

EASTERN REGIONAL POWER COMMITTEE

MINUTES OF THE 12TH MEETING OF EASTERN REGIONAL POWER COMMITTEE

Date: 04.12.2009

Venue : Mayfair Hotel, Gangtok

The list of participants is given at Annexure-A.

Shri Pema Wangchen, Principal Chief Engineer-cum-Secretary, Energy & Power Department, Govt. of Sikkim, chaired the meeting.

Shri Dhiman Parija, Executive Director, NHPC on behalf of NHPC welcomed Chairperson, ERPC, members of ERPC, delegates from Bhutan, Shri R.S. Mina, Director (Personnel), NHPC and all other participants and wished them pleasant and comfortable stay at Gangtok.

Shri R.S. Mina, Director (Personnel), NHPC on behalf of NHPC welcomed all delegates to this meeting. He said NHPC is making sincere efforts to harness the vast hydro potential in the country and provide cheap and clean power alongwith infrastructural and rural development across the remote areas of the country. The present installed capacity of NHPC is 5175 MW from 13 power stations. Its target is to achieve 10000 MW capacity by the year 2012. He thanked ERPC for giving NHPC an opportunity to host this meeting and wished the meeting a success.

Shri A.K. Rampal, Member Secretary, ERPC welcomed Chairperson, ERPC, honourable delegates from Royal Govt. of Bhutan, Shri R.S. Mina, Director (Personnel), NHPC, other esteemed members of ERPC and all other distinguished participants including colleagues from Secretariat of ERPC. He thanked and appreciated NHPC for the excellent arrangement they have made for this meeting. In his opening remarks he touched upon the following :

- Emphasized the need for unity among all utilities of the region so as to supply quality power (no load shedding, voltage and frequency within specified band) to the consumers at affordable price to keep the demand on one hand and deal with upstream agencies such as lenders, coal suppliers, transporters, equipment manufacturers and the government on the other.
- All utilities are distinct to fix the duties and responsibilities among themselves and distribute the revenue collected from the consumers among themselves.
- Sections 61(b) and 61(g) of Electricity Act requires this sector to operate on commercial principles and reduce cross subsidy. He feels that cross subsidy has started prevailing even in generation (tariff of unallocated share) and inter-state transmission. Inter-state wheeling charges, sometimes are akin to a situation that a

commuter getting down within state boundary is to pay more than the commuter getting down outside the state, both having boarded at same point.

- There is a need to trust each other and bring discipline in payments to each other for avoiding the costs for opening LOC, furnishing bank guarantees for timely payment or opening escrow account.

Shri Pema Wangchen, Chairperson, ERPC and PCE-cum-Secretary, Energy & Power Department, Govt. of Sikkim welcomed Shri R.S. Mina, Director, NHPC, delegates from Bhutan, ERPC members, and all other participants to the meeting. He stressed that all participants are also the guests of Sikkim State and wished them a pleasant and comfortable stay at Gangtok. In his address he highlighted the following :

- During the period August'09 to October'09 the demand of Eastern Region grew at 7% on year to year basis with peak demand touching 12384 MW on 3rd September, 2009. The average monthly consumption was 7236 MU.
- Coal stock at Farakka, Kahalgaon, Talcher, Mejia, Kolaghat and Sagardighi is super critical and is an area of concern.
- Number of new thermal units totaling 3070 MW have been commissioned in Eastern Region during last couple of years, but their potential is yet to be realized in full. Subject to improvement in coal supply, any addition of generation would give relief to distribution licensees as well as ultimate consumers.
- Hoped that MoP would respond to the request of ERPC and allocate power from Subansiri HEP to ER States.
- The decisions of Standing Committee on Transmission Planning referred to ERPC be discussed for concurrence and approval.

In conclusion he thanked NHPC for excellent arrangement for the meeting.

ITEM NO. 0

Member Secretary proposed that ERPC may consider and if deemed fit, pass the following resolution:

“Eastern Regional Power Committee places on record the three years’ service rendered to it by Shri R. K. Grover, the earlier Member Secretary, ERPC, and the remarkable contribution made by him. It seeks Member Secretary, ERPC to communicate this resolution to Sri. R. K. Grover, Chief Engineer (GM), CEA”.

The resolution was passed unanimously.

Member Secretary also informed that Shri K. Mukhopadhyay, Sales Manager from Coal India Ltd has accepted ERPC invitation to apprise ERPC with the coal supply plans and future development of mines. All members appreciated that he is with us and desired that similar invitation should be extended to Railways also.

ITEM NO.1 CONFIRMATION OF THE MINUTES OF THE 11TH ERPC MEETING HELD ON 29.08.2009 AT RAICHAK

The minutes of the 11th ERPC meeting held on 29.08.2009 at Raichak was issued vide letter no.ERPC/Committee/2009/5146 dated 23.09.2009.

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

Members may please confirm the minutes of the 11th ERPC meeting.

DELIBERATION IN THE ERPC MEETING

Members confirmed the minutes of the 11th ERPC meeting.

ITEM NO.2 FOLLOW UP ACTION ON THE DECISIONS TAKEN IN 11TH ERPC MEETING HELD ON 29.08.2009

ITEM NO.2.1 ALLOCATION OF POWER FROM SUBANSIRI HEP IN ARUNACHAL PRADESH

The issue of allocation of power from Subansiri HEP (2000 MW) by Ministry of Power, Govt. of India was discussed in the last ERPC meeting wherein constituent member States of Eastern Region expressed concern for non-allocation of any power to Eastern Region. It was decided that Member Secretary,ERPC would forward the sentiments of Eastern Region to Ministry of Power, Govt. of India with a copy to CEA.

Accordingly, certain information such as date of signing draft PPA, capacity (MW) for which the draft PPA was signed, tentative cost, tariff, expected COD and few other information were sought from concerned members of ERPC (BSEB, JSEB, GRIDCO, WBSEDCL & DoP-Sikkim). In response, BSEB, GRIDCO & WBSEDCL furnished some information.

As decided in the meeting, Member Secretary,ERPC vide its D.O. dt.10.11.2009 addressed to Joint Secretary (Hydro), Ministry of Power enclosed the relevant extracts of the minutes of the ERPC meeting and requested him to kindly consider his intervention to get the allocation of power appropriated in order to get maintained the sanctity of the draft MOUs. Separately, a copy of this D.O. was also sent to the concerned ERPC members as well as Member (GO&D), CEA.

Chairman,BSEB and CMD,GRIDCO have also written to Secretary (Power), Govt. of India seeking allocation from Subansiri HEP for their States.

DELIBERATION IN THE ERPC MEETING

Member Secretary,ERPC apprised the members that as follow up to the decision taken in last ERPC meeting, a D.O. has been addressed to Joint Secretary (Hydro), MoP conveying the sentiments of ER constituents with a request to consider allocation of power from Subansiri to ER States so as to maintain the sanctity of the MoUs signed by NHPC with ER States.

Other constituent members Bihar, Orissa and West Bengal also apprised that they have also separately written to CEA / MoP. But there is no progress in the matter.

Director (Commercial), GRIDCO suggested that as a follow up measure, a high level team comprising of Chairman/Director of the concerned utilities may visit Ministry of Power for conveying the concerns of ER States and getting allocation from Subansiri HEP.

Chairman & Managing Director, WBSEDCL & WBSEDCL shared his observation that there is a tendency to ignore the need of the ER States and allocate power to other States and allocation of power from Subansiri HEP is no exception. The per capita consumption of Eastern states is far below the national average therefore, non-allocation of power would inhibit the growth of ER States. Moreover, power had been allocated to NR and WR, in spite of the fact that ER States could absorb the entire power from Subansiri. He also cited about the presumptive planning of CEA/MoP that entire power from new plants coming up in North-East and Bhutan would go to NR and WR with pooling station at Alipurduar in ER, as if ER States do not need power from those plants.

There was a consensus among constituent States that a team of their high officials should visit MoP to take up this issue.

ITEM NO. 3 ISSUES REFERRED TO ERPC BY TCC MEMBERS OF THE 11TH TCC MEETING HELD ON 03.12.2009

TCC AGENDA ITEM NO. 4

REVIEW OF COAL STOCK IN VARIOUS THERMAL POWER STATIONS IN EASTERN REGION

TCC AGENDA

As per information posted in CEA website, status as on 19.11.2009 :

- 8 stations were “Super-critical” (less than 4 days coal stock)
- 13 stations were “Critical” (less than 7 days coal stock)
- Coal stock position of 23 TPSs of ER is as below:

COAL STOCK OF ER TPS AS ON 19.11.09

Sl. No.	Power Station	Capacity MW	Mode of transport	Linked Mines	Daily Coal Required '000 MT	Coal Stock in Days		Loss of generation in mu in Oct'09
						Normative	Actual	
<u>NTPC</u>								
1	Farakka STPS @	1600	Pithead	ECL, BCCL, CCL, MCL and NEC	32.64	15	0	570
2	Kahalgaon STPS@	2340	Pithead		37.536	15	0	682
3	Talcher STPS @	3000	Pithead		61.2	15	1	173

DVC								
4	BTPS-B	630	Rail	ECL, BCCL, CCL and MCL	10.5	20	35	
5	Chandrapura	750	Rail		6.5	20	87	
6	Durgapur	350	Rail		5.46	20	30	
7	Mejia @	1340	Rail		22.5	20	0	
BSEB								
8	Barauni	320	Rail	ECL, BCCL	1	20	35	
9	Muzzafarpur	220	Rail		1	20	14	
JSEB								
10	Patratu @	840	Rail	CCL	4	20	3	
11	Tenughat @	420	Road	CCL	6.6	20	3	
Orissa								
12	IB TPS	420	Pithead	MCL	8	15	15	20
13	Talcher Old	470	Pithead	MCL	8.3	15	11	
WBPDC								
14	Kolaghat TPS @	1260	Rail	ECL, BCCL and MCL	17.85	25	3	
15	Bakreswar TPS #	840	Rail		10.8	25	5	
16	Santalidih TPS	730	Rail		6.235	20	8	
17	Bandel TPS #	450	Rail		4.97	20	4	
18	Sagardighi @	600	Rail		7.2	20	1	
DPL								
19	DPL TPS #	690	Rail	BCCL, ECL, MCL	9.6	20	4	
CESC								
20	Budge-Budge	500	Rail	ECL, BCCL and MCL	7.2	20	11	
21	Titagarh #	240	Rail		3.4	20	5	
22	Southern REPL #	135	Rail		2.4	25	4	
23	New Cossipore	130	Rail		1.1	20	20	

“#” stands for station with less than 7 days coal stock and more than 3 days coal stock
 “@” stands for Super-critical station with less than 4 days coal stock

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 statement depicting typical values of DC furnished by vis-à-vis full DC is given below:

Name of the Thermal ISGS	DC (MW)/ Normative Ex-bus Capacity (MW)			
	July-09	Aug-09	Sep-09	Oct-09
FSTPP	921/1489	783 /1489	756/1489	732/1489
KhSTPP-I	564/764	510/764	410/764	469/764
KhSTPP-II	488/935	366/935	345/935	360/935

TSTPP-I	395/935	721/935	809/935	843/935
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Coal stock positions of Eastern Regional Thermal Power Stations are regularly monitored in the OCC meetings of ERPC and representative of CIL was specially invited in the OCC meetings to address the coal shortage issues faced by power sector with Coal companies.

In the 44th OCC meeting held on 20.11.09, Member Secretary, ERPC proposed perusal of the following aspects which are pertinent to coal shortage problems discussed at various forums of ERPC.

- a. Seeking import duty exemption on imported coal, because import of coal is getting thrust upon Eastern Region TPSs.
- b. Exploring the use of heavy fuel oil in the coal shortage scenario and deemed export benefit for Heavy Fuel Oil supplied to Eastern Regional Thermal Station. This will improve average PLF and peak/off-peak ratio.
- c. Defining “Coal Shortage Condition” scenario in terms of normative coal consumption/day, coal stock at TPS and rate of coal dispatch from mine, which is yet to be defined.
- d. Whether Kahalgaon U#7 (500 MW) is fit for declaring COD under coal shortage scenario, when linked coal mine is yet to be developed.

Further during deliberation, followings were noted

- Coal Supply to Farakka and Kahalgaon STPP during the month of October’09 was 103.3% of contracted quantity. (CIL)
- Coal requirement for Kahalgaon U#7 is not included in 15 MMT coal allocated to Farakka and Kahalgaon STPP from CIL during the year 2009-10. (CIL)
- Import of coal would start by December’09. Order for Imported coal is for 4 MMT which is equivalent to 6 MMT of Indian coal. (NTPC)
- 2 MMT of Ranigang A/B grade coal equivalent to 3 MMT of normal grade coal has been arranged. (NTPC)
- Tied up with NCL for 30 days for 0.3 MMT of coal and also tied up with Singreni coal mines for 1 MMT coal. (NTPC)
- Rest 2 MMT requirement of coal is to be arranged through e-auction or forward auction. (NTPC)
- With this, generation from Farakka and Kahalgaon would start improving by December’09. (NTPC)
- Coal supply to Talcher STPP during the month of October’09 was 116.8% of contracted quantity. (CIL)
- Talcher STPP complained of receipt of poor quality coal (specific coal consumption higher than 0.9). (NTPC)
- There is no provision for separately earmarking coal for Talcher Stage-I and Stage-II as coal is allocated for total Talcher STPP. (NTPC)

- Declared capacity for Talcher Stage-I STPP during the month of October'09 was more than 100% and higher than DC of Talcher Stage-II STPP. (NTPC)
- However, efforts are there to maximise generation from the running unit of Talcher Stage-I STPP. (NTPC)
- Coal supply to Mejia TPS during the month of October 09 was 78.4% of contracted quantity. (CIL)
- Unloading constraints at Mejia TPS were already resolved and the current low coal stock position happened due to some problems in railway rake movement. (DVC)
- Coal supply to Sagardighi TPS during the month of October'09 was 46.9%. Current low coal stock position at Sagardighi TPS might have happened due to some problems in railway rake movement. (CIL)
- Unloading problem at Sagardighi TPS is resolved. Presently, entire supply of 2 BOBR rakes per day is consumed by Sagardighi TPS. (WBPDCCL)
- WBPDCCL has signed FSA with CIL. (WBPDCCL)
- IB TPS has contracted for Grade "F" coal and coal supplied to IB TPS has ash content of 38% and other grade "F" coal features. (CIL)
- Poor coal reported by NTPC, WBPDCCL and others needs further investigation. If specific poor coal quality problem is reported, CIL would look into it. (CIL)
- Coal stock position of Titagarh TPS has improved. As on 19.11.09, Titagarh TPS has 5 days coal. (CESC)
- DPL informed that they are facing some coal unloading problems due to supply of coal by suppliers mainly in non-BOBR rakes. They were requested to pursue the case with Railways.

CIL proposed to give a presentation in the next OCC meeting on how the coal is allocated, the follow-up supplies and their role in shortage scenario. Then, members proposed that CIL may give such a proposal before ensuing TCC/ERPC meeting. This was accepted by CIL.

After detailed discussion, OCC members decided that abysmal coal stock in various thermal stations in ER, declaration of COD of Kahalgaon U#7 when linked coal mine is not developed and definition of coal shortage condition needed further deliberation and referred the matter to TCC for further deliberation.

In light of the above fact,

- **CIL has been invited to give their presentation on coal allocation/shortage issues.**
- **Concerned Members may furnish coal stock status and related issues of their respective generating stations, which will be discussed one by one.**
- **NTPC may propose the definition of coal shortage condition correlating normative daily coal consumption, coal stock and the rate of dispatch from the sources of coal. Other members including CIL may discuss for adoption.**

- **NTPC may share its views on Kahalgaon U#7 should be declared COD when linked coal mine is yet to be developed.**
- **NTPC may share the steps taken by them to mitigate coal shortage problem.**
- **NTPC may give a presentation on the payment due to them under different loading patterns/orders given by ERLDC under coal shortage scenario.**

DELIBERATION IN THE TCC MEETING

Member Secretary requested NTPC, State Generating Utilities to offer their views on coal stock position and related issues and CIL to state the status of coal supply and respond to the issues raised :

NTPC

Regional Executive Director (ER-I), NTPC gave a presentation highlighting the present coal stock position at their plants and their plan for augmentation of coal supply to achieve around 85% availability. The salient features were :

- NTPC is making all out efforts to augment coal supply to power stations in ER.
- The thermal stations of Eastern Region have no coal stock at present. To augment coal supply, NTPC have arranged to divert 2.75 rakes from NCL mines which are meant for Singrauli & Rihand to Farakka & Kahalgaon on daily basis (Total 84 rakes) to increase the generation level of FSTPS & KhSTPS.
- NTPC have arranged 2 MMT coal from Raniganj.
- Fuel supply agreement has been signed on 22.11.2009 with Singrani Coal mines for supply of 1 MMT.
- The first shipment of imported coal has already arrived at Kakinada and the second shipment is expected shortly at Haldia.
- Due to critical coal stock position, the COD of KhSTPP U # 7 (500 MW) has now been planned in January 2010.
- Coal supply position is expected to improve by middle of December 09.
- For sustained & increased generation level of NTPC ER stations, Railway is to provide all the infrastructural support for transportation of coal.

DPL

Managing Director, DPL opined that coal requirement vis-à-vis shortage problem should be addressed in light of following :

- Higher consumption of coal is due to difference between UHV of loading point and UHV as fired at power station.
- The existing FSA is based on average of last three years' coal consumption when the PLF was low and the coal supplied was of higher grade.
- Coal is received mostly through Box-N type rakes which takes time for unloading. BOBR rakes are preferred instead of Box-N type.
- For transportation of coal from MCL collieries through BOBR rakes, one tunnel on the railway route is the major bottleneck in movement of BOBR rakes. Unloading facilities at power station also needs improvement.

GRIDCO

Director (Commercial), GRIDCO stressed the need for improvement in quality of coal supplied to Ib TPS for higher generation. In respect of Talcher STPS, he stated that interest of ER constituents should be given due consideration while apportioning coal supply between Stage-I & II for generation.

DVC

Chief Engineer (CLD), DVC stated there is no coal shortage at Bokaro TPS, Chandrapura TPS and Durgapur TPS at present. Mejia TPS had performed very well last year but this year the power station has experienced coal shortage for which all the six units are unable to generate simultaneously. The situation has now been improving with the availability of 3-4 rakes per day. As suggested during the meeting, DVC agreed to explore the possibility of diversion of coal from CTPS to MTPS.

BSEB

BSEB representative stated the following :

- a) NTPC should furnish the requirement of coal for Kahalgaon Stage-I & II separately.
- b) In the present scenario when the import of coal has become a regular phenomena, it is proposed that Member Secretary, ERPC should seek clarification of the Hon'ble CERC on the following :
 - i) Whether NTPC can raise enhanced FPA on account of imported coal during the period December 2008 to March 2009 and April, 2009 onward as per CERC Regulations, 2009 from the beneficiaries without concurrence of CERC.
 - ii) For determination of norms for blending of imported of coal with higher calorific value with the indigenous coal and regulations thereof.
 - iii) Review of the existing norms for maintaining coal stock as per CERC regulation in case NTPC is not able to maintain coal stock at their power stations.

However, in reply to BSEB's view, Member Secretary,ERPC suggested that constituents may take up individually with CERC, if they so desire.

CIL

On the request of Member Secretary,ERPC Shri K. Mukhopadhyay, Sales Manager, CIL gave a detailed presentation on supply of coal to Eastern Region power stations. The salient features of the presentation were :

- In the current fiscal CIL to supply 313 Million MT coal to Power Utilities; 306 Million MT for existing TPSs drawing coal as on 31.3.2009 and remaining 7 Million MT for the Units coming up during the year.
- CEA allocated 306 Million MT coal from CIL sources amongst existing Power Stations.
- In Eastern Region 44.1 Million MT coal supplied to power stations against commitment of 45.6Million MT till November'09, i.e. materialization of 96%.

- In Eastern Region 8 TPSs carrying super critical coal stock i.e. less than 3 days coal stock.
- In the super critical category Farakka, Kahalgaon, Talcher, Kolaghat and Patratu received more than 100% of committed quantity. Mejia received more than 95% of committed quantity.
- Bakreswar, Bandel, DPL and Tenughat received less than 90% of committed quantity – commercial arrangements with Railways (Bakreswar), unloading constraints (Bandel), less programme submission (DPL) and not arranging road transport (Tenughat). affected despatch to these power stations.
- CIL is in a position to supply coal to all power stations as per commitment so far as FSA and ACQ are concerned.
- No dearth of coal – pithead stock increasing.
- Wagon availability needs improvement.
- Power Stations to make commercial arrangement with Railways.

In response, NTPC mentioned that FSA/ACQ serve only about 50% of their annual requirement of coal at Farakka and Kahalgaon.

Member Secretary, ERPC stated that the exemption of import duty on coal would be sought because high cost of imported coal is thrust upon ER ISGS stations interalia distribution licensees. During coal shortage condition the use of HFO would be explored to improve PLF and peak/off-peak ratio.

The “Definition of Coal Shortage” Scenario was discussed and it was consensus to relate it with the coal stock of thermal power station and the dispatch rate from the mine. After lot of deliberations, it was agreed to consider that coal shortage scenario will be said to exist in case coal stock is less than 5 days’ consumption (normative) and average dispatch for the last seven days is less than 90% of daily consumption. But, ERLDC suggested that CERC nod should be obtained before adopting any definition.

It was decided to pose the definition before ERPC and seek its view as to whether CERC should be approached or not in the event of consensus among all ERPC members.

The issue is referred to ERPC for further deliberation.

DELIBERATION IN THE ERPC MEETING

CMD, WBSEDCL & WBSETCL stated that coal is being supplied from the collieries in Eastern Region to power stations all across the country, whereas many power stations in Eastern Region are starving of coal. Simply from the point of economy, priority should be given to supply more coal to power stations located in ER. It is an irony to mention that the sitting on the coal hub of the nation Eastern Regions power stations are being thrust upon the high cost of imported coal resulted hike in FPA of ISGS of ER. Under present tariff regulations the generating company can declare virtually nil coal stock, still get away with their fixed charge. Apart from notified price, CIL is also selling coal through MoU route at a much higher rate. Import of coal is also taking place at a very rate. All these factors are putting heavy financial burden on the distribution companies interalia on ultimate consumers. Under compelling situation the distribution

tariff in West Bengal has been recently hiked by 22%, still all the extra cost on account of increased generation tariff could not be recovered. He opined that instead of transmitting power from hydel source in Subansiri in North-East to all the way to Western Region, it may be more economical to build thermal power station in WR based on gas or imported coal. He also highlighted the need for coal regulator.

Managing Director, WBPDCCL said coal stock at Raniganj is fast depleting. The quality of coal supplied from BCCL and MCL is very poor and full of stones, boulders etc. He suggested that CIL to put up coal washery at pit head so that stones and boulders are removed, better quality low ash coal is supplied and transportation cost is reduced. He stated that though at the moment supply of coal to power stations has picked up similar crisis may come up during next monsoon when mines will be flooded again hampering production and supply of coal to the power stations. Regarding use of imported coal he opined there could be restriction in using the imported coal with high calorific value in the existing boilers since they were designed for low grade Indian coal.

Chairman, BSEB endorsed the view of MD, WBPDCCL that quality of coal supplied is very poor and full of stones and boulders. He mentioned that Bihar is totally dependent on central sector power. Out of total central sector allocation of about 1600 MW, at the moment Bihar is getting only 650 to 700 MW power. Low generation at NTPC stations due to coal shortage being the primary reason. With demand of the State being about 2000 MW, serious law and order problems are anticipated if the generation at NTPC stations does not pick up.

CIL representative acknowledged the anguish of power utilities about coal supply. He stated that all new mines with 2 Million MT and above capacity would have coal washery and by the end of 11th Plan all coal supply would be through washery only. He gave a brief presentation on coal supply and stated that although CIL is hard pressed for meeting the coal requirement since many power plants would be coming up by the end of 11th Plan, but CIL is putting up best effort to supply coal as per ACQ and FSA. He mentioned that CIL growth rate in production during the current 11th Plan is 6.4% and one should not expect CIL to meet the entire coal requirement of power stations across the country. Import of coal is a reality, though may not be a permanent solution.

Definition of Coal Shortage

At the outset, CMD, WBSEDCL & WBSETCL suggested to adopt definition as adopted by WBERC. All state constituent members agreed to the suggestion. It was decided that NTPC shall go through the definition and revert back in the ensuing OCC meeting.

ERPC Secretariat gave a brief presentation to deal with coal shortage scenario highlighting the following :

- The Eastern Region supplying coal to rest of the country is to import coal for its own use. The power stations were not envisaged for imported coal,

and in the process are incurring extra expenditure in terms of high cost of imported coal and associated transportation cost from port to the power stations. Consumers of Eastern Region deserve fiscal relief atleast in the form of exemption of custom duty on imported coal. This would lower generation tariff leading to lower ARR of distribution licensee, and ultimately lower Input cost to the industry/ business. A good part, may be 40% of the relief would be recovered back by the Government in the form of lower subsidy burden.

- To explore the use of HFO as support fuel / supplementary fuel since boilers are designed to use HFO as start-up fuel. This would lower “Minimum Technical Limit” giving more flexibility in generation.
- Considering present price of HFO as Rs. 22,500 per Ton, the unit cost would be about Rs. 5.6/ unit, which is comparable with price discovered in Power Exchange. (NTPC suggested Rs.8.50 per unit and uneconomical. However, it was consensus that even Rs.8.50 is attractive at times as also it will check the price discovery in Power Exchange.)
- Considering export parity price of HFO as Rs. 15,000 per Ton, the unit cost would be about Rs. 3.8/ unit, which is comparable with tariff from new projects.

The presentation was summarised with the following observation :

- Pursue for exemption of custom Duty on coal imported for NTPC stations
- NTPC to examine use of LSHS/ HFO firing and come back.
- To pursue for fiscal incentives for pricing of HFO/ LSHS
- Licensees to explore export of such surplus power

Regional ED (ER-I), NTPC suggested that use of HFO for supplementary firing needs technical studies to find out the suitability of existing boilers, beside other infrastructural requirement. There are commercial implications too. NTPC would revert back with their observation in the next ERPC meeting.

Director (Commercial), GRIDCO reiterated that coal requirement of TSTPS Stage-I & II of NTPC should be separately assessed and coal stock for Stage-I & Stage-II should be separately mentioned since the Stage-I & Stage-II are two distinct power stations having different tariff and commercial implications. He said there appears to be lack of transparency in demarcating coal stock for Stage-I & Stage-II and declaration of generation availability for scheduling. Further, it seems that there were instances when Stage-I was given less availability at the expense of Stage-II He proposed that a Committee may visit TSTPS to assess modalities adopted by NTPC to maintain coal stock at TSTPS and declaration of availability thereof.

Regional ED (ER-I), NTPC responded that scheduling of Talcher Stage-I and Stage-II is done in equitable manner, keeping the interest and need of the regions in mind.

It was agreed that a Committee comprising of Director (Commercial), GRIDCO, Member Secretary, ERPC, Executive Director (TSTPS), NTPC and one officer of Talcher STPS would go into this issue.

TCC AGENDA ITEM NO.6B

REACTIVE ENERGY POOL ACCOUNT -- AS ON 20.11.2009

TCC AGENDA

The position of Receipt/Payment for bills upto 20.11.2009 as received from ERLDC is indicated at **Annexure –II**.

All the bills have been paid-up. The balance in the pool is Rs.1,39,71,199. In the 8th TCC and 8th ERPC meetings, ERPC had authorized Member Secretary to get held the Seminar/Workshop(s) on emerging issues for the benefit of the constituent members by utilizing the fund available in the ER Reactive Pool account.

As a part of Disaster Management, a Workshop was conducted jointly by ERPC and ERLDC on 19.11.2009 at ERPC, Kolkata on “Black Start Procedure and Restoration”. All the constituents including SLDCs sent their participants.

An amount of Rs.1,23,028/- has been incurred for which TCC may give post facto approval.

The Commercial Sub-Committee in its 11th meeting held on 16.11.2009 recommended to TCC and ERPC for approval of the expenditure.

TCC may accord approval.

DELIBERATION IN TCC MEETING

Members noted the position of Receipt/Payment for bills upto 20.11.2009 as received from ERLDC.

TCC recommended to ERPC for post facto approval of expenditure of Rs.1,23,028 incurred in connection with the Workshop jointly organised by ERPC and ERLDC on Black Start Procedure and Restoration as a part of Disaster Management.

ERPC may please approve.

DELIBERATION IN THE ERPC MEETING

ERLDC made a presentation highlighting the objective of the Workshop and the areas covered including case studies and role play session.

ERPC members appreciated the initiative taken for successfully organising the Workshop on “Black Start Procedure and Restoration” for updating the knowledge of the SLDC engineers and other concerned engineers.

Member Secretary,ERPC suggested that utilities should work together so as to have preparedness for disaster management for transmission / distribution network. due to natural calamity like flood, earthquake etc.

Post facto approval was accorded for the expenditure and reimbursement thereof, of Rs.1,23,028/- to be paid to ERPC FUND by ERLDC by utilising the fund available in the Reactive Energy Pool Account.

TCC AGENDA ITEM NO. 8

COMMERCIAL DECLARATION OF REGIONAL ASSETS – POWERGRID

TCC AGENDA

I) LILO of 400 KV Patna-Kahalgaon Line at Barh STPP, NTPC

POWERGRID vide their letter dated 15.10.2009 intimated that LILO portion of Patna-Kahalgaon line at Barh STPP, NTPC was test charged successfully on 14th October 2009 at 18.51 hours and declared its COD with effect from 1st November 2009 as per CERC Regulations 2009.

In the Commercial Committee meeting held on 16.11.2009 POWERGRID representative furnished the following information :

- i) Approved total cost of the project is Rs.3779 crores out of which Rs.171 crores (approx.) is for LILO portion of 400 KV Patna-Kahalgaon line at Barh STPP, NTPC.
- ii) Above asset was approved in the Standing Committee meeting held on 25.08.2003 at Gangtok.
- iii) Approved in the 107th and 108th EREB meetings held respectively on 18.09.2003 and 01.01.2004.
- iv) Till the COD of the 1st unit at Barh STPS, transmission charges would be borne by NTPC, thereafter by the concerned beneficiaries as per CERC Regulation.

Members in the Commercial Sub-Committee in its 11th meeting held on 16.11.09 recommended to TCC for the approval of COD of the above elements.

DELIBERATION IN TCC MEETING

NTPC on its own had offered to bear transmission charges upto COD of the first unit of Barh STPS.

TCC recommended to ERPC for the approval of COD of the above.

ERPC may please approve.

DELIBERATION IN THE ERPC MEETING

The constituent members sought to know whether NTPC will capitalise this expenditure.

Member Secretary, ERPC suggested that issue of capitalisation should be taken up at the time when CERC considers according approval to capital cost of Barh STPS.

All constituent distribution companies wanted to put on record that they intend to oppose the capitalisation of this expenditure before CERC, as and when it will be taken up.

ERPC approved declaration of COD of this element with effect from 1st November, 2009.

TCC AGENDA ITEM NO.13

COMMERCIAL AGREEMENT FOR IMPLEMENTATION OF FIBRE OPTIC NETWORK IN LIEU OF EXISTING MICROWAVE NETWORK – Agenda Submitted By POWERGRID

TCC AGENDA

During the 10th ERPC meeting the establishment of Fibre Optic Network by Powergrid in lieu of the existing Microwave links was approved. Subsequently, in 11th ERPC meeting the requirement of making Fibre Optic Communication Scheme in lieu of the existing links as part of ER-ULDC Commercial agreement was discussed. As desired in the meeting a copy of the said commercial agreement was forwarded to constituents for furnishing their consent. Powergrid have already initiated process of investment approval and procurement for the ERPC approved 2593 Km Fibre Optic communication scheme.

Constituents to agree for making the project a part of Commercial Agreement already signed by Powergrid with respective constituents for ER ULDC project and tariff shall be as determined by CERC.

Members may concur the same.

DELIBERATION IN TCC MEETING

Initiating the discussions, POWERGRID informed that as discussed during 10th TCC/11th ERPC meetings, a copy of existing Commercial Agreement of ER-ULDC project was forwarded to constituents and requested members for agreement on making the project a part of the said ER-ULDC commercial agreement.

WBSETCL while agreeing to the same wanted the details of calculation for tariff under the project. POWERGRID clarified that tariff figures provided are indicative and actual tariff shall be as per CERC notification.

After deliberations, TCC decided that tariff calculation details shall be provided by POWERGRID to members for appraising ERPC and decision by ERPC in meeting on 04.12.2009

ERPC members may please discuss.

DELIBERATION IN THE ERPC MEETING

ERPC deliberated the issue and based on details and clarification provided by POWERGRID, agreed for making the Fibre Optic Communication Scheme in lieu of existing Microwave Network a part of existing Commercial Agreement of ER-ULDC project.

CMD, WBSETCL stressed that the beneficiaries of the Eastern Region, who are solely financing the implementation of the Fibre Optic Network in lieu of existing Microwave Network, would get relief to the extent of extra revenue earned by POWERGRID from commercial utilisation of the above network, if any.

POWERGRID confirmed that the same would be taken care duly.

The Committee accorded approval to the above scheme.

ITEM NO.4 ITEMS PUT UP TO ERPC BY TCC MEMBERS FOR INFORMATION

The following items were put up to ERPC by TCC for information as per the discussion of 11th TCC meeting. (Please refer minutes of 11th TCC meeting attached herewith for details on agenda & TCC deliberation).

ITEM NO.2 HIGHLIGHTS OF GRID PERFORMANCE FOR THE PERIOD AUGUST'09 TO OCTOBER'09

ITEM NO.3 IMPORTANT GRID EVENTS

ITEM NO.5: STRENGTHENING OF EVACUATION SYSTEM FROM SOUTH BENGAL TOWARDS NORTHERN PART OF ER GRID

ITEM NO. 6 A) PAYMENT OF UI -- PRESENT STATUS

ITEM NO. 6C) 'IRE POOL' ACCOUNT (ER & SR) – AS ON 20.11.2009

ITEM NO. 6D) POOL BALANCE DUE TO CAPPING OF NTPC STATIONS IN ER / ADDITIONAL UI CHARGE

ITEM NO. 7 ADDITIONAL UI CHARGES ON INTER-REGIONAL POWER TRANSACTIONS

ITEM NO.9 AUGMENTATION OF TRANSFORMATION CAPACITY OF 220/132 kV BIRPARA AND SILIGURI SUB-STATIONS OF POWERGRID

ITEM NO.10 STEEP HIKE IN FUEL PRICE ADJUSTMENT (FPA) PRICE

ITEM NO.11 AWARD OF ANNUAL MAINTENANCE CONTRACT FOR SCADA

**ITEM NO.12 SETTING UP OF 400 KV LAPANGA SUB-STATION NEAR
JHARSUGUDA -- Agenda Submitted by GRIDCO**

DELIBERATION IN THE ERPC MEETING

The agenda points and TCC deliberations thereof were noted.

**ITEM NO. 4 ISSUES REFERRED TO ERPC BY THE STANDING COMMITTEE
ON TRANSMISSION PLANNING IN EASTERN REGION**

The meeting of Standing Committee on Power System Planning in Eastern Region was held on 14.9.2009 at Bhubaneswar. Based on the discussion in the meeting, CEA has proposed to place the following decision of the Standing Committee for information and approval by the ERPC.

Agenda :

4.1.0. The setting up of Uttara 400/220kV 2x315MVA S/S in Orissa by LILoing of 400 kV Baripada-Mendhasal D/C line at Uttara under the regional transmission scheme was earlier agreed as part of system strengthening works in ER and approved in the last ERPC meeting. In the Standing Committee, the proposal of GRIDCO for exploring an alternative option for connecting Uttara S/S directly by a 400 kV D/C line from Mendhasal has been agreed. Accordingly, the better option shall be examined and confirmed by PGCIL and the same may be endorsed by ERPC.

Subsequently, General Manager (Engg-SEF), Power Grid, vide letter dated 12.11.2009 communicated that the connectivity to Uttara would be through 400 kV D/C line from Mendhasal and accordingly proposed the following for approval of ERPC :

2 X 315 MVA, 400/220 kV Sub-Station at Uttara with Mendhasal-Uttara 400 kV D/C line.

Members may please discuss and approve the above proposal.

DELIBERATION IN THE ERPC MEETING

During discussion it was transpired that the establishment of Uttara 400/220 kV within a span of 50 km from Mendhasal 400 kv sub-station may not be able to get required load in the vicinity of coastal areas in Orissa. GRIDCO/OPTCL agreed to examine and confirm.

Members approved the above proposal subject confirmation by GRIDCO/OPTCL and they have since confirmed.

Agenda :

4.2.0. For immediate evacuation of power from Tilaiya UMPP(4000MW), 765kV Tilaiya UMPP–Sasaram S/C, Tilaiya UMPP– Gaya S/C, and Tilaiya UMPP – Balia S/C lines were earlier agreed. In view of space constraint at Sasaram, an additional 765kV Tilaiya UMPP– Balia S/C line instead of the 765kV Tilaiya – Sasaram line would be constructed forming two 765kV lines from Tilaiya UMPP to Balia. Thus, the revised system is,

- ✓ Tilaiya UMPP – Balia 765kV D/C line
- ✓ Tilaiya UMPP – Gaya 765kV S/C line

The modality of sharing Transmission charges for the above ATS shall remain the same as agreed earlier.

Members may please discuss and approve above decision of Standing Committee.

DELIBERATION IN THE ERPC MEETING

BSEB opined that Tilaiya UMPP–Balia 765kV D/C line, in place of Tilaiya UMPP–Sasaram 765kV S/C line would increase the cost of ATS of Tilaiya UMPP, hence the beneficiaries of Tilaiya UMPP in ER would be additionally burdened for ever. Moreover, Eastern Region would be deprived of one 765kV connectivity, if not constructed at Sasaram. ERPC

Members suggested POWERGRID to explore the possibility to accommodate the Tilaiya UMPP–Sasaram 765kV S/C before finalisation of the above project.

Agenda :

4.3.0 In order to evacuate power from Haldia TPS (600MW) of CESC, 400kV Haldia–Subhashgram(PG) D/Cline, 2x315MVA ICTs at Subhashgram(PG), 220kV D/C line from Subhashgram to CESC substation will be developed by CESC at their own cost. Out of 600 MW plant capacity, 450MW would be the drawal of CESC at 220kV from the ICTs of CESC being connected to the 400kV bus at Subhashgram (PG) S/S, and the balanced 150MW will be wheeled to NPCL (Noida Power Company Ltd,) by long term access (LTA) utilizing ISTS system. The modalities for sharing of transmission charges for 450 MW by CESC and 150MW by NPCL have been decided as below.

- (i) CESC would be provided connectivity at 400 kV Subhashgram (PG) S/s.
- (ii) For wheeling of 150 MW power Haldia TPS, NPCL (beneficiary) would bear the ER and NR regional charges.
- (iii) For 450 MW power drawal by CESC from its own ICTs at Subhashgram (PG), no ER transmission charges would be charged from CESC.

Members may please discuss and approve above decision of Standing Committee.

DELIBERATION IN THE ERPC MEETING

Members appreciated the decision of POWERGRID for providing space at their 400 kV sub-station at Subhasgram allowing utility to develop

connectivity and facilitating power transfer. Earlier it used to deny citing space constraints.

Members agreed to the above proposal with the observation that Power Grid shall continue to extend such facility in future to all ER utilities.

Agenda :

4.4.0. In view of change in the generation programme of IPPs in Orissa, the earlier agreed transmission system including pooling stations in Orissa has been revised/agreed as following.

- Establishment of 2x1500 MVA, 765/400kV Pooling Station at Jharsuguda
- Establishment of 4x1500MVA, 765/400kV Pooling Station at Angul
- Angul Pooling Station – Jharsuguda Pooling Station 765kV 2xS/c
- LILO of Rourkela – Raigarh 400kV D/c at Jharsuguda Pooling station
- *LILO of Meramundali – Jeypore 400kV S/c line at Angul pooling station
- *LILO of one ckt of Talcher - Meramundali 400kV D/c line at Angul pooling station

[* These LILO will be later disconnected when Angul pooling station is developed as 765kV as otherwise it would cause short circuit level problem.]

The transmission charges shall be borne initially by the generation developers. Once the generation developers identified the long term beneficiaries for their generation projects, the same shall be borne by the beneficiary state transmission utilities.

Members may please discuss and approve above decision of Standing Committee.

DELIBERATION IN THE ERPC MEETING

During the discussion, GRIDCO mentioned that the present scheme is appeared to be different from the original one.

After initial discussion, it was decided to take up this scheme in next ERPC meeting.

Agenda :

4.5.0. Out of the total installed capacity of 2x600MW at CESC-Dumka TPS in Jharkhand, one unit would materialize in the first phase and its power will be evacuated by LILO of Kahalgaon-Maithon 400kV D/C lines at Dumka. At a later date, 400kV Dumka-Gaya D/C line shall be developed as a dedicated line matching with the commissioning of the second unit at Dumka.

For supply of Jharkhand's share of 25% from Dumka project, CESC will provide 2x315MVA,400/220kV ICTs at the Dumka switchyard enabling JSEB to consume their requisite share from the switchyard by constructing 220kV outlets. The commercial issue shall be mutually settled by CESC and JSEB.

Members may please discuss and approve above decision of Standing Committee.

DELIBERATION IN THE ERPC MEETING

CMD, WBSEDCL & WBSETCL observed that it has become a trend to make LILO of existing evacuation line to facilitate upcoming generation projects. This in general is not desirable. New generation projects should come up with its own ATS and transmission planning should be done accordingly.

This proposal was approved subject to settlement of commercial issues bilaterally between JSEB and CESC.

Agenda :

- 4.6.0** For immediate evacuation of power from Adhunik project (1005MW) in Jharkhand, it has been decided in the standing committee that LILO of Maithon-Jamshedpur 400kV D/C at Adhunik will be the interim arrangement till the time 400kV Adhunik- Jamshedpur 400 kV system be established.

Members may please discuss and approve above decision of Standing Committee.

DELIBERATION IN THE ERPC MEETING

It was decided that the Committee is not agreeable for any interim arrangement at planning stage. The evacuation scheme should be firm with its COD matching with the generation scheme, so that lenders too monitor and ensure that generation and transmission schemes are implemented together.

Agenda :

- 4.7.0 Common System Strengthening for Transfer of power from generation projects in Jharkhand and West Bengal to NR/WR**

In order to transfer/evacuate power IPPs in Jharkhand and projects coming up in West Bengal (seeking LTOA for 1000MW by WBSETCL/ WBSEDCL) to NR/WR, the transmission system to be developed by PGCIL in ER creating a pooling station in Jharkhand has been the following.

- Establishment of 400kV Pooling Station (Jharkhand Pool) near Essar and Corporate generation projects in Jharkhand.
- Ranchi – Jharkhand Pooling Station - Gaya 400 kV Quad D/c line.

In addition to above, additional transmission requirements in NR and WR have been also decided in the standing committee. The charges of the common transmission system would be borne by the generation developers of Jharkhand as well as WBSEDCL till the time the long term beneficiaries are finalized. Once, the long-term beneficiaries are tied-up, transmission charges would be shared by the beneficiaries in proportion to their allocation. Regional charges of Eastern Region would be borne by Jharkhand IPPs in proportion to their installed capacity, and by WBSEDCL corresponding to its

long term access quantum. The regional charges for WR and NR would also be shared by Jharkhand IPPs and WBSEDCL in proportion to the power allocated to these regions.

Members may please discuss and approve above decision of Standing Committee.

DELIBERATION IN THE ERPC MEETING

After brief discussion, the proposal was approved on the consideration that the transmission charges as per CERC regulations shall be shared by Jharkhand IPPs and WBSEDCL in proportion to the power allocated to WR and NR.

Agenda :

4.8.0 Evacuation of power from generation projects coming up in Sikkim, NER and Bhutan

In view of delay in the commissioning programme of Subansiri HEP (2000MW), Kameng HEP (600MW) etc. in NER from 11th plan to early 12th plan (2012-13) and to conserve right of way in the chicken-neck area in the northern part of WB, the transmission requirements for evacuation of power from various hydro projects coming up in NER, Sikkim and Bhutan are reviewed/revised with the aim of developing optimal and comprehensive transmission system meeting the long term requirements for transfer of power to NR and WR. The 3000MW HVDC terminal station intended earlier to be set-up at Kishanganj, will be set-up in the northern part of WB at Alipurduar (close to Bhutan border) to conserve RoW in the chicken-neck area and to facilitate transfer of power from generation projects in Bhutan. Power from various basin based hydro-projects in Sikkim has been already identified to be pooled at Rangpo, Tingting or Tashiding, New Melli, Mangan pooling stations within Sikkim and finally, will be pooled at Kishanganj. Accordingly, establishment of a 400/220kV Kishanganj pooling station with an additional 400kV D/C Quad line from Kishanganj to Patna is planned. For evacuation of Teesta-III, power from the project will be transmitted to 400/220kV Kishanganj S/S by the 400kV Teesta-III – Kishanganj D/C Quad line to be developed by TPTL under JV route. It will be LILOed at New Melli pooling station to facilitate power transfer from Phase-I projects in Sikkim. This line will be further LILOed at proposed Mangan pooling station at a later date for future generation projects in Northern part of Sikkim. After commissioning of Mangan pooling station, the Mangan – New Melli portion of this line will be also utilized by other generation projects.

DELIBERATION IN THE ERPC MEETING

CMD, WBSEDCL & WBSETCL stated that HVDC terminal station and the evacuation line would be passing through the geographical area of West Bengal / Eastern Region and the region has no allocation from the above projects. Constituents of Eastern Region are looking forward to allocation from the generation projects coming up in Sikkim, NER and Bhutan.

The scheme is approved subject to the condition that the States of ER are allocated power from Subansiri HEP in conformity with the MoUs signed by them with NHPC.

Agenda :

4.8.1 ATS for Generation specific Project:

- I.** Upto Pooling Station at New Melli/ Kishanganj / Mangan[#] (proposed at a later date)
 1. **Teesta-III** :Teesta-III – Kishanganj 400kV D/C line with Quad Moose conductor(to be implemented by TPTL under JV route)
 2. **Teesta-VI** :Teesta-VI – New Melli 220kV D/c line with Twin Moose conductor
 3. **Jorethang & Rangit-IV:** Jorethang – New Melli 220kV D/c line with single moose conductor, one ckt via Rangit-IV.
 4. **Tingting & Tashiding:** Tingting– New Melli 220kV D/c line with twin moose conductor, one ckt via Tashiding.

II.Upto Pooling Station at Rangpo

1. **Chuzachen** :Chuzachen – Rangpo 132kV D/C line with Zebra conductor.
2. **Rongnichu:** Rongnichu – Rangpo 220kV D/C line with Zebra conductor.
3. **Bhasme** : LILO of one ckt of Rongnichu-Rangpo 220kV D/c line at Bhasme with Zebra conductor.

- 4.8.2** The revised transmission system requirements for power transfer from HEPs in Sikkim and Bhutan to NR/WR, and its development in phase-A,B & C are the following.

Part – A: Transmission System for development of pooling station at Kishanganj and associated transmission works (under the Scope of PGCIL)

(By 2011-12, for evacuation of 1300 MW from Sikkim)

- Establishment of New 2x315 MVA, 400kV sub-station at Kishanganj
- LILO of Siliguri (Existing) – Purnea 400kV D/c line(quad) at new pooling station Kishanganj
- LILO of Siliguri (Existing) – Purnea 400kV D/c line (on which reconductoring is being carried out) at Kishanganj with the higher capacity(HTLS) conductor
- LILO of Siliguri – Dalkhola 220kV D/c line at new pooling station Kishanganj
- LILO of Gangtok-Melli 132kV S/c line upto Rangpo, where Chuzachen-Rangpo 132kV D/c would be connected so as to form Chuzachen-Gangtok and Chuzachen-Melli 132kV S/c lines. [This would be a temporary arrangement till establishment of Rangpo pooling substation under Part-B of the scheme and termination of Gangtok-Rangpo, Melli-Rangpo and Chuzachen-Rangpo 132kV lines at Rangpo]

Part – B: Transmission System for development of pooling substations within Sikkim and transfer of power to a new pooling station Kishanganj in northern Part of West Bengal/Bihar (under the Scope of PGCIL)

(By 2012-13, when additional 1100MW materializes in Sikkim)

- Establishment of 220/132kV, 3x100MVA Gas Insulated Substation at Rangpo
- Establishment of 10x167MVA, 1 ph, 400/220kV Gas Insulated substation at New Melli
- LILO of Teesta III – Kishanganj 400kV Quad D/c line (to be constructed through JV route) at New Melli
- Rangpo – New Melli 220kV D/C line (with twin Moose conductor)
- LILO of Gangtok-Rangit 132kV S/c line at Rangpo and termination of Gangtok-Rangpo/Chujachen and Melli–Rangpo/Chujachen 132kV lines (constructed under part-A through LILO of Gangtok-Melli 132kV S/c line upto Rangpo) at Rangpo sub-station
- LILO of Teesta V – Siliguri 400kV D/C line at New Melli
- Kishanganj – Patna 400kV D/C (quad) line

Part-C: Transmission System for development for power transfer from Bhutan to NR/WR (under the Scope of PGCIL)

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

- New 2x315MVA, 400/220kV AC & HVDC sub-station with ± 800 kV, 3000MW converter module at new pooling station at Alipurduar.
- Extension of ± 800 kV HVDC station with 3000 MW inverter module at Agra
- LILO of Bishwanath Chariyali – Agra HVDC line at new pooling station in Alipurduar for parallel operation of the HVDC station
- LILO of Bongaigaon – Siliguri 400kV D/c line(quad) (Bongaigaon – Siliguri 400kV D/c line under Pvt. Sector) at new pooling station in Alipurduar
- LILO of Tala-Siliguri 400kV D/c line at new pooling station in Alipurduar.
- LILO of Birpara-Salakati 220kV D/c line at new pooling station in Alipurduar
- Punatsangchu-1 – Alipurduar 400kV D/c with HTLS conductor (Indian Portion)
- Earth Electrode line at new pooling station at Alipurduar
- Earth Electrode line at Agra HVDC Terminal

Generation developers will initially bear the transmission charges for **Part ‘A’ & ‘B’** of the above works .The modality for cost and transmission resource sharing among the IPPs shall be sorted out between IPPs and PGCIL. The transmission charges for the **Part-C** would be borne by beneficiaries of Bhutan power. Northern Region and Western Region have agreed to share the transmission charges subject to allocation of power from Bhutan projects.

Members may please discuss and approve above decision of Standing Committee.

DELIBERATION IN THE ERPC MEETING

Sikkim representative stated that there is no 220 kV line from Chujachen-Rangpo. Rangpo would be an important load centre for Sikkim. After a brief discussion, the proposal was considered fit.

The scheme approved by the constituent States of ER mentioning that they also expect share out of all the associated generation schemes.

ITEM NO.5 CONSTITUTION OF ERPC

5.1 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, these organisations were informed about their membership in ERPC for the year 2009-10 with the request to communicate their respective nominated member and confirm their willingness to contribute requisite amount to ERPC Establishment Fund and ERPC Fund as applicable for all members.

In response, Durgapur Projects Ltd. (DPL) and Tata Power Company Ltd (TPCL) have nominated their member and contributed in the requisite funds. However, Adani Enterprises Ltd. (AEL) have implicitly declined to be a member of ERPC, citing their present business interest in Western and Northern Region. While, DPSC Ltd. have contributed in ERPC Fund (Rs.50000) but requested for waiver from contributing in ERPC Establishment Fund, citing that they are a small distribution company and contribution of Rs.14 lakh would be huge financial burden on them.

5.2 Bihar State Hydroelectric Power Corporation (BSHPC) is a member of ERPC since beginning i.e. from 2006-07. Recently, they have made requisite contribution for the current year i.e.2009-10 and expressed their willingness to continue as a member of ERPC. But, they are yet to pay their outstanding contributions (ERPC Establishment Fund since 2007-08 and in ERPC Fund since 2006-07).

5.3 ERPC may recall its last meeting discussion on Resolution of MoP, concerning membership of DISCOM and TRADER on rotation basis for a period of one year only. Agenda sought to allow wider participation of various stake holders and 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. The Committee in that meeting resolved that all members of ERPC should contribute equally and at par with other members.

5.4 In the meantime ERPC Secretariat received a communication from CEA enclosing a letter of MoP asking for comments on a issue raised by

Haryana Power Generation Corporation Ltd. (HPGCL) on contribution to NRPC Fund. In their letter to MoP, HPGCL felt that :

Quote:

“NRPC decision to ask for equal contribution from each member is not fair on account of the following reason : The States like Haryana which opted for unbundling have to contribute three / four times as compared to States like HP and Punjab who did not unbundled. It is suggested that instead of asking for equal contribution, proportionate contribution in terms of size of utility and or equal contribution from all the member States, rather than from individual unbundled utilities may be called for. The States may divide the contribution among their utilities.”

Unquote :

The issue raised by HPGCL, comments on which have been sought by MoP, is matter of concern keeping in mind that MoP Resolution provides for membership to small participants – captive power plants, and / or renewable energy generators, small distribution companies, traders etc. Their scales of operation may not sustain such expenditure.

Historically, in Eastern Region, mainly some of the distribution companies in Orissa, and Jharkhand who were member for a year and small generating company in Bihar (BSHPC) have remained defaulter in contribution to ERPC Establishment Fund. In the current year the trader (AEL) and the distribution company (DPSC) have so far implicitly declined to contribute to ERPC Establishment Fund.

In view of above, apportioning of costs to the constituent members of RPC together with eligibility condition of constituent members needs to be perused within the objective of ‘ Regional Power Committee’.

Members are requested to discuss and give their opinion on the matter.

ITEM NO.6 FUNDING OF ERPC SECRETARIAT

ERPC-ESTABLISHMENT FUND

A) FOR THE YEAR 2007-08

Contribution approved by ERPC : Rs.10 lakh per member of ERPC.

Contributions of Rs.10 lakh each from BSHPC and NESCO have 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.

BSHPC have sent their contribution for 2009-10, but yet to send their contribution for 2007 and 2008-09.

Members may please discuss and decide further course of action.

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.

JUSCO vide letter dated 24.09.2009 has expressed that they were just in the process of starting their operations as distribution licensee and would be in a position to contribute in ERPC Forum only after reaching a minimum level of business, expected in couple of years time.

BSHPC have sent their contribution for 2009-10, but yet to send their contribution for 2007 and 2008-09.

Members may please discuss and decide further course of action.

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 are pending from the following organisations :
SIKKIM, AEL & DPSC.

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

ITEM NO.7 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.

JUSCO vide letter dated 24.09.2009 has expressed that they were just in the process of starting their operations as distribution licensee and would be in a position to contribute in ERPC Forum only after reaching a minimum level of business, expected in couple of years time.

BSHPC have sent their contribution for 2009-10, but yet to send their contribution for 2007 and 2008-09.

Members may please discuss and decide further course of action.

(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 are pending from the following organisations :
WBPDC, SIKKIM, and AEL .

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

DELIBERATION IN THE ERPC MEETING

(Agenda Item No.5, 6 & 7 taken up together for discussion)

Member Secretary,ERPC made a presentation with respect to provision of eligibility conditions for membership in the notification, provision regarding making of rules for conduct of its business, the mechanism in vogue for payment to Central Government etc. It also brought out that a few of the members are unwilling to contribute to ERPC Establishment Fund. Even the renewable energy sources are also eligible to become member of ERPC. There is a need to consider whether to restrict number of members of ERPC etc.

CMD, WBSSEDCL & WBSETCL suggested that all this require uniformity with the other RPCs. Members unanimously agreed that Member Secretary,ERPC shall take a lead in this regard and host a meeting of all RPCs at Kolkata, to have a common approach and bring out a paper on these issues.

CMD,WBSSEDCL & WBSETCL reiterated and recalled its stand in the 1st ERPC meeting that this Committee should have power to select personnel from CEA. Member Secretary concurred with him as far as ERPC members' competence is concerned in handling such matters and drive ERPC to meet its objectives, but suggested that there are certain constraints, all RPCs should have a common approach. These can be discussed in the next meeting along with other related aspects. It was agreed to defer this aspect to next meeting.

It is endorsed that members' contribution is being collected in one lumpsum instalment and retained by ERPC Secretariat as a trustee, and disburse / use it as and when needed.

Member Secretary is also authorised to draw funds from 'ERPC Establishment Fund' and use it for the purpose drawn, until allocation is received from Central Government and adjusted.

Similarly, Member Secretary is also authorised to draw funds from 'ERPC Fund' and use it for the purpose drawn.

ITEM NO.8 STAFFING ERPC SECRETARIAT IN VIEW OF PRESENT STRENGTH & ENSUING RETIREMENT OF PERSONNEL

Eastern Regional Power Committee was formed vide Government of India Resolutions dated 25.05.2005 and amendment resolutions dated 29.11.2005 and 09.05.2008. ERPC Secretariat has been discharging a number of functions, like regional level operational analysis, facilitation of inter-state/inter-regional transfer of power, planning of inter-state/intra-state transmission system, planning of outage of transmission system, operational planning studies including protection studies, bringing out weekly UI, weekly VARH account, monthly REA, holdings of OCC, Commercial Committee, Protection Committee, TCC and ERPC meetings, etc.

ERPC has a sanctioned strength of 46 (20 officers and 26 others). Out of which 17 (37%) posts are lying vacant comprising of 7 officers and 10 others. Further, with the retirement of 3 persons within this financial year the vacancies will rise to 20 (43%).

Therefore, the existing officers and staff of ERPC Secretariat will have to share extra burden of responsibility while ensuring timely completion of works.

ERPC Secretariat is already pursuing with CEA for filling up of these posts. However, the CEA itself is facing the manpower shortage and has been pursuing with Ministry of Power to take different measures to overcome their problem. Thus, there is little hope of respite that ERPC may obtain from CEA.

It is proposed that ERPC may authorise Member Secretary to utilize the services of some recently retired officers and staff for getting the work done on contract basis, from time to time. This will be only a stop gap arrangement till the regular posts are filled up by CEA, New Delhi.

Members may please approve.

DELIBERATION IN THE ERPC MEETING

Member Secretary, ERPC apprised the members about shortage in manpower in ERPC Secretariat as brought out in the agenda. He informed

that CEA is also in similar situation. Therefore, ERPC Secretariat is to look for alternatives within itself.

CMD, WBSSEDCL & WBSETCL opined that in case CEA is not in position to provide the requisite manpower, the RPCs should be given autonomy to select and appoint its personnel.

After brief deliberation all the members agreed with the proposal.

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

ITEM NO. 9 STUDY VISIT TO NORWAY BY ERPC DELEGATES

PTC vide letter dated 11th November, 2009 have proposed study tour of ERPC delegates to Norway, in line with the study tour arranged by them for NERPC delegates. The salient features of their proposal are as under :

Objective of the study tour : To get acquaintance to power market, system operation and regulation with special focus to following :

- a) Overview of power sector and system operation.
- b) Techniques in handling activities/transactions related to open access in the integrated grid operation of Scandinavian countries.
- c) Load despatching operations and necessary acquaintance which concerns upgrading the skills of the participating load despatch/grid operation engineers.
- d) State of art facilities in power sector.
- e) Overview of all aspects with respect to operation of Power Exchange and Power Market.
- f) Co-ordination between system operator, power exchange and market participants, market monitoring and regulatory provisions.

Group Size : One/two groups comprising of top/middle management personnel. Each group will comprise of 16 delegates including one official of PTC for necessary co-ordination work.

Duration : About nine days including journey time.

Cost : All expenses will be borne by ERPC and shall include the expenses of one executive of PTC who will accompany with each group of delegates. PTC will not charge any fees for arranging and co-ordinating the study tour.

PTC may give a presentation.

Members may please discuss and decide on this proposal.

DELIBERATION IN THE ERPC MEETING

Executive Vice President, PTC briefed the members about their earlier proposal on study visit to Norway for NERPC delegates. It comprised of two groups, one of the level of NERPC members and the other comprising

of middle level personnel. The approximate expenditure per delegate was Rs.4 lakh.

Members agreed in principle to the proposal of PTC and authorised Member Secretary to firm up a similar proposal for ERPC.

ITEM NO.11 FINALISATION OF VENUE AND TENTATIVE DATE OF THE NEXT COMMITTEE MEETING

The roster approved in the first ERPC meeting held in Kolkata on 25.05.2006 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

In the last ERPC meeting held on 29.08.2009 hosted by WBSSEDCL, it was decided that next ERPC meeting would be hosted by NHPC, to be followed by DVC.

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

DELIBERATION IN THE ERPC MEETING

DVC agreed to host the next meeting. It was decided that next meeting would be held in March / April'10. The date and venue would be decided in consultation with DVC.

Chairperson, ERPC concluded the meeting by summarising the decisions taken the meeting.

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

EASTERN REGIONAL POWER COMMITTEE

MINUTES OF THE 11TH TCC MEETING

Date: 03.12.2009

Venue : Mayfair Hotel, Gangtok

Chairperson : Sh. P.B. Subba, Chief Engineer, Energy & Power Deptt., Govt. of Sikkim.
The list of participants is given at Annexure-B.

Shri M.S. Babu, Executive Director (Commercial), NHPC, on behalf of NHPC welcomed all participants and wished their pleasant and comfortable stay at Gangtok. He specially welcomed Shri A.K. Rampal, Member Secretary who has recently taken over the charge of ERPC. In his address he stated the following :

- TCC and ERPC provide a platform to the stakeholders to come together and share their views and resolve various issues.
- Over the years the grid performance has improved with the introduction of ABT and IEGC. Still there is scope for further improvement.
- The installed capacity of NHPC is 5175 MW comprising of 11 power stations of NHPC and 2 power stations in joint venture. It has planned capacity addition of about 3000 MW during XI plan, out of which 1030 MW has already been commissioned.

Shri A.K. Rampal, Member Secretary, ERPC welcomed the TCC members, Shri Bharat Tamang, Managing Director, Bhutan Power Corporation and his companion from Bhutan, other esteemed participants and his colleagues from the Secretariat. He thanked Shri M.S. Babu, Executive Director, NHPC and his team for providing excellent infrastructure for hosting the meeting. He said that he had taken charge as Member Secretary, ERPC in September, 2009 and was looking forward to meaningful discussion during the meeting. In his opening remarks he stated the following :

- During the last three months the grid performance was quite satisfactory with frequency remaining within the IEGC band for more than 85% of time.
- During this period of acute coal shortage, hydel power stations of Bhutan and Teesta-V of NHPC came as a big help to the ER constituents.
- NTPC stations in ER were able to operate at about 55% PLF due to coal shortage. So is the status of few other power stations in the region.
- All over country coal is supplied from the collieries located in Eastern Region, unfortunately the power stations located within the region are suffering from acute coal shortage, compelling NTPC and others to import coal.
- There is a fit case for seeking exemption on import duty on coal since only under compelling situations coal is being imported.
- In the event of coal shortage, the feasibility of firing heavy fuel oil (HFO) may be explored to increase generation. Use of HFO may be given deemed export status since it would substitute import of coal.
- Coal India Ltd. will give a presentation on supply of coal to power stations.
- Introduced Shri Bharat Tamang, Managing Director, Bhutan Power Corporation and acknowledged his role as an expert in finalization of tariff of Tala HEP.

Shri Bharat Tamang, Managing Director, Bhutan Power Corporation, thanked ERPC for inviting power officials from Bhutan. He also thanked NHPC for being excellent host. He informed that Director General, DoE, Govt. of Bhutan could not attend the meeting due to prior engagement elsewhere. In his speech he stated the following :

- Bhutan Power Corporation (BPC) is in charge of transmission and distribution system in Bhutan. All generating stations in Bhutan are under Druk Green Power Corporation (DGPC). Bhutan Electricity Authority (BEA) is a body like CERC in India. Above all, there is Dept. of Energy as apex body.
- Attending TCC & ERPC meetings is a learning experience for power officials of Bhutan. This gives them an opportunity for absorbing the knowledge, expertise and best practices of Indian power sector.
- The total installed capacity in Bhutan is 1488 MW and most of the power is exported to India through long term arrangement. At present the demand of Bhutan is 211 MW compared to 194 MW last year.
- During 2011-12 there is likely to be shortage of power in Bhutan. The feasibility of energy banking i.e. importing power from India during off-peak hours and returning the same during the peak hours may have to be explored. This would be win-win situation for both the countries.
- Acknowledged the co-operation received from India in general and in particular from NHPC, Power Grid and WBSEDCL on various matters.

Shri K. Mukhopadhyay, Sales Manager, Coal India Ltd., informed the house that Coal India Ltd. have been selected for award as one of the five major energy companies in the world and the only company to be selected from Asia. The award would be presented in New York. In his opening remarks he stated the following :

- At present there is adequate coal stock but due to some logistic problem some of the power stations are starving of coal, while coal stock is piling at pit heads.
- Suggested that Railways should also be invited to this kind of meeting to address the transportation logistics.
- The short term and long term coal supply issues would be discussed during the course of the TCC meeting.

Shri M. Majumder, Managing Director, Durgapur Projects Ltd., thanked NHPC for excellent arrangement for the meeting and stated the following :

- Acknowledged the support received from the hydel stations in Bhutan, particularly from Tala during monsoon when the thermal power stations in ER were having problems of wet and sticky coal, apart from shortage in supply.
- Power utilities are facing various problems in the form of land acquisition, pollution, rehabilitation etc. and the issues are getting complicated day by day. The capacity addition of 70000 MW during the 11th Plan seem to be a very difficult task.
- Complemented NHPC for harnessing the hydro potential in the country.

- ERPC is a very good platform for discussing and resolving various issues and acknowledged the good work of ERPC during the last several years.

Shri P. B. Subba, Chairman-TCC & Chief Engineer, Energy & Power Department, Govt. of Sikkim, welcomed TCC members, delegates from Bhutan and other participants. In his address he highlighted the following :

- TCC is a very important forum where many outstanding issues are discussed, resolved or referred to ERPC for final decision.
- Problems in coal supply is continuing for a very long period. The coal shortage problems are likely to increase with more thermal units being commissioned.
- Hoped that representative of CIL would enlighten the members about the present status and their plan for mitigating the coal shortage.
- Agreed to the suggestion of CIL that Railways should also be invited whenever coal supply issues are discussed.

ITEM NO.1 CONFIRMATION OF THE MINUTES OF 10th TCC MEETING OF ERPC HELD ON 28.08.2009 AT RAICHAK

The minutes of 10th TCC meeting of ERPC were circulated vide letter no. ERPC/Committee/2009/5164 dated 23.09.2009. General manager(OS), ER-II HQ, NTPC vide fax message no.ER-IIHQ/OS/ERPC/TCC/01 dated 27.10.2009 has sought amendment in minutes of the meeting on item no.5 titled “Review of Coal Stock Position in various Thermal Power Stations in Eastern Region”.

The deliberation in the TCC meeting as recorded is as under :
(page-9, paragraph-2)

“Talcher STPP has annual coal requirement of 17.3 MMT and they have tied coal supply with CIL”.

Amendment requested by NTPC :

“Talcher STPP has Fuel Supply Agreement (FSA) with Coal India Limited (CIL) for 17.3 MMT against annual coal requirement of 20.3 MMT.”

NTPC is requested to add a line stating the reason for the difference in FSA and annual coal requirement.

Members may please decide and confirm the minutes of 10th TCC meeting.

DELIBERATION IN THE TCC MEETING

NTPC informed that for Talcher STPS (TSTPS) the FSA with Coal India is for 17.3 Million MT. However, annual coal requirement of TSTPS is 20.3 Million MT considering past consumption pattern and 85% availability.

In response, GRIDCO submitted that TSTPS Stage-I & Stage-II, though located in the same place, are in fact two distinct power stations so far as its tariff, allocation of power and scheduling are concerned and suggested that

coal linkage vis-à-vis maintenance of coal stock at TSTPS should be separately maintained.

Member Secretary, ERPC mentioned that the amendment sought by NTPC was only limited to the statement of fact on the annual coal requirement of TSTPS. The issues raised by GRIDCO would be discussed separately during the course of the meeting.

With above observation, the amendment sought by NTPC was agreed to and the minutes of the 10th TCC meeting were confirmed.

ITEM NO.2 HIGHLIGHTS OF GRID PERFORMANCE FOR THE PERIOD AUGUST'09 TO OCTOBER'09

2.1 FREQUENCY :

Frequency profile for the period August'09 to October'09 is shown below:

	Frequency	Frequency	frequency
	<49.2 Hz	49.2 to 50.3 Hz	> 50.3 Hz
Months		(IEGC Band)	
August'09	25.51	74.36	0.13
September'09	16.30	83.20	0.50
October'09	5.03	94.67	0.30

From the above table it may be observed that:

- Frequency profile in the IEGC band (49.2 to 50.3 Hz) recorded substantial improvement from September'09 onwards. In the month Oct'09, the percentage of time the integrated system frequency remained below IEGC band was only 5.03%.

2.2 PERFORMANCE REVIEW

Description	Average (MU)/Month			October'08	October'09	% Increase
	August,08 to October'08	August,09 to October'09	% Increase			
Net Generation (MU)/Month	7931	7985	0.7	7916	7857	-0.7
Net Central Sector Thermal Generation (MU)/Month	1778	1753	-1.4	2437	1800	-26.1
Import from CPPs in (MU)/Month	139	276	98.6	155	379	143.7
ER Consumption (MU)/Month	6833	7236	5.91	6756	7195	6.5
Net Export to Outside Region (MU)/Month including transmission loss	1236	1025	-17.1	1068	943	(-)11.8
Regional Peak Demand Met (MW)	11664	12384	6.2	11284	12108	7.3
Peak Export (MW)	3630	3586	-1.2	3630	3275	-9.8

Generation: During the period under review, the overall generation has marginally increased as compared to previous year. In spite of commissioning of a number of

new units [KhSTPS U#7 (500 MW), CTPS U# 7 (250 MW), BkTPS U#5 (210 MW), STPS #5 (250 MW) etc.) since January'09, the energy generation did not rise mainly because of shortage of coal supply as well as inadequate rainfall/delayed monsoon.

The central sector thermal generation in particular has declined considerably. However, the generation from CPPs has shown considerable improvement with the addition of new units in Orissa (e.g. Jindal, NBFA etc.).

Demand: During the period under review, the regional peak demand met was 12384 MW (on 03.09.2009), an increase of 6.2% compared to corresponding period of last year. The monthly average regional energy consumption was 7236 MU, showing an increasing trend around 6% (approx) over the same period of the last year.

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 October'09	Cumulative (August,09 to October'09)	During October' 08	Cumulative (August,08 to October'08)	During October '09	Cumulative (August,09 to October'09)
NR	1614.53	5092.62	1136.84	3203.35	42.0	59.0
WR	0	0	80.35	399.6	-	-
SR	0	0	235.92	589.54	-	-
NER	0	0	0	0	-	-
TOTAL	1614.53	5092.62	1453.11	4192.49	11.1	21.5

B) IMPORT

Region From	Import in MU		Import in MU		% Growth *	
	During October'09	Cumulative (August,09 to October'09)	During October'08	Cumulative (August,08 to October'08)	During October'09	Cumulative (August,09 to October'09)
NR	0	0	0	0	NA	NA
WR	356.91	862.2	0	0	NA	NA
SR	223.04	1116.20	0	0	NA	NA
NER	46.41	208.88	137.95	596.33	-66.4	-65.0
TOTAL	626.36	2187.28	137.95	596.33	354.0	266.8
Net Export from ER	988.17	2905.34	1315.16	3596.16	-24.9	-19.2

* 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
August'09	-1378.16	-1814.28	-40.92	211.38	418.16	404.4	53.66	123.47
September'09	-1375.36	-1663.81	-9.79	293.91	531.26	488.76	18.61	39.00
October'09	-1392.99	-1614.53	91.00	356.91	343.54	223.04	1.37	46.41
Total	-4146.51	-5092.62	40.29	862.2	1292.96	1116.2	73.64	208.88

(-) = Export from ER

(+) = Import to ER

During the period under review i.e. August'09 to October'09, the net export outside Eastern Region was 2905.34 MU compared to 3596.24 MU during August'08 to October'08, showing a decline of 19.2%. During the period August'09 to October'09, NR drew 5093 MU against its schedule of 4147 MU, an overdrawal of 23%. Whereas, WR injected 863 MU to ER against its drawal schedule of 40 MU.

DELIBERATION IN THE TCC MEETING

Members noted the above.

ITEM NO.3 IMPORTANT GRID EVENTS

- 400 kV PPSP-Bidhannagar line was taken into service for the first time on 12/09/09 after upgradation of Bidhannagar S/s to 400 kV.
- 400 kV Purnea-Muzzaffarpur-I & II were test loaded upto a maximum of 1800MW each on 22/09/09.
- Unit#3 of Budge-Budge TPS (250 MW) commissioned on 29.09.09
- LILO of 400 kV KhSTPP-Patna-I at Barh was charged for the first time at 18:52 Hrs of 14/10/09.
- As per decision of 42nd OCC meeting, ICT-I at 400 kV Meramundali was shifted from bus-II to bus-I on 25.10.09 and this would increase operational flexibility at Meramundali S/s.
- CTPS Unit#7(250MW) was synchronised for the first time on 26/10/09 with upto 100MW generation.
- 63MVAR Line Reactor at Binaguri end of 400 kV Binaguri-Bongaigaon-II at Binaguri end was isolated on 31/10/09 and another 63MVAR line reactor connected to the line at Bongaigaon end. Thus presently both lines of 400 kV Binaguri-Bongaigaon are in possession of 1x63MVAR Line reactor at Bongaigaon end. The isolated 63MVAR line reactor would be connected to one of the lines in Tala-Binaguri section as per discussions in 2nd TCC meeting.

Members may please note.

DELIBERATION IN THE TCC MEETING

Members noted the above.

ITEM NO.4: REVIEW OF COAL STOCK IN VARIOUS THERMAL POWER STATIONS IN EASTERN REGION

As per information posted in CEA website, status as on 19.11.2009 :

- 8 stations were “Super-critical” (less than 4 days coal stock)
- 13 stations were “Critical” (less than 7 days coal stock)
- Coal stock position of 23 TPSs of ER is as below:

COAL STOCK OF ER TPS AS ON 19.11.09

Sl No.	Power Station	Capacity MW	Mode of transport	Linked Mines	Daily Coal Required '000 MT	Coal Stock in Days		Loss of generation in mu in Oct'09
						Normative	Actual	
<u>NTPC</u>								
1	Farakka STPS @	1600	Pithead	ECL, BCCL, CCL, MCL and NEC	32.64	15	0	570
2	Kahalgaon STPS@	2340	Pithead		37.536	15	0	682
3	Talcher STPS @	3000	Pithead		61.2	15	1	173
<u>DVC</u>								
4	BTPS-B	630	Rail	ECL, BCCL, CCL and MCL	10.5	20	35	
5	Chandrapura	750	Rail		6.5	20	87	
6	Durgapur	350	Rail		5.46	20	30	
7	Mejia @	1340	Rail		22.5	20	0	
<u>BSEB</u>								
8	Barauni	320	Rail	ECL, BCCL	1	20	35	
9	Muzzafarpur	220	Rail		1	20	14	
<u>JSEB</u>								
10	Patratu @	840	Rail	CCL	4	20	3	
11	Tenughat @	420	Road	CCL	6.6	20	3	
<u>Orissa</u>								
12	IB TPS	420	Pithead	MCL	8	15	15	20
13	Talcher Old	470	Pithead	MCL	8.3	15	11	
<u>WBPDCCL</u>								
14	Kolaghat TPS @	1260	Rail	ECL, BCCL and MCL	17.85	25	3	
15	Bakreswar TPS #	840	Rail		10.8	25	5	
16	Santalidih TPS	730	Rail		6.235	20	8	
17	Bandel TPS #	450	Rail		4.97	20	4	
18	Sagardighi @	600	Rail		7.2	20	1	
<u>DPL</u>								
19	DPL TPS #	690	Rail	BCCL, ECL, MCL	9.6	20	4	
<u>CESC</u>								
20	Budge-Budge	500	Rail	ECL,	7.2	20	11	

21	Titagarh #	240	Rail	BCCL and MCL	3.4	20	5	
22	Southern REPL #	135	Rail		2.4	25	4	
23	New Cossipore	130	Rail		1.1	20	20	

“#” stands for station with less than 7 days coal stock and more than 3 days coal stock

“@” stands for Super-critical station with less than 4 days coal stock

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 statement depicting typical values of DC furnished by vis-à-vis full DC is given below:

Name of the Thermal ISGS	DC (MW)/ Normative Ex-bus Capacity (MW)			
	July-09	Aug-09	Sep-09	Oct-09
FSTPP	921/1489	783 /1489	756/1489	732/1489
KhSTPP-I	564/764	510/764	410/764	469/764
KhSTPP-II	488/935	366/935	345/935	360/935
TSTPP-I	395/935	721/935	809/935	843/935

Coal stock positions of Eastern Regional Thermal Power Stations are regularly monitored in the OCC meetings of ERPC and representative of CIL was specially invited in the OCC meetings to address the coal shortage issues faced by power sector with Coal companies.

In the 44th OCC meeting held on 20.11.09, Member Secretary, ERPC proposed perusal of the following aspects which are pertinent to coal shortage problems discussed at various forums of ERPC.

- a. Seeking import duty exemption on imported coal, because import of coal is getting thrust upon Eastern Region TPSs.
- b. Exploring the use of heavy fuel oil in the coal shortage scenario and deemed export benefit for Heavy Fuel Oil supplied to Eastern Regional Thermal Station. This will improve average PLF and peak/off-peak ratio.
- c. Defining “Coal Shortage Condition” scenario in terms of normative coal consumption/day, coal stock at TPS and rate of coal dispatch from mine, which is yet to be defined.
- d. Whether Kahalgaon U#7 (500 MW) is fit for declaring COD under coal shortage scenario, when linked coal mine is yet to be developed.

Further during deliberation, followings were noted

- Coal Supply to Farakka and Kahalgaon STPP during the month of October’09 was 103.3% of contracted quantity. (CIL)
- Coal requirement for Kahalgaon U#7 is not included in 15 MMT coal allocated to Farakka and Kahalgaon STPP from CIL during the year 2009-10. (CIL)

- Import of coal would start by December'09. Order for Imported coal is for 4 MMT which is equivalent to 6 MMT of Indian coal. (NTPC)
- 2 MMT of Ranigang A/B grade coal equivalent to 3 MMT of normal grade coal has been arranged. (NTPC)
- Tied up with NCL for 30 days for 0.3 MMT of coal and also tied up with Singreni coal mines for 1 MMT coal. (NTPC)
- Rest 2 MMT requirement of coal is to be arranged through e-auction or forward auction. (NTPC)
- With this, generation from Farakka and Kahalgaon would start improving by December'09. (NTPC)
- Coal supply to Talcher STPP during the month of October'09 was 116.8% of contracted quantity. (CIL)
- Talcher STPP complained of receipt of poor quality coal (specific coal consumption higher than 0.9). (NTPC)
- There is no provision for separately earmarking coal for Talcher Stage-I and Stage-II as coal is allocated for total Talcher STPP. (NTPC)
- Declared capacity for Talcher Stage-I STPP during the month of October'09 was more than 100% and higher than DC of Talcher Stage-II STPP. (NTPC)
- However, efforts are there to maximise generation from the running unit of Talcher Stage-I STPP. (NTPC)
- Coal supply to Mejia TPS during the month of October 09 was 78.4% of contracted quantity. (CIL)
- Unloading constraints at Mejia TPS were already resolved and the current low coal stock position happened due to some problems in railway rake movement. (DVC)
- Coal supply to Sagardighi TPS during the month of October'09 was 46.9%. Current low coal stock position at Sagardighi TPS might have happened due to some problems in railway rake movement. (CIL)
- Unloading problem at Sagardighi TPS is resolved. Presently, entire supply of 2 BOBR rakes per day is consumed by Sagardighi TPS. (WBDCL)
- WBDCL has signed FSA with CIL. (WBDCL)
- IB TPS has contracted for Grade "F" coal and coal supplied to IB TPS has ash content of 38% and other grade "F" coal features. (CIL)
- Poor coal reported by NTPC, WBDCL and others needs further investigation. If specific poor coal quality problem is reported, CIL would look into it. (CIL)
- Coal stock position of Titagarh TPS has improved. As on 19.11.09, Titagarh TPS has 5 days coal. (CESC)
- DPL informed that they are facing some coal unloading problems due to supply of coal by suppliers mainly in non-BOBR rakes. They were requested to pursue the case with Railways.

CIL proposed to give a presentation in the next OCC meeting on how the coal is allocated, the follow-up supplies and their role in shortage scenario. Then, members proposed that CIL may give such a proposal before ensuing TCC/ERPC meeting. This was accepted by CIL.

After detailed discussion, OCC members decided that abysmal coal stock in various thermal stations in ER, declaration of COD of Kahalgaon U#7 when linked coal mine is not developed and definition of coal shortage condition needed further deliberation and referred the matter to TCC for further deliberation.

In light of the above fact,

- **CIL has been invited to give their presentation on coal allocation/shortage issues.**
- **Concerned Members may furnish coal stock status and related issues of their respective generating stations, which will be discussed one by one.**
- **NTPC may propose the definition of coal shortage condition correlating normative daily coal consumption, coal stock and the rate of dispatch from the sources of coal. Other members including CIL may discuss for adoption.**
- **NTPC may share its views on Kahalgaon U#7 should be declared COD when linked coal mine is yet to be developed.**
- **NTPC may share the steps taken by them to mitigate coal shortage problem.**
- **NTPC may give a presentation on the payment due to them under different loading patterns/orders given by ERLDC under coal shortage scenario.**

DELIBERATION IN THE TCC MEETING

Member Secretary requested NTPC, State Generating Utilities to offer their views on coal stock position and related issues and CIL to state the status of coal supply and respond to the issues raised :

NTPC

Regional Executive Director(ER-I),NTPC gave a presentation highlighting the present coal stock position at their plants and their plan for augmentation of coal supply to achieve around 85% availability. The salient features were :

- NTPC is making all out efforts to augment coal supply to power stations in ER.
- The thermal stations of Eastern Region have no coal stock at present. To augment coal supply, NTPC have arranged to divert 2.75 rakes from NCL mines which are meant for Singrauli & Rihand to Farakka & Kahalgaon on daily basis (Total 84 rakes) to increase the generation level of FSTPS & KhSTPS.
- NTPC have arranged 2 MMT coal from Raniganj.
- Fuel supply agreement has been signed on 22.11.2009 with Singrani Coal mines for supply of 1 MMT.
- The first shipment of imported coal has already arrived at Kakinada and the second shipment is expected shortly at Haldia.
- Due to critical coal stock position, the COD of KhSTPP U # 7 (500 MW) has now been planned in January 2010.
- Coal supply position is expected to improve by middle of December 09.
- For sustained & increased generation level of NTPC ER stations, Railway is to provide all the infrastructural support for transportation of coal.

DPL

Managing Director, DPL opined that coal requirement vis-à-vis shortage problem should be addressed in light of following :

- Higher consumption of coal is due to difference between UHV of loading point and UHV as fired at power station.
- The existing FSA is based on average of last three years' coal consumption when the PLF was low and the coal supplied was of higher grade.
- Coal is received mostly through Box-N type rakes which takes time for unloading. BOBR rakes are preferred instead of Box-N type.
- For transportation of coal from MCL collieries through BOBR rakes, one tunnel on the railway route is the major bottleneck in movement of BOBR rakes. Unloading facilities at power station also needs improvement.

GRIDCO

Director (Commercial), GRIDCO stressed the need for improvement in quality of coal supplied to Ib TPS for higher generation. In respect of Talcher STPS, he stated that interest of ER constituents should be given due consideration while apportioning coal supply between Stage-I & II for generation.

DVC

Chief Engineer(CLD),DVC stated there is no coal shortage at Bokaro TPS, Chandrapura TPS and Durgapur TPS at present. Mejia TPS had performed very well last year but this year the power station has experienced coal shortage for which all the six units are unable to generate simultaneously. The situation has now been improving with the availability of 3-4 rakes per day. As suggested during the meeting, DVC agreed to explore the possibility of diversion of coal from DTPS to MTPS.

BSEB

BSEB representative stated the following :

- a) NTPC should furnish the requirement of coal for Kahalgaon Stage-I & II separately.
- b) In the present scenario when the import of coal has become a regular phenomena, it is proposed that Member Secretary, ERPC should seek clarification of the Hon'ble CERC on the following :

- i) Whether NTPC can raise enhanced FPA on account of imported coal during the period December 2008 to March 2009 and April, 2009 onward as per CERC Regulations, 2009 from the beneficiaries without concurrence of CERC.
- ii) For determination of norms for blending of imported of coal with higher calorific value with the indigenous coal and regulations thereof.
- iii) Review of the existing norms for maintaining coal stock as per CERC regulation in case NTPC is not able to maintain coal stock at their power stations.

However, in reply to BSEB's view, Member Secretary,ERPC suggested that constituents may take up individually with CERC, if they so desire.

CIL

On the request of Member Secretary,ERPC Shri K. Mukhopadhyay, Sales Manager, CIL gave a detailed presentation on supply of coal to Eastern Region power stations. The presentation is given at Annexure- . The salient features of the presentation are :

- In the current fiscal CIL to supply 313 Million MT coal to Power Utilities; 306 Million MT for existing TPSs drawing coal as on 31.3.2009 and remaining 7 Million MT for the Units coming up during the year.
- CEA allocated 306 Million MT coal from CIL sources amongst existing Power Stations.

- In Eastern Region 44.1 Million MT coal supplied to power stations against commitment of 45.6 Million MT till November'09, i.e. materialization of 96%.
- In Eastern Region 8 TPSs carrying super critical coal stock i.e. less than 3 days coal stock.
- In the super critical category Farakka, Kahalgaon, Talcher, Kolaghat and Patratu received more than 100% of committed quantity. Mejia received more than 95% of committed quantity.
- Bakreswar, Bandel, DPL and Tenughat received less than 90% of committed quantity – commercial arrangements with Railways (Bakreswar), unloading constraints (Bandel), less programme submission (DPL) and not arranging road transport (Tenughat) affected despatch to these power stations.
- CIL is in a position to supply coal to all power stations as per commitment so far as FSA and ACQ are concerned.
- No dearth of coal – pithead stock increasing.
- Wagon availability needs improvement.
- Power Stations to make commercial arrangement with Railways.

In response, NTPC mentioned that FSA/ACQ serve only about 50% of their annual requirement of coal at Farakka and Kahalgaon.

Member Secretary, ERPC stated that the exemption of import duty on coal would be sought because high cost of imported coal is thrust upon ER ISGS stations inter alia distribution licensees. During coal shortage condition the use of HFO would be explored to improve PLF and peak/off-peak ratio.

The “Definition of Coal Shortage” Scenario was discussed and it was consensus to relate it with the coal stock of thermal power station and the dispatch rate from the mine. After lot of deliberations, it was agreed to consider that coal shortage scenario will be said to exist in case coal stock is less than 5 days’ consumption (normative) and average dispatch for the last seven days is less than 90% of daily consumption. But, ERLDC suggested that CERC nod should be obtained before adopting any definition.

It was decided to pose the definition before ERPC and seek its view as to whether CERC should be approached or not in the event of consensus among all ERPC members.

The issue is referred to ERPC for further deliberation.

ITEM NO.5: STRENGTHENING OF EVACUATION SYSTEM FROM SOUTH BENGAL TOWARDS NORTHERN PART OF ER GRID

The issue was put up for discussion in the 44th OCC meeting held on 20.11.09 by ERLDC. ERLDC submitted that in the past, Total Transfer Capability/Available Transfer Capability declarations have been affected due to constraints in evacuation of surplus power from South Bengal to Northern part of ER grid and further onwards to NR/NER, during winter season due to high loading of 400 kV FSTPP-Malda-Purnea D/C sections. During winter season (December to February), low hydro availability of Teesta/Tala/CHPC/NER hydro stations coupled with high drawal by NR/NER results in heavy power flows through 400 kV Farakka-Malda-Purnea D/C line. These lines being of twin moose configuration have inherently lower power carrying capacity than that of Tala transmission system and thus affect TTC / ATC for export of power to NR and NER during winter.

Several schemes like 400kV D/C from Gokarno to Purnea / Binaguri; Gokarno-Malda and Malda – Purnea D/C had been proposed by WBSETCL in the past to help ease out the above constraint. 2nd 400KV FSTPP-KhSTPP D/C line associated with Farakka-III (500MW) was discussed in the 6th TCC meeting and concurred in 7th ERPC meeting. As per information available from CEA, the target date for completing this line is June 2011.

Therefore, upgrading of 400kV Farakka – Malda D/C by using high temperature INVAR conductor is urgently required to overcome the present constraints.

In the meeting, following deliberation took place.

- Upgradation of Farakka-Malda-Purnea section was necessary to remove bottleneck in transfer of power from ER to NR during the winter months and the matter may be referred to TCC for further advice. (ERLDC)
- Any ER system up-gradation scheme is first vetted by Standing Committee on Power System Planning for Eastern Region and then put-up to TCC and ERPC for subsequent approval. (ERPC)
- Present strengthening scheme proposed by ERLDC might be referred to Standing Committee. (ERPC)

OCC members agreed that the matter should be placed before TCC members for further advice.

Members may kindly discuss.

DELIBERATION IN THE TCC MEETING

ERLDC presented the constraints in power flow through 400 kV Farakka-Malda-Purnea D/C line and Farakka-Kahalgaon D/C line, particularly, during winter season when there is low hydro availability from Tala, Chukha, Teesta and NER coupled with high drawal by NR & NER. Further, on 28.11.2009 due to tripping of 400 KV Bina-Gwalior line, the power flow through 400 KV Farakka-Malda D/C line increased substantially. At that time fortunately the generation at Farakka and Kahalgaon were at low level and worst situation was averted.

ERLDC proposed that in view of above 400 KV D/C from Gokarna to Binaguri or Gokarna-Malda-Purnea is required to be constructed for strengthening of ER transmission network.

The TCC members opined that the power flow constraint scenario and proposal of ERLDC should be studied by Power Grid. Based on the study, the proposal is required to be put up to ERPC and Standing Committee for their approval.

Power Grid agreed to carry out the study and give their opinion.

COMMERCIAL MATTERS

ITEM NO. 6 A) PAYMENT OF UI -- PRESENT STATUS

The status of UI payment as on 20.11.2009 is enclosed at **Annexure-I**.

Members may please note.

Obeying Hon'ble CERC orders dated 4th June 2008 and 15th March 2009, BSEB has since cleared principal outstanding dues for the year 2008-09. BSEB has also paid an amount of Rs.500 lakhs on 17.11.2009. Out of which, an amount of Rs.105.95727 lakhs has been adjusted against the balance interest towards the delayed payment of UI charges, receivable from BSEB for the year 2008-09. Thus, the total payable amount by BSEB is Rs.5136.94169 lakhs, the details of which are given below :

Rs. in Lakhs			
Block Year	Outstanding Principal	Outstanding interest for delayed payment of UI charges	Total
2008-09	NIL	105.95727	105.95727
2009-10 (Upto 16.11.09)	5399.33186	131.65256	5530.98442
Amount paid on 17.11.2009	394.04273	105.95727	500.00000
Amount outstanding as on 20.11.2009	5005.28913	131.65256	5136.94169

With this payment Rs.500 lakhs UI account in respect of BSEB for the year 2008-09 stands completed.

In the last Commercial Committee meeting held on 16.11.2009, BSEB was requested to accord top priority for payment of outstanding dues. In the meeting ERLDC reminded that CERC can suo-motto issue notice to BSEB and impose penalty for continuance of default.

BSEB may please confirm their payment plan.

DELIBERATION IN TCC MEETING

Members noted the present status of UI payment as on 20.11.2009.

BSEB informed that they had already paid total Rs.9 crore in the month of November'09 and would also pay Rs.10 to 20 crore in December'09. The balance outstanding amount would be cleared by them in January'10.

This is for the information of ERPC members.

B) REACTIVE ENERGY POOL ACCOUNT -- AS ON 20.11.2009

The position of Receipt/Payment for bills upto 20.11.2009 as received from ERLDC is indicated at **Annexure -II**.

All the bills have been paid-up. The balance in the pool is Rs.1,39,71,199.

In the 8th TCC and 8th ERPC meetings, ERPC had authorized Member Secretary to get held the Seminar/Workshop(s) on emerging issues for the benefit of the constituent members by utilizing the fund available in the ER Reactive Pool account.

As a part of Disaster Management, a Workshop was conducted jointly by ERPC and ERLDC on 19.11.2009 at ERPC, Kolkata on “Black Start Procedure and Restoration”. All the constituents including SLDCs sent their participants.

An amount of Rs.1,23,028/- has been incurred for which TCC may give post facto approval.

The Commercial Sub-Committee in its 11th meeting held on 16.11.2009 recommended to TCC and ERPC for approval of the expenditure.

TCC may accord approval.

DELIBERATION IN TCC MEETING

Members noted the position of Receipt/Payment for bills upto 20.11.2009 as received from ERLDC.

TCC recommended to ERPC for post facto approval of expenditure of Rs.1,23,028 incurred in connection with the Workshop jointly organised by ERPC and ERLDC on Black Start Procedure and Restoration as a part of Disaster Management.

ERPC may please approve.

C) ‘IRE POOL’ ACCOUNT (ER & SR) – AS ON 20.11.2009

As informed by ERLDC, the statement of IRE between ER and SR has been sent for reconciliation upto 20.11.2009 and the net amount receivable from SR is **Rs.1158.93308 Lakhs**. SR has already confirmed the amount.

Members may please note that this amount is yet to be received.

DELIBERATION IN TCC MEETING

Members noted

D) POOL BALANCE DUE TO CAPPING OF NTPC STATIONS IN ER / ADDITIONAL UI CHARGE

As received from ERLDC, as on date an amount of Rs.1216.58551 lakhs and Rs.2825.03951 lakhs are available as capping amount and additional UI charge respectively for 2009-10.

This is for information of the members.

DELIBERATION IN TCC MEETING

Members noted.

This is for the information of ERPC members.

ITEM NO. 7 ADDITIONAL UI CHARGES ON INTER-REGIONAL POWER TRANSACTIONS

As per Clause 7(3) of CERC Regulations 2009 on UI Charges and related matters, ERPC had been issuing the weekly UI account reflecting the additional charge at specified rate for overdrawal / under-injection of power including inter-regional transactions as and when the frequency is below 49.2 Hz.

Since other RPCs have not been applying Additional UI Charges on inter-regional transactions, the issue was referred to CERC by ERPC vide letter dated 17.06.2009. Meanwhile, CERC has issued Statement of Reasons on UI Regulations vide its order No. 1-7/1(1) 2009-CERC dated 08.06.2009 whose Clause No. 10.2 is reproduced:

Quote

As regards the concerns expressed on implication for inter-regional UI on account of introduction of volume cap on over-drawal and under-regeneration during low frequency regime, it is clarified that volume caps will have to be monitored and operationalised for each beneficiary and generating station for their deviations, on overall basis at State boundaries and not on collective regional basis. Further, the additional UI charge for under injection and over-drawal by regional entities collected within the region shall be retained in the pool account of that region and shall not be passed on to another region. Unquote

The matter was also referred to ERPC by GM, ERLDC.

Accordingly, while finalizing the UI account for the week from 10th to 25th October 2009, the same is being implemented.

Further, in the Commercial Committee meeting on 16.11.2009, ERPC Secretariat informed that it would send separate letters to all concerned that this CERC decision shall be implemented with effect from 01.04.2009.

In this connection, it is informed that CERC solicited comments and suggestions on proposed revision of UI charges and additional UI charges vide CERC Public Notice dated 07.10.2009. In response, ERPC Secretariat vide letter dated 28.10.2009 has suggested that the amount of additional charges collected from licensees (who are violating law) be paid to the UI Pool account of the region of which under-drawing licensees is a constituent for incurring expenditure on assets for the benefit of consumers who have been supplied low frequency electricity.

Members may please note and discuss.

DELIBERATION IN TCC MEETING

Members noted.

This is for the information of ERPC members.

ITEM NO.8 COMMERCIAL DECLARATION OF REGIONAL ASSETS – POWERGRID

D) LILO of 400 KV Patna-Kahalgaon Line at Barh STPP, NTPC

POWERGRID vide their letter dated 15.10.2009 intimated that LILO portion of Patna-Kahalgaon line at Barh STPP, NTPC was test charged successfully on 14th October 2009 at 18.51 hours and declared its COD with effect from 1st November 2009 as per CERC Regulations 2009.

In the Commercial Committee meeting held on 16.11.2009 POWERGRID representative furnished the following information :

- i) Approved total cost of the project is Rs.3779 crores out of which Rs.171 crores (approx.) is for LILO portion of 400 KV Patna-Kahalgaon line at Barh STPP, NTPC.
- ii) Above asset was approved in the Standing Committee meeting held on 25.08.2003 at Gangtok.
- iii) Approved in the 107th and 108th EREB meetings held respectively on 18.09.2003 and 01.01.2004.
- iv) Till the COD of the 1st unit at Barh STPS, transmission charges would be borne by NTPC, thereafter by the concerned beneficiaries as per CERC Regulation.

Members in the Commercial Sub-Committee in its 11th meeting held on 16.11.09 recommended to TCC for the approval of COD of the above elements.

DELIBERATION IN TCC MEETING

NTPC on its own had offered to bear transmission charges upto COD of the first unit of Barh STPS.

TCC recommended to ERPC for the approval of COD of the above.

ERPC may please approve.

ITEM NO.9 AUGMENTATION OF TRANSFORMATION CAPACITY OF 220/132 kV BIRPARA AND SILIGURI SUB-STATIONS OF POWERGRID

In the 10th TCC and 11th ERPC meetings held on 28.08.2009 and 29.08.2009 respectively, 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. Further, in the said meetings it was decided that 1 x 100 MVA additional transformer would be installed at Siliguri S/s of Powergrid and WBSETCL agreed to bear the entire cost for installation of one additional 100 MVA transformer.

In this connection, POWERGRID communication dated 12.11.2009 addressed to ERPC is reproduced below :

“Regarding these items, the minutes of meeting states that the entire cost would be borne by WBSETCL. Here, it is to mention that 220/132 KV Birpara & Siliguri sub-stations have been established as a part of regional project.

Therefore, 220/132 KV transformer augmentations at Birpara & Siliguri should be taken up by POWERGRID as regional strengthening schemes for which the transmission charges would be paid by WBSETCL, as per CERC norms.”

POWERGRID may please elaborate further. The concerned members may please discuss.

DELIBERATION IN TCC MEETING

WBSETCL agreed to pay to POWERGRID the transmission charges for the above elements as per CERC norms.

This is for the information of ERPC members.

ITEM NO.10 STEEP HIKE IN FUEL PRICE ADJUSTMENT (FPA) PRICE

In the 10th TCC meeting held on 28.08.2009, BSEB raised the issue of steep hike in fuel price adjustment (FPA) price was discussed in details. In the meeting, it was 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.

BSEB and NTPC may indicate whether they have mutually settled the aspect.

DELIBERATION IN TCC MEETING

It was informed by NTPC that blending percentage of imported coal for July'09 and August'09 and the cost involved therein had been made available to BSEB.

BSEB submitted that as there was wide variation of blending percentage in the above months, they required relevant data from November'08 to November'09.

NTPC agreed to furnish the same.

ITEM NO.11 AWARD OF ANNUAL MAINTENANCE CONTRACT FOR SCADA

Award of Annual Maintenance Contract for SCADA installed at various Control Centres of Eastern Region commissioned under ULDC scheme is at the final stage. The contract is expected to be awarded during the month of December 2009. The matter was duly deliberated in various for a of ERPC. In the 10th ERPC meeting held on 11.04.2009, it was agreed that MOU shall be signed by all the constituents before placement of the order. The signing of MOU with BSEB and JSEB is still awaited. Pending signing of the MOU, placement of the LOA on M/s AREVA would be difficult. Under the circumstances, BSEB and JSEB are requested to expedite the matter of signing of MOU at the earliest so that LOA may be placed on M/s AREVA for the maintenance contract of the ER-ULDC scheme without any delay.

Members may kindly deliberate.

DELIBERATION IN TCC MEETING

BSEB and JSEB agreed to sign the MOU within next ten working days.

Additional Agenda

ITEM NO.12 SETTING UP OF 400 KV LAPANGA SUB-STATION NEAR JHARSUGUDA -- Agenda Submitted by GRIDCO

GRIDCO has proposed creation of a 400 kV S/s Lapanga near Jharsuguda with LILO of the existing 400 kV Rourkela-Raipur Inter-regional D/C line, as an intra-State transmission system. The issue was referred to CEA for examination. In this regard, CEA has pointed out that long term transmission charges of 400 kV Rourkela-Raipur D/C line are pooled in WR system. Therefore by LILO of this line at Lapanga 400 kV S/s, GRIDCO would become the beneficiary of WR pool and liable to share the WR transmission charges as per CERC Tariff regulation. If GRIDCO agrees to share WR pool transmission charges, the matter would be taken up by CEA with WR for their concurrence.

DELIBERATION IN TCC MEETING

It was suggested that GRIDCO should reply the letter of CEA with a copy to ERPC Secretariat for their agreement in this regard. GRIDCO agreed to take necessary action.

This is for information to ERPC.

ITEM NO.13

COMMERCIAL AGREEMENT FOR IMPLEMENTATION OF FIBRE OPTIC NETWORK IN LIEU OF EXISTING MICROWAVE NETWORK – Agenda Submitted By POWERGRID

During the 10th ERPC meeting the establishment of Fibre Optic Network by Powergrid in lieu of the existing Microwave links was approved. Subsequently, in 11th ERPC meeting the requirement of making Fibre Optic Communication Scheme in lieu of the existing links as part of ER-ULDC Commercial agreement was discussed. As desired in the meeting a copy of the said commercial agreement was forwarded to constituents for furnishing their consent.

Powergrid have already initiated process of investment approval and procurement for the ERPC approved 2593 Km Fibre Optic communication scheme.

Constituents to agree for making the project a part of Commercial Agreement already signed by Powergrid with respective constituents for ER ULDC project and tariff shall be as determined by CERC.

Members may concur the same.

DELIBERATION IN TCC MEETING

Initiating the discussions, POWERGRID informed that as discussed during 10th TCC/11th ERPC meetings, a copy of existing Commercial Agreement of ER-ULDC project was forwarded to constituents and requested members for agreement on making the project a part of the said ER-ULDC commercial agreement.

WBSETCL while agreeing to the same wanted the details of calculation for tariff under the project. POWERGRID clarified that tariff figures provided are indicative and actual tariff shall be as per CERC notification.

After deliberations, TCC decided that tariff calculation details shall be provided by POWERGRID to members for appraising ERPC and decision by ERPC in meeting on 04.12.2009

ERPC members may please discuss.

ITEM NO.14A COMMISSIONING OF AUTO RECLOSE RELAY IN TALA FEEDERS AT TALA END – Agenda Submitted By POWERGRID

During the last TCC/ERPC meeting held on 28th & 29th August'09 at Raichak, Tala authority agreed to commission SPAR at Tala end at the earliest to improve the stability of the network. However, the same has yet to be commissioned at Tala.

Tala Authority is requested to take immediate necessary action to expedite commissioning of SPAR at Tala end. Present status of implementation of the same may please be discussed.

ITEM NO.14B IMPLEMENTATION OF REVISED SETTINGS OF OVER VOLTAGE (TIME DELAYED) PROTECTION – Agenda Submitted By POWERGRID

This issue has been discussed in the 43rd OCC meeting of ERPC wherein it was decided to implement the revised over voltage protection (Time Delayed) settings for ER. The revised setting has already been implemented at POWERGRID S/S, the same also needs to be implemented at Substations owned by other agencies. The details of revised settings to be implemented have already been forwarded to all concerned agency.

All concern Agency to take immediate necessary action to expedite implementation of revised setting of Over Voltage (Time Delayed) Protection for improvement of their system. The present status / action plan with time schedule in this regard may be submitted by all concern

ITEM NO.14C IMPLEMENTATION OF COMMITTEE REPORT CONSTITUTED TO INVESTIGATE FREQUENT TRIPPING IN SOUTH ORISSA SYSTEM – Agenda Submitted By POWERGRID

The committee consisting of members from ERPC, POWERGRID, ERLDC and OPTCL/OHPC was constituted to investigate frequent tripping in South Orissa system and report was submitted in this regard long back in order to solve the problem. The issue was also discussed in 41st OCC meeting held on 18.08.09. Most of the recommendations given by the committee are yet to be implemented. As a result the tripping are still continued Matter is serious in nature as it is not only

causing interruption of power flow but also affecting the security of the grid.

OPTCL/OHPC to take immediate necessary action to expedite implementation of recommendations for improvement of their system. The present status / action plan with time schedule in this regard may be submitted by OPTCL / OHPC for review by TCC.

DELIBERATION IN TCC MEETING (Item No. 14 A, 14 B & 14C)

After discussion TCC decided that the above issues be resolved in OCC / Protection Sub-Committee meeting within 2/3 months.

ANNEXURE – A

LIST OF PARTICIPANTS IN THE 12TH ERPC MEETING

Date: 04.12.2009

Venue : Mayfair Hotel, Gangtok

Name of the Constituent / Organisation	Sl. No.	Name	Designation
GOVT. OF SIKKIM	1.	P.WANGCHEN	Chairperson , ERPC & PCE-cum-Secretary, Energy & Power Department., Govt. of Sikkim
	2.	P.B.SUBBA	Chief Engineer, Energy & Power Department.
	3.	A.K.GIRI	Chief Engineer, Energy & Power Department.
	4.	G.TARGAIN	Chief Engineer, Energy & Power Department.
	5.	H.B.PRADHAN	Executive Engineer, Energy & Power Department.
	6.	P. LEPCHE	Asstt. Engineer, Energy & Power Department.
BIHAR BSEB	7.	S. MUKHERJEE	Chairman
	8.	R.K. SHARMA	Member (Transmission)
	9.	RAKESH	EEE (Interstate)
	10.	A.K.GANGULY	Resident Engineer
JHARKHAND JSEB	11.	G.N.S. MUNDA	Member (Technical)
	12.	P.P. PORH	Chief Engineer (C&R)
	13.	D.N. RAM	Chief Engineer (Trans., O & M)
	14.	R.M. TIWARY	Electrical Supdt. Engineer
	15.	S.C. MISHRA	Electrical Supdt. Engineer (C &R)
ORISSA A) OPTCL B) OHPC C) GRIDCO	16.	J.P. DAS	Chief General Manager (O &M)
	17.	J. PADHI	Director (Operation)
	18.	A.C. MALLICK	Director (Commercial)
WEST BENGAL A)WBSEDCL B) WBSETCL C) WBPDC D) DPL DVC NHPC	19.	S.K. MOHANTY	Manager (E)
	20.	M.K. DE	Chairman & Managing Director, WBSEDCL & WBSETCL
	21.	M.S. PAL	Addl. CE & Incharge of PTR
	22.	A. GUHA	Director (R&T)
	23.	A.C. SARKAR	Director (Transmission)
	24.	S.K. SHYAM CHOUDHURY	Chief Engineer (CP & ED)
	25.	A. KARMAKAR	Supdt. Engineer (E)
	26.	DEBASHISH SEN	Managing Director
	27.	M. MAJUMDAR	Managing Director
	28.	A. NAYAK	Chief Engineer (CLD)
POWERGRID	29.	C. KARMAKAR	Dy. Chief Engineer (Commercial)
	30.	R.S. MINA	Director (Personnel)
	31.	D. PARIJA	Executive Director
	32.	M.S.BABU	Executive Director (Commercial)
	33.	D.CHATTOPADHYAY	Chief Engineer (I/C), Teesta-V
	34.	A. KUMAR	Chief Engineer, Rangit
	35.	R.RAINA	Chief Engineer (Comml.)
	36.	R.P.SINGH	Executive Director (ER-II)
	37.	K.K. AGRAWAL	Executive Director (ER-I)
	38.	R.G.YADAV	Executive Director (OS)
	39.	A.M. PAVGI	AGM (Engg.-SEF)
	40.	P. SHARMA	AGM (Comml.)
41.	K. SARKAR	DGM	
42.	S. PRASAD	AGM (Comml.)	
43.	H.H. SARAN	AGM	
44.	S. K. PRAMANIK	DGM (O&M)	
45.	S.K. SINGH	CM (OS), ER-II	

Name of the Constituent / Organisation	Sl. No.	Name S/Shri	Designation
NTPC	46.	G.J. DESHPANDE	Regional Executive Director (ER-I)
	47.	S.N.GOEL	General Manager I/C (Commercial)
	48.	R.KUMAR	DGM (OS), ER-I
	49.	K.K. SINHA	DGM (Commercial)
PTC	50.	S. MEHRA	Executive Vice President
ERLDC	51.	L.K. KANUNGO	General Manager
	52.	P. MUKHOPADHYAY	DGM
	53.	D.DE	DGM
	54.	H.K.CHAWLA	DGM
CIL	55.	K. MUKHOPADHYAY	Sales Manager
BPC, BHUTAN	56.	B. TAMANG	Managing Director
	57.	NIMA DORJI	General Manager
ERPC	58.	A.K. RAMPAL	Member Secretary
	59.	A.K. BANDYOPADHYAY	Superintending Engineer
	60.	J. BANDYOPADHYAY	Superintending Engineer
	61.	B. SARKHEL	Superintending Engineer
	62.	S.P. DATTA	DGM(NTPC)
	63.	S.K. GHOSH	Executive Engineer
	64.	A. ROY	Executive Engineer
	65.	S.M. JHA	Executive Engineer
	66.	S. PAUL	AEE
	67.	P. SENGUPTA	PA

ANNEXURE – B

LIST OF PARTICIPANTS IN THE 11TH TCC MEETING

Date: 03.12.2009

Venue : Mayfair Hotel, Gangtok

Name of the Constituent / Organisation	Sl. No.	Name	Designation
GOVT. OF SIKKIM	1.	P.B. SUBBA	Chief Engineer, Energy & Power Department, Govt. of Sikkim
	2.	A.K.GIRI	Chief Engineer, Energy & Power Department
	3.	D.P.DEOKOTA	Addl. Chief Engineer, E & P Department
	4.	K.K.PRADHAN	Supdt. Engineer, E & P Department
	5.	H.B. PRADHAN	Executive Engineer, E & P Department`
BIHAR BSEB	6.	R.K. SHARMA	Member (Transmission)
	7.	RAKESH	EEE (Interstate)
JHARKHAND JSEB	8.	G.N.S. MUNDA	Member (Technical)
	9.	P.P. PORH	Chief Engineer (C &R)
	10.	D.N.RAM	Chief Engineer (Trans., O & M)
	11.	R.M.TIWARY	Electrical Supdt. Engineer
	12.	S.C. MISHRA	Electrical Supdt. Engineer (C &R)
ORISSA A) OPTCL B) OHPC C) GRIDCO	13.	J.P. DAS	Chief General Manager (O &M)
	14.	J. PADHI	Director (Operation)
	15.	A.C. MALLICK	Director (Commercial)
WEST BENGAL A) WBSSEDCL	16.	S.K. MOHANTY	Manager (E)
	17.	M.S. PAL	Addl. CE & Incharge of PTR
B) WBSETCL	18.	A.GUHA	Director (R&T)
	19.	A.C. SARKAR	Director (Transmission)
	20.	S.K. SHYAM CHOUDHURY	Chief Engineer (CP & ED)
	21.	A. KARMAKAR	Supdt. Engineer (E)
	22.	M.MAJUMDAR	Managing Director
C) DPL DVC	23.	A.NAYAK	CE(CLD)
	24.	C. KARMAKAR	Dy. Chief Engineer (Comml.)
NHPC	25.	M.S.BABU	Executive Director (Comml.)
	26.	D.CHATTOPADHYAY	Chief Engineer (I/C), Teesta-V
	27.	R.RAINA	Chief Engineer (Comml.)
POWERGRID	28.	R.P.SINGH	Executive Director (ER-II)
	29.	K.K. AGRAWAL	Executive Director (ER-I)
	30.	A.M.PAVGI	AGM (Engg.-SEF)
	31.	P. SHARMA	AGM (Comml.)
	32.	S. PRASAD	AGM (Comml.)
	33.	H. H.SARAN	AGM
	34.	S. K. PRAMANIK	DGM (O&M)
	35.	S.K. SINGH	CM (OS), ER-II
NTPC	36.	G.J.DESHPANDE	Regional Executive Director (ER-I)
	37.	R. KUMAR	DGM (OS), ER-I
PTC DPSC	38.	S. MEHRA	Executive Vice President
	39.	S. SIDHANTA	Sr. Addl. Chief Engineer
ERLDC	40.	L.K.KANUNGO	General Manager
	41.	P. MUKHOPADHYAY	DGM
	42.	D. DE	DGM
	43.	H.K. CHAWLA	DGM
CIL	44.	K. MUKHOPADHYAY	Sales Manager
BPC, BHUTAN	45.	B.TAMANG	Managing Director
	46.	NIMA DORJI	General Manager

Name of the Constituent / Organisation	Sl. No.	Name S/Shri	Designation
ERPC	47.	A.K. RAMPAL	Member Secretary
	48.	A.K. BANDYOPADHYAY	Superintending Engineer
	49.	J. BANDYOPADHYAY	Superintending Engineer
	50.	B. SARKHEL	Superintending Engineer
	51.	S.P. DATTA	DGM (NTPC)
	52.	S.K. GHOSH	Executive Engineer
	53.	A. ROY	Executive Engineer
	54.	S.M. JHA	Executive Engineer
	55.	G. GHOSH	Executive Engineer
	56.	S. PAUL	AEE
	57.	P. SENGUPTA	PA

Annexure- I

SUMMARY OF UI RECEIPT AND PAYMENT STATUS

**BILL UPTO 01.11.2009 (Week - 31 of 2009 - 10)
Last Payment Disbursement Date - 20.11.09**

Figures in Rs. Lakhs

CONSTITUENTS	Receivable	Received	Payable	Paid	Outstanding
WR	0.00000	0.00000	88547.34389	83780.87315	-4766.47074
SR	7904.31434	7520.60781	6116.37080	6116.37080	383.70653
NER	948.02956	392.77048	12987.06332	12356.09761	-75.70663
NR	105051.16978	96602.87616	0.00000	0.00000	8448.29362
BSEB	8398.18754	2905.45440	3293.91457	2806.47056	5005.28913
JSEB	1119.25650	990.43314	10946.91987	9949.86638	-868.23013
DVC	28481.17471	28481.14763	2002.01781	377.04133	-1624.94940
GRIDCO	16414.58199	16392.44809	5684.76115	5684.76115	22.13390
WBSETCL	2116.85167	2116.69743	21675.94258	16873.75207	-4802.03627
SIKKIM	423.48672	419.37495	3816.49045	3480.97691	-331.40177
NTPC	0.00000	0.00000	5673.14656	5185.32640	-487.82016
NHPC	0.00000	0.00000	1374.07216	1207.93762	-166.13454
Pool Balance	0.00000	0.00000	1498.65897	1216.58551	-282.07346
Additional UI charge	13101.28826	2932.83396	1106.58689	0.00000	9061.86741
Transfer to IRE	0.00000	0.00000	4984.82009	3569.34636	-1415.47373
TOTAL	170857.05281	155821.81009	169708.10911	152605.40585	

	% Realization	91.20	As on 20.11.09	
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	

Annexure - II

STATUS OF REACTIVE CHARGES

RECEIVABLE IN ER POOL AS PER PUBLISHED A/C UPTO 01.11.09 (2009-10)
AS ON 20.11.09

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 :
24.11.09

13971199