

EASTERN REGIONAL POWER COMMITTEE

14, GOLF CLUB ROAD, TOLLYGUNGE
KOLKATA-700033

MINUTES OF 41st OCC MEETING HELD AT ERPC, KOLKATA ON 18.08.2009 (TUESDAY) AT 11:00 HRS

Sh. R.K. Grover, Member Secretary, ERPC chaired the meeting. List of participants is at Annex-A.

Member Secretary, ERPC welcomed all the participants to the 41st OCC meeting. He stated that the country's power sector was facing a double whammy i.e. on one side the country is faced with drought like situation which would impact performance of hydro stations and on the other side, thermal power station were adversely affected due to coal shortage. He expressed his grave concern over the prevailing coal stock position in various thermal power stations in Eastern Region. However, it was of great relief that hydro stations in Eastern Region and Bhutan were running at their maximum capacity. He informed that representatives from Railway and Coal India were specially invited to discuss coal related problems. He requested Sh P. Kanungo, GM, ERLDC to apprise members of the prevailing grid conditions.

Sh. Kanungo, GM, ERLDC briefed the members on the critical grid condition of the grid.

Member Secretary, ERPC requested Sh A. K. Bandyopadhyaya, Superintending Engineer, ERPC to take up agenda items.

Agenda items were then taken up.

ITEM NO. 1: CONFIRMATION OF MINUTES OF 40th OCC MEETING OF ERPC HELD AT ERPC, KOLKATA ON 22.07.2009

The minutes were circulated vide letter no. ERPC/SE(OPRN)/OPERATION/2009/4218-64 dated 24.07.09.

No comment is received from the constituents. Members may kindly confirm the minutes of the meeting.

Deliberation in the meeting

Members confirmed the minutes of the meeting without any modification.

ITEM NO. 2: REVIEW OF COAL STOCK POSITION IN VARIOUS THERMAL GENERATING STATIONS IN EASTERN REGION

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

Sl No.	Power Station	Capacity MW	Daily Coal Required '000 MT	Present Coal Stock '000 MT as 31.07.09	Linked Mines	Mode of transport
NTPC						
1	<i>Farakka STPS</i>	1600	32.640	9*	<i>Rajmahal (ECL)</i>	<i>Pithead</i>
2	<i>Kahalgaon STPS</i>	1840	37.536	55*	<i>Rajmahal (ECL)</i>	<i>Pithead</i>
3	<i>Talcher STPS</i>	3000	57.600	57*	<i>Lingaraj (MCL)</i>	<i>Pithead</i>
DVC						
4	BTPS-B	630	10.500	140.000@	CCL: Jharia & Kargail BCCL: Jharia	Rail
5	Chandrapur	750	6.500	340.309@	CCL: Jharia BCCL: Jharia	Rail
6	Durgapur	350	5.460	67.443@	ECL: Raniganj-Non-Rj BCCL: Jharia	Rail
7	<i>Mejia</i>	1340	22.500	NIL@	<i>ECL: Raniganj-Non-Rj BCCL: Jharia , Adra</i>	<i>Rail</i>
BSEB						
8	Barauni	320	0.6	26.140	ECL, BCCL, CCL	Rail
9	<i>Muzzafarpur</i>	220	1.0	1*	<i>ECL, BCCL, CCL</i>	<i>Rail</i>
JSEB						
10	<i>Patratu</i>	840	4.0	4*	<i>CCL</i>	<i>Rail</i>
11	<i>Tenughat</i>	420	6.6	7*	<i>CCL: Pareh, Tapin, Kalyani, Kedla</i>	<i>Road</i>
Orissa						
12	IB TPS	420	8.0	131.198	MCL: Lakhanpur	Pithead
13	Talcher Old	470	8.3	124*	MCL	Pithead
WBPDC						
14	Kolaghat TPS	1260	17.85	86.202	BCCL, ECL, MCL	Rail
15	Bakreswar TPS	840	10.80	45	ECL	Rail
16	Santaldih TPS	730	6.235	134	BCCL, ECL	Rail
17	Bandel TPS	450	4.970	31	ECL	Rail
18	Sagardighi	600	7.200	29	ECL	Rail
DPL						
19	DPL TPS	690	9.6	77	BCCL, ECL, MCL	Rail
CESC						
20	Budge-Budge	500	7.200	81.563	BCCL, ECL	Rail
21	<i>Titagarh</i>	240	3.400	8.218	<i>ECL</i>	<i>Rail</i>
22	Southern REPL	135	2.500	19.402	ECL	Rail
23	New Cossipore	130	1.600	10.116	ECL	Rail

@ As on 07.08.09, * As on 02.08.09

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

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

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

Talcher-I	925	910	97	All units are on bar
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Following coal based thermal generating stations in Eastern Region have reported loss of generation in the month of July'09 due to shortage of coal.

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

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

Members are requested to review the coal stock position of each station one by one and concerned station representatives are requested to apprise the members on the following:

- Specific coal problem faced by the station
- Remedial measures taken by them

Deliberation in the meeting

The issue was discussed threadbare in the meeting. Members expressed their grave concern over the abysmal stock position of thermal generating stations in Eastern Region. Power stations in general mentioned about inadequate supply of rakes, oversized coal, and coal mixed with stone and boulders, wet coal and pilferage of coal. Coal companies stated that supply of rakes was more or less as per linkage/contract. They informed that Talcher STPP was under-utilising their MGR capacity. They further requested generating stations to sign Fuel Supply Agreement with them. During deliberation, it transpired that coal unloading infrastructures at some generating stations were not adequate and coal linkages for FSTPP and KhSTPP were not adequate. Railway representative assured that there would not be any problem from Railway's side in transportation of coal. Members in the meeting assured earliest settlement of all the coal related problems and agreed for improvement of performance in the near future. However, keeping in view of the delicacy of the issue, members preferred to discuss the subject matter in the ensuing TCC meeting.

ITEM NO. 3: REVIEW OF GRID PERFORMANCE DURING JULY, 2009

3.1 POWER SUPPLY POSITION :

The power supply position of Eastern Region for the months of July' 09 and June'09 is indicated at **Annexure-I**. Salient observations are as follows:-

- Daily net energy generation (MU) in Eastern Region (including contribution from Bhutan) has reduced to 244 mu in July'09 compared to 260 mu in June 09.
- Peak demand met has increased from 11429 MW in June 09 to 11983 MW in July '09 and peak demand has also increased from 12599 MW in June 09 to 12790 MW in July '09.
- Peak shortage of the region has reduced from 9.29% in June 09 to 6.31% in

July 09. During the month of June 09, BSEB experienced the maximum peak shortage of 32.33%.

- Net export from Eastern Region to outside region reduced to 678.53 mu in July'09 from 959.97 mu in June'09

Members may please note.

Deliberation in the meeting

Members noted the above.

3.2 FREQUENCY:

The frequency profile of ER for the month of June'09 and May'09 is tabulated below:

Month *	% of time frequency remained between					
	<49.2 Hz	49.2-49.5 Hz	49.5-50.0 Hz	50.0-50.3 Hz	> 50.3 Hz	49.2-50.3 Hz
July'09	4.74	23.05	60.00	11.61	0.59	94.67
June'09	19.33	30.01	42.09	8.08	0.49	80.18
May'09	6.58	23.41	52.13	15.52	2.36	91.06

From the above, it may be seen that frequency profile has improved considerably during the month of July 09 compared to the same in June 09. This improvement in frequency could be attributed to increased generation from hydro stations. Maximum frequency was recorded during the month of July 09 was 50.63 Hz at 06:04 hrs 09.07.09 whereas minimum frequency was recorded was 48.72 Hz at 23:06 hrs on 20.07.09. The detailed daily frequency for the month of July'09 is enclosed at **Annexure-II**.

Members may please discuss.

Deliberation in the meeting

Members noted the above.

3.3 VOLTAGE PROFILE OF IMPORTANT SUB-STATIONS IN EASTERN REGION

<i>Name of the 400 kV sub-station</i>	<i>Maximum Voltage (kV)</i>	<i>Minimum Voltage (kV)</i>
JEERAT	413	378
PURNEA	433	407
BINAGURI	430	407
BIHARSHARIFF	429	397
DURGAPUR	422	408
PATNA	434	402
ARAMBAG	413	386

It may be noted that during the month of July'09, voltages at Purnea, Binaguri, Biharshariff and Patna s/s remained on higher side, whereas minimum voltage (378 kV) at Jeerat s/s was observed on lower side particularly during peak hours.

Members may please note.
Deliberation in the meeting

Members noted the above.

3.4 UFR OPERATION IN ER

As system frequency remained above 48.5 Hz no UFR operation took place in ER grid during the month of July'09.

In order to assess the load relief that can be achieved with existing UFR setting, ERPC Secretariat requested constituent to furnish the following information at the earliest.

Sl No	Name of the feeder	UFR Operating frequency (Hz) and Time delay (mSec)	Maximum Load Connected to the feeder (MW)	Minimum Load Connected to the feeder (MW)

However, apart from WBSETCL and DVC, response was not received from other constituents.

Members may kindly note and BSEB, JSEB and OPTCL may submit the above information.

Deliberation in the meeting

Members noted that there was no UFR operation during the month of July'09.

Information on existing UFR setting was also received from OPTCL. BSEB and JSEB were requested to submit the same at the earliest.

3.5 WATER LEVEL IN MAJOR HYDRO RESERVOIRS IN THE EASTERN REGION DURING JULY' 2009

Name of the Reservoirs	Level in mtrs. On last day of the month	
	31.07.09	31.07.08
Balimela	444.01	441.51
Hirakud	184.95	185.22
Indravati	635.50	626.80
Rengali	115.18	118.40
Upper Kolab	848.47	845.10
Maithon	137.43	145.75
Panchet	122.77	125.05

Source: CEA report

Members may kindly note.

Deliberation in the meeting

Members noted the above.

3.6 OPERATIONAL DISCIPLINE DURNG JULY' 2009

In the interconnected NEW grid, adherence to operational discipline has become more important than ever before. ERLDC is requested to furnish instances of non-adherence to their instructions by constituents.

Members may kindly discuss.

Deliberation in the meeting

Members noted that average non-compliance during the month of July'09 reduced to 26%. Maximum non-compliance was observed in the case of OPTCL (35%).

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

Sl .	Description	Date Outage	Reason	Remarks
Lines / Elements under outage				
1	400 kV Tala - Binaguri-IV	02/05/09	CB problem at Tala end	Expected by November'09. Tala may furnish latest status.
2	400 kV Malda-Purnea D/C	24/07/09	Tower collapse at Loc.71	Powergrid may furnish target restoration date
3	220 kV Meramundali-Bhanjanagar D/C	21/07/09	Tower collapse	OPTCL may furnish target restoration date
4	220 kV Indravati-Theruvalli-III & IV	23/07/09	Tower collapse at Loc.64	OPTCL may furnish target restoration date
5	FSC/TCSC of 400 kV Jeypore-Gazuwaka-I & II	25/06/09	Prob. in Control Panel	In the earlier meeting, PGCIL informed that problems were rectified and elements were ready for charging. However, the elements are not charged yet. PGCIL may opine.
6	FSC/TCSC of 400 kV Jeypore-Meramundali	14/04/09		

Members may kindly indicate expected date of restoration of transmission elements.

Deliberation in the meeting

Sl .	Description	Date Outage	Reason	Deliberation in the meeting
Lines / Elements under outage				
1	400 kV Tala - Binaguri-IV	02/05/09	CB problem at Tala end	<i>Expected to be restored by November'09</i>
2	400 kV Malda-Purnea D/C	24/07/09	Tower collapse at Loc.71	<i>Expected to be restored by 30th November'09</i>
3	220 kV Meramundali-Bhanjanagar D/C	21/07/09	Tower collapse	<i>One circuit is expected to be charged through ERS by 20.08.09</i>
4	220 kV Indravati-Theruvalli-III & IV	23/07/09	Tower collapse at Loc.64	<i>Both the circuit expected to be charged by 18.08.09</i>

ITEM NO. 5: GRID INCIDENCES IN ER SYSTEM DURING JULY 2009

I. Tripping of all running units at Patratu TPS on 05/07/09

At 22:47 hrs of 05/07/09 all outgoing 220/132KV lines from PTPS tripped resulting in tripping of all running units at PTPS (Unit#6 & 7). All tripped lines were restored by 22:55 Hrs and PTPS Units#6 was brought onto bar at 01:34 hrs.

JSEB may furnish details of the incident with sequence of events and members may kindly discuss.

Deliberation in the meeting

Representative of JSEB informed that at 18:25 hrs, all running units at Patratu (except unit #6 and 7) tripped and subsequently due to electrical jerk, remaining units also got tripped. No further details were provided. Due to lack of information, the matter could not be analyzed further.

II. Tripping of lines from Meramundali on 06/07/09

At 05:44 Hrs of 05/07/09, 400 kV Meramundali-Jeypore tripped reportedly on overvoltage at Meramundali end. 400 kV TSTPP-Meramundali I also tripped while line-II became floating due to segregation of 400 kV Bus-I & II. DT was received at Jeypore/TSTPP for the above trippings. At 220 kV side it was reported that only 220 kV TSTPP-Meramundali-II tripped.

OPTCL may furnish further details along with sequence of events explaining initiation of tripping of 400 kV Meramundali-Jeypore on overvoltage from Meramundali and members may please discuss.

Deliberation in the meeting

OPTCL informed that 400 kV Meramundali-Jeypore tripped reportedly on overvoltage at Meramundali end (Relay setting =110%). ERLDC did not confirm overvoltage at Meeramundali and suspected relay malfunctioning. In this regard, ERLDC recollected the discussion in 40th OCC meeting. In the meeting, OPTCL was requested to arrange for these tie breakers on urgent basis. Until these arrangements are made, OPTCL was requested to explore the possibility of connecting ICT-II to bus-I so that interconnectivity between bus-I and bus-II gets strengthened.

III. Tripping of both Units of Tenughat TPS on 06/07/09

At 07:07 hrs of 06/07/09 both running units at Tenughat tripped. Several instances of such tripping of both units simultaneously have occurred in the past with proper reasons not being furnished.

JSEB may furnish detailed reason for the above tripping and also indicate possible steps that could be taken to prevent such recurrences in future and members may please discuss.

Deliberation in the meeting

Representative of JSEB informed that due to sudden electrical jerks, the units

were tripped and further reasons could not be found out. The incident happened quite a few times. Members felt that the matter needs to be investigated further and referred it to Protection Co-ordination Committee of ERPC.

IV. Tripping of outgoing lines from Biharshariff on 05/08/09

At 01:07 Hrs of 05/08/09 all outgoing lines from Biharshariff(BSEB) tripped along with all three 400/220KV ICTs at Biharshariff(PG). On further inspection, snapping of R-Ph jumper of 220 kV Tenughat-Biharshariff line at Biharshariff end and Y-Ph jumper of ICT-II at Biharshariff(220 kV side) was observed. BSEB suffered load loss of around 400MW and Tenughat TPS generating around 350 MW(both units) had to be backed down due to availability of only evacuation path of 220 kV Tenughat-Patratu.

BSEB may furnish details of the event with sequence of events and members may please discuss.

Deliberation in the meeting

Representative of BSEB informed that due to non-availability of DC converter at Biharshariff end, differential protection did not operate and fault could not be segregated. It was understood that DC converter was sent for repair by English Electric to Chennai. BSEB was requested to pursue the matter and install the DC converter at the earliest.

V. Furnishing of First Investigation Report to ERPC on grid incidents

It has been noticed that in most of the cases, details of grid incidents (like SOE, DR and relay indication) are not furnished to ERPC Secretariat in advance and information, if any, are furnished only during the meeting. Due to non-availability of factual information in the agenda, members could not discuss the incident threadbare and analysis of the incident remain become unfruitful.

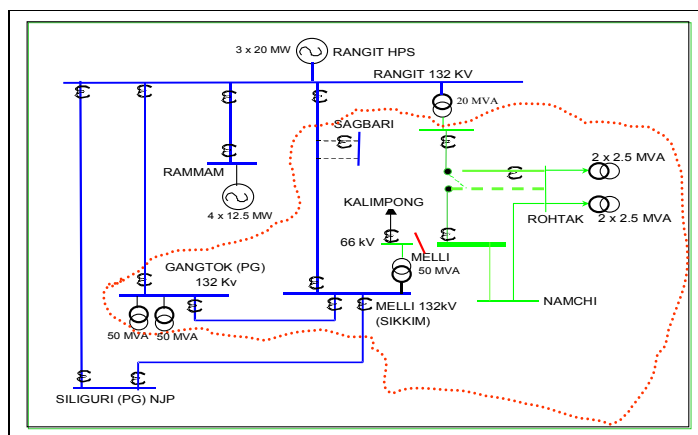
Therefore, in future, all constituents are requested to furnish first investigation report on grid incident to ERPC within 7 days of the incident for proper analysis. Members may kindly agree.

Deliberation in the meeting

All constituents were requested to furnish first investigation report on grid incident with proper network diagram to ERPC Secretariat/ERLDC within 7 days of the incident so that the incident could be analyzed properly.

ITEM NO. 6: TAPPING OF 66 KV RANGIT-MELLI LINE TO SUPPLY TO RAVANGLA

Chief Engineer, Sikkim vide his letter dated 18th June 09 requested Member Secretary, ERPC to explore the possibilities of tapping 66 kV Rangit-Melli line (PGCIL line) at Ravangla. Schematic diagram showing connectivity of various lines with Rangit HPS is shown below. It was understood that 66 kV Rangit-Melli line was already tapped at Rohtak, whereas LILO of 132 kV Rangit-Melli would be done at Sagbari (very near to Rangit). ERLDC pointed out that circuit breaker and proper protection and metering arrangement need to be provided at both Sagbari and Rohtak.



The matter was discussed in 40th OCC meeting of ERPC held on 22.07.09 at ERPC, Kolkata. As representative of Sikkim was not present, it was decided to convene a special meeting with representatives from Sikkim, Rangit and Powergrid. However, the concerned parties could not agree on a common date for the meeting. Therefore the agenda item is put up for discussion in the present OCC meeting.

Members may kindly discuss.

Deliberation in the meeting

During deliberation, it was understood that a meeting was held on 06.09.08 with representatives from Sikkim, Powergrid, and ERLDC to discuss and resolve the issue of T connection in the interstate tie lines of Govt of Sikkim with other utilities e.g. NHPC and Powergrid at Siliguri. The recommendations of the meeting are as under:

Sl No.	Recommendation	Concerned Party
1	T Connection existing in 66 kV Rangit-Melli line should be ceased and made LILO at Rohtak by providing incoming CB at Rohtak S/s	Sikkim
2	After installation of CB at Rohtak, SEM installed at Melli end in 66 kV Rangit-Melli line should be shifted to Rohtak	Powergrid
3	Distance protection of 66 kV Rangit-Melli/Rohtak tie line would be covered under zone-I protection from Rangit end	Rangit HPS
4	Any S/D of 132 kV Rangit-Melli line of Sikkim should have prior approval from ERLDC and S/D in 66 kV Rangit-Melli line must have concurrence from Rangit and Sikkim	Rangit and Sikkim
5	Overhauling of bay equipments at Melli S/s should be carried out jointly by Powergrid & Sikkim	Powergrid and Sikkim

ERLDC was requested to communicate to concerned parties regarding action taken on the above recommendations and inform the same in the next OCC meeting.

ITEM NO. 7: PROCUREMENT OF TWO NOS OF 315 MVA, 400/220 KV AUTOTRANSFORMER AND ONE NO OF 50 MVAR SHUNT REACTOR AS O&M SPARE -- PGCIL

Powergrid Eastern Region Transmission System is about 20 years old and the failure rate of equipment is increasing. Although EHV class equipment is meant for expected life span of about 25 years, it has been felt on the basis of operating experience that some of the equipments are failing prematurely resulting in losses to the power

utility. Presently Powergrid Eastern Region is maintaining about 35 nos of 315 MVA, 400/220 kV ICTs and 22 nos of 50 MVAR shunt reactor. Along with ageing the ICTs and shunt reactors are having problems of gases. As per our experience, in case of failure of ICT, the time consumed in repair/supply of new transformer takes minimum one year time which severely affects the downstream power supply. Considering the vulnerability of transformer and geographical approach, two number of 315 MVA, 400/220 Autotransformer one at Biharshariff and another at Durgapur S/s and one no 50 MVAR shunt reactor at Rourkela as O&M spare will ensure quick restoration in case of failure of ICT and Reactor.

In view of above it is proposed to procure two number of 315 MVA, 400/220 Autotransformer and one no 50 MVAR shunt reactor at strategic location as mentioned above so that in case of any failure fast restoration is assured. In principle approval of the subject proposal may please be approved.

PGCIL may please clarify the practice followed in other regions and Members may kindly discuss.

Deliberation in the meeting

Detailed deliberation took place and beneficiary States in principle agreed for the requirement of 2 nos of spare Autotransformer and one reactor. However, as the matter involves additional capital expenditure and may have commercial implications on transmission availability calculation, members decided that PGCIL might refer the matter to CERC.

ITEM NO. 8: POST FACTO REVISION OF FINAL SCHEDULE BY ERLDC --- NTPC

ERLDC is uploading the final schedule on the website on regular basis. But in recent past it is seen that after 2-3 days, final schedules of 12th, 13th, 21st and 22nd July 2009 have been replaced with some new data by reducing the schedule of KhSTPP Stage-I during peak hours under same heading without giving any remarks.

ERLDC may explain and members may please discuss.

Deliberation in the meeting

ERPC Secretariat explained that the post-facto revision of NTPC schedules on the above dates occurred due to post-facto changes in central sector share allocation. The matter was also taken up with MOP and reservations were registered against any further post-facto changes in central sector allocation.

ITEM NO. 9: POWER SUPPLY INTERRUPTION FROM OPTCL AT RAILWAY TRACTION SUB-STATION/ FEEDING STATIONS - S E RAILWAY

S.E Railway avails power supply from OPTCL at 10 points namely Jaleswar, Balasore under Kharagpur division and Barajamda, Rourkela, Bhalulata, Chandiposi, Nawagaon, Rajgangpur, Bamra & Jharsuguda under Chakradharpur Division. The jurisdiction of Bhalulata, Rourkella, Rajgangpur & Bamra TSS is on density trunk route, carries heavy traffic of freight, mail and express trains of important routes.

The issue of unreliable power supply to S.E. Railway was discussed in 34th OCC meeting of ERPC held on 13.01.09. In the meeting, Member Secretary, ERPC requested to discuss the matter with OPTCL and then, if not resolved, raise the issue

in OCC.

The issue was again raised by Chief Electrical Distribution Engineer, SE Railway vide his letter no. CEE/ 116/1 dated 28.07.09. As understood from SE Railway letter, the matter is still not resolved. He submitted a list of power failure events during April 09- June'09 (**Annex-III**). On analysis of power supply failure report during April'09 to June'09 furnished by S. E. Railway, it is revealed that maximum interruption occurred in Bamra, Rajgangpur, Barajamada and Bhalulata TSS. Frequent & prolong interruptions adversely affected the movement of train services.

OCC members may please deliberate and discuss the following:

- Railway/OPTCL may explain the schematic feed point for each TSS.
- OPTCL may explain the reason for such frequent failures in traction supply.
- Remedial measure for improving the reliability of the supply

Deliberation in the meeting

After deliberation, members requested OPTCL and SE Railway to bilaterally sort out the matter and give feed back to ERPC Secretariat.

ITEM NO. 10: ANTICIPATED DEMAND AND GENERATION DURING COMING PUJA DAYS

In order to ensure better load generation balance during coming Durga puja days, ERPC Secretariat has carried out an exercise to estimate demand and generation. Estimated peak demand and generation is given below:

Date	Eastern Region		West Bengal	
	Peak Demand (MW)	Peak Generation (MW)	Peak Demand (MW)	Peak Generation (MW)
Panchami (23.09.09)	12654	13581	5501	4949
Shasthi (24.09.09)	12795		5737	
Saptami (25.09.09)	12355		5460	
Astami (26.09.09)	11671		4987	
Nabami (27.09.09)	10937		4539	
Dashami (28.09.09)	10691		4528	

All generation and demand are ex-bus. Detailed exercise is shown at **Annex-IV**.

Members may kindly discuss.

Deliberation in the meeting

Members in general agreed with the peak demand and generation figure assessed by ERPC Secretariat provided there is no coal shortage. Adequate coal supply was assured by coal companies during these Puja days. Members requested all generating companies to maximize their peaking capacity during these Puja days.

ITEM NO. 11: OPERATIONAL PLANNING

(A) REVIEW OF SHUTDOWN PROPOSALS, AS APPROVED IN LAST (40th) OCC MEETING

OF ERPC vis-à-vis ACTUAL SHUTDOWN/ NORMALISATION OF THE TRANSMISSION SYSTEM FOR JULY' 2009

The actual shutdown as availed by the constituents on the basis of finalised programme during the month of JULY'09 as well as planned / emergency shutdown as received from ERLDC is indicated at **Annex-V A**.

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

Deliberation in the meeting

Members noted the above.

(B) SHUTDOWN PROPOSAL OF TRANSMISSION LINES AND GENERATING UNITS FOR THE MONTH OF SEPTEMBER'09.

The shut down proposals which are received by ERPC for the month of September' 09 are placed before the members.

Members may please discuss and finalize the proposed programme.

Deliberation in the meeting

Approved shutdown programme for the month of September'09 is placed at Annexure -V (B).

(C) ANTICIPATED POWER SUPPLY POSITION FOR THE MONTH OF AUGUST'09 & SEPT'09

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the months of August'09 and September'09 were prepared by ERPC Secretariat on the basis of finalized LGBR for 2009-10, keeping in view that the units are available for generation and expected load growth etc. The details are shown at **Annexure- VI**.

Members may please discuss.

Deliberation in the meeting

Members noted the above.

ITEM NO. 12: IMPLEMENTATION OF COMMITTEE REPORT CONSTITUTED TO INVESTIGATE FREQUENT TRIPPINGS IN SOUTH ORISSA SYSTEM

A committee consisting of representatives from ERLDC, Powergrid, OPTCL was formed to investigate the repeated disturbances/trippings in South Orissa system and a report was submitted regarding the same. Recommendations of the committee are listed below:

Sl No	Recommendation	Action to be taken by
1	Replacement of CVT at Indravati HPS end in 400 kV Indravati (PG)-Indravati (OHPC)	OHPC

2	ERLDC should be informed about outage of any major 220 kV lines in South Orissa system	OPTCL
3	Numerical relay, DR and RTU should be time synchronized	OPTCL & Powergrid
4	Review of PDO setting for ramping down power order of HVDC Gazuwka on frequency decline in light of formation of NEW grid	ERLDC & Powergrid
5	PGICL to incorporate directional feature for back-up O/C and E/F relay installed at 220 kV side of Jeypore ICT-II and over voltage relay at Rengali 400 kV S/s may be tested for correctness	Powergrid
6	To inform ERLDC in case of outage/non-availability of tie CB/main CB/ bus coupler CB in any 400 or 220 kV S/s	All States & Powergrid
7	Auxiliary contact of every CB should be wired up to the local RTU	OPTCL & Powergrid
8	To develop Black start facility at Balimela and Upper Kolab HEP	OHPC
9	To make available live data from unit 7 and 8 of Balimela HEP to ERLDC/SLDC	OHPC/SLDC

Concerned parties may intimate the latest status on the recommendations.

Deliberation in the meeting

It was decided that a meeting would be convened at Orissa to address all the issues concerning Orissa.

ITEM NO. 13: DECLARING OF PEAK HOURS FOR SCHEDULING PURPOSES UNDER FUEL SHORTAGE CONDITIONS --- ERLDC

For purposes of scheduling under fuel shortage conditions prior declaration of peak hours needs to be done on a month ahead basis. Based on existing demand curve it is proposed that peak Hours for the month of September'09 may be considered from 18:30 hrs to 21:30 hrs. Members may deliberate & confirm.

ERLDC may like to show the demand curve and members may kindly decide.

Deliberation in the meeting

Representative of NTPC raised his objection about the procedure being followed for calculation of daily declared capacity for a thermal station under fuel shortage condition. Representative of ERPC informed that the matter would be placed as an agenda item during ensuing TCC meeting of ERPC.

ITEM NO. 14: FREE GOVERNOR MODE OPERATION

In the last couple of OCC meetings, generating stations were requested to furnish their preparedness for participating in FGMO in the last OCC meetings. Accordingly Member Secretary, ERPC vide letter no. ERPC/OPRN/2009 dated 05.05.09 and 19.06.09 requested all concerned to furnish information as per format. Response has been received from DPL, IB TPS, WBPDC generating stations, Teesta HEP, OHPC and CESC.

Others are requested to furnish the above data at the earliest.

Deliberation in the meeting

Chukha HEP also submitted the requisite information. Others are requested to submit the same at the earliest.

ITEM NO. 15: ANY OTHER POINT

Representative of ERLDC requested constituents to provide the Bank Account information so that adjustment of open access transmission charges collected from STOA customers could be credited to LTOA customers.

ITEM NO. 16: DATE AND VENUE OF THE NEXT (42nd) OCC MEETING OF ERPC.

Date and venue of the next meeting would be intimated in due course.

The meeting ended with thanks to the Chair.
