to the same period of the last year.

DELIBERATION IN THE TCC MEETING

Members noted the above.

2.3 MONTHLY AND CUMULATIVE EXPORT OF POWER FROM ER (BASED ON SEM FIGURES)

Table : 1

(A) EXPORT

Region To	Export in MU		Export in MU		% Growth in Export *	
	During July'09	Cumulative (April'09 to July'09)	During July'08	Cumulative (April'08 to July'08)	During July'09	Cumulative (April'09 to July'09)
NR	1565.54	4101.45	1122.32	2942	39.5	39.41
WR	0	0	89.57	516.31	NA	NA
SR	0	721.52	177.94	997.41	NA	-27.66
NER	0	228.19	0	61.41	0.00	271.58
TOTAL	1565.54	5051.16	1389.83	4517.13	12.64	11.82

B) IMPORT

Region From	Import in MU		Import in MU		% Growth *	
	During July'09	Cumulative (April'09 to July'09)	During July'08	Cumulative (April'08 to July'08)	During July'09	Cumulative (April'09 to July'09)
NR	0	0	0	0	NA	NA
WR	496.33	832.03	0	0	NA	NA
SR	331.88	507.48	0	0	NA	NA
NER	31.68	31.68	291.41	432.37	-89.12	-92.67
TOTAL	859.89	1371.19	291.41	432.37	195.07	217.13
Net Export from ER	705.65	3679.97	1098.42	4084.76	-35.76	-9.9

* As compared to similar period of last year.

NA – Not Applicable.

ACTUAL EXPORT OF POWER FROM ER VIS-À-VIS SCHEDULE

Table : 2

All Figures in MU

Month	NR		WR		SR		NER	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
April'09	-235.19	-415.32	-159.75	239.34	-583.59	-235.19	-134.91	-108.73
May'09	-718.62	-913.20	-68.88	7.06	-210.32	-191.54	-109.42	-82.67
June'09	-852.92	-1207.39	-245.97	89.30	152.14	175.60	-81.87	-36.79
July'09	-1198.68	-1564.54	-14.07	496.33	365.12	331.88	22.11	31.68
Total	-2996.41	-4101.45	-488.67	832.03	-276.65	-214.04	-304.09	-196.51

(-) = Export from ER

(+) = Import to ER

During the period under review i.e. April'09 to July'09, the net export outside Eastern Region was 3698 MU compared to 4085 MU during April'08 to July'08, showing a decline of 10%. During the period April'09 to July'09, NR drew 4105 MU against its schedule of 2996 MU, an overdrawal of 37%. Whereas, WR injected 832 MU to ER against its drawal schedule of 489 MU.

DELIBERATION IN THE TCC MEETING

Members noted the above.

ITEM NO.3 IMPORTANT GRID EVENTS DURING APRIL'09 TO JULY'09

- The perennial problem of tripping of HVDC Talcher-Kolar Poles on DC line fault was rectified on 05.04.09 by removing forest infringement at few locations along the HVDC line.
- On 19.04.09, CESC system suffered a collapse excluding radial loads at Titagarh, Kasba, Liluah.
- As per GOI order dated 01.07.09 scheduling of additional 30 MW central sector power to BSEB commenced w.e.f. 00:00hrs of 03.07.09 for assistance to Nepal through 132 kV Balmikinagar-Surajpura.
- Santaldih TPS Unit No.5 (250 MW) of WBPDC declared under commercial operation on 01.04.09.
- Bakreswar TPS Unit No.5 (210 MW) of WBPDC declared under commercial on 26.06.09.

Members may please note.

DELIBERATION IN THE TCC MEETING

Members noted the above. It was observed that 132 kV Balmikinagar-Surajpura line was not operational.

ITEM NO.4 RESERVOIR LEVEL OF IMPORTANT HYDRO STATIONS IN ER

The reservoir level of important hydro stations at last day of month for months April'09 to July'09 vis-à-vis last year level is given below:

Project	IC (MW)	FRL (m)	MDDL (m)	Year	April	May	June	July
Balimela	510	462.08	438.91	2009	440.16	439.43	439.21	444.01
				2008	446.29	443.39	441.53	441.02
Hirakud	331.5	192.02	179.83	2009	183.34	182.88	181.38	184.95
				2008	185.02	183.32	181.46	185.24
Indravati	600	641.84	625	2009	626.98	625.62	625.20	635.50
				2008	628.31	626.63	627.00	626.80
Rengali	250	123.44	109.72	2009	112.02	110.10	109.72	115.18
				2008	111.50	110.30	114.40	118.40
Upper Kolab	320	857.78	843.78	2009	846.13	844.87	844.51	848.47
				2008	847.94	845.51	844.87	845.10

From the above table, it may be noted that reservoir levels in the region have started improving from the month of July'09.

Members may please note.

DELIBERATION IN THE TCC MEETING

Members noted the above.

ITEM NO. 5 REVIEW OF COAL STOCK POSITION IN VARIOUS THERMAL GENERATING STATIONS IN EASTERN REGION

As on 02.08.09, out of 23 coal based thermal power stations in Eastern Region, 13 stations were critical with less than 7 days coal stock and 8 stations were super-critical with less than 4 days coal stock (Source: CEA website). Coal supply position to various power stations in ER as furnished to ERPC Secretariat is as below:

Sl. No.	Power Station	Capacity MW	Daily Coal Required '000 MT	Present Coal Stock '000 MT as 31.07.09	Linked Mines	Mode of transport
<u>NTPC</u>						
1	<i>Farakka STPS</i>	<i>1600</i>	<i>32.640</i>	<i>9*</i>	<i>Rajmahal (ECL)</i>	<i>Pithead</i>
2	<i>Kahalgaon STPS</i>	<i>1840</i>	<i>37.536</i>	<i>55*</i>	<i>Rajmahal (ECL)</i>	<i>Pithead</i>
3	<i>Talcher STPS</i>	<i>3000</i>	<i>57.600</i>	<i>57*</i>	<i>Lingaraj (MCL)</i>	<i>Pithead</i>
<u>DVC</u>						
4	BTPS-B	630	10.500	140.000@	CCL: Jharia & Kargail BCCL: Jharia	Rail
5	Chandrapura	750	6.500	340.309@	CCL: Jharia BCCL: Jharia	Rail
6	Durgapur	350	5.460	67.443@	ECL: Raniganj-Non-Rj BCCL: Jharia	Rail
7	<i>Mejia</i>	<i>1340</i>	<i>22.500</i>	<i>NIL@</i>	<i>ECL: Raniganj-Non-Rj</i> <i>BCCL: Jharia , Adra</i>	<i>Rail</i>
<u>Bihar</u>						
8	Barauni	320	0.6	26*	ECL, BCCL, CCL	Rail
9	<i>Muzzafarpur</i>	<i>220</i>	<i>1.0</i>	<i>1*</i>	<i>ECL, BCCL, CCL</i>	<i>Rail</i>
<u>Jharkhand</u>						
10	<i>Patratu</i>	<i>840</i>	<i>4.0</i>	<i>4*</i>	<i>CCL</i>	<i>Rail</i>
11	<i>Tenughat</i>	<i>420</i>	<i>6.6</i>	<i>7*</i>	<i>CCL: Pareh, Tapin, Kalyani, Kedla</i>	<i>Road</i>
<u>Orissa</u>						
12	IB TPS	420	8.0	131.198	MCL: Lakhanpur	Pithead
13	Talcher Old	470	8.3	124*	MCL	Pithead

Sl. No.	Power Station	Capacity MW	Daily Coal Required '000 MT	Present Coal Stock '000 MT as 31.07.09	Linked Mines	Mode of transport
West Bengal						
WBPDCCL						
14	Kolaghat TPS	1260	17.85	86.202	BCCL, ECL, MCL	Rail
15	Bakreswar TPS	840	10.80	45	ECL	Rail
16	Santaldih TPS	730	6.235	134	BCCL, ECL	Rail
17	Bandel TPS	450	4.970	31	ECL	Rail
18	Sagardighi	600	7.200	29	ECL	Rail
DPL						
19	DPL TPS	690	9.6	77	BCCL, ECL, MCL	Rail
CESC						
20	Budge-Budge	500	7.200	81.563	BCCL, ECL	Rail
21	<i>Titagarh</i>	240	3.400	8.218	ECL	Rail
22	Southern	135	2.500	19.402	ECL	Rail
23	New Cossipore	130	1.600	10.116	ECL	Rail

@ As on 07.08.09, * As on 02.08.09

Supercritical stations with less than 4 days coal stock are shown in bold and italics.

Due to low coal stock position, performances of thermal generating stations are severely dented resulting into critical condition of the grid. ER ISGS thermal stations are presently declaring lower availability mainly due to coal shortage. A comparative statement showing typical values of DC furnished by NTPC vis-à-vis full DC based on capacity of running units as on the beginning of August'09 is shown below:

Name of thermal ISGS	Full DC based on running units (MW)	DC furnished (Typical) MW	Availability furnished as % of full DC	Remarks
Farakka STPP	1017	700	69	U#5 (500 MW) is out of bar due to AMC
Kahalgaon -I	765	540	71	All units are on bar
Kahalgaon -II	925	540	58	All units are on bar
Talcher-I	925	910	97	All units are on bar

Following coal based thermal generating stations in Eastern Region have reported loss of generation in the month of July'09 due to shortage of coal.

Sl. No	Station	IC (MW)	Loss of generation in MU
1	Farakka STPS	1600	151.26
2	Talcher Stage-I	1000	65.33
3	Kahalgaon STPS	1840	278.83
4	Kolaghat TPP	1260	112.412

In earlier meeting, representatives of various generating stations mentioned about various coal related problems like shortage of coal, poor quality of coal (full of water and mud) and unloading constraints.

The matter was discussed in 41st OCC meeting of ERPC held on 18.08.09. There was divergence of opinion on some issues between generating companies, coal companies and Railways. Generating companies highlighted about inadequate and improper quality of coal supply. Coal companies while assuring supply as per linkage insisted for Fuel Supply Agreement for effective supply. Railways agreed to provide requisite rakes but highlighted the delay in unloading of rakes in some power stations. Considering the seriousness of the issue it was decided to place the matter before TCC for further deliberation.

Members may please discuss.

DELIBERATION IN THE TCC MEETING

During deliberation, it was learnt that Farakka and Kahalgaon did not have adequate coal linkage for full generation. It was felt that presently no coal linkage was available for new capacity addition of 1000 MW in Kahalgaon stage-II. Representative of NTPC informed that Farakka and Kahalgaon STPP were not able to generate to its full capacity due to shortage of coal. He stated that the schedule coal mines at “Hurrah C” and “Super Beta” for supply of coal to Kahalgaon could not be commissioned. He mentioned that against annual coal requirement of 27 MMT (Million Metric Tonnes), Farakka and Kahalgaon have Fuel Supply Agreement (FSA) with Coal India Ltd. (CIL) for 15 MMT. Representative of CIL informed that the above mines could not be developed due to land acquisition problems, environmental clearances etc and development of said mines would take another 2-3 years. It was noted that to meet the gap in coal supply, an additional 2 MMT of coal was being arranged at a premium rate through CIL and efforts are being made by NTPC to arrange balance quantity (10 MMT) of coal through import and procurement through e-auction. Members asked NTPC to make all out effort to arrange the coal required from linked mines and through imports or e-auction to ensure maximum generation and NTPC agreed to it.

Talcher STPP has annual coal requirement of 17.3 MMT and they have tied up coal supply with CIL. Representative of Talcher STPP reported less coal receipt, poor coal quality and non availability of surface miners & silos as constraints in full generation from Talcher. In this regard, Member Secretary, SRPC informed that he along with a team will be visiting Talcher STPP for examining the reason for low coal stock position in Talcher.

Representative of DVC informed that while the coal stock positions in Bokaro, Chandrapura and Durgapur were satisfactory, coal stock position in Mejia was abysmal. He added that Mejia suffered from loss of generation of 1284.610 MU due to shortage of coal during the period April'09 to August'09 (Upto 26th August). Against annual coal requirement of 6.9 MMT, they have signed FSA with ECL for 0.4 MMT and tied up supply with MCL for 4.2 MMT and with BCCL for 0.7 MMT. Representative of CIL pointed out that Mejia had inadequate coal unloading infrastructure, as a result of which Mejia was not able to take coal from MCL (Talcher) and some times rakes loaded for Mejia were also diverted to other side. Member Secretary, ERPC requested DVC to build sufficient unloading infrastructure. Representative of DVC reported that sometimes supply of boulder from BCCL mines resulted into unloading problem and consequential blocking of railway rakes.

Representative of DPL flagged various issues affecting coal stock position like supply of over sized coal from some rakes, regulated movement of rakes keeping in view the tunnels prevailing in ER (new stations are equipped with BOBR unloading facility) and high values of specific coal consumption.

Representative of GRIDCO informed that IB TPS also suffered from coal stock problems. Representative of CIL stated that apart from some sporadic instances in June'09, they did not notice any coal shortage problem in IB TPS and any specific event, if reported, would be looked into.

Members expressed their strong sentiments as thermal stations in Eastern Region (ER) were reeling under coal shortage in spite of the fact that Eastern Region is abound with coal reserves. Apart from inadequate linkage, some of the stations reported very low quality of coal (specific coal consumption was as high as 0.9 to 1.0 kg/kcal). In this regard, representative of CIL informed that earlier ER stations were mostly supplied with coal from ECL. He added that with depleting reserves in Raniganj, share of other coal field is increasing in ER coal portfolio resulting into higher specific consumption. He assured the members that Coal India would supply 313 MMT of coal to Indian Power Sector as per FSA. It was reported that CIL was going to set up 19 nos. of coal washeries equivalent to 100.6 MTY by 2011-12.

ITEM NO. 6 CORRIDOR CONSTRAINTS FOR EXPORT OF SURPLUS POWER FROM ER TO NR – ISSUE RAISED BY WBSEDCL

WBSEDCL have submitted that during July'09 there was sustained high overdrawal by NR. The overdrawal had reached as high as 600 to 800 MW. However, WBSEDCL's application for export of 100 MW power to NR was rejected by NRLDC on the ground of corridor constraints. Since WBSEDCL was denied open access for the month of July'09, it appeared that no margin was available for export of power to NR which inter-alia meant that the reliability margin of the transmission system would be at stake if it was allowed.

WBSEDCL have submitted that under the above circumstances the following issues need to be clarified / answered :

- i) Why NRLDC has been allowing sustained overdrawal by NR constituents ?
- ii) What action NRLDC has taken when sustained overdrawal by NR constituents at low frequency is observed ?
- iii) Web site information of NRLDC is not like other RLDCs. If there is any specific reason, it should be mentioned.

WBSEDCL may elaborate the issue and members may please discuss.

DELIBERATION IN THE TCC MEETING

During deliberation, it transpired that though NR is overdrawing on sustained basis to the tune of 600-800 MW, open access transaction of WBSEDCL was curtailed/refused on the ground of corridor constraints during the month of

June'09, July'09 and August'09. ERLDC representative informed that due to downstream grid constraint beyond Uttar Pradesh, WBSEDCL power was sometimes curtailed/refused. Sometimes day-ahead transaction was refused, as there was no margin available in ER-NR corridor after accounting for collective transactions. He opined that with interconnected operation of four grids, viz. ER, NR, WR and NER, the entire inter-regional exchanges should be considered rather than one particular inter-regional exchange. For the last few months, though NR is overdrawing from ER, but ER has overdrawn compared to its net inter-regional schedule with other regions. It was felt that in recent times due to typical generator disposition in Chattisgarh, WR power is wheeled to NR through ER, which further accentuates NR overdrawal from ER.

Representative of WBSEDCL pointed out that while curtailing/refusing open access transaction, actual constraints are not intimated. He further mentioned that unlike other RLDC websites, NRLDC website does not display real time actual vis-à-vis schedule drawal of NR constituents.

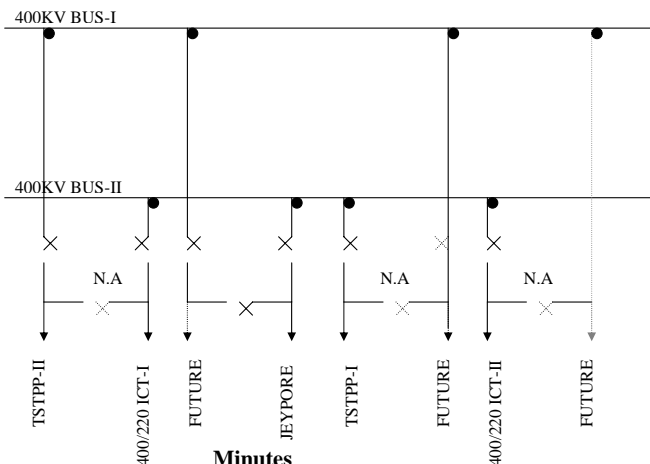
After detailed discussion, members referred the matter to ERPC.

**ITEM NO. 7 OPERATION CONSTRAINTS AT 400 kV MERAMUNDALI S/S
– ISSUE RAISED BY ERLDC**

The present configuration of lines/ICTs connected to 400 kV buses at Meramundali S/s are as follows:

Bus-I	Bus II
400 kV TSTPP-Meramundali-II	400 kV TSTPP-Mermundali-I 400/220 kV, 315 MVA ICT-1 400/220 kV, 315 MVA ICT-2 400 kV Meramundali-Jeypore

The tie-breakers for 400 kV TSTPP-Meramundali-II, 400/220 kV ICT-1, 400/220 kV ICT-2 and 400 kV TSTPP-Mermundali-I are not available at Meramundali end since long. As a result Bus-I & II remain synchronised only via the tie and main breaker of 400 kV Meramundali-Jeypore and any outage of these breakers leads to decoupling of the Buses. Therefore, with tripping of 400 kV Meramundali-Jeypore line, the Buses get decoupled and TSTPP-Meramundali-II becomes floating. **Switching arrangement at Meramundali S/s is given below:**



From the above diagram, the bus arrangement resembles incomplete one and half breaker scheme. In the present case, bus-I and bus-II are connected only by tie and main breaker of 400 kV Meramundali-Jeypore line and any outage of these breakers leads to decoupling of the buses. Non-availability of other tie breakers had forced the 400 kV Meramundali System to act like single bus scheme and unless these tie breakers are provided, system security is heavily endangered which might eventually lead to system collapse.

The issue was discussed in 39th OCC meeting of ERPC held on 19.06.09. Members requested OPTCL to arrange for these tie breakers on urgent basis. Until these arrangements are made, OPTCL was requested to explore the possibility of connecting ICT-II to bus-I so that interconnectivity between bus-I and bus-II gets strengthened.

OPTCL may intimate the latest status and members may discuss.

DELIBERATION IN THE TCC MEETING

Representative of OPTCL informed that order for spare breakers had been placed with M/s BHEL and hoped to sort out the issue within one and half month. OPTCL also agreed to connect ICT-II to bus-I so that interconnectivity between bus-I and bus-II gets strengthened.

ITEM NO.8 OPERATIONALISATION OF BALIMELA-UPPER SILERU LINE

SR is undergoing severe power crisis and both the HVDC links i.e. Talcher-Kolar (2500MW) and Gazuwaka (1000MW) link are being fully utilized. After the utilization of full capacity also, the financial market split occurred due to transmission congestion. In this regard the inter-regional export could have been increased by around 100-150 MW with the operationalisation of Balimela-Upper Sileru line. OPTCL is requested to explore the possibility of exporting power through Balimela –U.Sileru line.

The issue was discussed in 37th OCC meeting of ERPC held on 17.04.09. In the meeting, it was decided that ERLDC would organize a meeting between OPTCL & OHPC to explore the possibility of operationalisation of Balimela-Upper Sileru line.

ERLDC may inform the latest status and members may please discuss.

DELIBERATION IN THE TCC MEETING

It was noted that the line was healthy but not in operation. As the utilisation of the line would depend on Andhra Pradesh and Orissa, it was decided to hold a meeting with representatives from APGENCO, OPTCL, OHPC and any other concerned parties. Representative of OHPC advocated to arrange the meeting.

ITEM NO.9 400 KV SUBSTATION OF DVC AT JAMSHEDPUR WITH LILO OF ONE CIRCUIT OF 400 KV DURGAPUR (PG)-JAMSHEDPUR (PG)

DVC has proposed for setting up of 400 kV Substation at Jamshedpur with LILO of one circuit of 400 kV Durgapur (PG)-Jamshedpur (PG) to cater power supply to additional loads. PGCIL agreed in-principle to the proposal subject to agreement of constituents of Eastern Region and requested DVC to take up the matter with CEA for discussion in next Standing Committee meeting on Power System Planning in Eastern Region.

As the matter is getting delayed, DVC has requested to settle the matter as a special case in ERPC forum so that activities towards setting up a new 400 kV Substation at Jamshedpur can be expedited for meeting DVC's additional requirement of power.

The issue was discussed in 39th OCC meeting of ERPC held on 19.06.09. In the meeting, members agreed to the above proposal subject to that all associated cost for construction would be borne by DVC. DVC and PGCIL would settle the other formalities. It will not be a regional asset.

DVC may apprise the members and members may please discuss.

DELIBERATION IN THE TCC MEETING

It was learnt that the matter had been put up as an agenda point in the ensuing Standing Committee Meeting (SCM) on Power System Planning for Eastern Region, which would be held in 3rd week of September'09. Members requested DVC to take up the matter in the aforesaid SCM.

ITEM NO.10 STATUS OF NEW GENERATING UNITS/TRANSMISSION ELEMENTS EXPECTED TO BE COMMISSIONED DURING 2009-10

A) Generating Station:

Sl. No	Name of Project	Agency	Unit Size	Status
1	Kahalgaon STPP	NTPC	U#7 (500 MW)	Test synchronized on 31.03.09. Commercial operation would be started in another month.
2	Bakreswar TPS	WBPDC	U#5 (210 MW)	Test synchronized on 30.03.09. COD on 26.06.09
3	Budge-Budge TPS Extension	CESC	U#3 (250 MW)	Test synchronized on 12.07.09. Commercial operation not yet started.
4	Sterlite TPP	Sterlite Ltd. (Orissa)	U#1 (600 MW)	Expected by January'10

Sl. No	Name of Project	Agency	Unit Size	Status
5	Teesta Low Dam-III HEP	NHPC	4x 33 MW	Expected by February' 11
6	Chandrapura TPS	DVC	U#7 & U#8 (2x250 MW)	Expected by Dec'09

B) Transmission Elements:

Sl. No	Name of line	Expected date of Commissioning
1	Transmission system associated with Barh generation project (3x660MW) i) LILO of 400kV KhSTPP-Patna S/C (Quad) at Barh ii) 400kV Barh –Balua D/C (Quad)	Bay not ready June,09
2	East West Corridor strengthening scheme-I i) 400kV Ranchi-Rourkela D/C ii) 400kV Rourkela-Raigarh D/C	November'09 January'10
3	Transmission system associated with Mejia Units 5& 6 i) 220kV Mejia- Ramgarh via Gola D/C	March' 10
4	Transmission system associated with CTPS Unit#7 & #8 i) LILO of 220kV CTPS-Kalyaneshwari at Dhanbad ii) 220kV Dhanbad-Giridih iii) 220kV Giridh-Kodarma iv) 220kV CTPS-Pithakari (PG) bypassing Kalyaneshwari v) 220kV LILO of CTPS –MTPS at Kalyaneshwari & Ext. to Pithakari	Dec'09 March'10 March'10 September'09
5	Transmission system associated with Sagardighi TPS i) 400kV Sagardighi – Parulia D/C	September,2009
6	Eastern Region strengthening scheme i) 400kV Durgapur-Jamshedpur 2nd circuit ii) 400kV Jamshedpur-Baripada D/C iii) 400kV Baripada –Mendhasal D/C iv) 400kV Durgapur –Maithon D/C	April'10 -do- -do June,2010

Members may kindly note and update recent developments, if any.

DELIBERATION IN THE TCC MEETING

Commissioning target, as updated by constituents, are given in the above table. All concerned were requested to adhere to the time schedule given by them.

ITEM NO.11 IMPLEMENTATION OF RECOMMENDATION OF THE COMMITTEE TO INQUIRE INTO CESC GRID DISTURBANCE ON 19.04.09

A system disturbance occurred in CESC command area on 19.4.09 at 16:42 Hrs after bursting of B-phase CT of 132kV Howrah-Liluah circuit IV at Howrah end. While CESC system was able to isolate itself from WBSETCL, the entire system, excepting the loads at Kasba and Titagarh, supplied radially from WBSETCL, collapsed as its all running units tripped. The total load loss of CESC was more than 1000MW and it took almost 8 hours to achieve total normalcy of CESC. However, the rest of WBSETCL and Eastern Grid was not affected by the aforesaid disturbance. Subsequently, a committee comprising of representatives from WBSETCL, CESC, ERLDC & POWERGRID was constituted by CEA on 05.05.09, pursuant to Section 73(1) of the Electricity Act 2003 under the chairmanship of Member Secretary, ERPC, to enquire the grid disturbance. The Committee has submitted its report to Secretary, CEA and members of the Committee vide letter dated 2nd July 2009 and is also available in ERPC website. The issue was discussed in the 6th Protection Co-ordination sub-Committee meeting of ERPC held on 21.07.09. Action taken by various constituents against the recommendations is indicated below:

Sl. No.	Recommendation	Action to be taken by	<i>Action taken</i>
1	The timer setting of the under-voltage trip feature of the auxiliary board at Budge-Budge generating station needs to be reviewed	CESC	already changed from 2 sec to 5 sec
2	Replacement of CTs in WBSETCL S/Stns where tan delta values were higher than 1.0	WBSETCL	Listed out CTs that need to be replaced
3	Incorporation of bus-bar differential protection scheme at all such tie substations of WBSETCL	WBSETCL	In the process of installing bus bar protection
4	CESC may consider a special protection scheme for forming sustainable islands viz. New Cossipore, Titagarh with matching load of North Calcutta, under such circumstances.	CESC	Carrying out feasibility study for such islanding scheme
5	CESC may explore provision of df/dt relays for actuation of load shedding at suitable locations, for achievement of load generation balance	CESC	Expressed reservation about utilization of such df/dt scheme. However agreed to explore the same.
6	Adequate battery back-up in all substations of CESC	CESC	Already arranged for Jadavpur S/s
7	Checking of SOE for Howrah 220/132kV ICT-3	WBSETCL	In the process
8	Hotline communication between ERLDC and CESC	CESC	CESC was requested to utilize spare channel already existing between CESC and ERLDC for voice

Sl. No.	Recommendation	Action to be taken by	<i>Action taken</i>
			communication.

Members may kindly note and update recent developments, if any.

DELIBERATION IN THE TCC MEETING

Members noted the above.

ITEM NO.12 CONSTRAINTS IN EVACUATION OF POWER FROM TENUGHAT TPS OF TVNL

The existing arrangement for evacuation of power from Tenughat TPS (2x210MW) of TVNL is through two transmission lines viz. 220 KV TTPS-Biharshariff S/C line and 2200 KV TTPS-Patratu S/C line (both 400 KV S/C line but charged at 220 KV). Whenever both the units of TVNL are operational, there is a backing down of generation at TTPS due to grid constraints. For proper evacuation of power from TTPS upgradation of TTPS switchyard to 400 KV and charging of Tenughat-Biharshariff line at 400 KV are essential.

The issue was discussed in 8th TCC meeting held on 20th November,2008 wherein TVNL had stated that cost estimate for up-gradation of 220 KV Tenughat-Biharshariff line had been prepared and tender would be floated shortly.

In the 41st OCC meeting held on 18.08.2009 Powergrid informed that requisite work at their 400 KV Biharshariff Sub-Station is under progress.

TVNL and Powergrid may apprise the members about the present status of work and members may please discuss.

DELIBERATION IN THE TCC MEETING

It was noted that 400 kV bay at Tenughat S/s was not ready and TVNL had requested Powergrid to construct 400 kV bay at Tenughat. In order to obviate backing down of generation at TTPS due to grid constraints, TVNL was requested to take up the matter at the earliest.

COMMERCIAL MATTERS

ITEM NO.13 A) PAYMENT OF UI -- PRESENT STATUS

The status of UI payment as on 19.07.2009 as received from ERLDC is enclosed at Annexure-I. As per Hon'ble CERC order dated 4th June, 2008 against petition no. 54/2008 (Suo-motto) and further order dated 15.03.2009, BSEB has cleared principle outstanding dues for the year 2008-09. However, interest amount of Rs.159.51941 lakh due to delayed payment of UI charges for the year 2008-09 is yet to be paid by BSEB. In addition to this, BSEB is required to pay an interest amount of Rs.35.0247 lakh for the year 2009-10 due to delayed payment of UI charge calculated

as on 31.07.2009. Thus the total payable amount by BSEB on account of interest is Rs.194.54411 lakh.

Members may please note the present UI status. In the last Commercial Sub-Committee meeting held on 25.06.2009 at ERPC, Kolkata, the proposal of adjustment of interest amount due to delayed payment of UI charges for the year 2008-09 in respect of BSEB against UI amount to be paid to BSEB from UI pool was discussed. BSEB representative agreed to furnish the consent to ERLDC in writing.

BSEB representative is requested to confirm.

DELIBERATIONS IN THE TCC MEETING

It was informed by BSEB representative in the meeting that BSEB had already given its consent in writing to ERLDC for adjustment of interest amount due to delayed payment of UI charges for the year 2008-09 against UI amount receivable by BSEB from UI pool.

B) REACTIVE ENERGY CHARGES -- PRESENT STATUS

The updated position of Receipt/Payment in the ER Reactive Pool for bills upto 26.07.2009 as received from ERLDC is indicated at Annexure-II.

Members may please note.

DELIBERATIONS IN THE TCC MEETING

Members noted.

C) 'IRE POOL' ACCOUNT OF ER WITH OTHER REGIONS -- PRESENT STATUS

As received from ERLDC, settlement of IRE account with SR has taken place till 52nd Week of 2008-09 i.e. upto 29.03.09 and an amount of Rs.32974.96506 lakh has been disbursed to POWERGRID for giving transmission benefits to ER beneficiaries. Enclosed statement at Annexure-III shows the details of IRE disbursements and the transmission benefit given to ER beneficiaries as settled as per ER and SR IRE account.

The net IRE amount to be received from NR towards ER-NR exchange upto 26.08.06 has duly been reconciled and is Rs.11354.53007 lakh. NR has cleared all the outstanding IRE amount of Rs.11354.53007 lakh, which has already been disbursed to POWERGRID for giving transmission benefits to ER beneficiaries in proportion to the weighted average share for the corresponding years. A statement of transmission benefit to be allowed to ER beneficiaries against payment of Rs.11354.53007 lakh is shown at Annexure-IV.

In the last Commercial Sub-Committee meeting held on 25.06.2009 at Kolkata, it was brought to the attention of the members present by Member Secretary, ERPC that an amount of Rs.443.28 lakh has been disbursed to POWERGRID for giving transmission credits to the ER beneficiaries. This has provided a considerable relief to the ER beneficiaries.

This is for the information of the members.

DELIBERATIONS IN THE TCC MEETING

Members noted.

D) POOL BALANCE DUE TO CAPPING OF UI RATE FOR NTPC STATION AT ER

As received from ERLDC, ER UI pool has accrued a total pool balance of Rs.12018.24822 lakh for the year 2008-09 and Rs. 594.72556 lakh for the year 2009-10 (upto 19.07.2009) due to capping of UI of thermal ISGSs. These amounts are presently available in the ER UI pool account as pool balance due to capping.

This is for the information of members.

DELIBERATIONS IN THE TCC MEETING

Members noted.

E) MAINTENANCE OF ACCOUNT FOR UI CHARGE, ADDITIONAL UI CHARGE, POOL BALANCE DUE TO CAPPING OF NTPC STATIONS AND INTEREST ON UI DUE TO DELAYED PAYMENT

As per Clause 9 “Unscheduled Interchange Charges Accounting” of the CERC (Unscheduled Interchange Charges and related matters) Regulations 2009, all payments on account of Unscheduled Interchange charges including the Additional Unscheduled Interchange Charges levied under these regulations and interest received on late payment thereof shall be credited to a **Fund called the “Unscheduled Interchange Pool Account Fund”**, which shall be maintained and operated in accordance with provisions of the Grid Code.

CERC vide its order no. L-7/25(5)/N/2003 dated 14.01.2008 capped the UI rate for coal, lignite and APM gas fired generating stations to 406 paise/kWh., which was further revised as 408 paise/kWh vide new regulation dated 30.03.09.

It has been informed by ERLDC that the total pool balance accumulated on account of capping is Rs.12018.24822 lakh for 2008-09. ERLDC proposed that as the amount so getting accumulated due to capping of UI rate for ISGS thermal stations and additional UI charge applicable for over drawal / under-generation at a frequency below 49.2 Hz, therefore, ERLDC may have a separate Bank Account for amount getting accumulated due to additional UI charges applicable for over drawal / under-generation at a frequency below 49.2 Hz and capping of UI rate for ISGS thermal stations.

ERLDC may further elaborate and enlighten the methodology being followed at present and to be followed in future to maintain the account(s).

Deliberations in the Commercial Sub-committee meeting held on 25.06.09

During the deliberation, it was informed by ERLDC that in all other regions separate account have already been opened for proper segregation of UI charges, pool balance, etc.

In this connection, Superintending Engineer (Comml), ERPC drew the attention of the members to the Clause 9 of the CERC (Unscheduled Interchange Charges and related matters) Regulations 2009 wherein it has been clearly mentioned that all payment on account of Unscheduled Interchange Charges including Additional Unscheduled Interchange Charges levied under this regulation and interest received on late payment shall be credited to a fund called “Unscheduled Interchange Pool Account Fund”. He requested ERLDC to examine whether its proposal of opening separate account would be in agreement of Clause 9 of the above regulations.

After detailed deliberations, members present in the meeting authorized ERLDC to take appropriate action keeping in view the procedure being followed in other RLDCs and the provisions of CERC regulations.

ERLDC may please update the latest position.

DELIBERATIONS IN THE TCC MEETING

It was informed by General Manager, ERLDC that separate accounts are already being maintained in other regions like NER, SR and WR. Therefore, he requested the members to allow ERLDC to open separate account in respect of UI charge, additional UI charge, pool balance due to capping of NTPC stations and interest of UI due to delayed payment.

It was pointed out by NTPC that the amount available in the pool due to capping of NTPC stations is being utilized for payment of outstanding UI dues. Maintaining separate UI account and pool balance account due to capping may pose difficulty in settling outstanding bills.

Superintending Engineer (Comml), ERPC submitted that in accordance with the clause 9 of CERC (Unscheduled inter-change charges and related matters) Regulations 2009, all payments on account of unscheduled inter-change charges including additional unscheduled inter-change charges levied under this regulations and interest received on delayed payment shall be credited to a fund called “Unscheduled Inter-change Pool Account Fund”. He submitted that if opening of separate accounts would not violate clause 9 of the above regulations, ERLDC is at liberty to open separate accounts.

ITEM NO.14 STEEP HIKE IN FUEL PRICE ADJUSTMENT (FPA) PRICE

A communication dated 01.07.2009 has been received by ERPC Secretariat from Chairman,ERPC & PCE-cum-Secretary, Energy & Power Department, Govt. of Sikkim, endorsing therewith the letter of Chairman, BSEB, regarding the steep rise in FPA (Copy along with enclosures given for ready reference as Annexure-V). This issue was raised in the 10th ERPC

meeting also. In his letter dated 08.05.09 as above, Chairman, BSEB has expressed concern regarding the steep hike in the fuel price adjustment (FPA) price from December,2008 onwards due to import of coal by NTPC for their power stations in Eastern Region for which BSEB is severely constrained financially. It has been highlighted that compared to November'2008 figures, the enhancement in the energy charges bills of NTPC due to FPA have been increasing and reached as high as 89% for the months from December'2008 to March'2009.

Intimating that though BSEB is seeking information and convincing clarifications for such FPA hike from NTPC, he has proposed a common approach that could be followed by addressing the issue to the Central Commission from the point of view of all the beneficiaries in the Eastern Region through an appropriate application. It has been suggested by him that in order to seek justice and minimise litigation, Member Secretary, ERPC to file the application before the Central Commission and seek clarification on the above subject from the Commission.

Members may discuss and deliberate.

DELIBERATIONS IN THE TCC MEETING

BSEB raised the issue of steep hike in fuel price adjustment (FPA) in respect of NTPC stations of Eastern Region in recent times. He also mentioned that convincing clarifications from NTPC regarding such steep hike in FPA was not forthcoming. He further pointed out that since BSEB has to depend solely on supply from ISGS sources, the steep hike in FPA has resulted substantial increase in electricity charges payable by BSEB to NTPC.

General Manager (Comml), NTPC informed that NTPC stations in ER were facing acute coal shortage resulting in less generation at Farakka, Kahalgaon and Talcher. To mitigate coal shortage, matter has been taken up with Coal Companies, MoP & CEA. In view of regular shortage of coal, it was decided by GoI to import coal to meet the shortfall. To mitigate the shortage and to augment generation at the station, coal was imported and thereafter generation at NTPC stations at Farakka, Kahalgaon and Talcher improved significantly. Further, NTPC is putting best efforts for increase in supply of domestic coal for all power stations in Eastern Region. However, domestic coal supply position has not improved. Considering the grim power situation and the demand of beneficiaries, use of imported coal / procurement through e-auction will be required resulting in increased FPA. It was explained by NTPC that all necessary details as required under CERC regulations are regularly furnished to CERC as well as to beneficiaries.

NTPC further informed that they had already furnished certain information to BSEB in writing. If BSEB requires any more information, NTPC would furnish the same to BSEB.

In conclusion, Member Secretary, ERPC suggested that both BSEB and NTPC would sit together and make necessary computation to arrive at the rationale of increase of FPA in recent times. In case of any disagreement in this regard, ERPC Secretariat may be associated in the above work. The

detailed computation would be presented jointly by BSEB and NTPC in the next Commercial Sub-Committee meeting of ERPC.

ITEM NO.15 PEAK HOURS SCHEDULING OF THERMAL POWER PLANTS (ISGS) UNDER COAL SHORTAGE CONDITION

As per Clause 21 (4) of CERC Tariff Regulation 2009

Quote

In case of fuel shortage in a thermal generating station, the generating company may propose to deliver a higher MW during peak-load hours by saving fuel during off-peak hours. The concerned Load Despatch Centre may then specify a pragmatic day-ahead schedule for the generating station to optimally utilize its MW and energy capability, in consultation with the beneficiaries. DCi in such an event shall be taken to be equal to the maximum peak-hour ex-power plant MW schedule specified by the concerned Load Despatch Centre for that day.

Unquote

The issue regarding certifying fuel shortage, methodology of preparation of schedule during peak hours, duration of peak hours, etc were deliberated in details in the 9th Commercial Sub-Committee meeting held on 23.03.2009 and in the 9th TCC meeting held on 10.04.2009. As per the decisions in the above meetings, the issues were referred to CERC, who subsequently convened a meeting on 23.04.2009 of all RPCs and RLDCs at CERC office, New Delhi. It was indicated in the meeting by CERC that the pertinent issues need to be addressed at each RPC level separately. Accordingly, in the 38th OCC meeting held on 15.05.2009, it has been decided that for the purpose of scheduling under fuel shortage condition, peak hours for the month of June 2009 would be considered from 1830 hrs to 2130 hrs. In the 10th Commercial Sub-Committee of ERPC, this was conveyed by ERPC to the members.

ERLDC has been scheduling NTPC power stations of Eastern Region accordingly under the coal shortage conditions. As per new tariff regulations of CERC, under normal condition, NTPC declares availability for all the 96 blocks of the day. DCi for a day is taken as the average of all the 96 blocks availability of the day. Accordingly, the monthly DCi is computed as average of the daily DCi for the recovery of the fixed charge and incentive, if any. Under condition of shortage of coal NTPC declares daily energy availability in terms of MU or MWH including the maximum and minimum generation in MW that could be generated by NTPC stations in a block. RLDC gives the maximum and minimum entitlements for each beneficiaries of the stations of NTPC for each block subject to the constraints that the beneficiaries total entitlement would be limited to the allocated share based on the energy availability by the stations. Based on the requisitions received from the beneficiary of concerned NTPC stations, RLDC prepares the schedule. As per the CERC regulation "DCi in such an event shall be equal to the maximum peak hours ex-power plant MW schedule specified by the concerned Load Despatch Centre for the day." As has already been mentioned earlier, the peak hours in the OCC meeting has been declared spanning from 1830 hrs to 2130 hrs. While preparing the REA the schedule finalized by RLDC for NTPC stations under coal

shortage, the DCi is computed as average of the 12 blocks schedule from 18.30 hrs to 21.30 hrs. Fixed charge recovery of the day under coal shortage condition would depend solely on the DCi computed as above. Now, if the beneficiary constituents give higher requisition than the average during peak hours, the DCi would be more and accordingly NTPC would be in a position to recover higher fixed charges for the day by generating more than average during the peak hours. In earlier occasions, NTPC stations under coal shortage benefited from above.

However, in the month of July'09, there were instances of giving less requisition during the peak hours by the beneficiaries resulting slightly lower than average DCi for NTPC stations. In this context, it is mentioned that ERPC secretariat has received a letter from General Manager (OS), NTPC, ERHQ, Patna addressed to Member Secretary, ERPC, copy endorsed to General Manager, ERLDC, Kolkata (copy enclosed at Annexure-VI).

In this connection, it is brought to the attention of the members that the scheduling methodology is not binding on the generator under coal shortage conditions. In exercising this option, if NTPC is having any problem, NTPC may declare availability as per normal methodology which will be acceptable to all the beneficiaries.

Members may please discuss.

DELIBERATIONS IN THE TCC MEETING

NTPC stated that Clause 21(4) in the CERC Tariff Regulations for 2009-14 has been introduced to provide optimal usage of fuel during fuel shortage conditions. The generator would make an extra effort to provide maximum capability during peak hours thereby providing beneficiaries the opportunity to avoid a part of their high cost power purchase. The clause provides for pragmatic scheduling to optimally utilize both the MW and energy capabilities. It envisages saving of fuel during off-peak hours to meet higher MW scheduled during peak hour by the beneficiaries.

In view of the above, NTPC stated that when DC is declared under fuel shortage conditions with higher MW offered during peak hours, the schedule should ensure higher peak MW during the designated peak hours compared to the rest of the day. Further, under no circumstances, the certified DC for the day should be below the total energy capability offered for the day, as the same would defeat the very purpose of the clause. Certification of DC during such instances should strictly be in accordance with the provision of the clause, i.e. "DCi in such an event shall be taken to be equal to the maximum peak-hour ex-power plant MW schedule specified by the concerned Load Despatch Centre for that day."

It was pointed out by ERPC Secretariat that the instances cited by the NTPC was a matter of aberration. In earlier cases, peak hour schedule was generally much more than off peak hour schedule. Member Secretary, ERPC hoped that such instances would not recur in future except on emergency situation.

ITEM NO.16 ADDITIONAL UI CHARGE ON ACCOUNT OF INTER-REGIONAL POWER EXCHANGE

ERPC has been issuing the weekly UI account in accordance with the Clause 7(3) of the Central Electricity Regulatory Commission (Unscheduled Interchange Charges and related matters) Regulations 2009, effective from 01.04.2009. In the UI account, ERPC has been reflecting the additional Unscheduled Interchange Charge at the rate equivalent to 40% of the UI rate corresponding to the frequency of 49.2 Hz for overdrawl / under-inject power including inter-regional transactions when the frequency is below 49.2 Hz.

The purpose of imposing 40% additional Unscheduled Interchange Charges below 49.2 Hz was to discourage and dissuade overdrawl and maintain grid stability. It was, in fact, continuation of UI only but more stringent at 49.2 Hz & below.

In consonance with this spirit, ERPC has been levying 40% additional Unscheduled Interchange Charges on its own constituents as well as other inter-regional beneficiaries like NR, WR, etc. for overdrawl / under injection below 49.2 Hz. However, same is not being followed in other regions for inter-regional transfers and they have requested ERPC to discontinue this additional Unscheduled Interchange Charges for inter-regional transfers.

It has been stipulated in the Clause 11 of the CERC Regulation that the amount available after final settlement of the claims of Unscheduled Interchange Charges of the generating stations and the beneficiaries shall be utilized with the prior approval of the Commission for either or both of the following activities :

- a) servicing of investments of transmission scheme of strategic importance ;
- b) providing ancillary services.

If the other regions overdraw power below 49.2 Hz and retain additional Unscheduled Interchange Charges instead of transferring to the Eastern Region UI Pool account, ER would be double sufferer by -

- (i) losing benefit of its own power;
- (ii) non-availability of extra amount for undertaking strengthening of inter-State transmission network of strategic importance in the Eastern Region.

It is understood that NR & WR are charging 40% additional Unscheduled Interchange Charges from their own defaulting constituents. However, they are unwilling to pay the same to exporting agency, i.e. ER. ERPC failed to understand this dichotomy. The very argument that additional Unscheduled Interchange Charges is not payable in case of inter-regional transactions defeats the very spirit and purpose of this notification.

ERPC vide letter no. ERPC/COM-II/UI Corr/2009/3501-11 dated 17.06.09 has already been taken up the issue with CERC for clarification.

This is for the information of members.

Deliberations in the Commercial Sub-committee meeting held on 25.06.09

Superintending Engineer (Comml), ERPC explained in details the rationale of imposing 40% Additional Unscheduled Interchange Charges below 49.2 Hz for inter-regional transactions also. He also brought the attention of the members to the letter written by WRPC. He further informed that ERPC is expecting clarification from CERC in this matter.

POWERGRID representative present in the meeting endorsed the action taken by ERPC and emphasised that the Additional Unscheduled Interchange Charges should also be applicable for inter-regional transactions in accordance with the CERC notification dated 30.03.2009. There was no objection from any quarter against imposing 40% of Additional Unscheduled Interchange Charges below 49.2 Hz for inter-regional transactions by ERPC.

Members may please discuss.

DELIBERATIONS IN THE TCC MEETING

Member Secretary, ERPC apprised the members regarding the rationale of imposing additional UI charges on inter-regional power exchanges in accordance with the clause 7(3) of CERC (Unscheduled Interchange Charges and related matters) Regulations 2009. He also informed that the issue has been already referred by ERPC to CERC for clarifications. The same is awaited.

ITEM NO.17 ALLOCATION OF POWER FROM SUBANSIRI HYDRO ELECTRIC PROJECT(2000 MW) AND KAMENG HYDRO ELECTRIC PROJECT (600 MW) IN ARUNACHAL PRADESH

MoP / GoI in their letter vide No. 11/1/2002-DO (NHPC) dated 14.07.2009 communicated allocation of power in favour of NER, NR and WR from the under-mentioned power stations as indicated below :

From Subansiri HE Project (2000 MW)

<u>Sl.No.</u>	<u>Regions</u>	<u>% age Allocation</u>	<u>Equivalent Power in MW</u>
1.	Power alloc. to NER incl. free power to home state (13%) & Unallocated share at the disposal of Centre to be alloc. to NE states (15 %)	50	1000

<u>Sl.No.</u>	<u>Regions</u>	<u>% age Allocation</u>	<u>Equivalent Power in MW</u>
2.	Northern Region	25	500
3.	Western region	25	500

From Kameng HE Project (600 MW)

<u>Sl.No.</u>	<u>Regions</u>	<u>% age Allocation</u>	<u>Equivalent Power in MW</u>
1.	Power alloc. to NER incl. free power to home state (12%) & Unallocated share at the disposal of Centre to be alloc. to NE states (15 %)	50	300
2.	Northern Region	25	150
3.	Western region	25	150

Members may please note.

DELIBERATIONS IN THE TCC MEETING

It was observed by Director, WBSEDCL that while finalising the Subansiri HE Project (2000 MW), an MOU was signed by the then WBSEB for the investment approval of the above project. While making the perspective planning, West Bengal had assumed that quantum of power as available to it. He informed that West Bengal has taken strong observation against the non-inclusion of West Bengal as a beneficiary of the above project and had already registered a protest in writing to Government of India. He also informed that West Bengal would spare no stone unturned in getting allocation from the above project.

It was observed by Director (Comml), GRIDCO that it transpired that the initial agreement with the generator for investment approval has no sanctity, so he proposed that CEA should be entrusted in future for such agreement with the beneficiaries during investment approval.

BSEB also supported the proposal.

After deliberations, it was decided to refer the matter to ERPC for further advice.

ITEM NO.18 INCENTIVE ENERGY STATEMENT FOR NTPC STATIONS IN EASTERN REGION FOR THE PERIOD APRIL, 2008 TO MARCH, 2009.

The provisional incentive energy statement for 2008-09 i.e. for the period from April'08 to March'09 in respect of NTPC stations in ER was issued by ERPC Secretariat vide letter No. ERPC/COM-I/REA/2009/3611-43 dated 24/25.06.09. The Incentive Energy of NTPC stations in ER payable by the beneficiaries for the year 2008-09 were as under :

STATION	PERIOD	INCENTIVE ENERGY (MWH)
Farakka STPS Stage - I	APRIL'08 TO MAR'09	0.00

Kahalgaon STPS Stage - I	APRIL'08 TO MAR'09	0.00
Kahalgaon STPS Stage - II	APRIL'08 TO MAR'09	0.00
Talcher STPS Stage - I	APRIL'08 TO MAR'09	685190.93

Members may please note.

DELIBERATIONS IN THE TCC MEETING

Members noted.

ITEM NO.19 REQUIREMENT OF SEMs UPTO 2012 (11TH PLAN PERIOD)

The proposal for requirement of Special Energy Meters (SEMs), for new power system elements covered under 11th Plan Period (up to 2012), was prepared and circulated by ERLDC in the OCC meeting held on 17th May,2009 at ERPC, Kolkata. ERLDC had forwarded the requirement of 605 Nos. of SEMs (550 Nos. as per list with 10 % Spare Meters i.e. Requirement of Total No. of SEMs as 605 Nos.) to Powergrid for initiating necessary action for procurement. In addition, as per ERLDC / Powergrid, depending upon locations of meters to be installed as above, 100 Nos. of DCDs are also required to be procured. Accordingly, Powergrid intimated that as per earlier purchase order, the unit cost of SEM and DCD are Rs. 27,000/- and Rs. 45,000/- respectively. Thus, the total cost involvement estimated towards purchase of approximately, 605 Nos.of SEMs and 100 Nos. of DCDs would be around Rs. 2. 04 Crore.

The issue was also placed by ERLDC / Powergrid in the 10th Commercial Sub-Committee meeting held on Kolkata for necessary approval after deliberation.

In the said Commercial Sub-Committee meeting, after taking into account the requirement of SEMs for the upcoming projects in Sikkim, it was decided that 650 nos (subject to actual) SEMs and 100 nos. DCD (not Laptop) would be procured by POWERGRID at an estimated cost of Rs.3.5 crore [at the estimated rate of Rs.27,000/- for 1 no. SEM and Rs.45,000/- for 1 no. DCD]. The total cost would be apportioned among the beneficiary constituents of Eastern Region in proportion to the share allocation for the month in which the proposal is approved in the ERPC meeting. Against the POWERGRID's proposal of levying 15% as overhead charges, it was decided, on request from the beneficiaries, that the charges shall be limited to 10%.

It was further decided that ERLDC would circulate the revised list indicating therein the constituent-wise requirement of SEMs and DCDs.

The issue is placed before TCC members for their agreement on the above issue along with confirming the total estimated cost. ERLDC is requested to submit the list regarding constituent wise requirement of SEMs and DCDs.

DELIBERATIONS IN THE TCC MEETING

TCC accorded in principle approval for procurement of 650 number of SEMs and 100 number of DCDs (not Laptop) at an estimated cost of Rs.3.5

crores with an overhead charge of 10% payable to Powergrid. The total cost would be apportioned among the beneficiary constituents of Eastern Region for the month in which the proposal is approved in ERPC meeting. Further, ERLDC would circulate the revised list indicating therein constituentwise requirements of SEMs and DCDs.

The issue is placed before ERPC for approval.

ITEM NO.20 OPTIONS FOR PROVISION OF ADDITIONAL BAY/BREAKER FACILITY AGAINST 400KV MALDA-FARAKKA FEEDER-I AT MALDA S/S

The issue raised by Powergrid on the above subject is described below :

400 KV Malda-Farakka Ckt-I bay is running on single breaker (ABB SF6 Circuit Breaker diverted from Durgapur) without any provision to transfer the bay to TBC which has been constructed in the year 2002. At that time due to space constraints transfer bay was not constructed. The power flow through this line has increased up to SIL level during winter season. This makes this feeder a critical one from system stability point of view. Outage of the only available Circuit Breaker for 400 KV Farakka-Malda-I on account of maintenance, break down will put considerable operational problem and may jeopardize the grid.

Looking in to the criticality of the matter, an expert committee has visited site and explore various option to provide transfer facility through TBC or additional/redundant breaker facility. The committee after comprehensive study of the Physical layout and other consideration has submitted their report wherein they have recommended for providing additional bay by relocation of some of the existing equipment/structures.

The matter was discussed in 39th OCC meeting of ERPC wherein in principle agreement for installation of additional bay/breaker facility against 400 KV Malda-Farakka Feeder-I at Malda S/S have been agreed by ER constituents. The approximate cost for commissioning of one no bay at Malda S/S will be Rs. 2 crore. The expenditure will be pooled with regional transmission charges.

The issue was placed in the 10th Commercial Sub-Committee meeting for deliberation and agreement on the proposal, to which members agreed.

Members may please discuss.

DELIBERATIONS IN THE TCC MEETING

TCC accorded in principle approval for commissioning of 1 number of Bay at Malda S/S at an estimated cost of Rs.2 crores to be borne by the ER beneficiaries as an element of regional pool.

The issue is referred to ERPC for approval.

ITEM NO.21 CERC APPROACH PAPER ON FORMULATING PRICING METHODOLOGY FOR INTER-STATE TRANSMISSION

The Tariff Policy notified by the Central Government under the provisions of the Electricity Act, 2003 requires the CERC to develop the national transmission tariff framework which should be sensitive to distance, direction and related to quantum of power flow. Accordingly, CERC has prepared an approach paper on formulating pricing methodology for inter-state transmission. This paper was circulated on 15th May, 2009 for inviting comments/suggestions/objections.

In order to develop a clear understanding of the proposed methodology, Member (Technical) and Chief (Engineering), CERC along the Consultants held a Seminar at ERPC, Kolkata on 26.06.2009 in which detailed deliberations on the proposed approach paper took place. Almost all the constituents of ERPC attended the Seminar. During the course of deliberations many shortcomings of the proposed approach were brought to the attention of CERC. Number of suggestions were also given to CERC.

Further, CERC held oral hearing on above on 29th July 2009 at CERC office, New Delhi. Many constituents from Eastern Region also attended the hearing. Since the proposed approach paper would bring about a dramatic change in the pricing methodology for inter-state transmission, it is requested that all ER constituents may kept themselves well aware of the development vis-à-vis the impact of the changes on themselves.

This is for information of the members.

DELIBERATIONS IN THE TCC MEETING

Members noted.

ITEM NO.22 A) AUGMENTATION OF TRANSFORMATION CAPACITY OF 220/132 kV BIRPARA SUB-STATION OF POWERGRID – ISSUE RAISED BY POWER GRID

Presently, the transformation capacity of 220/132kV Birpara Sub-Station is 150MVA (1x50 MVA & 1x 100MVA). From the load pattern of both ICTs, it has been observed that the power flow through both the transformers exceeds more than 90-100 MW during peak hours and it is clear that with the same transformation capacity of 150MVA available at Birpara, and considering the rate of rise of demand per year (more than 20%), the full load of WBSETCL cannot be met in near future. Further, due to non-availability of alternate source at Birpara, WBSETCL has to resort load shedding in case of outage any one of ICT. As such the augmentation of transformation capacity at Birpara Sub-Station is required immediately to have sufficient margin to take care of load growth in future.

The issue was discussed in 37th OCC meeting of ERPC held on 17.04.09. Members suggested that 50 MVA transformer may be replaced by (1X160MVA) transformer, alternatively 3rd transformer of (1x160MVA) capacity may be installed at Birpara Sub-Station. WBSETCL representative agreed in principle for augmentation of transformation capacity of 220/132 KV Birpara Sub-Station.

DELIBERATIONS IN THE TCC MEETING

After deliberation it was decided that the existing 1 x 50 MVA transformer at Birpara S/s of Powergrid would be replaced by 1 x 100 MVA transformer. The entire cost would be borne by WBSETCL. **It was decided to refer the issue to ERPC.**

**B) AUGMENTATION OF TRANSFORMATION CAPACITY OF
220/132 kV SILIGURI SUB-STATION OF POWERGRID
– ISSUE RAISED BY POWER GRID**

Presently, only one no. 220/132kV 100MVA ICT is available at Siliguri Sub-Station of Powergrid. It has been observed that during lean period of Hydro generation i.e. whenever Rangit HPS is out of service, the power flow through the transformer exceeds more than 80MW during peak hours and it is clear, that with the same transformation capacity of 100MVA available at Siliguri and with the same load pattern, it will be difficult to cater the load through this transformer. As such the augmentation of transformation capacity at Siliguri Sub-Station is required immediately to have sufficient margin to take care of load growth in future.

The issue was discussed in 37th OCC meeting of ERPC held on 17.04.09. Members suggested that 2nd transformer of 1x160MVA may be installed at Siliguri Sub-Station. WBSETCL representative agreed in principle for augmentation of transformation capacity of 220/132 kV Siliguri Sub-Station.

Powergrid stated that the approximate cost for procurement, installation and commissioning of 2 nos. 160 MVA ICTs would be Rs.20 crore.

The above issues were further discussed in the 10th Commercial Sub-Committee Meeting held on 25.06.2009 and members noted the same.

Members may like to discuss and agree to the proposals. In case of agreement to the above proposals, WBSETCL is to give consent for bearing the associated cost as above.

DELIBERATIONS IN THE TCC MEETING

After deliberation it was decided that 1 x 100 MVA additional transformer would be installed at Siliguri S/s of Powergrid. WBSETCL's proposal regarding sharing the cost by WBSETCL with Sikkim was not agreed to by Sikkim and **it was decided to refer the issue to ERPC.**

**ITEM NO.23 COMMERCIAL AGREEMENT FOR IMPLEMENTATION OF
FIBRE OPTIC NETWORK IN LIEU OF EXISTING
MICROWAVE NETWORK – ISSUE RAISED BY POWERGRID**

Powergrid have submitted that during the 10th ERPC meeting, the establishment of Fibre Optic Network in lieu of existing Microwave links was approved by ERPC. Powergrid have already initiated process of investment approval and procurement for the Fibre Optic Communication Scheme.

Powergrid have proposed that the project shall become “part of Commercial Agreement” already signed by Powergrid with respective constituents for ER-ULDC Project and the tariff shall be as determined by CERC.

Powergrid may further clarify the matter and members may please discuss.

DELIBERATIONS IN THE TCC MEETING

Initiating the discussion, Member Secretary, ERPC informed the members that the Scheme for implementation of Fibre Optic Communication in lieu of existing microwave links in Eastern Region was approved by ERPC in 10th ERPC meeting held on 11.04.2009 at Port Blair. Based on approval of scheme by ERPC, Powergrid has initiated process of investment approval for the scheme. Further, Powergrid has proposed that project shall become part of Commercial Agreement already signed by Powergrid with respective constituents for ER-ULDC project and tariff shall be as determined by CERC.

After deliberations, constituents agreed to examine with the proposal of Powergrid for making the “Fiber Optic Communication Project in lieu of existing microwave links” as a part of the Commercial Agreement of ER-ULDC project signed on 09.01.2003 with respective constituents. Powergrid was requested to forward a copy of the existing BPTA to the concerned divisions of the constituents for scrutiny. Powergrid agreed.

ADDITIONAL AGENDA

ITEM NO. 1: PROPOSAL FOR INSTALLATION OF NEW 400 KV S/S IN ORISSA AT UTTARA INSTEAD OF SUNDERGARH

In the meeting of the Standing Committee on Power System Planning in ER held on 08-11-2008 at Bhubaneswar and subsequently, in the special meeting of ERPC held on 30-12-2008, setting up of 400/220 kV, 2x315 MVA Sundergarh S/s with LILO of the existing 400 kV Talcher-Rourkella D/C line was decided to be constructed as part of system strengthening works in ER as a regional/inter state system.

Subsequently, GRIDCO vide letter no. DC-28/2008/5542 dated 06-08-2009 addressed to Member (PS), CEA proposed for setting up of 400/220 kV, 2x315 MVA S/s at Uttara (in Puri District) with LILO of 400 kV Baripada-Mendhasal D/C line as inter-state transmission works in lieu of 400/220 kV, 2x315 MVA Sundergarh S/s with LILO of the existing 400 kV Talcher-Rourkella D/C line.

Chief Engineer (SP&PA), CEA vide his letter no. 68/1/09-SP&PA/ dated 20/08/2009 has intimated that CEA did not have objection to the above proposal of GRIDCO and the same might be vetted by ERPC.

Members may like to deliberate and decide.

DELIBERATION IN THE TCC MEETING

After discussion, TCC members agreed for setting up of 400/220 kV, 2x315 MVA S/s at Uttara (in Puri District) with LILO of 400 kV Baripada-Mendhasal D/C line as inter-state transmission works in lieu of 400/220 kV, 2x315 MVA Sundergarh S/s with LILO of the existing 400 kV Talcher-Rourkella D/C line subject to that the associated cost is not changed appreciably and **referred the matter to ERPC for approval.**

ITEM NO.2: COMPILATION OF CAPEX EXPENDITURE AND INVESTMENT IN DISTRIBUTION SECTOR (33 KV AND BELOW)

Chief Engineer(GM),CEA vide letter dated 7th July,2009 (copy enclosed) has sought certain information on capital expenditure incurred by DISCOMs /SEBs /Electricity Departments during 10th & 11th Plan period for making realistic estimates for the 12th & 13th Plan period. The format for submitting the information is available at Annexure-I of the above letter.

Members are requested submit the requisite information to the Chief Engineer(DP&D),CEA with a copy to the ERPC Secretariat.

DELIBERATION IN THE TCC MEETING

Chief Engineer (GM and DPD), CEA explained that information on capital expenditure incurred by DISCOMs /SEBs /Electricity Departments during 10th & 11th Plan period would be required making realistic estimates for the 12th & 13th Plan period. Constituents were requested to submit the information to CEA at the earliest.

ITEM NO.3 COLLAPSE OF TOWER LOC NO.71 (DD+18) OF 400 KV MLD-NEW PURNEA D/C LINE DUE TO NATURAL CALAMITY/DISASTER - ADDITIONAL AGENDA – SUBMITTED BY POWERGRID

POWERGRID gave detail audio-visual presentation on collapse of tower on 24.08.2009 at Location No. 71(DD+18) of 400 kV Malda-New Purnea D/C line due to natural calamity/disaster (severe erosion of bank of Mahananda river). POWERGRID informed that due to sudden change in course of Mahananda river near village Bangama in Purnea district (Bihar), one tower at Loc. No. 71(DD+18) of 400 kV Malda_New Purnea D/C line had collapsed and due to which the adjacent towers at Loc.No.70(DD+30) and Loc.No.72(DD+6) had also been severely damaged. Further, POWERGRID informed that for restoration of the above line total financial implication would be approx. Rs.6 Crore.

Deliberations in the TCC meeting

Members noted.

ANNEXURE – A

LIST OF PARTICIPANTS IN THE 11TH ERPC MEETING

Date: 29.08.2009

Venue : The Ffort Raichak Hotel

Name of the Constituent / Organisation	Sl. No.	Name S/Shri	Designation
GOVT. OF SIKKIM	1.	PEMA WANGCHEN	Chairperson, ERPC & PCE-cum-Secretary, Energy & Power Department., Govt. of Sikkim
	2.	P.B. SUBBA	Chief Engineer, Energy & Power Department
BIHAR BSEB	3.	SWAPAN MUKHERJEE	Chairman
	4.	R.K. SHARMA	Member (Transmission)
	5.	R.P. CHAUDHURY	Chief Engineer
	6.	RAKESH	EEE
JHARKHAND JSEB	7.	G.N.S. MUNDA	Member (Technical)
	8.	M.K. MITRA	Chief Engineer
	9.	S.C. SRIVASTAVA	Chief Engineer (C & R)
	10.	R.M.TIWARY	ESE
TVNL	11.	S.R. SINGH	EEE
ORISSA OPTCL	12.	C.J.VENUGOPAL	Chairman-cum-Managing Director, OPTCL & GRIDCO
	13.	K.K. NATH	Director (Engineering)
	14.	S.C. MUDALI	Sr. General Manager (PS)
GRIDCO	15.	A.C. MALLICK	Director (Commercial)
	16.	L. MOHAPATRA	AGM
	17.	N. KHAN	LO
OHPC	18.	J. PADHI	Director (Operation)
	19.	A.K. KUNDU	Chief General Manager
WEST BENGAL WBSEDCL	20.	M.K. DE	Chairman & Managing Director, WBSEDCL & WBSETCL
	21.	M.S. PAL	Addl. CE & I/C PTR
	22.	U.K. MUKHERJEE	Addl. GM (CC)
	23.	P.P. BISWAS	Addl. CE, ALDC
	24.	M. BHATTACHARJEE	APRO
	25.	T.K. AUDDY	PS to AGM (CC)
	26.	S. CHATTERJEE	Assistant , P.R. Cell
WBSETCL	27.	A.C. SARKAR	Director (Transmission)
	28.	S.K. SHYAM CHOUDHURY	Chief Engineer (CP & ED)
	29.	S. NAG	Chief Engineer, SLDC
	30.	A. KARMAKAR	Supdt. Engineer (E)
WBPDC	31.	DEBASHIS SEN	Managing Director
	32.	P.K.CHAKRABORTY	Director (FM & HR)
CESC	33.	B. CHAKRABORTI	Vice President (SO)
	34.	R.CHAKRAVARTY	Manager
DPL	35.	S.P. DATTA	Managing Director
	36.	M. MAJUMDAR	Director (Operation)
DVC	37.	M.K. BANDYOPADHYAY	Director (Operation)
	38.	P.K. CHAUDHURI	Chief Engineer (Commercial)
	39.	A. NAYAK	Chief Engineer (CLD)
	40.	C. KARMAKAR	Dy. Chief Engineer
	41.	A.K.GHOSH	Dy. Chief Engineer
	42.	D.K. AICH	Supdt. Engineer (Tariff)
CEA	43.	A. GUPTA	Chief Engineer (GM & DPD)
	44.	S.N. KAYAL	Director, GM Division

NHPC	45.	R. RAINA	Chief Engineer (Comml)
	46.	N.S. PARMESHWARAN	Chief Engineer (O&M)
POWERGRID	47.	R.N. NAYAK	Director (Operations)
	48.	R.P. SINGH	Executive Director (ER-II)
	49.	K.K. AGRAWAL	Executive Director (ER-I)
	50.	R.G. YADAV	Executive Director (OS)
	51.	UMESH CHANDRA	Executive Director (Comml)
	52.	J.P. SINGH	General Manager (O&M), ER-II
	53.	P. KUMAR	General Manager (Engg)
	54.	S. PRASAD	AGM (Comml.)
	55.	S. K. PRAMANIK	DGM (O&M)
	56.	V.V. SHARMA	AGM(Comml)
	57.	K. SARKAR	DGM
	58.	M.K. AGARWAL	CM
	59.	H.H. SARAN	DGM (LD &C), CC
	60.	S.K. SINGH	CM (OS), ER-II
	61.	B.K.PRADHAN	CM (OS)
NLDC	62.	S.K. SOONEE	Executive Director
PTC	63.	SANTOSH KUMAR	Advisor
NTPC	64.	G.J. DESHPANDE	Regional ED (ER-I)
	65.	P.C.KUMBHAJ	General Manager (OS), ER-I
	66.	V.K.PADHA	General Manager (Comml.), CC
	67.	R.K.PAL	General Manager (OS), ER-II
	68.	K.K. SINHA	DGM(Comml)
	69.	S.K. KAR	DGM(Comml.),ER-II
	70.	P.K.GHOSAL	Sr. Manager (Comml)
ERLDC	71.	L.K.KANUNGO	General Manager
	72.	P. MUKHOPADHYAY	DGM
	73.	D. DE	CM
SRPC	74.	M.L. BATRA	Member Secretary
DGPC,BHUTAN	75.	D.P. PHUNTSHOK	Director (Projects)
ERPC	76.	R.K. GROVER	Member Secretary
	77.	A.K. BANDYOPADHYAY	Superintending Engineer
	78.	J. BANDYOPADHYAY	Superintending Engineer
	79.	S.P. DATTA	DGM
	80.	S.K. GHOSH	Executive Engineer
	81.	A.ROY	Executive Engineer
	82.	S.M.JHA	Executive Engineer
	83.	G.GHOSH	Executive Engineer
	84.	P. SENGUPTA	PA

ANNEXURE – B

LIST OF PARTICIPANTS IN THE 10TH TCC MEETING

Date: 28.08.2009

Venue : The Ffort Raichak Hotel

Name of the Constituent / Organisation	Sl. No.	Name S/Shri	Designation
GOVT. OF SIKKIM	1.	P.B. SUBBA	Chief Engineer, Energy & Power Department
BIHAR BSEB	2.	R.K. SHARMA	Member (Transmission)
	3.	R.P. CHAUDHURY	Chief Engineer
	4.	RAKESH	EEE
JHARKHAND JSEB	5.	G.N.S. MUNDA	Member (Technical)
	6.	M.K. MITRA	Chief Engineer
	7.	S.C. SRIVASTAVA	Chief Engineer (C & R)
	8.	R.M.TIWARY	ESE
TVNL	9.	S.R. SINGH	EEE
ORISSA OPTCL	10.	K.K. NATH	Director (Engineering)
	11.	S.C. MUDALI	Sr. General Manager (PS)
GRIDCO	12.	A.C. MALLICK	Director (Commercial)
	13.	L. MOHAPATRA	AGM
OHPC	14.	J. PADHI	Director (Operation)
	15.	A.K. KUNDU	Chief General Manager
WEST BENGAL WBSEDCL	16.	ANIRBAN GUHA	Director (R&T)
	17.	M.S. PAL	Addl. CE & I/C PTR
	18.	U.K. MUKHERJEE	Addl. GM (CC)
	19.	P.P. BISWAS	Addl. CE, ALDC
	20.	S. NANDY	Addl. CE, PTR
	21.	M. BHATTACHARJEE	APRO
	22.	T.K. AUDDY	PS to AGM (CC)
WBSETCL	23.	A.C. SARKAR	Director (Transmission)
	24.	S.K. SHYAM CHOUDHURY	Chief Engineer (CP & ED)
	25.	S. NAG	Chief Engineer, SLDC
	26.	A. KARMAKAR	Supdt. Engineer (E)
WBPDCL	27.	P.K.CHAKRABORTY	Director (FM & HR)
CESC	28.	UTPAL BHATTACHARYA	Executive Director
	29.	R.CHAKRAVARTY	Manager
DPL	30.	M. MAJUMDAR	Director (Operation)
DVC	31.	P.K. CHAUDHURI	Chief Engineer (Commercial)
	32.	A. NAYAK	Chief Engineer (CLD)
	33.	C. KARMAKAR	Dy. Chief Engineer
	34.	A.K.GHOSH	Dy. Chief Engineer
	35.	D.K. AICH	Supdt. Engineer (Tariff)
CEA	36.	A. GUPTA	Chief Engineer (GM & DPD)
	37.	S.N. KAYAL	Director, GM Division
NHPC	38.	R. RAINA	Chief Engineer (Comml)
	39.	N.S. PARMESHWARAN	Chief Engineer (O&M)
POWERGRID	40.	R.P. SINGH	Executive Director (ER-II)
	41.	K.K. AGRAWAL	Executive Director (ER-I)
	42.	J.P. SINGH	General Manager (O&M), ER-II
	43.	P. KUMAR	General Manager (Engg)
	44.	S. PRASAD	AGM (Comml.)
	45.	S. K.PRAMANIK	DGM (O&M)

	46.	V.V. SHARMA	AGM(Comml)
	47.	M.K. AGARWAL	CM
	48.	H.H. SARAN	DGM (LD &C), CC
	49.	S.K.SINGH	CM (OS)
	50.	S.K.PRADHAN	Manager (OS)
PTC	51.	SANJEEV MEHRA	Executive Vice President
COAL INDIA LTD	52.	K. MUKHOPADHYAY	Sales Manager
	53.	G. BHATTACHARYA	Dy. Chief Finance Manager
	54.	S. HALDER	Sales Manager
SOUTH EASTERN RAILWAY	55.	S. NATH	Dy. Chief Operations Manager
	56.	T. CHAKRABORTY	CHC
NTPC	57.	P.C.KUMBHAJ	General Manager (OS), ER-I
	58.	V.K.PADHA	General Manager (Comml.), CC
	59.	R.K.PAL	General Manager (OS), ER-II
	60.	K.K.SHARMA	General Manager
	61.	K.K. SINHA	DGM(Comml)
	62.	S.K. KAR	DGM(Comml.),ER-II
	63.	P.K.GHOSAL	Sr. Manager (Comml)
ERLDC	64.	L.K.KANUNGO	General Manager
	65.	P. MUKHOPADHYAY	DGM
	66.	D. DE	CM
SRPC	67.	M.L. BATRA	Member Secretary
DGPC,BHUTAN	68.	D.P. PHUNTSOK	Director (Projects)
ERPC	69.	R.K. GROVER	Member Secretary
	70.	A.K. BANDYOPADHYAY	Superintending Engineer
	71.	J. BANDYOPADHYAY	Superintending Engineer
	72.	S.P. DATTA	DGM
	73.	S.K. GHOSH	Executive Engineer
	74.	A.ROY	Executive Engineer
	75.	S.M.JHA	Executive Engineer
	76.	G.GHOSH	Executive Engineer
	77.	P. SENGUPTA	PA

Annexure- I

SUMMARY OF UI RECEIPT AND PAYMENT STATUS

BILL UPTO 19.07.2009 (Week - 16 of 2009 - 10)
Last Payment Disbursement Date - 07.08.09

Figures in Rs. Lakhs

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
WR	0.00000	0.00000	46920.52522	46919.50797	-1.01725
SR	1500.40153	1500.40153	4874.27335	4874.27335	0.00000
NER	489.82397	363.95846	5490.49087	5490.49087	125.86551
NR	49336.73668	48084.05385	0.00000	0.00000	1252.68283
BSEB	3307.43971	2511.41167	2806.88851	2806.47056	795.61009
JSEB	998.89702	990.43314	5198.05267	5270.28651	80.69772
DVC	16570.32636	17660.37771	0.00000	0.00000	-1090.05135
GRIDCO	12208.48363	12220.93124	116.77343	116.77343	-12.44761
WBSETCL	1632.27786	1448.98042	10733.85553	10687.66617	137.10808
SIKKIM	419.40871	419.37495	2064.52948	1784.99974	-279.49598
NTPC	0.00000	0.00000	2307.53899	1992.89904	-314.63995
NHPC	0.00000	0.00000	895.95446	858.02665	-37.92781
Pool Balance	0.00000	0.00000	594.72556	0.00000	-594.72556
Additional UI charge	0.00000	0.00000	6111.98878	1789.81613	-4322.17265
Transfer to IRE	0.00000	0.00000	1952.46163	2133.91924	181.45761
TOTAL	86463.79547	85199.92297	90068.05848	84725.12966	

% Realization 98.54 As on 07.08.09

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

RECEIVABLE IN ER POOL AS PER PUBLISHED A/C UPTO 26.07.09 (2009-10)
AS ON 10.08.09

CONSTITUENT	AMOUNT RECEIVABLE IN THE POOL (Rs.)	AMOUNT RECEIVED IN THE POOL (Rs.)	OUTSTANDING (Rs.)
WBSETCL	3320742	3320742	0
TOTAL	3320742	3320742	0

Amount available in Reactive A/C as on :
10.08.09

13971199

Annexure- III & IV

Statement of Transmission Benefit for ER Beneficiaries towards ER-SR IRE
(TOTAL ER - SR IRE SETTLEMENT AMOUNT RS 32974.96506 LACS TILL 10.08.09)
Break up of disbursed amount of Rs 32974.96506 Lacs considering bill up to 29.03.09

Figures in Rs.Lac

DATE	BSEB	JSEB	DVC	GRIDCO	SIKKIM	WBSETCL	TOTAL
2008-09							
2-Sep-08	1995.65447	554.18100	248.41879	1208.24231	211.50073	1556.76663	5774.76393
14-Nov-08	3014.32124	820.13328	365.14231	1803.51363	316.31827	2315.88018	8635.30891
23-Dec-08	1148.36219	323.38365	134.52644	673.11957	117.37729	925.42097	3322.19011
21-Apr-09	4451.53057	1106.16741	497.76817	2519.79505	431.48568	3496.76467	12503.51155
16-Jun-09	976.39817	272.22076	105.35475	540.04511	92.78186	752.38991	2739.19056
TOTAL	11586.26663	3076.08610	1351.21046	6744.71567	1169.46383	9047.22236	32974.96506

Statement of Transmission Benefit for ER Beneficiaries towards ER-NR IRE
TOTAL IRE RECEIVABLE FROM NR IS 11354.53007 LACS

DATE	BSEB	JSEB	DVC	GRIDCO	SIKKIM	WBSETCL	TOTAL
2003-04							
8-Jun-04	17.63283	2.30265	4.58601	13.53857	1.37925	15.42960	54.86891
16-Nov-06	168.9531015	22.06547694	43.94168603	129.722082	13.2172049	147.8444787	525.74403
Sub Total	186.58593	24.36813	48.52770	143.26066	14.59645	163.27408	580.61294
2004-05							
10-Nov-08	10.51962	5.16489	2.40856	7.52967	0.79853	8.60209	35.02336
16-Nov-06	248.2453203	121.8828602	56.83789679	177.687646	18.8440315	202.9948499	826.49261
18-Dec-06	64.51379	31.67482	14.77099	46.17732	4.89717	52.75413	214.78822
27-Feb-09	675.81000	331.80750	154.73250	483.72750	51.30000	552.62250	2250.00000
18-Mar-09	44.46448	21.83106	10.18052	31.82653	3.37525	36.35944	148.03728
Sub Total	1043.55321	512.36113	238.93047	746.94867	79.21498	853.33301	3474.34147
2005-06							
18-Mar-09	906.26362	228.71252	105.11929	589.60475	62.96750	709.29504	2601.96272
16-Apr-09	951.20880	240.05528	110.33257	618.84558	66.09030	744.47178	2731.00431
Sub Total	1857.47242	468.76780	215.45187	1208.45033	129.05780	1453.76681	5332.96703
2006-07							
16-Mar-09	257.04815	58.77790	27.68852	155.69852	17.06896	202.71364	718.99569
6-May-09	446.03410	101.99236	48.04558	270.17058	29.61833	351.75199	1247.61294
Sub Total	703.08225	160.77026	75.73410	425.86910	46.68729	554.46563	1966.60863
Total	3790.69380	1166.26731	578.64413	2524.52876	269.55653	3024.83954	11354.53007

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EPABX : 03592-222916

03592-202028

FAX: 03592-202927

GOVERNMENT OF SIKKIM
ENERGY & POWER DEPARTMENT
KAZI ROAD, GANGTOK-737101

No. 99/ACE/SLDC/2004/62

Date: 1/7/2009

To

The Member Secretary
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata-700 033

Sub: Steep Hike in the Fuel Price Adjustment (FPA) Price

Sir,

Chairman, Bihar State Electricity Board, Patna vide his enclosed letter no. 827/Com/Misc-1038 dated 08.05.2009 has raised the issue of steep hike in FPA price by NTPC. The matter had been discussed in the 10th ERPC meeting.

You may like to go through the same and if found suitable may like to take up the case before the CERC.

Thanking you,

Yours faithfully,

Encl: as stated

Sd/-
(P. Wangchen)
Chairman (ERPC) / PCE cum Secretary

Bihar State Electricity Board
Vidyut Bhawan, Bailey Road
Patna-800 021

No. 827
Com/Misc-1038/04-05

Dated 08/05/2009

To,
The Chairperson
ERPC & Secretary
Energy & Power Department,
Government of Sikkim
Gangtok, Sikkim-737101.

Sub: Steep hike in the Fuel Price Adjustment (FPA) price.

Sir,

The steep hike in the Fuel Price Adjustment (FPA) from December, 2008 onwards owing to the import of coal by NTPC for their power stations in the Eastern Region has put severe financial constraint on BSEB. The increase in the energy charges on account of FPA during the month of December, 2008 for the generating stations of NTPC in the Eastern Region have been ranging from 42% to 89% in comparison to the previous month's energy charges. Similar trends have also been observed in the months of January, February and March 2009 and there seems to be no relief from such huge increase in the energy charges. A complete details of increase in the energy charges of all the generating stations of NTPC for a period from December, 2008 to March, 2009 vis-à-vis November, 2008 is indicated in the Table-I.

The subject matter was discussed in the last 9th TCC and 10th ERPC meeting held on 10.04.2009 and 11.04.2009 at Port Blair (Andaman) and was also be taken up in the next OCC meeting of the ERPC.

2. In the mean time, BSEB has taken up the matter with the Executive Director, ER-I, NTPC Ltd, Patna seeking information and convincing clarifications for such a huge increase. A copy of the said letter with a copy to Member Secretary, ERPC is enclosed as Annexure-'B' for ready reference.

3. The adjustment of rate of energy charges (REC) on account of variation in price or heat value of fuels are dealt as per clause 22(iii) of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2004. The clause is reproduced as under :

“Initially, Gross Calorific Value of coal/lignite or gas or liquid fuel shall be taken as per actuals of the preceding three months. Any variation shall be adjusted on month to month basis on the basis of Gross Calorific Value of coal/lignite or gas or liquid fuel received and burnt and landed cost incurred by the generating company for procurement of coal/lignite or gas or liquid fuel, as the case may be.

-:: 2 ::-

No separate petition need to be filed with the Commission for fuel price adjustment. In case of any dispute, an appropriate application in accordance with Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999, as amended from time to time or any statutory enactment thereof, shall be made before the Commission.”

The FPA claimed by the NTPC is huge. The above clause is silent in respect of many issues which need to be clarified by the Central Commission. These issues are :

- i) Whether such a huge FPA can be claimed by NTPC without routing through the Central Commission. The provision for not routing the increase through the Central Commission may be justified when the increase is marginal and routine in nature. Further the letter and spirit of the FPA provision may not thought of such impact of imported coal on price.
- ii) It is incumbent on the NTPC to supply all the information and justify the increase in the energy charges on account of FPA in their monthly bill and provide all the relevant information to the beneficiaries especially when the increase is not vetted by the Commission.
- iii) NTPC in their oral submission in the ERPC had stated that the blending of imported high calorific value coal is required to be limited to 15% owing to the constraint in their Boiler design. Under such situation, such a huge hike is unthinkable.
- iv) It should be recognized that almost all Utilities are functioning under the regulatory environment it is simply not possible to convince the State regulator to accept such huge increase in the FPA especially when the same is neither vetted by the Central Commission nor the BSEB is in a position to absorb the financial impact.

Under such circumstances, all the beneficiaries of the Central Sector generation in the Eastern Region can raise the dispute before the Central Commission through an appropriate application. To seek the justice and also to minimize the litigation, it is proposed that the Member Secretary, ERPC may file the application before the Central Commission and seek the clarification on the above subject from the Commission.

Encl: As above

Yours faithfully,

Sd/-
(Swapan Mukherjee)
Chairman

ANNEXURE - 'B'

**Bihar State Electricity Board, Patna
(Department of Transmission O&M)**

No. Com/Misc-1038/04-05/724

Date: 16.04.2009

From:

R.P. Choudhary
Chief Engineer
Trans (O&M)

To

The Regional Executive Director, ER-I
NTPC Ltd
Lok Nayak Jaiprakash Bhawan
Dak Bunglow Road, Patna-800 001.

Subject: Steep rise in energy charges of the NTPC power station in ER w.e.f. December 2008 onwards.

**Reference: 1. Our letter Com.Misc-1038/04-05-117 dated 16-01-2009
2. Letter No. 01:CD:451 dated 29-01-2009 of GM I/C (Commercial),
NTPC, New Delhi**

Sir,

Kindly recall the discussion held in 9th TCC & 10th ERPC meeting held at Portblair on 10th & 11th April 2009 on the issue of steep hike in FPA in the NTPC energy bill for the month December'08 to March 2009. The increase in the energy charges were also shown in power point projection during the meeting. The same is also annexed as Table-1 & Table-II for kind reference in this regard.

The sudden and sharp increase in the power purchase bill on account of FPA owing to imported coal w.e.f. December 2008 to March 2009 has affected BSEB adversely as the power purchase bill has gone up by more than 40% during the said period. It may not be out of place to mention that financial implication owing to import of coal were not brought into the notice of the beneficiaries prior to import of coal. Steep hike in energy charges bill owing to coal import in as a shock directly in December 2008 main bill.

However, inspite of all handicaps and hardship faced by BSEB, it has made the payment in full of the NTPC bills for the said months under protest in the larger interest of better system operation of the Eastern Region.

You are aware BSEB is also a regulated entity. It will be extremely difficult if not impossible to convince the regulator to pass on such a huge increase of 40% to 90% in energy charges in tariff to the end consumers immediately.

BSEB needs satisfactory clarification from NTPC for steep hike in the energy charges bill w.e.f. December 2008 in order to place the matter before the regulator. In the aforesaid meeting NTPC have assured of giving details of different queries to be made by BSEB in this regard. In view of the above, it is requested to furnish the following information at the earliest :-

1. CIL coal field from where NTPC power stations in ER received indigenous coal for FSTPS, KhSTPS I & II and TSTPS.
2. Agreement entered between CIL and NTPC for supply of quantity of indigenous coal to the each NTPC power station in ER from the linked mines and from other mines.
3. Price of the indigenous coal in Rs./MT.
4. Heat rate of the indigenous coal in Kcal/Kwh supplied at the respective power station of NTPC in ER during the period 2008-09.
5. Calorific value of indigenous coal in Kcal/Kg at the respective power station of NTPC in ER during the period 2008-09.
6. Landed cost of indigenous coal at the respective power station of NTPC in ER during 2008-09.
7. Monthwise imported coal received in each STPS of NTPC in ER for 2008-09 in MT.
8. Place from where imported coal being purchase.
9. Price of the imported coal in US Dollar/MT and Rs/MT for 2008-09.
10. Landed cost of imported coal from purchase place to sea port in India.
11. Landed cost of imported coal from sea port in India to respective STPS of NTPC in ER.
12. Net landed cost of imported coal to respective STPS of NTPC in ER.
13. % of blending of imported coal with indigenous coal at respective STPS of NTPC in ER.
14. Heat rate of the imported coal in Kcal/Kwh for the period 2008-09.
15. Calorific value of imported coal in Kcal/Kwh for the period 2008-09.
16. Whether import of coal was made for TSTPS stage II, NR, WR and SR during the period December 2008 to March 2009, if yes, please furnish the monthwise detail for December 2008 to March 2009.
17. FPA claimed by NTPC on account of imported coal during the period 2008-09 for TSTPS-II and NTPC power station in NR, WR and SR.
18. Whether NTPC has agreement for supply of indigenous coal to the respective STPS of NTPC in ER from the linked/other mines corresponding to target availability as per CERC norms.

Looking forward for your kind cooperation in this regard.

With regard.

Encl: As above

Yours faithfully,

Sd/-
(R.P. Choudhary)
Chief Engineer Trans. (O&M)

Table – 1**Sudden increase in the Energy charges bill due to steep hike in FPA on account of coal import by NTPC**

Sl. No.	Description	Energy charges (in Rs/Kwh including FPA)				% increase in the Energy charges including FPA vis-à-vis November 2008			
		FSTPS	TSTPS	KhSTP-I	KhSTPS-II	FSTPS	TSTPS	KhSTP-I	KhSTPS-II
1.	Energy charges in the month of November 2008	Rs.1.43	Rs.0.88	Rs.1.11	Rs.1.07				
2.	Energy charges in the month of December 2008	Rs.2.03	Rs.1.32	Rs.2.09	Rs.2.02	42	50	88	89
3.	Energy charges in the month of January, 2009	Rs.1.92	Rs.1.24	Rs.1.87	Rs.1.77	34	41	68	65
4.	Energy charges in the month of February, 2009	Rs.2.09	Rs.1.11	Rs.1.81	Rs.1.66	46	26	63	55
5.	Energy charges in the month of March, 2009	Rs.2.57	Rs.1.27	Rs.2.16	Rs.1.93	80	44	95	80

Table – II

Additional amount claimed by NTPC from BSEB towards Energy charges due to variation in FPA on account of import of coal in the month of March, 2009 vis-à-vis the FPA claimed by NTPC for the month of November 2008.

Particulars	FSTPS	TSTPS	KhSTPS-I	KhSTPS-II	TOTAL
Amount claimed by NTPC	Rs.27.62 Crs	Rs.10.20 Crs	Rs.15.41 Crs	Rs.3.70 Crs	Rs.56.93 Crs

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ANNEXURE – VI
(Page 1 / 2)

NTPC LIMITED
EASTERN REGION HEADQUARTERS, PATNA

REF: 041:OSER:

DATE: 07/08/2009

FAX MESSAGE

TO:

THE MEMBER SECRETARY
ERPC, 14 GOLF CLUB ROAD
TOLLYGUNGE
KOLKATA-700 033

FAX NO. 033-24171358
033-24221802

RPT : GM, ERLDC, KOLKATA

SUB: DISCREPANCY IN REA FOR THE MONTH OF JULY 09

THIS IS WITH REFERENCE TO REA OF KhSTPP STAGE I & STAGE II ISSUED BY ERPC FOR THE MONTH JULY 2009. AS PER REA AVERAGE DC (PAFM) FOR THE MONTH IS 73.81% & 52.15% FOR KAHALGAON STAGE I & STAGE II RESPECTIVELY WHILE AS PER STATION DECLARATION, AVERAGE DC (PAFM) FOR THE MONTH IS 74.18% & 52.34% FOR KAHALGAON STAGE I & STAGE II RESPECTIVELY. DISCREPANCY IS DUE TO CALCULATION OF DC_i FOR DATES WHEN STATION HAD GIVEN DC UNDER FUEL SHORTAGE CONDITION (CALCULATION SHEET IS ATTACHED HEREWITH). AS PER REA EVEN SG FOR THE MONTH IS MORE THAN DC (PAFM). CLAUSE NO. 21.4 OF CERC TARIFF NOTIFICATION 2009 SAYS THAT ISGS MAY PROPOSE TO DELIVER HIGHER MW DURING PER LOAD HOURS BY SAVING FUEL DURING OFF PEAK HOURS. IT HAS BEEN OBSERVED THAT STATIONS ARE GETTING LESS SG DURING PEAK HOURS THAN THE OFF PEAK HOURS WHICH DEFEATS THE VERY PURPOSE OF CLAUSE NO. 21.4. IT IS REQUESTED THAT ERPC MAY LOOK INTO THE MATTER & ENSURE THAT AT ANY CIRCUMSTANCES OUR DC_i SHOULD NOT BE LESS THAN THE DC IN MWH DECLARED BY OUR STATION AND ACCORDINGLY REVISED REA MAY PLEASE BE ISSUED.

SD/-

(P.C. KUMBHAJ)
GENERAL MANAGER (OS)

DC Declaration by KhSTPP Stage-I & II under coal shortage for the month of July 2009

KhSTPP – I

Date	DC declaration by the Station				As per ERLDC				As per REA			
	MU	Max. MW	Min. MW	EAF (%)	SG (MU)	Max. MW for day	Min. MW for day	Max. MW for PK hrs.	Avg. MWH for PK hrs	DCi	EAF (%)	SG (MU)
09/07/2009	13.68	720	540	74.57	13.6595	569.2776	569.1186	569.2776	6831.3	13.6627	74.47	13.6595
12/07/2009	13.14	600	540	71.62	13.10236	547.7738	541.17375	541.2585	6495.1	12.9902	70.81	13.10236
13/07/2009	13.14	600	540	71.62	12.87691	547.7738	500.6585	500.6585	6007.9	12.0158	65.50	12.87691
14/07/2009	13.14	600	540	71.62	12.92941	547.7738	518.3738	541.2585	6495.1	12.9902	70.81	12.92941
21/07/2009	16.23	720	540	88.47	16.23	677.5912	669.5439	669.5439	8034.5	16.0691	87.59	16.23
22/07/2009	16.23	720	540	88.47	16.23	677.5912	669.5439	669.5439	8034.5	16.0691	87.59	16.23
23/07/2009	16.32	720	540	88.96	16.3200	681.4112	672.9460	672.9460	8075.4	16.1507	88.04	16.3200
24/07/2009	16.32	720	540	88.96	16.3200	681.4112	672.9460	672.9460	8075.4	16.1507	88.04	16.3200
July'09 Total	421.8507			74.18	420.958					419.7492	73.81	420.9582

KhSTPP – II

Date	DC declaration by the Station				As per ERLDC				As per REA			
	MU	Max. MW	Min. MW	EAF (%)	SG (MU)	Max. MW for day	Min. MW for day	Max. MW for PK hrs.	Avg. MWH for PK hrs	DCi	EAF (%)	SG (MU)
13/07/2009	15.855	700	655	70.655	15.53105	660.625	605.925	605.925	7271.1	14.5422	64.80	15.53105
July'09 Total	364.0859			52.34	362.873					362.7731	52.15	362.873