

EASTERN REGIONAL POWER COMMITTEE
14, GOLF CLUB ROAD, TOLLYGUNGE
KOLKATA-700033

**MINUTES OF THE 30th OCC MEETING HELD AT ERPC, KOLKATA
ON 11.09.2008 (THURSDAY) AT 11:00 HRS**

List of participants is enclosed at Annexure-I

Shri R.K.Grover, Member Secretary, ERPC chaired the meeting. While welcoming the delegates in the 30th OCC meeting he expressed deep concern over the severe flood situation in Bihar. He informed that many towers (approx 60 towers) of Tala transmission line (Purnea – Muzaffarpur section) are submerged 6 feet below water, endangering power evacuation from Tala HEP. He discussed the various problems associated with coal in the rainy season e.g. problem in excavation of coal, transportation of coal (because of muddy coal), along with wet coal. He reviewed the coal stock /coal shortage position of the different power stations in the Eastern Region.

Thereafter, he requested Shri S. N. Kayal, SE to take up the agenda points for discussion.

ITEM NO. 1 CONFIRMATION OF THE MINUTES OF THE 29TH OCC MEETING OF ERPC HELD AT ERPC, KOLKATA ON 19.08.2008

The minutes were circulated vide letter no. ERPC / SE (OPRN)/ OPERATION /2008/3167 - 3212 dated 08/09-09-2008.

No comment is received from any of the constituents. The minutes of the 29th OCC meeting was confirmed without any modifications.

ITEM NO. 2 REVIEW OF THE GRID PERFORMANCE DURING AUGUST, 2008

2.1 POWER SUPPLY POSITION :

The power supply position of Eastern Region for the months of August'08 & July' 08' is indicated at **Annexure-I**.

- From comparison of the generation figures of August'08 with July' 08, it is observed that the net energy generation (MU) in Eastern Region (including contribution of Bhutan) has marginally decreased on per day average basis.
- The net peak demand met has increased from 10653 MW to 11209 MW.
- The demand met during August'08 has increased by 556 MW, as compared to July' 08. The percentage of Peak shortage of ER has reduced marginally.

The above variations are considered normal.

Members noted the above.

2.2 FREQUENCY:

The frequency profile of ER for the month of August' 08 and for the months of July' 08 & August' 07 (for comparison) is tabulated below :

Month	% of time of the month frequency remained			
	<49.0 Hz	49.0-50.5 Hz	50.5-51 Hz	>51.0 Hz
July'08	9.25	90.75	0.00	0.00
August'08	5.21	94.45	0.34	0.00
August,07	3.25	96.70	0.05	0.00

* Maximum (Inst.) Frequency : **50.72Hz** on 15.08.08 at 16:18Hrs

Minimum (Inst.) Frequency : **48.67Hz** on 25.08.08 at 00:23Hrs

From the above table following may be observed:

- The percentage of time frequency profile in the IEGC band (i.e. 49.0 to 50.5 Hz.) during the month of August'08 has increased marginally as compared to the previous month i.e. July'08 but has reduced as compared to the corresponding month of the previous year (i.e. August'07).
- The percentage of time frequency below 49.0 Hz has decreased to 5.21 % in the month of August' 08, as compared to 9.25 % in July'08 but has increased from 3.25 % in the corresponding month of the previous year (i.e.August'07).
- The percentage of time frequency remained above 50.50 Hz in both the months of July'08 & August'08 is insignificant.

The detailed daily frequency for the month of August' 08 is enclosed at **Annexure-II**.

ERLDC may please comment on frequency profile observed during August' 08.

Members noted the above.

2.3 VOLTAGE PROFILE OF IMPORTANT SUB-STATIONS IN EASTERN REGION

Name of the sub-station	Maximum Voltage (kV)	Minimum Voltage (kV)
400 kV PURNEA	431	409
400 kV BINAGURI	430	408
400 kV BIHARSHARIFF	426	390
400 kV DURGAPUR	423	404
400 kV PATNA	431	402
400 kV JEERAT	411	375

It may be noted that during the month of August' 08, voltages at Binaguri, Biharshariff, Durgapur, Patna and Purnea s/s remained on higher side, whereas minimum voltage (375KV) at Jeerat s/s was observed on lower side particularly during peak hours.

Members noted the above.

2.4 UFR OPERATION IN ER

As System frequency remained above 48.5 Hz no UFR operation is expected for the month of August'08.

Deliberation in the meeting

Members noted the above.

SE (Operation) requested GM, ERLDC to appraise the OCC members about the important features of grid performance in July'2008.

GM, ERLDC, explained the stressed grid operation due to the risk of breakdown of critical transmission lines in the Eastern Region. Sixty towers of 400 kV Purnea – Muzaffarpur line were submerged 3 meter in water & one tower of 400 kV Purnea – Malda got washed away due to the unprecedented flood in Bihar. He thanked Powergrid Engineers for their quick switch over of the 400 kV Purnea – Malda transmission line to ERS.

He then described the power situation in the month of August'2008. He expressed that the power situation in the month of August, 2008 remained comfortable, total demand met in August was is 11,280 MW. Export of UI was 164 MU and actual export of power to other regions was 1095 MU. He informed that on 09.09.2008 frequency profile was very poor because of multiple outage of machines ((Farakka - 2 machines, Kahalgaon -2 machines and Teesta were out of bar.)

ITEM NO. 3 IMPORTANT EVENTS

- I. Widespread floods have been reported in North Bihar affecting Purnea, Forbisganj, Kishanganj, Supaul, Katihar due to flooding by Kosi river. Around 60 towers of 400kV Purnea-Muzzaffarpur D/C line are partially submerged in water. Loc. 892 of 400kV Malda –Purnea D/C had become critical due to change in river course (river Nagar). An emergency shutdown of 400kV Malda-Purnea D/C was taken by Powergrid, one by one for shifting of the lines from Loc.892 to ERS as the tower had been badly damaged in the floods.

Members may please intimate any other development / important events that took place during the month of August' 08.

Deliberation in the meeting

Members noted the above.

ITEM NO. 4 MAJOR TRANSMISSION LINES/ELEMENTS OUTAGES IN ER GRID

Sl. No	Description	Date Outage	Reason	Remarks
Lines / Elements under outage				
1.	315 MVA ICT-II at Patna	28.08.08	Bushing failure At 33kV Tertiary side	<i>R-phase tertiary bushing damaged and oil Leakage observed. Powergrid may please furnish target date of restoration programme. Powergrid stated that oil test conducted and report submitted to BHEL. Efforts to restore the ICT in the 1st week of October is being made.</i>
2.	315 MVA ICT-II at Maithon	16.06.08	Failure of R & Y Phase LA & Fire Hazard	<i>Powergrid may please furnish target date of restoration. Expected to be restored by end of November,2008.</i>
3.	220 kV Talcher TPS-Joda line-II	26.08.07	CB bursting at Talcher TPS	<i>NTPC may please intimate the present status. New CB is in position. R&M work of the switchyard by BHEL is in progress. Expected to be completed by October,2008</i>
4.	150 MVA ICT-I at Bodhgaya	04.03.08	Fire hazard in Bodhgaya s/s	<i>R & M works of the ICT ordered and expected within 15-24 months. BSEB may please furnish target date of restoration. New 150 MVA ICT- I is under procurement. Order has been placed on M/s Areva. Expected by November,2009.</i>
Prolonged Outage				
1.	220 kV PTPS-Bodhgaya T/C	2005	Tower collapse and conductor theft	<i>In the last OCC meeting JSEB & BSEB assured to take up the matter with their appropriate authorities and confirm sharing of cost of restoration of the line. JSEB/BSEB may please intimate the present status. JSEB representative informed that they have already confirmed on their part. But BSEB representative informed they have to take up with their higher authority to arrive at a decision in this regard.</i>
2.	220/132 kV, 100MVA ICT-I at Fatuah	22.04.2002	Problem in transformer winding	<i>BSEB may please indicate the present position Rewinding work is in progress</i>

ITEM NO. 5 Major units outage /Maintenance:

STATION	NO.	CAPACITY	DATE	REASONS FOR OUTAGE	EXPECTED DATED OF RESTORATION
Farakka STPS	4	500	31.08.08	Maintenance	25.09.08
Kahalgaon STPS	2	210	11.08.08	Overhauling	14.09.08
Talcher STPS	1	500	06.09.08	Overhauling	01.10.08
Tenughat TPS	1	210	06.08.08	Coal Problem	Subject to availability of coal
Mejia TPS	3	210	25.08.08	Overhauling	15.09.08
Kolaghat TPS	1	210	08.08.08	Overhauling	10.09.08
Kolaghat TPS	6	210	29.08.08	Coal Problem	Subject to availability of coal
Sagardighi	2	300	20.08.08	Coal Problem	Subject to availability of coal

ITEM NO. 5A GRID INCIDENCES IN ER SYSTEM DURING JULY & AUGUST '08**I. Tripping of 400kV Farakka-Malda-II on 18.08.08:**

At 05:20 Hrs of 18.08.08 400kV FSTPP-Malda-II tripped reportedly due to Pole discrepancy at Malda s/s. After restoration at 05:32 Hrs the line tripped again at 05:44 hrs and was normalized at 06:58 Hrs.

Repeated tripping of the line on pole discrepancy needs to be investigated to prevent recurrence of similar event.

Powergrid may submit action plan for the same.

Deliberation in the meeting

Powergrid representative informed that faulty ckt. assoiated with pole discrepancy has been replaced.

II. Tripping of 400kV Agra – Gwalior on 22.08.08:

At 03:33 Hrs of 22.08.08 400kV Agra-Gwalior carrying around 610MW from Agra to Gwalior tripped due to operation of Main-II relay at Gwalior end and the line tripped from Gwalior end only. Immediate necessary action was taken by ERLDC to control line overloadings. Attempt to synchronise the line from Gwalior end at 03:45 hrs led to tripping of the line from Agra end. Finally, the line was taken into service at 04:04 hrs. The variation of power flows for lines which got loaded critically (as observed from SCADA readings) are detailed below:

Name of D/C line	Pre-incident flow (MW) per ckt. (03:31 Hrs)	Post-incident flow (MW) per ckt. (03:46 Hrs)
PURNEA-MALDA D/C	273	435
MALDA-FARAKKA D/C	320	510
FSTPP-DURGAPUR D/C	325	476
DURGAPUR-JAMSHEDPUR S/C	315	540
JAMSHEDPUR- ROURKELLA D/C	390	791
KTPP-BARIPADA S/C	332	508
ROURKELLA -RAIGARH D/C	445	867
MAITHON-JAMSHEDPUR D/C	275	512
KHSTPP-MAITHON D/C	341	565

(FLOWS FROM RIGHT TO LEFT)

As can be observed the power flowing from NR to WR via Agra-Gwalior was diverted via ER to WR along Purnea- Malda- Farakka-Durgpur-Jamshedpur-Rourkella-Raigarh and also partly via Farakka-Jeerat-KTPP-Baripada routes leading to high loading on 400kV Jamshedpur-Rourkella D/C and 400kV Rourkella-Raipur D/C lines.

OCC may discuss the event for suitable safeguards.

Deliberation in the meeting

Members noted the above.

III. Tripping of all units at CHPC and 220kV CHPC-Birpara-I & II/ Birpara-Malbase on 03.09.08

At 22:48 Hrs of 03.09.08 220kV CHPC-Birpara I,II and 220kV Birpara-Malbase tripped on R-ph fault. All running units at CHPC (Units# 1,2,3,4) generating around 360MW tripped. 220kV CHPC-Birpara I & II were normalized by 23:40 Hrs and 23:42 respectively. However, 220kV Malbase-Birpara section did not hold. The line was subsequently restored after patrolling on 04.09.08 at 17:20 Hrs. Stormy weather with lightning was reported in the area.

CHPC /Powergrid may furnish further details.

IV. Tripping of all units at CHPC and 220kV CHPC-Birpara-I & II/ Birpara-Malbase on 08.09.08:

At 23:03 hrs of 08.09.08 220kV CHPC-Birpara I & II tripped on B-Ph fault. It was reported that at the time of tripping of 220kV CHPC-Birpara-I & II all running units at CHPC (generating around 360MW) also tripped. At 23:14 hrs 220kV Birpara-Malbase also tripped. 220kV CHPC-Birpara I & II were charged at 23:31 Hrs and 23:49 Hrs respectively. 220kV Birpara-Malbase section was charged at 00:15 Hrs. Stormy weather with lightning was reported in the area.

CHPC /Powergrid may furnish further details.

Deliberation in the meeting

CHPC representative informed that both on 03.09.08 & 08.09.08 the tripping was due to the transient fault in the stormy weather. Detailed report submitted by CHPC is enclosed in Annexure-VII.

V. Repeated tripping of 400kV KTPP-Baripada line

Frequent tripping of 400kV KTPP-Baripada has been observed in the past few days the details of which are listed below:

DATE	TRIPPING TIME	RESTORATION TIME	REASONS FOR TRIPPING
21.08.08	10:10	12:14	B-Ph E/F
25.08.08	10:49	12:15	B-Ph E/F
27.08.08	12:56	14:01	Y-Ph E/F
30.08.08	13:33	15:13	R-Ph E/F
05.09.08	07:48	10:05	Y-Ph E/F

Repeated trippings of the above line on Earth Fault needs to be investigated at the earliest.

Deliberation in the meeting

OCC observed 3 phase ground fault does not permit auto recluse.

ITEM NO.5B FOLLOW UP ACTION ON THE INCIDENCES REPORTED IN THE LAST OCC MEETING

i) Tripping of all 220kV lines and 2x315 MVA ICTs at 400/220 KV Binaguri S/S of PowerGrid on 01.08.08

In the last OCC meeting a committee was formed to look into the protection aspects of the problem.

Committee may appraise the status of investigation.

Deliberation in the meeting

The committee submitted its report which is enclosed in Annex-V.

ii) Tripping of IB TPS units and lines /ATRs at Budhipadar on 07.08.08

The reason for tripping of IB TPS units was to be investigated.

OPTCL may furnish the results of the investigation and remedial measures taken.

Deliberation in the meeting

OPTCL submitted a report which is enclosed in Annex-VI.

ITEM NO. 6 OPERATIONAL PLANNING

(A) REVIEW OF SHUTDOWN PROPOSALS, AS APPROVED IN LAST (29TH) OCC MEETING OF ERPC vis-à-vis ACTUAL SHUTDOWN/ NORMALISATION OF THE TRANSMISSION SYSTEM FOR AUGUST' 2008

The actual shutdown as availed by the constituents on the basis of finalised programme during the month of August '08 as well as planned / emergency shutdown as received from ERLDC is indicated at Annex-III A.

Members may please note and also furnish the additional / missing information, if any.

Deliberation in the meeting

Members noted the above. The actual shutdown as availed by the constituent is depicted in Annexure-III A.

(B) SHUTDOWN PROPOSAL OF TRANSMISSION LINES AND GENERATING UNITS FOR THE MONTH OF OCTOBER'08.

The shut down proposals which are received by ERPC for the month of October' 08 are given at **Annexure – III B**.

Members may please discuss and finalize the proposed programme.

Deliberation in the meeting

All the shutdown proposals as approved after deliberation in the meeting for the month of October, 2008 are depicted in Annexure-IIIB.

(C) LGBR FOR THE MONTH OF SEPTEMBER & OCTOBER (FOR THE YEAR 2008-09)

Anticipated Peak Demand (MW) and Energy Requirement (MU) for the months of September & October '08

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the months of September & October'08 has been prepared by ERPC Secretariat on the basis of finalized LGBR for 2008-09, keeping in view that the units are available for generation and expected load growth etc. The details are shown at Annexure-IV.

Members may please note and indicate any discrepancy of the figures arrived at.

Deliberation in the meeting

Members were requested to indicate any change in the peak (MW) and energy (MU) figures of requirement and availability and corresponding surplus /deficit of their respective system for the month of September & October, 2008 within 10 days. If no feedback is received from any of the constituents, the figures indicated in Annexure-IV would be treated a final.

ITEM NO. 7 ACTION PLAN DURING PUJAHIGH DEMAND OF ER AND WBSEB SYSTEM DURING PUJA FESTIVAL

During the Puja festival demand of ER grid and of WBSEB system in particular are expected to be high during the peak hours before Ashtami. In West Bengal alone around 1500MW demand ramp is expected in about 15-30 mins. All constituents are requested to be on maximum alert during the period and ensure the following:

- i. Adequate coal stocks to be maintained at all Thermal Power Stations and ISGS/WBPDCL/DPL/CESC/DVC to ensure maximum generation availability.
- ii. UFR at all stages to be kept in service.
- iii. All constituents would have to curtail their overdrawal suo motto without waiting for instructions from ERLDC as soon as system frequency goes below 49.0Hz. Generation should be maximized and manual load-shedding should be carried out if required to keep the system frequency above 49.0Hz.
- iv. To ensure that system frequency does not dip during ramp up of system demand thermal generation at all places to be maximized by 17:00Hrs with margins in hydro stations. Generation at hydro stations to be ramped up as per system demand to ensure that system frequency remains above 49.0Hz.
- v. Tala to ensure all six machines to be on bar during peak with full generation.
- vi. At Purulia PSP at least three machines to be on bar during peak with other machine on standby. Machines at Purulia PSP to be on motoring mode during off-peak hours at appropriate time to ensure adequate reservoir levels.
- vii. Spinning reserves are to be kept available at Hydro stations in Orissa.
- viii. All shifts to be manned by senior persons
- ix. SCADA system should be fully functional and maintenance team to be on alert.
- x. A pre-Puja meeting to be organized tentatively on 25.09.08

Deliberation in the meeting

Members noted the above

ITEM NO. 8 ISSUE RAISED BY

POWERGRID

1. REPLACEMENT OF VARIOUS OLD SWITCHGEARS AND PROTECTION RELAYS IN THE STATIONS OF POWERGRID ER-I

i. REPLACEMENT OF OLD ABCBS AT PURNEA WITH SF6 TYPE CBs (ABB make)

At Purnea s/s, there are 6 sets of ABCBs, the performance of which are not reliable. The CBs are already 22 years old and obsolete and therefore, getting spares is very difficult. In case of any major problem in the CBs, it may lead to long outage thus resulting into the problem of power evacuation from the 220/132kV substation. Hence, the ABCBs are required to be replaced immediately with SF6 CBs as per modern trend. The cost involvement for the replacement will be Rs. 99 lacs(approx.)

ii. RETROFITTING OF BIMCO & GRPS MAKE ISOLATORS AND EARTH SWITCHES AT PURNEA S/S

There are some 22 years old and obsolete pneumatic driven isolator and earth switches in the 220kV/132kV Purnea s/s. The isolators and earth switches are giving repeated problems and requiring frequent maintenance. As the equipments are very old, the service / spare for the equipments are also not available. Due to problem in these isolators/ earth switches, power supply from 220/132kV Purnea s/s to BSEB system frequently gets interrupted. These isolators and earth switches are required to be retrofitted immediately. The cost involvement for the retrofitting will be Rs.70.00 lacs (approx.)

iii. RETROFITTING OF DIFFERENTIAL RELAYS OF THE TRANSFORMERS CONNECTED WITH BSEB /JSEB AT JAMSHEDPUR AND BIHARSHARIFF S/S(MAKE: ABB)

At Biharshariff s/s, there are 3 nos. of 315 MVA, 400 /220kV ICTs and at Jamshedpur, there are 2 nos. 315MVA, 400/ 220kV ICTs for feeding power to BSEB /JSEB respectively. These ICTs are catering major load of BSEB /JSEB systems 2 nos, ICTs at Biharshariff and 2 nos. ICTs at Jamshedpur were commissioned in 1991-92. The main static type differential relays used for the protection of the ICTs are very old and obsolete due to which the manufacturer is not interested in providing any support services for repairing etc. In addition to that, in the ICT feeders disturbance recorders are also not installed, for analyzing the disturbances in the ICTs. Considering

the high rate of failure of the ICTs in the recent times, it is proposed to replace the old differential relays with numerical type of differential relays having disturbance recorder feature. Therefore, in addition to having reliable protection, these new differential relays will help in analyzing the fault. The total cost involvement for the replacement of differential relays at Biharshariff and Jamshedpur will be Rs. 18 lacs(approx).

iv. **REPLACEMENT OF PILOT WIRE PROTECTION AT PURNEA S/S FOR THE KISHENGANJ LINE**

As per the earlier scheme, the 132kV Kishanganj feeder was connected to nearby BSEB s/s in Purnea (1Km away). Accordingly, Pilot wire protection was provided for the protection of the said line. However, later on this feeder is terminated at Kishanganj station of BSEB, which is around 70Km from Purnea. As the pilot wire protection cannot be used for the said length of the line, therefore the line is presently protected only by back up over current protection having high time delay. Hence, providing of a distance protection in the said feeder is required very urgently. For providing a modern numerical type distance protection relay in this feeder, total cost involvement will be Rs. 2.5 lacs (approx).

v. **REPLACEMENT OF OLD DISTANCE PROTECTION RELAYS OF BIHARSHARIFF AND JAMSHEDPUR S/STN.(MAKE ABB):**

The Biharshariff and Jamshedpur s/stn. are very important stations of Powergrid, having connection with the generating stations as well as having inter-regional tie lines. These stations are also feeding important loads of BSEB /JSEB. In these stations the distance protections provided in some of the old feeders, commissioned in the year 1991-92 are quite obsolete and hence giving frequent problems, putting the system in danger. The distance protection relays are now not repairable and the manufacturers have also stopped providing services for these relays. Hence, for reliable operation of these feeders, these old relays are required to be replaced immediately. At Jamshedpur s/stn. 4 relays and at Biharshariff s/stn 5 relays are required to be replaced and replacement cost of these old relays with numerical relays the cost involvement will be Rs. 20 lacs(approx).

Members may please note the above points and agree for the replacement of the above on operational ground. Approximate cost for replacement is Rs. 2.10 crore.

**PROVIDING BUS SELECTION SCHEME IN THE FEEDERS /ICTs
AT 220kV Biharshariff BSEB S/STN**

BSEB, Biharshariff s/stn. is presently having double main and transfer bus arrangement and accordingly all the ICT incomers and the line feeders are connected to both the main buses. However, as there is no bus selection scheme available through the bus isolators, therefore in case of shutdown of any of the 220kV bus, the ICT incomers and the out going feeders connected to that bus are to be switched off. Due to the same, Powergrid is facing problem in taking the shut down of the ICTs. Hence, this is not desirable. BSEB is to provide the bus selection scheme immediately. This has already been pointed by protection committee earlier.

Members may please discuss.

Deliberation in the meeting

All the constituent members principally agreed to the above proposals.

ITEM NO. 9 MISCELLANEOUS

A. COAL SUPPLY TO THERMAL POWER STATIONS IN THE EASTERN REGION

It is observed that some thermal units in the eastern region are out of bar due to inadequate coal supply. In order to monitor coal supply to power stations and associated problem constituents are requested to submit coal stock position/coal requirement of their respective power stations to ERPC. A meeting between the various agencies would be convened shortly.

Deliberation in the meeting

Members noted the above

B. CONSTRAINTS OF OPERATION OF ER GRID DUE TO FLOOD SITUATION IN NORTH BIHAR

Unprecedented flood in North Bihar due to change in course of Kosi river has led to widespread damage all along the changed course of the river. Around 60Nos. towers of 400kV Purnea-Muzaffarpur D/C line are partially submerged in water. It may be noted that the line carries power to the tune of 1600MW and loss of the above section would have led to cascade tripping of 400kV Purnea-Malda-Farakka sections. This would result in islanding of North Bengal (Malda/Silliguri/Birpara), North Bihar (Purnea/Kishanganj), Sikkim, Teesta. NER and Bhutan from main grid. While this island would

experience high frequency, the rest of grid would experience low frequency on account of loss of generation and import from NER.

The following precautionary measures are suggested to save the system in case of such a contingency:

- i. **Speed governors of the hydro units at Teesta, Tala, Chukha,NER should be set so that they should start rejecting load as soon as frequency crosses 50.20Hz.**

All under-frequency and Df/Dt relays in WR/NR/ER should be in service to arrest sudden drop in system frequency.

Deliberation in the meeting

Members noted the above.

C. FREQUENT OUTAGES OF FSC/TCSC at Purnea end

It has been observed that from 22.08.08 to 05.09.08 the FSC /TCSC at Purnea end got bypassed **nine times** due to capacitor current unbalance. Continuous availability of FSC/TCSC for 400kV Purnea-Muzzaffarpur D/C lines is very essential during prevailing high hydro conditions.

Powergrid may carry out a detailed study of the repeated trippings and take necessary steps to ensure that the FSC /TCSC at Purnea end is kept in service always.

Deliberation in the meeting

AGM, ER-I, Powergrid informed, it is FSC and not TCSC which suffered repeated tripping and assured to look into the matter.

ITEM NO. 10 DATE AND VENUE OF THE NEXT (31st) OCC MEETING OF ERPC.

Next (31st) OCC will be held on 16-10-2008 (tentative date) under the aegis of BSEB.

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

Annexure – I

**LIST OF PARTICIPANTS IN THE 30TH OPERATION COORDINATION COMMITTEE MEETING (OCC)
HELD AT ERPC, KOLKATA ON 11.09.2008**

ORGANISATION	NAME	DESIGNATION
ERPC	Shri R. K. GROVER	MEMBER SECRETARY
ERLDC	Dr. L.HARI	GM
<i>BIHAR</i>		
BSEB	Shri D.K.SINGH	EEE,SLDC
<i>JHARKHAND</i>		
JSEB	Shri S.P.SINGH	ESE/SLDC
	Shri B.K.SINGH	EEE
<i>WEST BENGAL</i>		
WBSETCL	Shri D.GANGULY	CE/SLDC
	Shri C.B.DATTA	DY.CE/SLDC
	Shri A.RAICHAUDHURI	SE/SLDC
WBSEDCL	Shri P.MUKHOPADHYAY	ADDL CE /ALDC
	Shri P.P.BISWAS	SE /ALDC
WBPDCL	Shri A.K.DE	DGM (CORP)
CESC		
	Shri R.CHAKRABORTY	MANAGER (SYS)

<i>ORISSA</i>		
OPTCL	Shri B.N.MAHAPATRA	SR.G.M(PS)/SLDC
	Shri S.K.DAS	AGM (E) /SLDC
OHPC	Shri B.C.PADHI	SR.GM (E)
NALCO	Shri S.P.PATRA	CM(E)
<i>DVC</i>	Shri D.MUKHERJEE	CE (E)
	Shri H.S.BHATTACHARYA	SE (E), CRITM
	Shri B.DATTA	SE (E), CRITL
	Shri S.NAYAK	SE(E), CTC
NTPC	Shri S.DASGUPTA	DGM
	Shri RAKESH KUMAR	DGM(OS)
NHPC	Shri R.R.THAKUR	AM(PHE)
POWERGRID		
ERTS-I	Shri D.K.SARMA	ADDL.GEN.MGR
	Shri S.PRASAD	AGM
ERTS-II	Shri J.P.SINGH	GM (O & M)
	Shri B.K.PRADHAN	CH.MANAGER (OS)
	Shri S...J.LAHIRI	CH. MANAGER(OS)
<i>BHUTAN</i>		
TALA	Shri T.PER. YANNAN	EE (O)
CHPC	Shri M.PRASAD	AEE
KHPC	SONAM DORJI	JE
	JIGME	SO
SAIL	Shri T.BANERJEE	AGM (O)
ERLDC	Shri P.MUKHOPADHYAY	DGM
	Shri D.K.SRIVASTAVA	DGM
	Shri S.KONAR	DM
	Shri S.BANERJEE	CM
	Shri G.CHAKRABORTY	CM
	Shri P.S.DAS	MANAGER
	Shri T.R.MOHAPATRA	ENGINEER
ERPC	Shri J.BANDHOPADHYAY	SE (C)

	Shri S.N.KAYAL	SE (O)
	Shri B.C.MALLICK	SE (PS)
	Shri B.SARKHEL	EE(O)
	Shri S.K.GHOSH	EE (C)
	Shri A.ROY	EE (C)
	Shri S.S.GHOSH	EE, DDO
	Shri S.K.DEB	EE (TSC)
	Shri S.M.JHA	EE (SPAR)
	Shri P.N.SARKAR	AD-I (SPAR)
	Shri S.KEJRIWAL	AD-I (C)
LAISION OFFICERS OF JSEB,NVVNL,BSEB	Shri S.K.SENGUPTA	EEE, BSEB
	Shri A.K.CHATTERJEE	CE/JSEB
	Shri S.P.DATTA	DGM /NTPC

ANNEXURE-III B

Programme of Maintenance Of Transmission Lines And Generating Units as proposed for the Month Of October' 2008

Organization	Name of the Element	From		To		Remarks
		Date	Time	Date	Time	
KhSTPS, NTPC	Unit # I	11.10.08		30.10.08		Annual Overhauling
	400 KV Farakka – Kahalgaon Line - I	21.10.08 (ODB)		22.10.08 (ODB)		Preventative Maintenance
	400 KV Farakka - Kahalgaon Line -II	24.10.08	08:00	24.10.08	17:00	Relay Testing
	400 KV Farakka – Malda Line – I	13.10.08 (ODB)	08:00	14.10.08	17:00	Annual Maintenance
	400 KV Farakka – Malda Line – II	16.10.08 (ODB)	08:00	17.10.08	17:00	-DO-
	220 KV Rengali – I Bay of OPTCL at Rengali	17.10.08 (ODB)	08:00	18.10.08	17:00	Annual Maintenance Work of Bay
	220 KV Rengali – II Bay of OPTCL at Rengali	20.10.08 (ODB)	08:00	21.10.08	17:00	-DO-
	315 MVA ICT-I at Pusauli	14.10.08	0800 (ODB)	15.10.08	1700	For Annual Maintenance
	315 MVA ICT – II at Pusauli	16.10.08	08:00 (ODB)	17.10.08	17:00	-DO-
	315 MVA ICT – III at Jamshedpur	20.10.08	08:00 (ODB)	21.10.08	17:00	-DO-
	50 MVAR Bus reactor at Jamshedpur	22.10.08	08:00 (ODB)	23.10.08	17:00	-DO-
OHPC						
	Balimela Unit # II	21.08.08		04.10.08		RLA Study Generator Problem Stator earth Fault
	Rengalli Unit # I	10.08.08		30.11.08		
	Upper Kolab Unit # I	24.09.08		15.10.08		

DGPC,CHP						
Unit # I		28.10.08	08:30	28.10.08	18:30	For Periodic Maintenance
Unit # II		29.10.08	-do-	29.10.08	-do-	
Unit # III		30.10.08	-do-	30.10.08	-do-	
Unit # IV		31.10.08	-do-	31.10.08	-do-	
PROLONGED SHUTDOWN OF UNITS IN THE CONSTITUENT SYSTEMS						
OHPC						
Chiplima	Unit- III	04.11.06		TO CONTINUE		Abnormal Sound in turbine
JSEB	Unit-III	01.08.03		TO CONTINUE		Boiler renovation Boiler renovation & Turbine O/H Boiler renovation Capital Maintenance
PTPS	Unit –IV	17.09.05		TO CONTINUE		
	Unit- V	23.05.04		TO CONTINUE		
	Unit –VIII,IX,X	17.10.05		TO CONTINUE		

ODB: On daily basis , OCB: On continuous basis