



Agenda for **134th OCC Meeting**

Date: 23.06.2017
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

Eastern Regional Power Committee

Agenda for 134th OCC Meeting to be held on 23rd June, 2017 at ERPC, Kolkata

PART A

Item no. 1: Confirmation of minutes of 133rd OCC meeting of ERPC held on 26.05.2017

The minutes of 133rd OCC meeting were uploaded in ERPC website and circulated vide letter dated 12.06.2017 to all the constituents.

Members may confirm the minutes.

PART B: ITEMS FOR DISCUSSION

Item No. B.1: Commissioning of new transmission elements in Eastern Region

In 118th OCC, it was informed that the network diagram of eastern region needs to be updated on regular basis on account of commissioning of new elements in the CTU as well as STU networks.

OCC advised all the constituents to update the list of newly commissioned power system elements to OCC on monthly basis so that ERLDC/ERPC can update the network diagram on regular basis.

The list of new Transmission Elements commissioned/charged during **May, 2017** as informed by ERLDC is given below:

- 1) 315MVA ICT-I at Meramundali charged for the first time after replacement at 17:18hrs of 04/05/17.
- 2) LILO on one circuit of 132 KV Gopalganj-Bettia; 0.84 Km line charged first time on 18.5.2017
- 3) 132 KV Begusarai-Balia (S/C); 37.33 Km charged first time on 06.5.2017
- 4) LILO of 132 KV Pusouli (new)-Mohania; 17.5 Km charged first time on 26.5.2017
- 5) 132 KV Musrakh-Maharajganj DCSS; 16.9 Km charged first time on 25.5.2017
- 6) 132 KV Begusarai-Manjhaul (S/C); 21.654 Km charged first time on 18.5.2017

Other constituents may update.

Item No. B.2: Status of projects funded under PSDF schemes

In the PSDF review meeting, it was advised to RPCs to monitor the status of all the projects funded by PSDF. Therefore, constituents are requested to update the status of projects which are being funded by PSDF in the desired format. The latest status as updated in 35th TCC is as given below:

SN	Name of Constituent	Name of Project	Date of approval from PSDF	Target Date of Completion	PSDF grant approved (in Rs.)	Amount drawn till date (in Rs.)	Status as updated in 35 th TCC
1	WBSETCL	Renovation & up-gradation of protection system of 220 kV & 400 kV Substations in W. Bengal	31-12-14		120.67 Cr	11.04 Cr.	95 % Supply Completed
2	WBSETCL	Transmission System improvement of WBSETCL					
3	OPTCL	Renovation & Up-gradation of	10.05.15	10.05.17	162.5 Cr.	19.53 Cr	Total contract awarded for

		protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies.					Rs. 67.73 Cr Erection work for received equipment is in progress.
4	ERPC	Creation & Maintenance of web based protection database and desktop based protection calculation tool for Eastern Regional Grid	17.03.16		20 Cr.	4.94 Cr. + 9.88 Cr.	1) Hardware supplied and installed. 2) SAT completed for pilot state 3) Protection database management software (PDMS) delivered. 4) Training on PDMS organised at Odisha.
5	BSPTCL	Renovation and up-gradation of 220/132/33 KV GSS Biharsharif, Bodhgaya, Fatuha, Khagaul, Dehri -on-sone & 132/33 kV GSS Kataiya	11/5/2015	Feb'2017	64.33 crore	23.68 crore	Project is on going. Order for supply of equipment placed for Rs.13.51 Cr.
6		Installation of capacitor bank at different 35 nos. of GSS under BSPTCL	5/9/2016		18.88 crore		Approved (triparty agreement among NLDC, Govt. of Bihar & BSPTCL is in under process)
7		Renovation & up-gradation of protection and control system of 12 nos. 132/33 KV GSS under BSPTCL.					Recommendation of appraisal committee is awaited. Estimated cost 54.69 crore.
8	DVC	Renovation and upgradation of control & protection system and replacement of Substation Equipment of 220/132/33 kV Ramgarh Substation			25.96		Approved by Ministry of Power
9		Renovation and upgradation of control & protection system including replacement of substation equipment at Parulia, Durgapur, Kalyaneshwari, Jamshedpur, Giridih, Barjora, Burnpur, Dhanbad and Burdwan Substation of DVC			140		Appraisal committee has recommended. It will be placed in next monitoring Committee meeting.
10	WBPDC	Implementation of Islanding scheme at Bandel Thermal Power Station					Appraisal committee has recommended. It will be placed in next monitoring Committee
		Upgradation of Protection and SAS			26.09		Approved by Ministry of Power
11	OHPC	Renovation and up-gradation of protection and control system of 4 nos OHPC substations.					OHPC will submit the detailed proposal soon as per the requirement of Appraisal committee.
12a	ERPC	Training for Power System Engineers					The proposal was examined by the Techno Economic sub group of PSDF and advised to submit revised proposal with consideration of views of the group.
12b		Training on Integration of Renewable Energy resources					The proposal was examined by the Techno Economic sub group of PSDF and advised to submit revised proposal only for training at NORD POOL Academy with consideration of views of the group.
12c		<i>Training on Power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents</i>					

In 35th ERPC meeting, CE-NPC, CEA informed that grant has been allotted to Powergrid for installation of STATCOM but no update on the progress have been received from Powergrid.

Powergrid informed that project has already been awarded and they will submit the details to PSDF Nodal Agency and NPC.

In 131st OCC, Powergrid informed that they will submit the details shortly.

Respective constituents may update.

Item No. B.3: OPERATIONAL LOAD FLOW STUDY FOR OFF-PEAK PERIOD (WINTER LEAN PERIOD)

In 128th OCC for lean off-peak load flow study, OCC finalized the date and time as follows

- 13.00 Hrs of 28th December, 2016.
- 02:00 Hrs of 29th December, 2016

In 130th OCC, PRDC informed that they will submit the report by end of March, 2017. The report is available at ERPC website (www.erpc.gov.in)

Further OCC advised PRDC to carry out another load flow study in the first week of May, 2017 tentatively for 4th and 5th May, 2017 for 19:00 and 20:00 Hrs. Therefore, all utilities have to record data for four instances.

OCC advised all the constituents to note the date and timings for recording the data and send it to ERPC/PRDC.

In 133rd OCC, PRDC informed that load flow studies of Summer Peak Condition (4th and 5th May, 2017) for 19:00 and 20:00 hrs, they have received data from BSPTCL and CESC. Data pending for rest of the utilities for the mentioned time stamps is tabulated below:

States	State wise Load Generation data received (%)		
	<i>Data Received for both time interval</i>	<i>Only 04th May-17</i>	<i>Only 05th May-17</i>
Bihar	<i>Data received</i>		
Jharkhand(DVC data pending)	38.36%	38.36%	38.36%
Odisha	18.25%	24.60%	21.43%
Sikkim	0.00%	0.00%	0.00%
West Bengal(WBSETCL+DVC data pending)	16.67%	16.67%	16.67%

OCC advised DVC, Odisha, Sikkim and WBSETCL to submit the data at the earliest.

PRDC may update.

Item No. B.4: Status of UFRs healthiness installed in Eastern Region

UFR Healthiness Certification for the month of June, 2017 has been received from CESC, JUSNL, WBSETCL, DVC, and BSPTCL.

OPTCL and may update.

Item No. B.5: Healthiness of SPS existing in Eastern Region

GMR, JITPL, Vedanta, CESC, Chuzachen, NTPC & Powergrid-Odisha have submitted the healthiness certificate for the month of May, 2017.

Powergrid ER-II may submit the healthiness certificate for May 2017.

Item No. B.6: Furnishing of data for Merit Order Web Portal – CEA

During the Power Minister's Conference held on 3rd and 4th May 2017, at New Delhi, it was decided to develop a web portal/mobile app in about a month's time with a view to having transparency in Merit order scheduling & dispatch and ensuring most economic system operation.

In the conference Hon'ble Union Minister for Power requested all the States/UTs to submit the requisite data to CEA immediately. A number of States have already submitted the required data. However, the same is still awaited from others.

ERPC vide mail dated 14.04.17, 25.04.17 & 15.05.17 has requested all the ER constituents to submit the above information.

A meeting was convened by CEA to discuss the matter regarding the data and the issues related to the development of merit order web portal/mobile app on 17th May, 2017.

In 133rd OCC, OCC advised SLDCs of Bihar, DVC, Odisha and West Bengal to submit the data to CEA as per the format available in the CEA portal. The format is also available in ERPC website.

Subsequently, a meeting was convened by CEA through VC on 15.06.2017. It was requested that in place of six formats, the simplified Proforma in excel format may be submitted on a regular basis, in monthly and daily formats, with immediate effect preferably from 16.06.2017. The new format and guidelines for filling the merit order Proforma is available at ERPC website (www.erpc.gov.in).

Accordingly, it is requested to submit the data in prescribed formats via e-mail at kvsbaba@posoco.in/ ukverma@posoco.in, harish.rathour@gmail.com with a copy to gmcea@nic.in & mserpc-power@nic.in.

On this regard, it is to inform that POSOCO has developed the facility for online uploading of monthly & daily data related to Merit Order Dispatch Portal, by the SLDCs. NLDC (POSOCO) has already communicated via email to all the SLDCs, their respective User IDs & Passwords and the procedure for online filling & uploading of data. All the SLDCs to start submitting the above data to NLDC online immediately.

In case of any doubt / clarification, Shri Harish Kr Rathour (NLDC) may be contacted at his Mobile No.9873918443. The procedure for online uploading of data for the portal is enclosed at Annexure-B6 and also available in ERPC website.

Members may update.

Item No. B.7: Status of Islanding Schemes of Eastern Region

B.7.1. Status of commissioned Islanding Schemes in Eastern Region

At present, the following islanding schemes are in service:

1. CESC as a whole Islanding Scheme, CESC
2. BkTPS Islanding Scheme, WBPDC
3. Tata Power Islanding Scheme, Haldia
4. Chandrapura TPS Islanding Scheme, DVC
5. Farakka Islanding Scheme, NTPC

In 108th OCC meeting, respective constituents agreed to certify that the islanding schemes under their control area are in service on monthly basis.

The healthiness certificate for Islanding Scheme for May, 2017 has been received from CTPS, DVC, BkTPS, Tata Power and CESC.

NTPC, Farakka & JUSNL may submit the healthiness certificate for FSTPS Islanding Scheme.

B.7.2. Bandel Islanding Scheme, WBPDC

As per the latest status available in PSDF web site the scheme was approved for an amount of Rs.1.39 crore by the Monitoring Committee on 10.04.2017.

Ministry is yet to issue the approval letter.

WBPDC may update the latest status.

Item No. B.8: Auxiliary Normative Loss of Generating Station--ERLDC

As per the Terms and Conditions of Tariff (TCT) regulation 2014-19, the normative auxiliary energy consumption of the thermal generating units is defined in percentage and the value varies with unit size, Boiler feed pump type and the cooling mechanism used. The Auxiliary energy consumption for different unit size as per TCT-2014-19 is as follows:

Capacity of the unit (MW)	Aux. Energy Consumption (%) (With Natural Draft cooling tower or without cooling tower)	Remarks
200 MW	8.5	
300/330/350/500 MW	5.25	Steam driven boiler feed pumps
	7.75	Electrically driven boiler feed pumps

For thermal generating stations with induced draft cooling towers, the norms shall be further increased by 0.5%.

As per above, normative auxiliary consumption of any generating station is not defined in the TCT 2014-19. Normative DC of the generating station is arrived by adding normative DC of each units on bar. Normative DC of any unit is installed capacity less normative auxiliary consumption as defined in TCT 2014-19.

e.g FSTPP Stg- I & II have 3 units of 200 MW and 2 units of 500 MW. Normative auxiliary energy consumption of 200 MW units is 8.5 % and 500 MW unit is 5.25 % as per TCT 2014-19. Accordingly, normative DC for 200 MW unit is 183 MW and for 500 MW unit is 473.75 MW and the normative DC of the station is 1496.5 MW $[(183 \times 3) + (473.75 \times 2)]$. In case of any unit outage, normative DC of the station is summation of normative DC of units on bar. For outage of Unit – 5 of FSTPP Stg – I&II, normative DC is 1022.75 MW $[(183 \times 3) + (473.75 \times 1)]$. This process is followed at ERLDC for calculation of Normative DC of the generating station. However, as per NTPC, Farakka, auxiliary energy consumption of FSTPP Stg- I & II to be considered for normative DC calculation is 6.47 % for the full station irrespective of units on bar. If we consider the case outage of unit – 5 at FSTPP Stg – I&II, the normative DC of the station as per NTPC understanding is 1028.8 MW $(1100 \times (100 - 6.47) / 100)$ considering 6.47 % as station auxiliary consumption, whereas as per TCT 2014-19, normative DC of the station should be 1022.75 MW $[(183 \times 3) + (473.75 \times 1)]$ considering unit wise normative auxiliary consumption. In this regard, the procedure for auxiliary normative consumption considered for calculation of normative DC of the station needs to be finalized for all the generating station.

NTPC, FSTPP may explain and Members may discuss.

Item No. B.9: Disparity in DC declaration of TSTPP Stg I & II to ERLDC --ERLDC

It has been observed that since last few days NTPC, Talcher Stg - I is declaring less DC during peak hours compare to its DC for the other period of the day. However, the same trend has not been observed in case of Talcher Stg – II DC, which is declared to SRLDC.

ERLDC may present the details and NTPC, Talcher may explain.

Item No. B.10: ENABLING OF 3-PHASE AUTO RECLOSE AT 132 KV NORTH BENGAL AND SIKKIM AREAS TO MINIMIZE ELEMENT OUTAGES DUE TO TRANSIENT FAULTS -- Powergrid

During rainy season In North Bengal and Sikkim area, high element outages observed of 132 KV level. Mainly from past experience it is observed that 90% of the fault is of Single Phase to Ground fault and transient in nature. However as per general practice 132 KV level CB's are of mechanically ganged and any single phase fault also causing tripping of all three phases.

To make system more dynamic it is prudent to go for, three phase auto reclosure for any single phase Fault in the 132 KV lines. Only by introduction of A/R facility line availability may be increased in the tune of 90% i.r.o present situations. POWERGRID proposed to implement the same however other constituents as well as ERLDC may give respective views. Upon concurrence detailed road map for Implementation will be given.

In 132nd OCC, Powergrid informed that in North Bengal and Sikkim area most of the time the 132 kV lines were tripping on transient fault and the system can be saved by implementing 3-phase auto-reclosure scheme.

OCC discussed the matter in detail and agreed in principle for implementation of 3-pase auto-reclosure scheme for 132 kV lines. Further, it was decided that the implementation would start with North Bengal and Sikkim area.

Further, OCC advised Powergrid to submit a report on the status of PLCC/telemetry, A/R facility etc. for both ends of each 132 kV lines of North Bengal and Sikkim area.

In 133rd OCC, Powergrid informed that as a pilot project they are implementing the 3-phase auto-reclosure scheme for 132kV Rangpo-Gantok line.

OCC agreed and further advised Powergrid to submit a report on the status of PLCC/telemetry, A/R facility etc. for both ends of each 132 kV lines of North Bengal and Sikkim area.

Powergrid agreed.

Powergrid may update.

Item No. B.11: Restoration of PLCC system of important JUSNL ties

I) 220 KV Chandil –Santaldih line

In 130th OCC meeting, JUSNL intimated that PLCC for 220 kV Chandil-Santaldih line has been tested and commissioned successfully on 25.01.17.

WBPDCCL informed that the PLCC was activated but the auto-reclosure could not be put into service as the R-Ph pole of Circuit Breaker is not getting closed during auto-reclosure operation. The same is taken up with the OEM (i.e. ABB) and they will be rectifying the CB.

In 35th TCC, WBPDCCL informed that overhauling of the R-ph pole of CB will be done by 15th March 2017. Subsequently, auto-reclosure feature will be enabled.

In 132nd OCC, WBPDCCL informed that though the overhauling of the R-ph pole of CB was completed, the auto-reclosure could not be put into service as there was some problem in Main-2 relay of line. The same is taken up with the OEM (i.e. ABB).

WBPDCCL informed that the work will be completed by May, 2017.

In 133rd OCC, WBPDCCL informed that the work is getting delayed as they are not getting proper response from Schnider and GE, however the work will be completed within a week.

II) 220 KV Ramchandrapur-Joda line

In 130th OCC meeting, OPTCL informed that PLCC panels at 220kV Joda end will be commissioned within a week. JUSNL informed that the Ramchandrapur end is ready in all respect for implementation of PLCC.

In 35th TCC, OPTCL informed that PLCC panels at 220kV Joda end will be commissioned by March 2017.

In 131st OCC, WBPDCCL informed that shutdown was proposed on 31st March, 2017 to complete the work.

In 132nd OCC, OPTCL informed that the PLCC panels have been commissioned and will be put in service after completion of testing.

In 133rd OCC, OPTCL informed that the panels will be commissioned by June, 2017.

JUSNL/WBPDCCL/OPTCL may update.

Item No. B.12: Implementation of Automatic Demand Management Scheme (ADMS)

In special PRM held on 7th June, 2016, Chemtrols provided the following status of DO implementation:

Constituent	Target by June end	Actual
Bihar	50	67
DVC	12	17
WBSETCL	10	65**
Jharkhand	2	2

(**As per the WB instruction, In all RTUs of WB the DO cable has been terminated in the C&R Panel TBs. WBSETCL testing Team to further extend the connections to the trip relays)

In 133rd OCC, ERLDC informed that DVC has submitted the scheme.

WBSETCL informed that they have implemented the scheme in some sub-stations and they have submitted the details to ERPC/ERLDC.

Bihar informed that they have not yet decided the feeders.

OCC advised Bihar and JUSNL to send the scheme details to ERLDC.

Constituents were advised to share the details of the scheme implemented by them such as logic considered for shedding, feeders along with their voltage levels covered in the scheme and quantum of relief expected from each feeder, communication medium used, device used at sub-station level, whether there is provision for rotational selection of feeders etc.

Subsequently, BSPTCL has submitted the scheme which is placed at **Annexure-B.12**.

Constituents may update present status of implementation ADMS.

Item No. B.13: Concerned members may update the latest status.

B.13.1. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

35th ERPC decided to extend the dead line for removal of LILO up to 15.04.2017 and advised Vedanta to strictly adhere to the schedule for commissioning of the dedicated line in all aspects.

Further, ERPC authorised CTU to open the LILO on 16.04.2017.

In 131st OCC, Vedanta submitted the item wise schedule.

Subsequently, GRIDCO vide letter dated 13.04.17 has requested for extending the LILO connectivity till 30.06.2017.

In 132nd OCC, GRIDCO/OPTCL intimated that the line is expected to be completed by 31st May, 2017 in all respects. But keeping in view of peak summer the LILO may be allowed to continue till 30th June, 2017 to support the OPTCL system.

In view of above, OCC agreed to extend the interim LILO connectivity till 30th June, 2017.

It was also decided that the LILO may be disconnected on 1st July, 2017.

In 133rd OCC, OPTCL updated the latest status as follows:

Activities	Nos	Status as updated in 35 th TCC	Status as updated in 133 rd OCC	Remarks
Tower Foundation	64	64	64	Completed
Tower Erection	64	59	63	
Stringing /OPGW Cabling & Testing	20.5 Km	9 km completed	15 km completed	
Sub station Bay	2	Bay construction completed	Testing going on	

GRIDCO/OPTCL assured that the dedicated line will be completed by mid of June, 2017 and the LILO may be disconnected on 01.07.2017.

OCC advised OPTCL and Vedanta to complete the work at the earliest and no further extension will be granted for removal of LILO.

Members may discuss.

B.13.2. Status of Bus Splitting schemes in Eastern Region

A. Bus Splitting of Powergrid Sub-stations

As per decision of Standing Committee of ER CTU was entrusted to do Bus splitting at 400 kV Maithon, Durgapur & Biharsharif S/Ss or ER. The latest status on the same are:

- 400 kV Maithon ---Completed
- 400 kV Durgapur--Completed
- 400 kV Biharsharif—Physical work has been completed.

In 130th OCC, Powergrid informed that physical bus splitting at 400kV Biharsharif S/s has been completed. Protection part is yet to be completed.

Powergrid added that bus splitting at 400kV Biharshariff S/s will be commissioned by March 2017.

In 132nd OCC, Powergrid added that bus splitting at 400kV Biharshariff S/s will be commissioned by April, 2017.

During third party protection of 400kV Maithon S/s on 18th May 2017, it was observed that bus splitting scheme at 400kV Maithon S/s has been commissioned but not in service. Powergrid and ERLDC may place the action plan to commence the split bus operation.

In 133rd OCC, Powergrid informed that CTU approval is needed to make the bus splitting scheme operational.

Powergrid and ERLDC may update.

B. Bus Splitting of Kahalgaon STPS Stage I&II, NTPC

In 24th ERPC meeting held on 27.04.2013, ERPC advised NTPC to go ahead with the bus-splitting scheme as it is a technical requirement for safe, secure operation of the grid.

In 32nd TCC, NTPC informed that they are going ahead with the implementation of Bus Splitting of Kahalgaon STPS Stage I&II and the implementation is expected to be completed by December, 2018.

In 126th OCC, NTPC has given the present status as follows:

- 400/132kV Switchyard package - bid opened on 14.03.16. Awarded on 04.05.2016.
- Site levelling – Site levelling work has been completed.
- Transformer package and Shunt reactor– have been awarded.

In 35th TCC, NTPC informed that the work is in progress as per the schedule and the bus splitting will be completed by December, 2018.

In 133rd OCC, NTPC informed that the bus splitting will be implemented by December, 2018.

NTPC may update.

B.13.3. 11KV Auxiliary power supply of 400KV Berhampore Powergrid Substation.

In 34th TCC, WBSEDCL informed that the construction of dedicated line has been delayed due to ROW issues. The same has been resolved now and the construction of dedicated line will be completed by December, 2016.

WBSEDCL added that cable needs to be laid out for highway crossing for which cost estimate will be given to Powergrid within a week.

Powergrid agreed to do the payment after receiving the estimate.

In 130th OCC, WBSEDCL informed that the requisite amount has been received from Powergrid and the work will be completed by 15th March, 2017.

In 131st OCC, WBSEDCL informed that the work will be completed by the end of March, 2017.

In 132nd OCC, WBSEDCL informed that line is ready and will be commissioned by next week after completion of testing.

In 133rd OCC, WBSEDCL informed that one testing report is awaited which will be received within a week, on receipt of report line will be commissioned.

WBSEDCL/Powergrid may update.

B.13.4. Run-back scheme of Sasaram 500MW HVDC B-t-B converter -- ERLDC

It is understood that the following run-back schemes are functional for the 500 MW B-t-B HVDC converter at Sasaram:

1. Tripping of any circuit of 400kV Biharshariff-Sasaram D/C line – reduction of HVDC power order to 250 MW
2. Tripping of both circuits of 400kV Biharshariff-Sasaram D/C line – complete blocking of the HVDC converter.

In this connection it is stated that the above run-back conditions were relevant when 400kV Biharshariff-Sasaram D/C line was the only AC source on the East side bus. However, at present due to existence of 765kV Sasaram-Fatehpur 765kV line along with 765/400kV Sasaram ICT, there would be no loss of AC voltage of the 400kV East bus, even if both circuits of Biharshariff-Sasaram 400kV D/C line trip.

It is to mention that on 19-12-16, the HVDC Sasaram power order had to be reduced to 250MW when 400kV Biharshariff-Sasaram-I was taken under planned shutdown. Thereafter, at 12:43 Hrs, the other 400kV circuit Biharshariff-Sasaram-II tripped due to transmission of DT signal from Biharshariff to Sasaram leading to complete blocking of the converter. However, such blocking was unwarranted as the 765kV Sasaram-Fatehpur line together with the 765/400kV ICT at Sasaram was still in service.

It is therefore suggested that the existing run-back scheme may be activated only when Sasaram 765/400kV ICT or Sasaram-Fatehpur 765kV line is under outage and bypassed under normal conditions. The scheme may be further reviewed when at least two units of Nabinagar TPS commence firm generation.

ERLDC explained the scheme in 128th OCC.

OCC decided to implement the revised scheme and advised Powergrid to modify the scheme in coordination with CTU.

In 129th OCC, Powergrid informed that for implementing the scheme there is a requirement of modification in CCU which will be done by the OEM (Alstom). The same will be implemented by March, 2017.

In 130th OCC, Powergrid informed that the CCU at Sasaram is old and it is not possible to implement the revised scheme. So, the CCU needs to be changed for implementation of new scheme.

In 131st OCC, ERLDC advised Powergrid to at least block or bypass the existing run back scheme logic for the time being.

Powergrid informed that they will explore the possibilities to bypass the existing scheme.

In 132nd OCC, Powergrid informed that the matter has been taken up with the OEM (i.e. Alstom).

In 133rd OCC, Powergrid informed that the matter has been taken up with the OEM (i.e. Alstom) to explore the possibilities of bypassing the existing scheme.

OCC decided to refer the issue to CTU.

Powergrid may update.

B.13.5. 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s

PGCIL has already commissioned the 2x315MVA 400/220kV Bolangir S/s by LILOfing of 400kV Meramandali-Jeypore S/C line and 400/220 kV Keonjhar S/s with an objective of supplying power from ER grid to its adjoining areas in Odisha.

In 130th OCC, OPTCL updated the completion schedule of inter-connecting system as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	2x315MVA 400/220kV Bolangir S/s	
a.	LILOf of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir S/S	Only 7 towers left (Severe ROW problem). By May, 2017.
b.	LILOf of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S	Charged on 04.05.16
2.	400/220 kV Keonjhar S/S	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	By 2017.
b.	Keonjhar (PG)-Turumunga (OPTCL) 220kV D/C line	By 2019.
3.	400/220kV Pandiabil Grid S/s:	
a.	Pratapsasan (OPTCL)-Pandiabil (PG) 220 kV D/C line	Dec, 2017.
b.	LILOf of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	220kV Atri-Pandiabil completed on 19.05.2017 and 220kV Pandiabil-Puri (Samangara) completed on 20.05.2017.

OPTCL may update.

B.13.6. 220 kV inter-connecting lines of JUSNL with 2x315 MVA, 400/220 kV sub-stations at Chaibasa, Daltonganj & Dhanbad

In 125th OCC, JUSNL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	Chaibasa 400/220kV S/s	
a.	Chaibasa (POWERGRID) – Chaibasa (JUSNL) 220kV D/c	Completed.
b.	Chaibasa (POWERGRID) – Ramchandrapur (JUSNL) 220kV D/c	July, 2017
2.	Daltonganj 400/220/132kV S/s:	
a.	Daltonganj (POWERGRID) – Latehar 220kV D/c	By Dec, 2017.
b.	Daltonganj (POWERGRID) – Garhwa 220kV D/c	May, 2018
c.	Daltonganj (POWERGRID) – Daltonganj (JUSNL) 132kV D/c	Dec, 2018
d.	Daltonganj (POWERGRID) – Chatarpur/Lesliganj 132kV D/c	Matching with S/s
3.	Dhanbad 400/220 kV S/s: Awarded under TBCB	
a.	Dhanbad – Dhanbad (Govindpur) (JUSNL) 220kV D/c	Matching with S/s

JUSNL may update.

B.13.7. 220 kV inter-connecting lines of WBSETCL with 400/220 kV, 2x315 MVA Alipurduar & 2x500 MVA Rajarhat sub-stations

In 126th OCC, WBSETCL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	2x315MVA, 400/220kV Alipurduar sub-station	
a.	Alipurduar (POWERGRID) – Alipurduar (WBSETCL) 220kV D/c (<i>Twin moose</i>)	<i>Existing plan is to be revised due to ROW issues</i>
2.	2x500MVA, 400/220kV Rajarhat ---	
a.	Rajarhat-N. Town-3 (WBSETCL) 220 kV D/C line	Matching
b.	Rajarhat-N. Town-2 (WBSETCL) 220 kV D/C line	June, 2018

c.	Rajarhat- Barasat (WBSETCL) 220 kV D/C line	June, 2018
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WBSETCL may update.

Item No. B.14: Third Party Protection Audit

1. Status of 1st Third Party Protection Audit:

The compliance status of 1st Third Party Protection Audit observations is as follows:

Name of Constituents	Total Observations	Complied	% of Compliance
Powergrid	54	37	68.52
NTPC	16	14	87.50
NHPC	1	1	100.00
DVC	40	26	65.00
WB	68	27	39.71
Odisha	59	38	64.41
JUSNL	34	16	47.06
BSPTCL	16	5	31.25
IPP (GMR, Sterlite and MPL)	5	5	100.00

The substation wise status of compliance are available at ERPC website (Observations include PLCC rectification/activation which needs a comprehensive plan).

In 118th OCC, all the constituents were advised to comply the pending observations at the earliest. All the STUs informed that most of the observations are related to funding from PSDF. DPRs have been submitted to PSDF committee.

OCC advised all specially JUSNL and BSPTCL to send the revised DPRs at the earliest after clarifying the queries if any.

Members may comply.

2. Schedule for 2nd Third Party Protection Audit:

The latest status of 2nd Third Party Protection audit is as follows:

1) Jeerat (PG)	Completed on 15 th July 2015
2) Subashgram (PG)	Completed on 16 th July 2015
3) Kolaghat TPS (WBPDCCL)-	Completed on 7 th August 2015
4) Kharagpur (WBSETCL) 400/220kV -	Completed on 7 th August 2015
5) Bidhannagar (WBSETCL) 400 & 220kV	Completed on 8 th September, 2015
6) Durgapur (PG) 400kV S/s	Completed on 10 th September, 2015
7) DSTPS(DVC) 400/220kV	Completed on 9 th September, 2015
8) Mejia (DVC) TPS 400/220kV	Completed on 11 th September, 2015
9) 400/220/132kV Mendhasal (OPTCL)	Completed on 2 nd November, 2015
10) 400/220kV Talcher STPS (NTPC)	Completed on 3 rd November, 2015
11) 765/400kV Angul (PG)	Completed on 4 th November, 2015
12) 400kV JITPL	Completed on 5 th November, 2015
13) 400kV GMR	Completed on 5 th November, 2015
14) 400kV Malda (PG)	Completed on 23 rd February, 2016
15) 400kV Farakka (NTPC)	Completed on 24 th February, 2016
16) 400kV Behrampur(PG)	Completed on 25 th February, 2016
17) 400kV Sagardighi (WBPDCCL)	Completed on 25 th February, 2016
18) 400kV Bakreswar (WBPDCCL)	Completed on 26 th February, 2016

19) 765kV Gaya(PG)	Completed on 1 st November, 2016
20) 400kV Biharshariff(PG)	Completed on 3 rd November, 2016
21) 220kV Biharshariff(BSPTCL)	Completed on 3 rd November, 2016
22) 400kV Maithon (PG)	Completed on 18 th May, 2017
23) 132kV Gola (DVC)	Completed on 17 th May, 2017
24) 132kV Barhi (DVC)	Completed on 18 th May, 2017
25) 132kV Koderma (DVC)	Completed on 18 th May, 2017
26) 132kV Kumardhubi (DVC)	Completed on 19 th May, 2017
27) 132kV Ramkanali (DVC)	Completed on 19 th May, 2017
28) 220kV Ramchandrapur (JUSNL)	Completed on 1 st June, 2017
29) 400kV Jamshedpur (PG)	Completed on 1 st June, 2017
30) 132kV Patherdih (DVC)	Completed on 31 st May, 2017
31) 132kV Kalipahari (DVC)	Completed on 30 th May, 2017
32) 132kV Putki (DVC)	Completed on 31 st May, 2017
33) 132kV ASP (DVC)	Completed on 30 th May, 2017
34) 132kV Mosabani (DVC)	Completed on 2 nd June, 2017
35) 132kV Purulia (DVC)	Completed on 1 st June, 2017

The list of observations for the above sub-stations is already available at ERPC website (www.erpc.gov.in). Respective constituents are requested to comply and submit the report to ERPC for regular update.

Members may note.

Item No. B.15: Inspection of Under Frequency Relays (UFR)

UFR testing of following substations was carried out on 31-05-2017

1. 132kV Putki (DVC)
2. 132kV Patherdih (DVC)

*The UFR audit report is placed at **Annexure-B.15**.*

The proposed UFR audit schedule is placed below:

SI No	Proposed Date	Substation/feeder inspected by the sub-group
1	July, 2017	220/132/33 KV Kalyaneswari of DVC
2		220/132/33 KV New Bishnupur of WBSETCL
3		132/33 KV Old Bishnupur of WBSETCL
4	Aug, 2017	BRS (Liluah S/Stn.) of CESC

Members may note.

Item No. B.16: Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN.

The activity of the preparation of Crisis Management Plan for countering the cyber attacks and its implementation including the Mock Drills, audits etc. is being monitored by CEA regularly in line with crisis management plant of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

NTPC communicated their activity of the preparation of Crisis Management Plan for countering the cyber attacks vide letter dated 2nd August, 2013.

In 113th OCC, Member Secretary informed that during interaction with consultants of Grid Study Committee, NLDC agreed that they will plan for conducting workshops on crisis management plan for Cyber Security and few workshops will also be held in Eastern Region.

CESC vide letter dated 22.08.15 had furnished their status of the preparation of Crisis Management Plan (CMP) for Cyber attacks in their system.

*CEA is organizing one-day Workshop at ERPC, Kolkata on 29th June, 2017 regarding Cyber Security related issues in Power Sector. Tentative agenda is enclosed at **Annexure-B.16**.*

Constituents may nominate.

Item No. B.17: Certification through BIS as per IS 18001:2007 to all generating/transmission units.

In 84th OCC meeting all constituents were requested to interact with BIS with intimation to ERPC and get certified as per CEA direction.

In 85th OCC NTPC informed that, NTPC-Farakka has been certified with IS 18001. Other constituents including OHPC requested to interact with BIS with intimation to ERPC and get certified as per CEA direction. The matter is getting reviewed by highest authorities with top priority.

In 88th OCC NTPC informed that, all NTPC stations in Eastern Region are certified with IS 18001. NHPC informed that, Teesta is also certified with IS 18001. After that, OHPC and CESC informed that their stations are certified with IS18001.

In 104th OCC, WBPDCCL informed that Bandel TPS is certified with IS 18001.

OPTCL vide letter No. TB-SO-MISC-9/2010/1914 dated 20.12.2014 had proposed to go for IS 18001:2007 certification as per direction of CEA.

In 113th OCC, CESC informed that Budge-Budge Generating station (3x250 MW) has renewed their certification of BS 18001:2007.

In 121st OCC, it was informed that Kolaghat Generating station of WBPDCCL has received certification of IS 18001:2007 from BIS on 29.04.2016.

In 124th OCC, WBPDCCL informed that Bakreswar Generating station has received certification of IS 18001:2007 from BIS.

In 130th OCC, WBPDCCL informed that Sagardighi Thermal Power Project has also received certification of IS 18001:2007 from BIS in December, 2016.

Members may note and update the status.

Item No. B.18: Energy Generation data management from Renewable Energy Sources

RES development Division, CEA has been receiving monthly generation details and installed capacity of Renewable Energy Sources from respective SLDCs and other authorized agencies. Some discrepancies has been found in the data as received by CEA and MNRE.

Constituents are requested to reconcile/confirmed the correct information at the earliest.

In 120th OCC, all the SLDCs were advised to submit the data to CEA as per the format given in **Annexure- B.18** with a copy to ERPC Secretariat.

In 121st OCC, SLDC West Bengal and SLDC Odisha informed that they have submitted the relevant data to CEA.

SLDCs may update.

Item No. B.19: Compilation of data for meeting Renewable Energy targets of 175 GW by 2020 -- Reference from MNRE

CEA vide letter dated 29.03.16 has referred Ministry of Power letter no. 23/2/2005-R &R(Vol-XI), dated 22.03.2016 & MNRE letter dated 02.03.2016 regarding compilation of data for meeting Renewable Energy targets of 175 GW by 2020.

Concerned State Utilities /Generating companies are requested to submit data of their respective control areas.

Members may update.

Item No. B.20: Data of Peak Demand – Submission of hourly power cut data

The peak demand met figure calculated by CEA is a part of the monthly Power Supply Position Report prepared by CEA, based on the data provided by five Regional Power committee (RPCs), who in turn collect the data from State / UTs and RLDCs. As per the present methodology being adopted for calculation of States /Regional peak demand met, the figure of peak demand met at any time in the month is taken as peak demand met for the month. For all India monthly peak demand met, the sum of five regional peaks met, which may occur at different points of time is taken.

The above methodology has been reviewed and it has been decided with the approval of Chairperson, CEA that Peak demand Met and Peak Demand in the country should be based on hourly all India demand data. The matter was taken up with POSOCO for getting the hourly data of peak demand met for each month in respect of all the regions in the country in the first week of following month and they have assured to furnish the same. To calculate the demand, data of hourly scheduled and unscheduled power-cuts / load shedding is also required, which is not available with POSOCO.

It is, therefore, requested that hourly figures of scheduled/ unscheduled power cuts/load shedding data may be collected from States / UTs and the same may be sent to CEA every month as per above schedule in the enclosed format, in spread sheet, so that hourly figures of peak demand can be calculated and incorporated in Power Supply Position report.

This data for a month may kindly be sent in the first week of each month, along with PSP data, starting from the data for the month of February, 2015. The format for sending the data of hourly scheduled and unscheduled power-cuts / load shedding has already been circulated.

In 110th OCC meeting, OCC advised all the concerned utilities (BSPTCL, JUSNL, OPTCL, WBSETCL & Sikkim) to send the data of hourly scheduled and unscheduled power-cuts / load shedding by mail to mserpc-power@nic.in latest by first week of each month.

OCC advised all constituents to submit the data also to ERLDC (erldcprotection@gmail.com).

For the month of May, 2017 data has been received from OPTCL, CESC, DVC, WBSETCL, BSPTCL & JUSNL.

Members may note.

Item No. B.21: Reasons for demand –supply gap and its variation -- Agenda by NPC

It was deliberated in the 4th NPC meeting that monthly power supply position prepared & published by CEA based on the data furnished by the states reflected shortages in almost all the states. However, a number of those states intimated adequate availability of power. This meant that the deficit / shortage in such states was actually not the deficit in true sense but demand - supply gap due to reasons other than shortage of power. The other reasons for the demand - supply gap could be inadequate availability of power, transmission constraint, distribution constraint, financial constraint etc. The reason for demand –supply gap needed to be clearly mentioned to reflect true picture of power supply position in different states and also to invite

attention of various agencies including policy makers to the specific problem areas in the power sector for suitable solution.

It was agreed by all the RPCs to advise the states in their respective regions to intimate broad break-up of demand –supply gap due to various reasons, or at least, the main reason(s) for demand supply in each month.

In 129th OCC, all the constituents are advised to comply.

Members may update.

Item No. B.22: Transfer capability determination by the states -- Agenda by NPC

In order to ensure, safe and secure operation of the grid, the states should carry out the power system study for operational planning and power transfer capability through their respective transmission links with the rest of the grid.

It was decided in the NPC meeting that to begin with, power system study for assessment of operational limits / power transfer capability for each state will be done by the concerned RLDC in association with concerned SLDC. Monthly TTC /ATC will be uploaded by the SLDCs at their respective websites and also communicated to concerned RLDC & NLDC subsequently.

33rd TCC felt that grid operator should have the information on how much power they can export and import and they should restrict to that figures in order to avoid major grid disturbances.

Accordingly, TCC advised all the constituents to place the details in monthly OCC meetings till they upload the information in their respective websites.

130th OCC requested all the SLDCs to compute and send the ATC/TTC figures for the next month in advance along with the details like assumptions, constraints etc.

All the SLDCs were computing the ATC/TTC figures except Bihar.

In 131st OCC, BSPTCL informed that they will submit the ATC/TTC figures at the earliest.

ATC/TTC declared by states for the month of June-2017 is given below:

SI No	State/Utility	TTC (MW)	RM(MW)	ATC (Import) MW
1	BSPTCL	4311	96	4215
2	JUSNL			
3	DVC	905	52	853
4	OPTCL			
5	WBSETCL	3700	300	3400
6	Sikkim			

Members may update.

Item No. B.23: Long outage of important transmission elements

a) Non availability of Line Reactor of 400KV Malda-Purnea-I

In 123rd OCC, Powergrid informed that order has been placed for Reactor-1 and it will be commissioned by September, 2016.

In 130th OCC, Powergrid informed that the reactor will be commissioned by end of February,2017.

In 131st OCC, Powergrid informed that the reactor commissioning was delayed due to some vibration issue and now it is expected to be commissioned by April, 2017.

In 132nd OCC, Powergrid informed that the reactor will be commissioned by end of May, 2017.

In 133rd OCC, Powergrid informed that the dispatch got delayed due to commercial issues and it will be dispatched by May, 2017 & commissioned by end of June, 2017.

Powergrid may update.

b) 400kV Patna-Kishengunj D/C

Tower collapsed at Loc.51 in Kankai river on 26.07.2016 and three nos towers at Loc no 128F/0, 128 G/0 and 128E/0 in Ganga river on 01.09.2016.

In 129th OCC, Powergrid informed that the work has been awarded.

In 132nd OCC, Powergrid informed that line will be restored by July, 2017.

In 133rd OCC, Powergrid informed that line will be restored by June, 2017.

Powergrid may update.

c) 400kV Purnea-Biharshariff D/C (under outage wef 23/08/16)

Three Nos. Tower (mid river) collapsed.

In 126th OCC, ENICL informed that the final assessment is under progress. The same will be submitted to ERPC and ERLDC.

In 133rd OCC, ENICL informed that line will be restored by last week of June, 2017.

ENICL may update.

d) 220 kV Waria – Bidhannagar-II

The line is under outage wef 20.08.16 due to collapse of one no of tower collapse.

In 130th OCC, WBSETCL requested DVC for early restoration of line in view of summer peak.

OCC requested DVC to expedite the work.

In 131st OCC, DVC informed that the line will be restored by mid of June, 2017.

In 132nd OCC, DVC informed that the line will be restored by end of May, 2017.

In 133rd OCC, DVC informed that the line will be restored by 15th June, 2017.

DVC may update.

e) 50MVAR Bus Reactor-I at Farakka (alongwith main and tie bays)

Under shutdown wef 31/05/16 for dismantling from old bay and re-installation in new bay in the dia of FSTPP GT#3.

In 130th OCC, Powergrid informed that the reactor will be charged by 1st week of March, 2017.

In 131st OCC, Powergrid informed that they have requested for shutdown on 22nd and 23rd March, 2017 to complete the work.

In 132nd OCC, NTPC informed that the shutdown will be allowed after completion of overhauling of unit #5 of FSTPS. It was informed that the reactor will be in service by first week of May, 2017.

In 133rd OCC, Powergrid informed that the reactor will be in service by second week of June, 2017.

Powergrid may update.

Item No. B.24: Accounting of Tertiary Loading Arrangement at PGCIL s/station in ER

Auxiliary consumption of PGCIL EHV AC sub stations are usually met from HT feeders of the state Discom. In few substations of PGCIL, auxiliary consumption is met through tertiary winding (as alternate supply for reliability).

At present State net drawl through PGCIL substation in ER is being computed considering meter installed at feeders after LV side of Transformer. Those sub stations where auxiliary requirement is met through tertiary, States net drawl need to be computed by adding drawl through feeders after LV side of Transformer and auxiliary consumption through tertiary.

In NR, WR & SR, auxiliary power through is already being accounted in states net drawl.

In order to account for the drawl through tertiary for Auxiliary consumption, PGCIL is requested to:

1. Provide list of substations in ER where auxiliary supply is met through tertiary.
2. Install SEM on 33 KV tertiary side of transformers used for auxiliary supply.

131st OCC advised Powergrid to submit the list of substations in ER where auxiliary supply is met through tertiary(both for 33 kV and 11kV level).

Powergrid agreed.

*In 132nd OCC, Powergrid ER-I & ER-II submitted the list of substations which is given at **Annexure- B.24**.*

OCC advised Powergrid-Odisha to submit the list at the earliest.

Further, OCC advised Powergrid to submit the details of all the SEMs connected to tertiary windings and also the SEM readings on regular basis to ERLDC and ERPC.

Details received from Powergrid Odisha are as follows:

S No	Substation	Transformer Tertiary Charged (Yes/No)	SEM Installed in transformer Teritiary (Yes/No)	SEM meter No.
1	765/400KV Angul	Yes	Yes	NP-5942A
2	400/220 KV Keonjhar	YES	YES	NP-7921A
3	400/220 KV Jeypore	YES	YES	NP5965A
4	400/220 KV Rengali	yes	YES	NP0629B
5	400/220 KV Pandiabili GIS	YES	YES	NP7462A
6	400/220/132 KV Baripada	Yes	Yes	NP-5909A
7	400KV Indravati	NA	NA	NA
8	765/400KV Sundergarh	NO	NO	NO
9	400/220 KV Bolangir	YES	YES	NP-7951A

10	400/220 KV Rourkela	NO	NO	NO
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In 133rd OCC, Powergrid was advised to send the readings of SEMs connected to tertiary windings to ERLDC regularly for accounting purpose.

Further OCC decided that after getting the SEMs details of all tertiary loadings, ERPC/ERLDC will devise an mechanism for accounting of the tertiary loading arrangement.

Powergrid may update.

Item No. B.25: LILO Connection of Inter-Regional tie line 132 KV Sonenagar-Rihand (UP,NR) Circuit-I (direct line) at NPGC,Nabinagar for providing startup power to NPGC -- BSPTCL

BSPTCL vide letter dated 18.02.17 intimated that LILO connection of inter-regional tie line 132kV Sonenagar-Rihand (UP,NR) Circuit-I (direct line) is urgently required at NPGC, Nabinagar for providing startup power for commissioning of Super Thermal Power Project (3x660MW) Unit # 1 which is expected to be commissioned in March,2017. At present 132kV Sonenagar-Rihand (UP,NR) Circuit-I remain charged on No Load from Sonenagar end & open at Rihand (UP) end.

BSPTCL requested for LILO Connection of 132 KV Sonenagar-Rihand(UP,NR) Circuit-I transmission line at NPGC ,Nabinagar for providing start up power.

In 131st OCC, BSPTCL informed that NPGC, Nabinagar has applied for 65 MVA start up power and initially they will draw around 5-10 MW power through 132 kV Sonenagar-Rihand-I line LILOed at NPGC, Nabinagar. It was also pointed that 132kV Sonenagar-Rihand (UP,NR) Circuit-I is lying idle charged since last 5-6 years and presently it remains charged on no load from Sonenagar end & open at Rihand (UP) end.

Further, BSPTCL added that in order to cater the start up power from Sonenagar end they are strengthening the 132 kV Sonenagar GSS with double moose conductor which will be completed by March, 2017.

It was informed that NPGC, Nabinagar will only draw startup power for commissioning activities through the above LILO as an interim arrangement and injection of power/trial-run will be done after the completion of 400 kV ATS of NPGC, Nabinagar

OCC agreed for commencement of start up power through LILO of 132kV Sonenagar-Rihand-I line at NPGC, Nabinagar as consumer of BSPTCL and as an interim arrangement subject to the consent of NRPC.

Further, it was decided that the now the inter-regional tie-line will be 132 kV NPGC, Nabinagar-Rihand and requested Powergrid to install a new SEM at NPGC, Nabinagar end for accounting purpose.

Subsequently, ERPC vide letter dated 28.03.2017 requested NRPC to do the needful for LILO connection of inter-regional tie line 132kV Sonenagar-Rihand (UP,NR) Circuit-I at NPGC, Nabinagar at the earliest

In 132nd OCC, BSPTCL informed that the LILO part is ready and the strengthening part will be completed by end of April, 2017 however, the consent of NRPC is yet to be received.

Further, it was informed that the new SEM at NPGC, Nabinagar end for accounting purpose has been installed on 20.04.17.

*ERPC vide letter dated 09.05.17 has given the confirmation to SLDC, UPPTCL that as per the decision of OCC, NPGC is going to start availing the start up power from BSPTCL by closing Sonenagar-NPGC 132KV LILO section of 132kV Sonenagar-Rihand-I line keeping the line open at Rihand end. The letter is attached at **Annexure-B.25**.*

In 133rd OCC, BSPTCL informed that Sonnagar-NPGC 132KV LILO section of 132kV Sonnagar-Rihand-I line was charged on 12th May 2017.

ERLDC advised BSPTCL to ensure the data availability of power flow.

BSPTCL/NPGC may update.

Item No. B.26: Time correction of SEMs in Eastern Region – Replacement of heavily drifted SEMs

The issue was discussed in 35th TCC/ERPC meetings and it was felt that the meters with severe drift greater than 10 min need to be replaced first and if replacement is done with Genus then readings are to be collected manually using Laptop till interfacing with AMR is completed.

35th ERPC advised Powergrid to replace the 10% of the heavily drifted SEMs with new Genus make meters and monitor the performance of the Genus meters. Powergrid should present this performance before constituents and subsequently the decision on replacement of the other time drifted meters will be taken up.

ERPC also advised Powergrid to place the list of 10% of the heavily drifted SEMs to be replaced with Genus make meters in next OCC meeting.

Subsequently, ERLDC has prepared a list of such SEMs, the same is placed at **Annexure- B.26**.

In 131st OCC, Powergrid informed that they have already started meter replacement work and all highly drifted meters as per list will be replaced by 1st week of April, 2017.

Powergrid also informed that the present list of drifted SEMs were of Powergrid sub-stations which are being replaced. Further, Powergrid agreed to send the weekly data of newly installed SEMs to ERLDC by every Tuesday till the integration of Genus meter with AMR system by TCS,

*In 132nd OCC, Powergrid updated the status for ER-II which is enclosed at **Annexure-B.26A**. ER-I informed that the SEM of Ranchi & Muzaffarpur has been replaced and rest are in progress.*

OCC advised to submit the status for ER-I and Powergrid-odisha.

In 133rd OCC, Powergrid informed that 22 meters were replaced except Purnea.

ERLDC informed that the performance of 22 newly installed meters are satisfactory and suggested that all other meters can be replaced.

OCC advised Powergrid to replace next 10% of heavily drifted meters as per the list.

*The list as shared by ERLDC is attached at **Annexure-B.26C**.*

Powergrid/ ERLDC may update.

Item No. B.27: Testing / Calibration of Main and Check Energy Meters -- DGPC

In 132nd OCC, DGPC representative explained the matter and informed that as per their guidelines the energy meters need to be checked/ calibrated at intervals of twelve months as per PPA.

DGPC also requested for the test reports of energy meters which are owned by PTC/Powergrid.

Powergrid informed that as per CEA metering regulations the interval for checking of energy meters is five years.

OCC advised Powergrid to furnish all the relevant documents and last test reports of the meters to DGPC and resolve the matter at the earliest.

DGPC vide mail informed that till date POWERGRID has not submitted the relevant documents of CEA and the last test reports for energy meters.

Further it was learnt that POWERGRID has replaced the main energy meters of 400kV Tala-Siliguri Feeder No. I & IV at Binaguri end on April 21, 2017 and the main energy meters of 220kV Chhukha-Birpara Feeder No. II & III at Birpara end on April 20, 2017 without any intimation to Tala Hydropower Plant (THP), Chhukha Hydropower Plant (CHP)/DGPC. As per sub clause No. 5.3 of Power Purchase Agreement (PPA) "Any change in metering system/methodology shall be carried out with concurrence / mutual agreement between the two parties". Therefore THP and CHP vide letter No. DGPC/THP/SE(O&M)/E-1/2017/855 dated April 28, 2017 (Annexure-A) and letter No. DGPC/CHP/CE/TC-2/2017/1652 dated May 08, 2017 (Annexure-B) has requested PTC to submit the reason for replacement of energy meters by violating the relevant clause of PPA. PTC vide letter No. PTC/MTFG/ERLDC/421 dated May 01, 2017 (Annexure-C) has referred the matter to POWERGRID to provide the reason for replacement of energy meters of 400kV Tala-Siliguri Feeder I & IV at Binaguri end without any intimation to THP especially when POWERGRID during CCM held on February 06, 2017 had intimated that all energy meters at Binaguri end were checked and found OK by POWERGRID.

Therefore DGPC request OCC to pursue with PTC/POWERGRID to provide proper justifications for replacement of above energy meters without informing DGPC and to henceforth respect all the provision of PPA and intimate DGPC in advance regarding testing/replacement of their main and check energy meters for all feeders connected to Bhutan system. As informed earlier the non-adherence to the above important clause of PPA shall invite serious audit observation for DGPC.

In 133rd OCC, Powergrid informed that the replacement of above main energy meters at Binaguri S/s were done as per the 35th ERPC/TCC decision as the meters were heavily time drifted. The list was circulated in 130th OCC meeting.

Powergrid added that the same was communicated to PTC.

OCC advised Powergrid to intimate DGPC/Bhutan whenever they intends to do any work/testing related to the meters of the above lines.

Powergrid agreed.

DGPC vide mail dated 19th June 2017 informed that POWERGRID was supposed to furnish necessary copy of CEA guidelines and the last test reports of the energy meters to DGPC by 1st week of May 2017. However till date PTC/POWERGRID has neither submitted the relevant documents of CEA nor the last test reports for energy meters. PTC/POWERGRID is requested to submit the same immediately to enable to take action to amend the PPA accordingly.

Further, during 133rd OCC, the issue of replacement of the main energy meters of 400kV Tala-Siliguri Feeder No. I & IV at Binaguri end and the main energy meters of 220kV Chhukha-Birpara Feeder No. II & III at Birpara end by PTC/POWERGRID without informing DGPC was also raised and PTC/POWERGRID was requested to submit the energy meter details along with the test report for the new replaced Genus make energy meters. The same has not been received till date and it is requested to submit the same immediately for DGPC's record and audit purpose.

DGPC/Powergrid may update.

Item No. B.28: Integration of Genus Make meter in AMR-- ERLDC

In Eastern Region, order for procurement of 965 no of SEM's was placed with M/s Genus Power. First Lot of the meters have already been delivered by Genus and 24 meters of Genus make meter has been installed in different substation in ER.

Issue of Integration of Genus make meters in AMR system was discussed in meeting held with PGCIL, ERLDC, M/s Genus, & M/s TCS on 02.03.17 at ERLDC. M/s TCS informed that they have done the AMR integration test with Genus meter and informed that communication with existing Genus meter for AMR integration couldn't be established. Moreover M/s TCS had informed that they will try the subsequent steps for communication with Genus meter and update ERLDC & PGCIL accordingly.

In 132nd OCC, Powergrid informed that as per their communication with M/s TCS, integration of Genus meters in AMR system is possible, but it will take some more time to establish the communication.

In 133rd OCC, Powergrid informed that it will take some more time and asserted it will be done by June, 2017.

Powergrid may please update the status.

Item No. B.29: Non Receipt of meter Data -- ERLDC**1. Motipur & Samastipur in BSPTCL**

220 KV Darbhanga(DMTCL)-Motipur (BSPTCL) D/C Line & 220 KV Darbhanga(DMTCL)-Samastipur (BSPTCL) S/C Line has already been charged and synchronized in April'17. Meter has been installed at BSPTCL end. BSPTCL was requested to send SEM data to ERLDC by every Tuesday. It has been seen that in spite of ERLDC request BSPTCL is not sending the data of Genus Meter installed at Motipur & Samastipur.

In 133rd OCC, ERLDC informed that the Genus meter software is available in ERLDC website and it can be installed in Laptop. The SEM data can be downloaded through Laptop.

BSPTCL agreed to send the SEM data after downloading the software.

ERLDC informed that BSPTCL is sending data of Motipur end but Samastipur end data is still pending.

BSPTCL may update.

2. Jeynagar meter data at OPTCL

Jeynagar end meter NP-5964-A for 220 KV Jeypore(PG) Line-2 is not being sent from OPTCL since last 2 month. Moreover, the above meter is also not reporting in AMR. Matter is already informed to OPTCL as well as PGCIL. In absence of meter data end to end data validation is not possible.

In 133rd OCC, OPTCL & PGCIL were advised to check the SEM and resolve the issue at the earliest.

OPTCL & PGCIL may please respond.

3. Chandil meter at JUSNL

Chandil end meter NP-7434-A of 220 KV Ranchi (PG) Line is not recording any data since last one month. PGCIL Ranchi was requested to check the meter healthiness. However problem is still persisting.

In 133rd OCC, Powergrid informed that SEM is healthy and there may be connection problem.

OCC advised JUSNL to check the meter connections.

JUSNL may update.

Item No. B.30: Replacement of old RTU in Eastern Region for reporting of RTU / SAS to back-up control centre

The matter for replacement of old RTU in Eastern Region for reporting to back up control centre has been discussed in a special project review meeting held on 14th February 2017 at ERPC & also on 35th TCC/ERPC meeting held on 24th / 25th February 2017, It was also mentioned that there would not be any service support for the old RTUs from POWERGRID after 15 years of operation period. It was accordingly advised to ERLDC to form a committee with POWERGRID as a nodal agency for assessment of such old RTUs vis-a-vis further action plan on replacement. It was also advised to submit a report in the next TCC/ERPC meeting.

The matter for replacement of old RTU in Eastern Region for reporting to back up control centre has been discussed again in 19th SCADA O&M meeting held at ERLDC, Kolkata on 07th April 2017, wherein nomination of nodal person name from OPTCL, WBSETCL, DVC, BSPTCL, JUSNL, POWERGRID ERTS-1, POWERGRID ERTS-2, ERLDC, MPL & Jorethang has been collected.

Nomination from NTPC all stations including Nabinagar, NHPC all stations, Dikchu, Teesta-III, Chuzachen, JITPL, GMR, Ind Bharat & APNRL are yet to be provided. ERLDC has already issued letter ref no: ERLDC / SCADA O&M / 2017/ dated 11.04.2017 for the same. It is requested to provide the nomination from these stations.

OCC requested all the respective members to nominate their representatives at the earliest.

In 133rd OCC, OCC advised NHPC to submit the nomination list at the earliest.

ERLDC informed that a meeting has been scheduled on 09th June 2017 to discuss the above matter and requested all the constituents to send their nominated members to attend the meeting.

Members may update.

Item No. B.31: Shifting of communication links for PMUs reporting to ERLDC--ERLDC

Presently, PMUs locations at Farakka, Talcher, Jamshedpur, Ranchi, Binaguri, Durgapur, Rourkela & Jeypore are reporting through Alcatel Mux using E1 – Ethernet convertor at both end. In case of fibre cut between Kasba to ERLDC, all the 8 nos PMUs data stopped reporting to ERLDC (happened on 16/May/2017 from 04:25 Hrs to 12:49 Hrs). There is no redundant path provided for these communication links. So, it is requested POWERGRID to shift these PMUs' communication path / equipment so that the protection path of ULDC network would be used and this type of outage could be avoided. Communication link for Patna PMU is taken from PowerTel. It is also requested to POWERGRID that communication path may also be shifted for Patna PMU so that PowerTel communication could be removed.

In 133rd OCC, PGCIL informed that they will look into the matter.

PGCIL may update.

Item No. B.32: Update on status of telemetry

CERC vide order dated 28.02.2016 on Petition No. 007/SN/2014 directed NLDC and respective RLDCs to update the status of telemetry every month at their respective websites and take up the issue of persistent non-availability of data from Generating Stations/substations at RPC meetings for appropriate action.

In 120th OCC, ERLDC informed that every month they were updating the status and posting at ERLDC website.

133rd OCC advised all the respective constituents to ensure the availability of telemetry data to ERLDC.

Members may update.

Frequent failure of JITPL data to ERLDC:

Real time SCADA data from JITPL is frequently failing (*May-17: 24% & June-17 (up to 18th): 63%*). It was observed that

- Microwave terminal equipment at Talcher HVDC end is getting hanged quite frequently causing failure of real time data to ERLDC.
- The direct line from JITPL to Angul 765/400 kV pooling station is available but real time SCADA data is yet to be diverted through this path.
- The voice connectivity from JITPL to ERLDC is yet to be provided / integrated with Hot Line Voice Communication installed by M/s Orange.

The same was informed to JITPL several times verbally and through a letter vide ref no: ERLDC/SL/2017-18/621 dated: 3rd May 2017 but it is yet to be diverted / provided.

JITPL may update.

Item No. B.33: Installation of PMUs in Eastern Region under URTDSM project

LOA for installation of PMUs in Eastern Region under URTDSM project was awarded to M/s Alstom on 15th January 2014. The contract has to be completed in all respect within 24 months from the award. The status of implementation may be informed since PMU data is very much important to real time shift operator for analyzing the security of the grid.

OCC advised Powergrid to submit a report on latest status of implementation and advised to update the status on every OCC.

In 131st OCC, Powergrid submitted the latest status of PMU installation.

*The updated status as furnished in 132nd OCC by Powergrid is given at **Annexure-B.33**.*

POWERGRID may update the status.

Item No. B.34: Status of Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipment.

The status of DR/EL and GPS as updated in previous OCCs is enclosed at **Annexure-B.34**.

Constituents are also requested to furnish their list of new DR/EL which are not included in the list.

Members may update.

Item No. B.35: Status of Emergency Restoration System (ERS Towers) for Eastern Region constituents

The latest status of Emergency Restoration System (ERS towers) as well as the future plan of procurement was given at **Annexure- B.35**.

Members may update the latest status.

Item No. B.36: Availability of Hot Line Voice Communication--ERLDC

Hot line voice communication from Subashgram, Purnia 220, Baharampur, Biharsarif, Patna, Jeypore, Dalkhola, Birpara, Daltonganj, Kisanganj, Indrabati, Bolangir & Pandiavil are either not yet provided or not working since last couple of days. It is requested to POWERGRID to rectify the same at the earliest.

In 133rd OCC, Powergrid agreed to look into.

Powergrid may update.

Item No. B.37: Erection and commissioning of 02 nos. of 220 kV line bays at KBUNL

Presently 220 KV KBUNL- Samastipur (new) (D/C) & 220 KV KBUNL - Motipur (D/C) tr lines have only one 220 KV bays each at KBUNL end since long & due to this one circuit each from KBUNL to Samastipur (new) & KBUNL to Motipur remain unutilised.

Due to unavailability of these bays at KBUNL end, BSPTCL is facing difficulties for synchronising 220 KV line at KBUNL. This results in high voltage during off-peak hours. As observed in system study taking these circuits in loop at KBUNL will result in increment of 220 kV system voltage (which goes down to 206 kV during peak hours) at Darbhanga (New) by 3-4 kV. So keeping these lines in loop at KBUNL will enhance the reliability and stability of system.

So KBUNL (NTPC) may be instructed to complete the 02 nos. Of 220 kV line bays at KBUNL end at the earliest.

In 133rd OCC, Representative of KBUNL mentioned that contract, for execution of the said job, was awarded to M/S GET Power (Sister concern of M/S Techpro Systems Ltd.). However, due to worsening of financial condition, M/S GET failed to complete the work and left the work in between. KBUNL made all out efforts to get the vendor (M/S GET Power) on job but all its efforts met with little success.

He placed on record that, keeping in view of the fact that complete material for execution of the job was available at site, KBUNL had earlier requested BSPTCL to take up the job as BSPTCL has engaged various agencies for similar type of work. He also mentioned that BSPTCL had earlier agreed to take up the job on deposit basis.

He further mentioned that, KBUNL has started the process of termination of contract to M/S GET Power as well as for award of fresh contract for completion of remaining work. However, keeping in view the urgency of the work and also that awarding fresh contract and mobilization of resources may take some time, KBUNL representative again requested BSPTCL to take up the job on deposit basis.

BSPTCL representative informed that they will send some vendor/contractor for taking up the job.

BSPTCL vide mail dated 17th June 2017 informed that BSPTCL has tried but there other major works besides bay construction work. BSPTCL requested KBUNL to take up this work on its own in their own switchyard. Moreover, this bay construction will also remain helpful for KBUNL for evacuation of its generated power.

KBUNL and BSPTCL may update.

Item No. B.38: Bus and bay strengthening at Purnea (PG)

Reconductoring of 132 kv Purnea (PG)-Purnea (BSPTCL) (T/C) transmission line from Panther to HTLS conductor has already been completed and line is charged. Now each circuit capacity is 1000 Amp. i.e. 200 MW. .

It has been planned to test the line by its loading, which requires compatibility of 132 kV main bus bar, bay etc at either Purnea (PG) and Purnea GSS end.

In BSPTCL for Purnea GSS end order has been awarded for R&M of GSS, which includes the work of bus bar & bay strength. These works are expected to be completed by 30.6.107.

For drawing optimum power at Purnea (PG) end, bus & bay strength must remain sufficient to sustain load.

PGCIL is requested to confirm status of its 132 kV bus bar, bay etc.

Powergrid may update the status.

Item No. B.39: WBSETCL Agenda

1. Web based scheduling page cannot be accessed by any other browser other than google chrome
2. Non publication of ERLDC final schedule since introduction of WEB based scheduling and repeated revision of last revision

In 133rd OCC, ERLDC informed that Google Chrome browser is having advanced features in which user can get maximum features of WBS software. However user can open WBS in other browser with less features. Further, they assured to pursue the issue with the developer.

Members may discuss.

Item No. B.40: Statutory clearances of 400kv transmission line of IBEUL at the crossing points over the MGR rail corridor of OPGC

OPGC vide letter dated 03.03.2017 intimated that OPGC is pursuing construction of 2x660MW Thermal Power Plant at Ib-Thermal Power Station in the district of Jharsuguda, Odisha. The plant location is in close proximity to IBEUL's power plant located in the same area. Construction work of OPGC's expansion project is in very advanced state with a scheduled commissioning in 3rd Qr. of FY 2017-18. OPGC's expansion project includes construction of a dedicated rail corridor (MGR) connecting the power plant to its captive coal mines in Sundergarh. The alignment of the MGR has been finalized in 2009 and land acquisition has been completed. The MGR is presently under construction.

IBEUL has constructed its 400kV transmission line for evacuation of power which is crossing the MGR corridor of OPGC. This 400 KV transmission line has been constructed by IBEUL without maintaining the required statutory clearance at four locations (involving tower footing location and maintaining vertical clearance for conductors). This has been communicated to IBEUL at the time when the transmission line construction was yet to be undertaken. It is a matter of regret that in spite of several discussions and commitments by IBEUL, they have failed to comply with the statutory clearances during the construction of towers. As a result, the construction of the MGR corridor of OPGC is getting delayed due to failure of IBEUL to complete the rectification work of the 400kV transmission line at the crossing points and this is seriously affecting the commissioning schedule of OPGC expansion power plant.

In view of the above, OPGC requested to keep on hold all clearances for charging of the 400 kV transmission lines of IBEUL till the rectification works at the affected crossing points are completed

in compliance with all the statutory requirements. This will facilitate completion of the construction work of the MGR system of OPGC as per schedule.

In 131st OCC, IBEUL informed that the issue has been discussed with Govt. of Odisha and they have already placed an order for extending the tower heights for maintaining the statutory clearances and the work will be completed by May, 2017.

OCC advised IBEUL to get fresh clearance from CEA for the complete line including the said crossing points over the MGR rail corridor of OPGC before commissioning the line.

In 132nd OCC, It was informed that the RIO, CEA clearance was given upto 30.06.2017 and IBEUL has to complete the tower extension work before 30.06.2017.

IBEUL informed that the work is in progress and it will be completed as per the schedule i.e. by 30.06.2017.

*OPGC vide letter dated 16th June 2017 informed that their construction work is held up due to inadequate clearance at crossing locations. Letter is enclosed at **Annexure-B40**.*

OPGC/IBEUL may update.

Item No. B.41: Pollution mapping for Eastern Region

The Pollution Mapping work in ER was started with on-site measurement of ESDD and NSDD.

OCC advised all the respective constituents to coordinate with Powergrid for online filling of measurement data.

Powergrid updated the latest status as follows:

	Scope (no. of locations)	Installed Locations	1st set of Measurements submitted	2nd set of Measurements submitted	3rd set of Measurements submitted	4 th set of Measurements submitted	5 th set of Measurements submitted
JUSNL	67	27	17	17	13	15	24
BSPTCL	59	52	40	29	4	3	0
WBSETCL	73	68	43	4	3	1	1
OPTCL	164	102	100	90	79	78	24
SIKKIM POWER	12	9	6	6	0	0	9
POWERGRID ER1	99	99	99	47	0	15	0
POWERGRID ER2	40	40	40	40	24	0	0
POWERGRID ODISHA	42	42	42	42	40	40	0

Powergrid added that they prepared an online format to submit the details of measurements. Powergrid requested to fill the Google form(<https://goo.gl/6375HJ>) for onward submission of measurements for better analysis of results.

Further, the schedule for measurement as informed vide letter dated 20.01.2016 & mail dated 21.01.2016 are as follows:

Measurement Schedule		
<i>4th set</i>	<i>5th set</i>	<i>6th set</i>
<i>21st -30th Sep 2016</i>	<i>21st -31st Jan 2017</i>	<i>21st -31st May 2017</i>

OCC advised all the constituents to complete the measurements as per the schedule.

It is also requested to send the onward measurement results to following emails in addition to current email ids

1. vbhaskar@powergridindia.com
2. ritesh.kumar@powergridindia.com

Members may update.

Item No. B.42: Mock Black start exercises in Eastern Region – ERLDC

i) The status of black start exercises

The tentative schedule of black-start exercises for F.Y 2017-18 is as follows :

SI no	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	U.Kolab	Last week of May, 2017	May, 2017	Last Week of January2018	30 th May 2017
2	Maithon	1stweek of June 2017	Completed on 04.04.17	1stWeek of February2018	
3	Rengali	2ndweek of June 2017		Last week of November 2017	
4	U. Indarvati	3rdweek of June 2017		2ndweek of February2018	
5	Subarnarekha	1stweek of October 2017		1stweek of January2018	
6	Balimela	3rdweek of October 2017		1stweek of March 2018	
7	Teesta-V	2ndweek of Nov 2017		Last week of February2018	
8	Chuzachen	Last Week of May2017	May, 2017	January2018	
9	Burla	Last Week of June 2017	May, 2017	Last week of February2018	
10	TLDP-III	1stWeek of June 2017		2ndWeek of January2018	
11	TLDP-IV	Last Week of June 2017		1stWeek of February2018	

Members may update.

Testing of DG sets meant for Black start

Test run report of DG sets for blackstart has been received only from Odisha hydro units. The test run reports of other machines may be sent to erldc.cal@gmail.com and erldcoutage@gmail.com.

Constituents may kindly ensure compliance.

Item No. B.43: Restricted Governor /Free Governor Mode Operation of generators in ER

The latest status of units of ER under RGMO is available at ERPC website (<http://www.erpc.gov.in/>) under Operation>Important data.

In 126th OCC requested all the generators to share their governor response with ERLDC in the group (https://in.groups.yahoo.com/neo/groups/er_gov_respons/info). Members may also send their request for joining the group to erldcprotection@gmail.com.

ERLDC had uploaded the unit wise responses in the group "er_gov_respons@yahoogroups.co.in." i.r.o the following events for monitoring of RGMO response of generator:

- 1) On 09-05-17, at 1642 hrs, generation loss of 1180 MW took place at JP Nigrie Unit-I & II due to loss of evacuation lines.
- 2) On 18-05-17 at 08:02 hrs, all generating units at Rihand tripped and both buses became dead. Generation loss 2700 MW.
- 3) On 20-05-17 at 20:06 hrs, 2000 MW generation loss at Chavra/Anta generation complex at Rajasthan due to fault at 765 kV Anta - Phagi – II.
- 4) On 23-05-17 at 17:43 hrs, 1500 MW generation loss at vindhyachal.

ERLDC may update.

CERC vide their letter dated 05-06-17 desired to know the present status of RGMO/FGMO response of all eligible thermal and hydro units. Accordingly ERLDC vide letter no.ERLDC/SS/FGMO/2017 dated 07-06-17 requested all concerned power stations and SLDCs to provide updated status of FGMO/ RGMO of units under their control.

Reply has been received from Gati, JLHEP, HEL and STPS (WBPDC), which are summarized below:

<i>Power Station</i>	<i>Organization</i>	<i>Status of FGMO/RGMO</i>
Santalidih TPS	WBPDC	Not in service
Haldia TPS	HEL	Operating in FGMO
JLHEP	DANS Energy	Not in service (RoR project with 3 hours pondage)
Chujachen HEP	Gati Infra	Not in service (RoR project with 3 hours pondage)

Recently commissioned generators Teesta – III of TUL and Dikchu of Sneha Kinetic Energy Limited are advised to inform their status of RGMO/ FGMO implementation.

Members may update.

Item No. B.44: Reactive Power performance of Generators

Generating stations have been monitored for certain sample dates in the month of May,17.

Power Plant	Max and Min Voltage observed for May 17 (KV)	Date for monitoring (May 17)
Farakka STPS	424,402	1,2
Khalgaon STPS	424,405	9,27
Talcher STPS	408,394	2,21
Teesta	424,393	3,11
Bakreshwar TPS	414,390	2,16
Kolaghat TPS	425,397	2,16
Sagardighi TPS	425,403	2,27
MPL	419,408	1,27
Mejia-B	422,411	1,27
DSTPS	426,413	16,18
Adhunik TPS	421,408	2,21
Barh	439,408	9,27
JITPL	414,402	21,23

GMR	413,401	13,28
Kodarma	426,402	9,27

ERLDC may present the reactive performance.

a) Schedule for reactive capability tests

The following was status of regarding reactive capability testing:

- a. Adhunik TPS(both units) –Yet to be confirmed by Adhunik
- b. DSTPS (Unit#2 only pending) – done
- c. Koderma TPS Unit#1 -- done on 08.08.2016
- d. JITPL(both units) – Procedure given. Not yet done
- e. Barh TPS – In June 2016
- f. *Raghunatpur (both units)*
- g. *GMR (Three units)*
- h. *Haldia TPS (Unit #4)*

Members may update.

PART C:: OPERATIONAL PLANNING

Item no. C.1: Anticipated power supply position during July'17

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of July'17 were prepared by ERPC Secretariat on the basis of Provisional LGBR for 2015-16 and feedback of constituents, keeping in view that the units are available for generation and expected load growth etc. is at **Annexure-C.1**.

Members may confirm.

Item no. C.2: Shutdown proposal of transmission lines and generating units for the month of July'17

ERLDC informed that as per the outage procedure for transmission elements which was approved in 83rd OCC and minutes of 131st OCC, all indenting agencies were still not submitting OCC approved transmission element outages to ERLDC in 3 day advance for outage processing, which causes a lot of inconvenience to coordinate with multiple agencies and also to carry out system study before approve the outage request. In this regard, it is advised to submit the OCC approved outage request to ERLDC as per the outage procedure (at least 3 days advance) for final approval from ERLDC side. BSPTCL, OPTCL & JUSNL are also advised to submit outage request of their 400 kV state lines and tie lines for OCC meeting discussion, approval and also follow the same outage procedure while indenting for the OCC approved outage.

Members may finalize the Shutdown proposals of the generating stations for the month of July'17 as placed at **Annexure-C.2**.

ERLDC may place the list of line shutdown. Members may confirm.

1. Insulator Replacement programme for the month of July'2017.

The Schedule of insulator replacement submitted by Powergrid Odisha projects for June 17 is enclosed at **Annexure-C2.1**.

For all above places conventional porcelain insulator will be replaced by Composite Long Rod Insulator. Placed before members for discussion and subsequent consideration of the outages as deemed availability.

Members may approve.

Item no. C.3: Prolonged outage of Power System elements in Eastern Region

(i) Generating units:

Sr No	Generating Station	UNIT NO	CAP(MW)	REASONS FOR OUTAGE	OUTAGE DATE
1	KHSTPP	4	210	OVER HAULING	28-May-17
2	BOKARO A	1	500	SHORT MAINTENANCE	12-Jun-17
3	JITPL	1	600	COAL SHORTAGE	5-May-17
4	RAGHUNATHPUR	2	600	COAL SHORTAGE	23-Mar-17
5	RAGHUNATHPUR	1	600	LEAKAGE IN FEED WATER VENT LINE	12-Jun-17
6	PATRATU TPS	10	110	OVER HAULING	26-Jan-17
7	KOLAGHAT	2	210	DESYN DUE TO POLLUTION ISSUE	24-Feb-17

8	KOLAGHAT	3	210	DESYN DUE TO POLLUTION ISSUE	22-Feb-17
9	KOLAGHAT	6	210	STATOR EARTH FAULT	11-Jun-17
10	SAGARDIGHI	4	500	COAL SHORTAGE	12-May-17
11	BOKARO B	1	210	BOILER TUBE LEAKAGE	11-Apr-17
12	CTPS	2	130	HIGH TURBINE BEARING VIBRATION	1-Jun-17
13	CTPS	3	120	BOILER TUBE LEAKAGE	13-Jun-17
14	MEJIA	3	210	DESYN FOR LOW SYSTEM DEMAND	18-Jun-17
15	MEJIA	4	210	DESYN FOR LOW SYSTEM DEMAND	30-May-17
16	GMR	1	350	COAL SHORTAGE	13-May-17
17	SANTALDIH	5	250	ROTOR EARTH FAULT	30-Apr-17
18	KODERMA	1	500	BOILER TUBE LEAKAGE	16-Jun-17
19	TENUGHAT	1	210	COAL SHORTAGE	14-Jun-17

(ii) Transmission elements

Transmission Element / ICT	Outage Date	Reasons for Outage
220 KV BALIMELA - U' SILERU	27.04.15	LINE IDLE CHARGED FROM UPPER SILERU END AT 12:42 HRS OF 25.01.17
400 KV PATNA-KISHANGANJ D/C	26.07.16	TOWER COLLAPSED AT LOC NO 51
400 KV BIHARSARIFF-PURNEA- I & II	23.08.16	THREE NUMBER OF TOWERS ARE BADLY DAMAGED AT LOC, 46/9, 47/0 & 47/1 (In the mid of river Ganga).
220KV WARIA - BIDHANNAGAR-II	10.09.16	LINE UNDER B/D, TOWER COLLAPSED AT LOC NO 28
400 KV STERLITE - MERAMUNDALI D/C	15.05.17	TOWER CROSS ARM DAMAGED
765 KV GAYA VARANASI-I	17.05.17	TOWER COLLAPSE AT LOC NO 66, 67, 68. PEAK TOWER AT LOC 65 damaged

Members may update.

Item no. C.4: Status of commissioning of generating station and transmission elements

New generating units:

S.No.	Power Plant	Plant Size	Expected date

New transmission elements:

SI No.	Name of Element	Expected date
1	400kV Rajarhat-Purnea D/C (with LILO of one circuit each at Farakka and Gokarno)	
2	Augmentation of 400kV Farakka-Malda D/C with HTLS conductor	
3	400kV Ind-Bharath-Jharsuguda D/C	
4	400kV Talcher-Bramhapur-Gazuwaka D/C	
5	400kv Talcher-Rourkella(2 nd D/C-Quad)	
6	400kV Sterlite-Jharsuguda D/C	
7	765kv Anugul-Srikakulum D/C	
8	400kV Sasaram-Daltonganj D/C & Daltonganj S/Stn	
9	400 kV Ranchi-Raghunathpur D/C	
10	220 kV TLDP-IV – NJP ckt-2	
11	220 kV Bidhansai-Cuttack D/C	
12	220kV Gola- Ranchi	

Members may update.

Item no. C.5: ER Grid performance during May, 2017

The average consumption of Eastern Region for May-2017 was 403 Mu. So far maximum consumption achieved was 434 Mu on 25th May, 2017. Total Export schedule of Eastern region for May-2017 was 2334 Mu, whereas actual export was 2194 Mu. Eastern region over drawl for the full month was 139.84 Mu.

ERLDC may present.

PART D:: OTHER ISSUES**Item no. D.1: UFR operation during the month of May'17**

System frequency touched a maximum of 50.32 Hz at 18:03 Hrs of 21/05/17 and a minimum of 49.64 Hz at 15:11 Hrs of 11/05/17. Accordingly, no report of operation of UFR has been received from any of the constituents.

Members may note.

Item no. D.2: Non-compliance of directions issued by SLDC

Vide clause no 5.5.1.(c)(h) of IEGC, non-compliance of SLDC directions by SEB/Distribution licenses/bulk consumers to curtail overdrawal are to be reported to ERLDC for incorporating the same in weekly report to be prepared and published by ERLDC.

All SLDCs are to inform ERLDC the instances of non-compliance of SLDC directions by SEB/Distribution licenses/bulk consumers to curtail overdrawal, within two days after the day of operation.

No report from any constituent has yet received. Hence, ERLDC would be considering 'Nil' report for all constituents for May'17.

Members may note.

Item no. D.3: Grid incidences during the month of May, 2017

ERLDC may place the details.

Item no. D.4: Additional agenda

2017

Vidyut MODE App for POSOCO

Vikiraj Hinger, CruxBytes Consultancy Services
V0.2

[VIDYUT MODE CMS]

This document details the workflow for an admin who can access it with the valid credentials.

Login Page

This will be a secured login page. Only authorized users will be given credentials by POSOCO team which will be shared with each state users. Login credentials of the respective users will be shared by POSOCO team separately over email.

The software is accessible from: <http://vidyutmode.in/login>



GOVERNMENT OF INDIA
MINISTRY OF POWER

Vidyut MODE
Merit Order Despatch of Electricity

Sign In to Data Entry Portal for MODE

PNBSA101

LOG IN


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Daily Merit Order Data


- Option for selection of date to proceed filling the data. This data can be filled by each state owner's for their respective states.

The screenshot displays the VidyutMODE web application interface. At the top, the header includes the Government of India Ministry of Power logo, the text "GOVERNMENT OF INDIA MINISTRY OF POWER", the "VidyutMODE" logo, and a user profile "MHASA101". A left sidebar contains navigation links: "DAILY DATA UPLOAD", "PROCUREMENT DAILY DAT...", "MONTHLY DATA UPLOAD", and "STATION DETAILS". The main content area features a form titled "UPLOAD DAILY DATA". This form includes a "Select State" dropdown menu currently set to "Maharashtra", a "Select Date" input field showing "20/06/2017" with a calendar icon, and a "GO" button. A large, diagonal "CONFIDENTIAL" watermark is overlaid across the lower portion of the page.

- b. Load page with existing data. If data is not present, then only master values will be shown, and rest can be entered by the user



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DAILY DATA UPLOAD

PROCUREMENT DAILY DAT...

MONTHLY DATA UPLOAD

STATION DETAILS

v


UPLOAD DAILY DATA

Select State

Maharashtra

Select Date

19/06/2017



GO

No	Name of Power Station	Owner	Fixed Cost (Rs/Unit)	Variable Cost (Rs/Unit)	Total Cost (Rs/Unit)	Capacity Allocated to State (MW)	Declared Availability/Entitlement (MWh) (State Proportion)	Schedule (MW)	Schedule Outside Merit Order (Y/N)	Quantum (MW)	Reason for Deviation, if any	Remarks		
1	KAPS	Central ISGS	-	-	-	143.60	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	No ▼	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	SAVE
2	TAPS 384	Central ISGS	-	-	-	400.21	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	No ▼	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	SAVE
3	KSTPS 7	Central ISGS	-	-	-	127.95	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	No ▼	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	SAVE
4	KSTPS	Central ISGS	0.66	1.30	1.96	625.53	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	No ▼	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	<div style="border: 1px solid #ccc; width: 40px; height: 20px;"></div>	SAVE

c. Easy interface to update each row of data. Click on Edit to make data entry

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DAILY DATA UPLOAD									
PROCUREMENT DAILY DAT...									
MONTHLY DATA UPLOAD									
STATION DETAILS									

7	VSTPS-STG-IV	Central ISGS	1.58	1.41	3.00	306.88	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
8	VSTPS-STG-III	Central ISGS	1.06	1.41	2.47	280.78	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
9	VSTPS-STG-II	Central ISGS	0.68	1.42	2.10	338.27	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
10	VSTPS-V	Central ISGS	1.64	1.42	3.06	166.04	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
11	VSTPS-STG-I	Central ISGS	0.83	1.51	2.34	421.06	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
12	GANDHAR APM	Central ISGS	1.05	1.77	2.83	195.36	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
13	KAWAS APM	Central ISGS	0.84	1.83	2.67	199.21	-	-	No	-	<input type="text"/>	<input type="text"/>	EDIT ✓
14	GANDHAR NAPM	Central ISGS	1.05	2.04	3.09	195.36	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE

d. On successful save, a green tick will be shown

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DAILY DATA UPLOAD

PROCUREMENT DAILY DAT...

MONTHLY DATA UPLOAD

STATION DETAILS

7	VSTPS-STG-IV	Central ISGS	1.58	1.41	3.00	306.88	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
8	VSTPS-STG-III	Central ISGS	1.06	1.41	2.47	280.78	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
9	VSTPS-STG-II	Central ISGS	0.68	1.42	2.10	338.27	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
10	VSTPS-V	Central ISGS	1.64	1.42	3.06	166.04	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
11	VSTPS-STG-I	Central ISGS	0.83	1.51	2.34	421.06	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
12	GANDHAR APM	Central ISGS	1.05	1.77	2.83	195.36	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE
13	KAWAS APM	Central ISGS	0.84	1.83	2.67	199.21	-	-	No	-	<input type="text"/>	<input type="text"/>	EDIT
14	GANDHAR NAPM	Central ISGS	1.05	2.04	3.09	195.36	<input type="text"/>	<input type="text"/>	No ▼	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE

Power Procurement Details – Daily

- a. Option for selection of date to proceed

The screenshot displays the VidyutMODE web application interface. At the top, the header includes the Government of India Ministry of Power logo, the text "GOVERNMENT OF INDIA MINISTRY OF POWER", the "VidyutMODE" logo, and a user profile icon labeled "MHASA101". A left sidebar contains navigation links: "DAILY DATA UPLOAD", "PROCUREMENT DAILY DAT...", "MONTHLY DATA UPLOAD", and "STATION DETAILS". The main content area is titled "DAILY PROCUREMENT DETAILS" and features a form with two dropdown menus: "Select State" (currently showing "Maharashtra") and "Select Date" (currently showing "20/06/2017"). A "GO" button is positioned to the right of the date field. A large, diagonal "CONFIDENTIAL" watermark is overlaid across the lower portion of the page.

- b. After selection, prefilled data will be shown, if already present. Data if not entered, will get saved as NULL and will show on dashboard as “-”

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DAILY DATA UPLOAD
 PROCUREMENT DAILY DAT...
 MONTHLY DATA UPLOAD
 STATION DETAILS

DAILY PROCUREMENT DETAILS ▾

Select State

Maharashtra ▾


Select Date


20/06/2017

GO


No	Description	Total Energy Purchased During the Day (MWh)	Power Procurement Cost Max Rs/Unit	Power Procurement Cost Min Rs/Unit	Power Procurement Cost Avg Rs/Unit	Power Purchased at Max Rate During the Day (MW)	Remark, If any	Action
1	Bilateral	-	-	-	-	-		EDIT
2	Power Exchange	-	-	-	-	-		EDIT

c. Edit form for easy data entry


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VidyutMODE

 MHASA101

DAILY DATA UPLOAD
PROCUREMENT DAILY DAT...
MONTHLY DATA UPLOAD
STATION DETAILS

DAILY PROCUREMENT DETAILS

Select State
Maharashtra
Select Date
20/06/2017
GO

No	Description	Total Energy Purchased During the Day (MWh)	Power Procurement Cost Max Rs/Unit	Power Procurement Cost Min Rs/Unit	Power Procurement Cost Avg Rs/Unit	Power Purchased at Max Rate During the Day (MW)	Remark, If any	Action
1	Bilateral	-	-	-	-	-		EDIT
2	Power Exchange	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	SAVE CANCEL

- d. A green tick is shown after saving the data

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Monthly Merit Order Data

- Option for selection of date to proceed filling the data. This data can be filled by each state owner's for their respective states for every month.

The screenshot displays the VidyutMODE CMS interface. At the top, the Government of India Ministry of Power logo is on the left, the VidyutMODE logo is in the center, and the user ID MHASA101 is on the right. A sidebar on the left contains four menu items: DAILY DATA UPLOAD, PROCUREMENT DAILY DAT..., MONTHLY DATA UPLOAD (highlighted in orange), and STATION DETAILS. The main content area features a section titled 'UPLOAD MONTHLY DATA' with a dropdown arrow. Below this, there are two dropdown menus: 'Select State' (set to Maharashtra) and 'Select Duration' (set to June 2017). A black 'GO' button is positioned to the right of the duration dropdown.

- b. Load page with existing data. If data is not present, then only master values will be shown, and rest can be entered by the user

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DAILY DATA UPLOAD

PROCUREMENT DAILY DAT...

MONTHLY DATA UPLOAD

STATION DETAILS

UPLOAD MONTHLY DATA
▾

Select State

Maharashtra ▾

Select Duration

June ▾

2017 ▾

GO

For the duration from 15/6/2017 to 14/7/2017

Total 35 records found.

No	Name of Power Station	Owner	Total Installed Capacity (MW)	Capacity Of Plant Allocated (MW)	Fixed Cost (Rs/kWh)	Variable Cost (Rs/kWh)	Total Cost (Rs/kWh)	Is Must Run	Remarks	Action
1	GANDHAR APM	Central ISGS	657.39	195.36	1.05	1.77	2.83	No		EDIT ✓
2	GANDHAR LF	Central ISGS	657.39	195.36	1.05	4.49	5.54	No		EDIT ✓
3	GANDHAR	Central ISGS	657.39	195.36	1.05	2.04	3.09	No		EDIT ✓

- c. Easy interface to update each row of data. Click on Edit to make data entry

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DAILY DATA UPLOAD
 PROCUREMENT DAILY DAT...
MONTHLY DATA UPLOAD
 STATION DETAILS

UPLOAD MONTHLY DATA ▾

Select State

Maharashtra ▾

Select Duration

June ▾

2017 ▾

GO


For the duration from 15/6/2017 to 14/7/2017

No	Name of Power Station	Owner	Total Installed Capacity (MW)	Capacity Of Plant Allocated (MW)	Fixed Cost (Rs/kWh)	Variable Cost (Rs/kWh)	Total Cost (Rs/kWh)	Is Must Run	Remarks	Action
1	GANDHAR APM	Central ISGS	657.39	195.36	1.05	1.77	2.83	No		EDIT ✓
2	GANDHAR LF	Central ISGS	657.39	195.36	<input style="width: 50px;" type="text" value="1.05"/>	<input style="width: 50px;" type="text" value="4.49"/>	5.54	No ▾	<input style="width: 100px;" type="text"/>	SAVE
3	GANDHAR NAPM	Central ISGS	657.39	195.36	<input style="width: 50px;" type="text" value="1.05"/>	<input style="width: 50px;" type="text" value="2.04"/>	3.09	No ▾	<input style="width: 100px;" type="text"/>	SAVE
4	KAHALGAON -	Central ISGS	1500.00	139.54	1.10	2.41	3.51	No		EDIT ✓

- d. On successful save, a green tick will be shown

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Station Details

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DAILY DATA UPLOAD


PROCUREMENT DAILY DAT...

MONTHLY DATA UPLOAD

STATION DETAILS

STATION MASTER DATA

Select State Maharashtra GO

 GOVERNMENT OF INDIA
MINISTRY OF POWER

VidyutMODE

MHASA101

DAILY DATA UPLOAD

PROCUREMENT DAILY DAT...

MONTHLY DATA UPLOAD

STATION DETAILS

STATION MASTER DATA

Select State Maharashtra GO

No	Name	Type Of Generation	Owner	Portfolio Of Power	No Of Units	Total Installed Capacity	State Code CSV	Capacity Allocated	Declared Availability Entitlement	Action
1	GANDHAR APM	Gas	Central ISGS		0.00	657.39	JAK	195.36	-	EDIT
2	GANDHAR LF	Gas	Central ISGS		0.00	657.39	JAK	195.36	-	EDIT
3	GANDHAR NAPM	Gas	Central ISGS		0.00	657.39	JAK	195.36	-	EDIT
4	KAWAS APM	Gas	Central ISGS		0.00	656.20	JAK	199.21	-	EDIT
5	KAWAS LF	Gas	Central		0.00	656.20	JAK	199.21	-	EDIT

THANK YOU

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ADMS Scheme at SLDC, Patna

SCADA at SLDC, Patna has provision for ADMS, but it has not been implemented because demand management by imposing load shedding is completely under the jurisdiction of DISCOMS. We had requested DISCOMS to provide list of 33 kV feeders with priority for implementing ADMS, but the required list is still awaited from their side. ADMS will be in full operation as soon as we get the data from DISCOMS. The scheme is as follows:-

Case-I: Low frequency- Under this scheme three level of frequency has been set i.e. 49.50, 49.00 & 48.5 Hz and three quantum of load has been set i.e. Load-1, Load-2 & Load-3. In the following cases the ADMS will be implemented as follows:-

- **49.0 Hz < Frequency < 49.5 Hz**: Feeders under Load-1 will be disconnected in the priority wise till frequency becomes more than 49.5 Hz. Load disconnection will stop if frequency does not rise above 49.5 Hz even after disconnecting all feeders of Load-1.
- **48.5 Hz < Frequency < 49.0 Hz**: Feeders under Load-1 & Load-2 will be disconnected in the priority order till frequency becomes more than 49.5 Hz. Load disconnection will stop if frequency does not rise above 49.5 Hz even after disconnecting all feeders of Load-1 & Load-2.
- **Frequency < 48.0 Hz**: Feeders under Load-1, Load-2 & Load-3 will be disconnected in the priority order till frequency becomes more than 49.5 Hz. Load disconnection will stop if frequency does not rise above 49.5 Hz even after disconnecting all feeders of Load-1, Load-2 & Load-3.

Case-II: Over draw- Under this scheme if over drawl is more than 12.5% of schedule or 150 MW whichever is less, then disconnection of feeders in priority order will happen to bring the over drawl within the permissible limit. As soon as we get the list of feeders with priority order from DISCOM, the feeders will be categorised and placed in three blocks namely Block-1, Block-2 & Block-3. Feeders will be disconnected in the order of block.

This ADMS scheme has two options for the feeder disconnection:-

- **Linear Disconnection**: On reaching any of the above cases, feeders in their respective category will be disconnected in the linear manner i.e. after meeting the desired level for which disconnection was done the feeders will be taken into service. Again if cases as stated above arise then feeders will again be disconnected in their priority from initial level.
- **Circular Disconnection**: Feeders of each category will be placed in circular manner. On reaching any of the above cases, feeders in their respective category will be disconnected in the circular manner i.e. after meeting the desired level for which disconnection was done the feeders will be taken into service. Again if cases as stated above arise then feeders after the last disconnected one in priority list will be disconnected. No feeder will be disconnected twice until unless any feeder of that group remained connected during previous ADMS operation.

Annexure-B15

UFR Inspection Report of DVC substations on 31.05.17

The ERPC UFR inspection group visited 132kV Putki and Patherdih substations of DVC for UFR Audit on 31.05.17. The team physically inspected the feeders which are connected with UFRs at the above sub-stations. The report of the inspection is furnished below:

Sl. No.	Name of the substations	Feeder connected with UFR	Voltage rating	Adopted UFR setting	Tested initiated frequency	UFR make
			(Kv)	(Hz)	(Hz)	
1	132/33 kV Putki	Godhor (JSEB) –I, Bhuli line-II	33	49.0	49.01	Siemens 7SJ8042
		Ganeshpur (JSEB) –I&II, Katras (JSEB), Katras Sijua	33			
2	132/33kV Patherdih	Mukunda	33	48.8	48.81	Siemens 7SJ8042
		Digwadi	33			
		Govindpur (JSEB)	33			

The above UFR settings were tested with help of Secondary injection Kit owned by DVC. All the feeders were tripped at desired frequency and UFRs are provided with direct trip wiring.

**Tentative Agenda of the one-day Workshop to be organized at ERPC,
Kolkata on 29th June, 2017 regarding Cyber Security related awareness
and training in the Power Sector**

9:00 – 10:00	Registration
10:00 – 12:00	<p><u>Inaugural Session: Compliance, Regulatory & Policy Issues in Cyber Security</u></p> <ul style="list-style-type: none"> • The Importance of Protecting Critical Infrastructure (CI) and Critical Information Infrastructure (CII) <ul style="list-style-type: none"> ○ Internet Governance – Progress So Far & Challenges Ahead; Building a regulatory and policy framework for Cyber Security in Critical Infrastructure ○ The Role and Importance of an Internet Security Division (ISD) and Chief Information Security Officer (CISO) ○ The Importance of Skill Development: Creating a cadre of Cyber Security Managers ○ Role of 'National Critical Information Infrastructure Protection Centre' (NCIIPC) & CERT-In (Indian Computer Emergency Response Team) • Information Technology Act, 2000 and I.T. Amendment Act 2008 • Technical Standards/Guidelines on Cyber Security for Systems • The Role of Government, Regulators and Public-Private initiatives in Cyber Security (Focus: Public Sector-Private Sector Coordination)
12:00 – 13:30	<p><u>Session 1: Protecting Critical Information Infrastructure: Emerging Threats</u></p> <ul style="list-style-type: none"> • The Nature of the Threat (Past and Emerging) <ul style="list-style-type: none"> ○ Protecting large and complex networks ○ Threat exposures in the data connectivity (Telemetry) infrastructure (SCADA) ○ Threat exposure in payment mechanisms ○ Threats from compromised personnel ○ Remote takeover of critical systems • Case Studies: <ul style="list-style-type: none"> ○ Stuxnet Virus ○ Ukraine Power Grid • The Cost of cyber attacks <ul style="list-style-type: none"> ○ Data theft and intellectual property ○ Data blackmail ○ Financial theft ○ Denial of service
13:00 – 14:00	Lunch

14:30 – 16:00	<u>Session 2: Mitigating the Impact of Cyber Attacks</u> <ul style="list-style-type: none">• Planning and Implementing Standard Operating Procedures• Building Redundancies (Data Backup and Recovery)• The Role of Crisis Management Centres• Cyber Insurance Options & Viability
16:00 – 16:15	Tea
16:15 – 17:45	<u>Session 3: Securing the workplace from cyber threats (Practical Demonstration)</u> <ul style="list-style-type: none">• The Importance of Passwords• Dark Internet or Deep Web• Malwares and Types of Frauds• Threats to Smartphones• Wi-Fi Security• Website Security• VAPT (Vulnerability Assessment and Penetration Testing)• Importance of Self-Reliance• Importance of Personnel Management• Cyber Ethics in the Workplace- Creating Norms and Awareness for Employees• Integrating Physical and Cyber Security
17:45 – 18:00	Closing Remarks

Installed Capacity (MW) and Generation (MU) from renewable Resources (Injected into the Grid)

1. State/Centre :

2. Month :

3. Year :

[illegible]

List of Substation in POWERGRID ER-I where auxilliary supply is met through Tertiary

<i>S. No.</i>	<i>Region</i>	<i>Name of Substation</i>	<i>Transformer tertiary</i>
			<i>Charged</i>
1	ER I	PATNA	Yes
2		MUZAFFARPUR	Yes
3		NEW PURNEA	Yes
4		LAKHISARAI	Yes
5		BANKA	Yes
6		BIHARSARIF	Yes
7		ARA(220)	Yes
8		GAYA (765kV)	Yes
9		PUSAULI	Yes
10		KISHANGANJ	Yes
11		NEW RANCHI (765kV)	Yes
12		CHAIBASA	Yes
13		JAMSHEDPUR	Yes
14		RANCHI	Yes

Subject: **Details of S/S having Tertiary Loading at ER-II.**

To: "eeop.erp<eeop.erp@gov.in>" <eeop.erp@gov.in>

Cc: "mserpc-power@nic.in" <mserpc-power@nic.in>, S V S Sathynarayana {एस.वी.एस. सत्यनारायण} <svs@powergridindia.com>

Date: 04/20/17 05:21 PM

From: Partha Ghosh {पार्थ घोष} <partha.ghosh@powergridindia.com>

Dear Sir,

In reference to agenda point no: B.24 of 132nd OCC, PFA no of S/S from ER-II having Tertiary Transformer loading facility, however, none of the station is running solely on Tertiary Loading:-

SL No	Name of Sub-station	Tertiary Voltage level	Tertiary Transformer Capacity (KVA)
01.	Rangpo	33 KV	630
02.	Birapara	33 KV	630
03.	Siliguri	33 KV	630
04.	Durgapur	33 KV	800
05.	Maithon	33 KV	800
06.	Subhasgram	33 KV	630

Partha Ghosh {पार्थ घोष}

दावात्याग / Disclaimer:

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड इस ईमेल में वितरित किसी भी सामग्री के लिए या इसमें दी गई किसी सूचना के आधार पर की गई किसी भी कार्रवाई के परिणामों के लिए कोई भी दायित्व नहीं स्वीकारता है। चूंकि सूचना को अवरुद्ध, भ्रष्ट, लुप्त, नष्ट, विलंबित, अपूर्ण अथवा संक्रमित किया जा सकता है अतः प्राप्तकर्ता यह मानता है कि इलेक्ट्रॉनिक मेल में परिवर्तन किए जा सकते हैं एवं उनके सुरक्षित या वृद्धिमुक्त होने की गारंटी नहीं दी जा सकती। इसलिए पावरग्रिड इस संदेश अथवा इसके संलग्नकों की सामग्री में इस प्रेषण के परिणामस्वरूप उत्पन्न किसी भी त्रुटि, चूक, वायरस या क्षति के लिए उत्तरदायी नहीं होगा। यह ईमेल और इसके कोई भी संलग्नक केवल आशयित प्राप्तकर्ता(ओं) के एकमात्र उपयोग के लिए है और इसमें कुछ गोपनीय और विशिष्ट जानकारी हो सकती है। यदि आप आशयित प्राप्तकर्ता नहीं हैं, तो तुरंत इस ईमेल के प्रेषक को इस बाबत सूचित करें तथा इस संदेश की सभी प्रतियां और इसके सभी संलग्नक तत्काल नष्ट कर दें। इस संदेश या इसके किसी संलग्नक को किसी भी प्रकार से (चाहे पूर्णतः या अंशतः) अनधिकृत प्रयोग, प्रकटीकरण या उसकी प्रतियां बनाना सर्वथा निषिद्ध है और यह एक गैर-कानूनी क्रय हो सकता है।



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
पूर्वी क्षेत्रीय विद्युत समिति
Eastern Regional Power Committee
14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता-700033
14 Golf Club Road, Tollygunj, Kolkata-700033



Tel No.:033-24235199, 24235016 FAX No.:033-24221802, 24221358 Web: www.erpc.gov.in

No. ERPC/MS/Operation/2017-18/

Date: 09.05. 2017

FAX MESSAGE NO. 259

To,

Director,
SLDC, UPPTCL,
5th floor, Shakti Bhawan,
Lucknow - 226 001
(M. No.- 9415311802, Fax: 0522-2287880)

Subject: LILO Connection of 132 KV Sonenagar-Rihand (UP,NR) Circuit-I at NPGC, Nabinagar for providing startup power to NPGC - reg

Sir,

Please refer our telephonic discussion today on the issue. It is to inform that Unit # 1 of Super Thermal Power Project (3x660MW) of NPGC, Nabinagar is expected to be commissioned shortly.

In 131st OCC meeting of ERPC, BSPTCL informed that NPGC, Nabinagar has applied for 65 MVA start up power and initially they will draw around 5-10 MW power through 132 kV Sonenagar-Rihand-I line LILOed at NPGC, Nabinagar. It was also pointed that 132kV Sonenagar-Rihand (UP,NR) Circuit-I is lying idle charged since last 5-6 years and presently it remains charged on no load from Sonenagar end & open at Rihand (UP) end.

It was informed that NPGC, Nabinagar will only draw startup power for commissioning activities through the above LILO as an interim arrangement and injection of power/trial-run will be done after the completion of 400 kV ATS of NPGC, Nabinagar.

The issue was discussed also with CTU and CEA. CEA vide their letter 69/2/PSPA-II/2017/362, dated 8.5.17 communicated their no objection.(Copy enclosed). CTU also expressed the same.

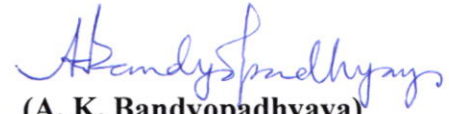
Therefore as advised by you this is our confirmation that as per the decision of OCC, NPGC is going to start availing the start up power from BSPTCL by closing Sonnagar-NPGC 132KV LILO section of 132kV Sonnagar-Rihand-I line keeping the line open at Rihand end.

This is for your further information that this is an interim arrangement subject to post facto approval of Standing Committee of ER in its forthcoming meeting.

NPGC, ERLDC, BSPTCL and NLDC are now being requested to do the needful for commencement of startup power through the aforesaid arrangement.

Thanking you,

Yours faithfully,


(A. K. Bandyopadhyaya)
Member Secretary

Copy to:

1. Member Secretary, Northern Regional Power Committee, 18A, SJSS Marg, Katwaria Sarai, New Delhi-110016
2. Chief Engineer, PSP&A-II division, CEA, Sewa Bhawan, R.K.Puram, New Delhi- 110066.
3. Executive Director, NLDC, POSOCO, B-9, Qutab Institutional Area, Katwaria Sarai, N. Delhi- 110016 (Fax No.- 011-26524525, 26536901)
4. COO (CTU-Planning), PGCIL, Saudamini, Plot No-2, Sector-29, Gurgaon- 122001
5. Director (Project), Bihar State Power Transmission Company Ltd., Vidyut Bhavan, Bailey Road, Patna-800021.
6. Director (Project), JUSNL, Kusai Colony, Doranda, Ranchi-834002.
7. General Manager, ERLDC, 14 Golf Club Road Tollygunge, Kolkata – 700033
8. Chief Executive Officer, NPGC, Nabinagar.



भारत सरकार /
Government of India

विद्युत मंत्रालय
Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग-II
Power System Planning & Appraisal Division-II

No: 69/2/PSPA-II/2017/362

Dated: 08.05.2017

To

Member Secretary,
Eastern Regional Power Committee,
14, Golf Club Road, Tollygunge, Kolkata – 700033

Subject: Notice for special meeting on issues related to BSPTCL-reg.

Ref: (i) ERPC letter No. ERPC/MS/2017-18/ 256 dated 05.05.2017

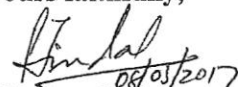
(ii) BSPTCL letter dated 03.05.2017

Sir,

Reference is invited to Item No. 1 of the ERPC letter regarding LILO of inter-regional tie line 132 KV Sonenagar - Rihand (UP,NR) Circuit-I (direct line) by BSPTCL at NPGC, Nabinagar for providing start up power to NPGC.

1. Request of BSPTCL vide their letter dated 03.05.2017 for permission for charging of LILO Connection of inter-regional tie line 132 KV Sonenagar - Rihand (UP,NR) Circuit-I (direct line) at NPGC, Nabinagar so as to provide start up power to NPGC, has been examined and following is submitted for consideration in the proposed ERPC meeting on 11.05.2017.
2. In BSPTCL letter, it is mentioned that presently 132 KV Sonenagar - Rihand (UP,NR) Circuit-I remains charged on No-load from Sonenagar end, and open at Rihand(UP) end. Therefore, we have no objection in charging of the LILO carried out by BSPTCL, considering the following:
 - i. This is a temporary arrangement till the commissioning of planned 400 KV D/c Nabinagar (NPGC) - BRBCL transmission Line.
 - ii. This line may be treated as line connected to Bihar grid i.e. Sonenagar to NPGC because the line is open at Rihand(UP) end.

Yours faithfully,


(Pardeep Jindal)

Chief Engineer(PSPA-II)

Annexure-B.26

S.No	MAKE	Date/Year of SEM Installation	ERLDC_ID	NEW MTR NO	LOCATION	Time Drift (Min)
1	L&T	2006	EM-07	NP-5086-A	BINAGURI(PG)	11
2	L&T	2006	EM-09	NP-5088-A	BINAGURI(PG)	12
3	L&T	2006	EM-10	NP-5888-A	BINAGURI(PG)	13
4	L&T	2008	ER-85	NP-5962-A	JEYPORE(PG)	49
5	L&T	2008	ER-34	NP-5957-A	JEYPORE(PG)	52
6	L&T	2008	ER-35	NP-5958-A	JEYPORE(PG)	55
7	L&T	2008	ER-53	NP-5946-A	SILIGURI(PG)	10
8	L&T	2008	ER-40	NP-6464-A	BIRPARA(PG)	-11
9	L&T	2008	ER-59	NP-6478-A	MALDA(PG)	-16
10	L&T	2008	ER-12	NP-6451-A	MAITHON(PG)	-11
11	L&T	2008	ER-41	NP-6490-A	BIRPARA(PG)	-10
12	L&T	2011	ER-44	NP-5892-A	BIRPARA(PG)	35
13	L&T	2012	EM-96	NP-5068-A	DALKHOLA(PG)	23
14	L&T	2013	EP-56	NP-5233-A	MUZAFFARPUR(PG)	13
15	L&T	2013	EP-57	NP-5234-A	MUZAFFARPUR(PG)	15
16	L&T	2013	ER-58	NP-7555-A	MALDA(PG)	18
17	L&T	2013	EP-72	NP-7935-A	SUBHASGRAMA(PG)	11
18	L&T	2013	EP-55	NP-7969-A	DALKHOLA(PG)	16
19	L&T	2013	EP-83	NP-7828-A	PURNEA(PG)	12
20	L&T	2013	EP-84	NP-7829-A	PURNEA(PG)	16
21	L&T	2013	EP-93	NP-7612-A	BERHAMPORE(PG)	19
22	L&T	2013	EP-94	NP-7993-A	BERHAMPORE(PG)	17
23	L&T	2014	EN-16	NP-7938-A	SUBHASHGRAM(PG)	12
24	L&T	2015	EN-96	NP-7881-A	RANCHI(PG)	15

Status of replacement of Time drifted meters at ER-II.

As on date followings Time drifted meters have been replaced as per direction of ERLDC,
(Ref Agenda point: B.26) :-

S.No	LOCATION	Time Drift (Min)	Line/Element	Remarks
1	BINAGURI(PG)	11	400 KV BINAGURI (PG)-TALA (THP)-1	Will be replaced in next week.
2	BINAGURI(PG)	12	400 KV BINAGURI (PG)-MALBASE(PG)-3	Will be replaced in next week.
3	BINAGURI(PG)	13	400 KV BINAGURI (PG)-TALA (THP)-4	Will be replaced in next week.
4	SILIGURI(PG)	10	132 KV SILIGURI (PG) - NJP(WBSETCL)	Will be replaced in next week.
5	BIRPARA(PG)	-11	220 KV BIRPARA (PG) - CHUKHA (CHPC) -2	Replaced on 20.04.2017.
6	MALDA(PG)	-16	132 KV MALDA (PG) - MALDA (WBSETCL) -2	Replaced on 18.04.2017.
7	MAITHON(PG)	-11	220 KV MAITHON (PG) - DHANBAD (DVC) -2	Replaced on 18.04.2017.
8	BIRPARA(PG)	-10	220 KV BIRPARA (PG) - MALBASE	Replaced on 20.04.2017.
9	BIRPARA(PG)	35	132 KV BIRPARA (PG) - BIRPARA (WB)-1	Replaced on 20.04.2017.
10	DALKHOLA(PG)	23	220 KV DALKHOLA(PG)-DALKHOLA(WBSETCL)-2	Will be replaced in next week.
11	MALDA(PG)	18	132 KV MALDA (PG) - MALDA (WBSETCL) -1	Replaced on 18.04.2017.
12	SUBHASGRAMA(PG)	11	220 KV SUBHASGRAM(PG)-EMSS CESC(WB) -1	Replaced on 19.04.2017.
13	DALKHOLA(PG)	16	220 KV DALKHOLA(PG)-DALKHOLA(WBSETCL)-1	Will be replaced in next week.
14	BERHAMPORE(PG)	19	400 KV BERHAMPORE(PG)-BHERAMARA-1 M	Will be replaced in next week.
15	BERHAMPORE(PG)	17	400 KV BERHAMPORE(PG)-BHERAMARA-1 C	Will be replaced in next week.
16	SUBHASHGRAM(PG)	12	400 KV SUBHASHGRAM(PG)-HALDIA (WB) -1	Replaced on 19.04.2017.

Balance meters will be replaced by next week and readings will be sent to ERLDC manually by Each Wednesday.

List of drifted meters to be replaced in Phase-II

SNO	LOCATION	METER SNO	FEEDER NAME
1	MUZAFFARPUR(PG)	NP-5074-A	400 KV MUZAFARPUR (PG)-GORAKHPUR(NR)-1
2	MUZAFFARPUR(PG)	NP-9981-A	400 KV MUZAFARPUR (PG)-GORAKHPUR(NR)-2
3	MEJIA(DVC)	NP-5226-A	MEJIA END OF MAITHON(PG)-1
4	MEJIA(DVC)	NP-5227-A	MEJIA END OF MAITHON(PG)-2
5	RANCHI(PG)	NP-5835-A	400 KV RANCHI-SIPAT-1 (WR)
6	RANCHI(PG)	NP-5836-A	400 KV RANCHI-SIPAT-2 (WR)
7	BINAGURI(PG)	NP-5884-A	BINAGURI END OF BONGAIGAON (NER)-1
8	BINAGURI(PG)	NP-5885-A	BINAGURI END OF BONGAIGAON (NER)-2
9	ROURKELLA(PG)	NP-5933-A	ROURKELA END OF TARKERA (GRIDCO)-2
10	KHARAGPUR(PG)	NP-7563-A	400 KV KHARAGPUR -BARIPADA(PG)
11	MPL	NP-7970-A	MAITHON RB END OF RANCHI (PG)-1 (MAIN)
12	MPL	NP-7971-A	MAITHON RB END OF RANCHI (PG)-2 (MAIN)
13	MPL	NP-7564-A	MAITHON RB END OF MAITHON (PG)-1 (MAIN)
14	MPL	NP-6518-A	MAITHON RB END OF MAITHON (PG)-2 (MAIN)
15	RANCHI NEW(PG)	NP-7847-A	765 KV RANCHI NEW -DHARAMJAYGARH-1
16	RANCHI NEW(PG)	NP-8753-A	765 KV RANCHI NEW -DHARAMJAYGARH-2
17	STERLITE	NP-7572-A	400 KV STERLITE - RAIGARH(WR)-II(MAIN)
18	STERLITE	NP-7372-A	400 KV STERLITE - ROURKELLA(PG)-II(MAIN)
19	ROURKELLA(PG)	NP-5928-A	400 KV ROURKELLA(PG)-RAIGARH(WR)
20	MIRAMUNDALI(OPTCL)	NP-5977-A	400 KV MIRAMUNDALI-ANGUL-1
21	MIRAMUNDALI(OPTCL)	NP-5976-A	400 KV MIRAMUNDALI-ANGUL-2
22	SUNDERGARH(PG)	NP-7634-A	765 KV SUNDERGARH-DHARAMJAYGARH-1
23	SUNDERGARH(PG)	NP-7638-A	765 KV SUNDERGARH-DHARAMJAYGARH-2

S.No	Region	State	Sub-Station	Owner/ Utility	S/S type	PMU	TOTAL PANEL QTY	PMU Delivery status	Cable Delivery status	Erection	Cable laying	CT/PT/DI termination	Commiss ioning	Integration	SAT	Remarks
			78			286	175	73	61	51	45	40	40	24	37	
1	ER-II	West Bengal	Arambagh	WBSETCL	CR	3	1	Yes	Yes	done	done	pending	pending	Pending	pending	CT/ PT/ DI interfacing pending due to permission issue.
2	ER-II	West Bengal	BAKRESHWAR TPS	WBSETCL	CR	4	1	Yes	Yes	done	pending	pending	pending	Pending	pending	Panel erected. Cable laying pending due to permission issue.
3	ER-II	West Bengal	Bidhannagar	WBSETCL	CR	3	1	Yes	Yes	done	done	pending	pending	Pending	pending	Panel erected. Cable laying and termination at PMU panel completed. CT/ PT/ DI interfacing pending due to permission issue.
4	ER-II	West Bengal	JEERAT	WBSETCL	CR	2	1	Yes	Yes	done	done	done	done	done	pending	SAT pending as customer didn't agree to witness SAT.
5	ER-II	West Bengal	Kolaghat TPS	WBSETCL	CR	4	1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
6	ER-II	West Bengal	KASBA	WBSETCL	CR	3	1	Yes	Yes	done	done	done	done	done	pending	SAT pending as customer didn't agree to witness SAT.
7	ER-II	DVC	DSTPS	DVC	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
8	ER-II	DVC	Kodarma TPS	DVC	CR	3	1	Yes	Yes	done	done	done	done	Pending	done	Communication panel does not exist.
9	ER-II	DVC	MEJIA-B	DVC	CR	2	1	Yes	Yes	done	done	done	done	done	done	Integrated on 07.12.2016
10	ER-II	DVC	Maithon RB TPS	DVC	CR	2	1	Yes	Yes	pending	pending	pending	pending	Pending	pending	Work started on 04.07.2016. Panel shifted. Team demobilised due to access issue and panel location issue.
11	ER-II	DVC	Raghunathpur TPS	DVC	CR	3	1	Yes	Yes	done	done	done	done	Pending	done	Communication link was not available during work.
12	ER-II	DVC	MEJIA	DVC	CR	5	2	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Will be integrated on Mar 2017.
13	ER-II	DVC	Bokaro	DVC	CR	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.06.2016
14	ER-II	DVC	CTPS(Chanderpura)	DVC	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Will be integrated on Mar 2017.
15	Odisha	Orissa	Budhipadar	OPTCL	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
16	Odisha	Orissa	MENDHASAL	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	OPTCL is not providing CT/ PT connection for Meeramundali-2 feeder.
17	Odisha	Orissa	MERAMANDALI	OPTCL	CR	6	2	Yes	Yes	done	under progress	pending	pending	Pending	pending	
18	Odisha	Orissa	RENGALI	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Integration delayed because CAT-6 cable is faulty.
19	Odisha	Orissa	U.KOLAB	OPTCL	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	
20	Odisha	Orissa	BALIMELA(H)	OPTCL	CR	3	1	Yes	Yes	done	done	partially done	pending	Pending	done	OPTCL denied to provide DC connection. CT/PT/DI interfacing pending due to permission issue.
21	ER-II	West Bengal	Durgapur	Powergrid	CR	5	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 30.05.2016.
22	ER-II	West Bengal	FARRAKA	NTPC	CR	5	2	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
23	Odisha	Orissa	Indrawati	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
24	Odisha	Orissa	Indrawati HPS	OPTCL	CR	1	1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	OPTCL denied to provide DC connection.
25	Odisha	Orissa	JEYPORE	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
26	ER-II	West Bengal	MAITHON	Powergrid	CR	7	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 21.06.2016.
27	ER-II	West Bengal	MALDA	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.06.2016
28	Odisha	Orissa	Rengali	Powergrid	Kiosk	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 04.05.2016
29	Odisha	Orissa	ROURKELA	Powergrid	Kiosk	5	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 21.04.2016
30	ER-II	West Bengal	Binaguri	Powergrid	CR	7	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 28.07.2016
31	ER-II	West Bengal	SUBHASHGRAM	Powergrid	Kiosk	2	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 22.06.2016
32	Odisha	Orissa	Baripada	Powergrid	CR	3	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 30.01.2017.
33	Odisha	Orissa	Bolangir	Powergrid	CR+Kiosk	2	3	Yes	Yes	done	done	done	done	Pending	done	Communication Link not available.
34	Odisha	Orissa	ANGUL	Powergrid	Kiosk	10	11	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.03.2017.

PMU Installation and commissioning status of ER as on 20.04.2017

S.No	Region	State	Sub-Station	Owner/ Utility	S/S type	PMU	TOTAL PANEL QTY	PMU Delivery status	Cable Delivery status	Erection	Cable laying	CT/PT/DI termination	Commiss ioning	Integration	SAT	Remarks
35	Odisha	Orissa	Keonjhar	Powergrid	CR	2	3	Yes	Yes	done	done	done	done	done	done	PMU integrated on 18.01.2017.
36	Odisha	Orissa	Jharsuguda	Powergrid	Kiosk	8	9	Yes	Yes	done	done	done	done	done	done	PMU integrated on 29.07.2016
37	Odisha	Orissa	GMR	GMR	Kiosk	3	4	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
38	ER-II	Sikkim	RANGPO	Powergrid	CR	4	1	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mtrs. Will be integrated on Mar 2017.
39	ER-II	West Bengal	Baharampur	Powergrid	CR	2	3	Yes	Yes	done	done	done	done	done	done	PMU integrated on 10.05.2016
40	ER-II	West Bengal	Birpara	Powergrid	CR	4	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 15.07.2016.
41	ER-II	DVC	CTPS B	DVC	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
42	ER-II	DVC	KALYANESWARI	DVC	CR	4	1	Yes	Yes	done	done	done	done	done	done	PMU integrated on 02.01.2017.
43	ER-II	DVC	PARULIA	DVC	CR	5	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 21.02.2017.
44	ER-II	West Bengal	Purulia PSP	WBSETCL	CR	2	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
45	ER-II	Jharkhand	Bokaro TPS	DVC	CR	1	1	Yes	Yes	done	pending	pending	pending	Pending	pending	
46	ER-II	West Bengal	Durgapur TPS	DVC	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
47	Odisha	Orissa	TTPS(Talcher)	OPTCL	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
48	Odisha	Orissa	TALCHER	NTPC	CR	5	2	No	No	N/A	N/A	N/A	N/A	N/A	N/A	NTPC is not allowing to deliver mterial.
49	ER-II	Sikkim	TEESTA	Powergrid	CR	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
50	Odisha	Orissa	Uttara	Powergrid	CR	2	1	Yes	Yes	done	done	done	done	Pending	pending	Communication link from s/s to ERLDC and NTAMC to be provided by PGCIL.
51	Odisha	Orissa	Jindal	JITPL	CR	2	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
52	Odisha	Orissa	Monnet	Monnet	CR	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
53	Odisha	Orissa	Strelite	Strelite	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
54	Odisha	Orissa	Ind barath	Ind barath	Kiosk	1	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
55	ER-II	Sikkim	New Melli	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
56	ER-II	Sikkim	TT Pool	Powergrid	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.
57	ER-II	West Bengal	Alipurduar	Powergrid	CR	6	7	Yes	Yes	partially done	partially done	pending	pending	Pending	pending	Work started on 22.12.2016. 4 PMU panels and network panel installed. Rest 2 PMU panels could not be erected because location not finalised. Cable laying and termination at PMU panel completed for 6 feeders. CT/PT interfacing pending due to unavailability of shutdown. PGCIL is asking to take DI points from field, which is not in scope. Work is held up. Team demobilised.
58	ER-II	West Bengal	Rajarhat	Powergrid	CR	2	1	Yes	Yes	done	pending	pending	pending	Pending	pending	Work withheld due to localite agitation issue.
59	ER-I	Jharkhand	JAMSHEDPUR	Powergrid	CR	6	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 14.02.2017
60	ER-I	BIHAR	Kahalgaoon(KHSTPP)	NTPC	CR	6	2	Yes	Yes	done	done	pending	pending	Pending	pending	Work withheld due to gate pass issue.
61	ER-I	BIHAR	Purnea	Powergrid	CR	6	2	Yes	Yes	done	done	pending	pending	done	pending	PMU integrated on 13.04.2017
62	ER-I	BIHAR	PATNA	Powergrid	Kiosk	6	7	Yes	Yes	done	done	done	done	done	done	PMU integrated on 11.04.2017
63	ER-I	Jharkhand	RANCHI	Powergrid	Kiosk	12	13	Yes	Yes	done	under progress	pending	pending	Pending	pending	
64	ER-I	BIHAR	SASARAM(Pusauli)	Powergrid	CR+Kiosk	9	3	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
65	ER-I	BIHAR	BARH	NTPC	CR	4	1	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
66	ER-I	BIHAR	LakhiSarai	Powergrid	Kiosk	4	5	Yes	Yes	done	done	done	done	Pending	done	SAT completed. PMU not integrated because FO cable was not delivered due to road permit issue.
67	ER-I	BIHAR	BANKA	Powergrid	Kiosk	4	5	Yes	Yes	done	done	done	done	Pending	pending	SAT pending. PMU not integrated because switch was not delivered to site. Switch in transit.

PMU Installation and commissioning status of ER as on 20.04.2017

S.No	Region	State	Sub-Station	Owner/ Utility	S/S type	PMU	TOTAL PANEL QTY	PMU Delivery status	Cable Delivery status	Erection	Cable laying	CT/PT/DI termination	Commiss ioning	Integration	SAT	Remarks
68	ER-I	Jharkhand	Chaibasa	Powergrid	Kiosk	4	5	Yes	Yes	done	under progress	pending	pending	Pending	pending	
69	ER-I	BIHAR	765kv Gaya	Powergrid	Kiosk	11	12	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.02.2017
70	ER-I	Jharkhand	765/400kV Ranchi (N)	Powergrid	Kiosk	8	9	Yes	Yes	done	done	done	done	done	done	PMU integrated on 24.02.2017
71	ER-I	Bihar	Biharshariff	Powergrid	CR	9	3	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	
72	ER-I	Bihar	MUZAFFAPUR	Powergrid	CR	5	2	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
73	ER-I	Jharkhand	Daltonganj	Powergrid	Kiosk	2	3	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	Road permit for Switch is pending.
74	ER-I	Bihar	Kishanganj (karandegh)	Powergrid	CR	4	1	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mts.
75	ER-I	Jharkhand	Jharkhand Pool (Chandrapur)	Powergrid	Kiosk	4	1	Yes	Yes	done	done	done	done	Pending	done	S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mts.
76	ER-I	Jharkhand	Patratu	Jharkhand	CR	3	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
77	ER-I	Jharkhand	Tenughat	Jharkhand	CR	2	1	Yes	No	N/A	N/A	N/A	N/A	N/A	N/A	
78	ER-I	Bihar	Barauni PP	Bihar	CR	0	0	No	No	N/A	N/A	N/A	N/A	N/A	N/A	BOQ not finalized.

ER PMU site activity Summary:

Sl. No.	Region	Utility	As per approved BOQ		Supplied		Installed		Commissioned		Integrated to ERLDC/ SLD	
			No. of Substations	No. of PMU	S/S	PMU	S/S	PMU	S/S	PMU	S/S	PMU
1	ER-I	Powergrid	15	94	15	94	11	69	8	47	5	37
2	ER-I	NTPC	2	10	2	10	1	6	0	0	0	0
3	ER-I	Jharkhand	2	5	2	5	0	0	0	0	0	0
4	ER-I	Bihar	1	0	0	0	0	0	0	0	0	0
	ER-I	Total	20	109	19	109	12	75	8	47	5	37
1	ER-II	Powergrid	13	42	11	42	10	39	8	33	7	29
2	ER-II	NTPC	1	5	1	5	0	0	0	0	0	0
3	ER-II	DVC	13	37	13	37	10	29	9	28	4	13
4	ER-II	WBSETCL	7	21	7	21	5	15	2	5	2	5
	ER-II	Total	34	105	32	105	25	83	19	66	13	47
1	Odisha	Powergrid	10	38	10	38	10	38	10	38	6	30
2	Odisha	OPTCL	8	19	6	16	5	15	3	6	0	0
3	Odisha	NTPC	1	5	1	5	0	0	0	0	0	0
4	Odisha	IPP	5	10	5	10	0	0	0	0	0	0
	Odisha	Total	24	72	22	69	15	53	13	44	6	30
	ER	Total	78	286	73	283	52	211	40	157	24	114

Status of PDS system Installation and commissioning at ER as on 20.04.2017

Sl. No.	Site Name	Work Progress
1	ERLDC	Installed, powered up, functioning and integrated with DVC, WBSETCL and OPTCL PDS system.
2	Backup-NLDC	POSOCO did not provide space for PDS system installation.
3	SLDC, Maithon	Installed, powered up, functioning and integrated with ERLDC PDS system.
4	SLDC, Bhubaneswar	Installed, powered up, functioning and integrated with ERLDC PDS system.
5	SLDC, Howrah (WBSETCL)	Installed, powered up, functioning and integrated with ERLDC PDS system.

AVAILABILITY STATUS OF EVENT LOGGER, DISTURBANCE RECORDER & GPS

Sl. NO	Substation	Protection & Control System						Remarks
		Availability			Time Synchronization			
		EL	DR	GPS	Relay	DR	EL	
1	Subhasgram	Yes	Yes	Yes	Yes	Yes	Yes	
2	Maithon	Yes	Yes	Yes	Yes	Yes	Yes	
3	Durgapur	Yes	Yes	Yes	Yes	Yes	Yes	
4	Malda	Yes	Yes	Yes	Yes	Yes	Yes	
5	Dalkhola	Yes	Yes	Yes	Yes	Yes	Yes	
6	Siliguri	Yes	Yes	Yes	Yes	Yes	Yes	
7	Binaguri	Yes	Yes	Yes	Yes	Yes	Yes	
8	Birpara	Yes	Yes	Yes	Yes	Yes	Yes	
9	Gangtok	Yes	Yes	Yes	Yes	Yes	Yes	
10	Baripada	Yes	Yes	Yes	Yes	Yes	Yes	
11	Rengali	Yes	Yes	Yes	Yes	Yes	No	New EL would be implemented in BCU under NTAMC project by March'2015
12	Indravati (PGCIL)	Yes	Yes	Yes	Yes	Yes	No	EL is old one(model-PERM 200), provision for time synchronisation is not available. New EL would be implemented in BCU under NTAMC project by March'2015
13	Jeypore	Yes	Yes	Yes	Yes	Yes	Yes	EL is old and not working satisfactorily. New EL would be implemented in BCU under NTAMC project by March, 2015
14	Talcher	Yes	Yes	Yes	Yes	Yes	Yes	
15	Rourkela	Yes	Yes	Yes	Yes	Yes	Yes	
16	Bolangir	Yes	Yes	Yes	Yes	Yes	Yes	
17	Patna	Yes	Yes	Yes	Yes	Yes	Yes	
18	Ranchi	Yes	Yes	Yes	Yes	Yes	Yes	
19	Muzaffarpur	Yes	Yes	Yes	Yes	Yes	Yes	
20	Jamshedpur	Yes	Yes	Yes	Yes	Yes	Yes	
21	New Purnea	Yes	Yes	Yes	Yes	Yes	Yes	
22	Gaya	Yes	Yes	Yes	Yes	Yes	Yes	
23	Banka	Yes	Yes	Yes	Yes	Yes	Yes	
24	Biharsariif	Yes	Yes	Yes	Yes	Yes	Yes	
25	Barh	Yes	Yes	Yes	Yes	Yes	Yes	
26	Sagardighi	No	Yes	Yes	Yes	Yes	No	EL is under process of restoration with help from OEM, China
27	Kahalgaon	Yes	Yes	Yes	Yes	Yes	Yes	
28	Farakka	Yes	Yes	No	No	No	No	Time synchronization available for Farakka-Kahalgaon line-III & IV. The same will be implemented in rest of the lines by December, 2014.
29	Meramundali	Defunct	Yes	Yes	Yes	Yes	Yes	
30	Tisco	Yes	Yes	Yes	Yes	Yes	Yes	
31	Bidhannagar	No	Yes	Yes	No	No	No	Using DR & EL available in Numerical

								relays. GPS will be put in service by January, 2015.
32	Indravati (OHPC)	Yes	Faulty	No	No	No	No	Time synchronization will be done by Feb, 2015. ICT-I feeders using DR & EL available in Numerical relays. 400 kV ICT-II feeder is being maintained by PGCIL, Mukhiguda. Status may confirm from PGCIL
33	Kharagpur	No	Yes	Yes	No	No	No	Using DR & EL available in Numerical relays.
34	DSTPS	Yes	Yes	Yes	Yes	Yes	Yes	
35	Sterlite	Yes	Yes	Yes	Yes	Yes	Yes	
36	Mejia 'B'	Yes	Yes	Yes	Yes	Yes	Yes	
37	Mendhasal	Defunct	Yes	Yes	Yes	Yes	No	EL will be restored by March, 2015.
38	Arambagh	No	Yes	Yes	No	No	No	Using DR & EL available in Numerical relays
39	Jeerat	No	Yes	No	No	No	No	Using DR & EL available in Numerical relays. Procurement of new GPS is in progress.
40	Bakreswar	Yes	Yes	Yes	Yes	Yes	Yes	
41	GMR	Yes	Yes	Yes	Yes	Yes	Yes	
42	Maithon RB	Yes	Yes	Yes	Yes	Yes	Yes	
43	Raghunathpur	Yes	Yes	Yes	Yes	Yes	Yes	
44	Kolaghat	Yes	Yes	Yes	Yes	Yes	Yes	
45	Teesta V	Yes	Yes	Yes	Yes	Yes	Yes	
46	Koderma	Yes	Yes	Yes	Yes	Yes	Yes	
47	Sasaram	Yes	Yes	Yes	Yes	Yes	Yes	
48	Rangpo	Yes	Yes	Yes	Yes	Yes	Yes	
49	Adhunik	Yes	Yes	Yes	Yes	Yes	Yes	
50	JITPL	Yes	Yes	Yes	Yes	Yes	Yes	
51	765kV Angul	Yes	Yes	Yes	Yes	Yes	Yes	
52	Chuzachen	Yes	Yes	Yes	No	Yes	Yes	
53	New Ranchi 765kV	Yes	Yes	Yes	Yes	Yes	Yes	
54	Lakhisarai	Yes	Yes	Yes	Yes	Yes	Yes	
55	Chaibasa							
56	765kV Jharsuguda	Yes	Yes	Yes	Yes	Yes	Yes	All are in working condition. However a dedicated DR for 765KV Lines; make TESLA is not working. M/s Siemens has assured to commission the same by 31.01.15
57	Beharampur	Yes	Yes	Yes	Yes	Yes	Yes	
58	Keonjhar	Yes	Yes	Yes	Yes	Yes	Yes	

Eastern Regional Power Committee

The status of ERS towers in Eastern Region as submitted during ERS meeting held on 10.11.14 taken by Member (Power System), CEA is given below:

- 1) As per 100th OCC meeting held on 22.08.2014, the status of ERS towers as available in Powergrid is as given below:

Sl. No.	Name of S/S	No. of ERS towers available	ERS towers in use
1	Durgapur, ER-II	1 Set (8 towers)	
2	Rourkela, ER-II	3 towers incomplete shape	
3	ER-I (located at Jamshedpur)	15 towers (10 nos Tension tower and 5 nos suspension tower)	

- 2) As informed by OPTCL, the present status of ERS towers in OPTCL system is as follows:

- 220 kV ERS towers: 42 nos located at Mancheswar, Chatrapur & Budhipadar
- 400 kV ERS towers: 2 nos located at Mancheswar.
- 12 nos. of new 400 kV ERS towers have been approved by Board of Director for procurement in the current financial year. Purchase order has been placed.
- Another, 16 nos of 400 kV towers accompanied with 6 sets of T&P are required.

- 3) WBSETCL informed that they have placed order for 2 sets of ERS towers on 31.10.2014 and expected by June, 2015.

- 4) The 25th ERPC meeting held on 21.09.2014, the board concurred to the proposal of procurement of four sets of ERS and it was also informed that, the proposed four sets of ERS will be kept at Sikkim, Siliguri, Ranchi and Gaya and will be used by all constituents of ER during emergencies.

Powergrid informed that four sets of ERS for Eastern Region will be procured.

- 5) Bihar informed that they have 10 sets of 220 kV ERS towers and 2 sets are under process of procurements.

- 6) DVC informed that they are in process of procuring two (2) sets of 400 kV ERS towers.



OPGC
Power for Progress

ODISHA POWER GENERATION CORPORATION LTD.

(A Government Company of the State of Odisha)

CIN : U40104OR1984SGC001429

Regd. Off. : Zone-A, 7th Floor, Fortune Towers, Chandrasekharapur, Bhubaneswar - 751023, Odisha

Ph. : 0674-2303765 - 66, Fax : 0674-2303755 / 56

Web : www.opgc.co.in,

No-1418

24.06.2017

To

The Member Secretary, ERPC, 14 Golf Club Road, Tollygunj, Kolkata-700033.

Sub: Statutory clearances of 400 KV transmission line of IBEUL (upto Jharsuguda PGCIL grid) at the crossing points over the MGR rail corridor of OPGC

- Ref:**
1. Letter No. RIO/ER/IBEUL-OPGC/TL-MGR/63-67 dated 07.04.2017
 2. IBEUL Letter No. IBEUL/BBSR/OPGC/60/2017 dated 06.04.2017
 3. Minutes of Joint Meeting on the above issue held on 29.03.2017
 4. Item No. B.13.1 of 132nd OCC Minutes.
 5. Minutes of special meeting on IBEUL ISSUES on 22.05.17.

Dear Sir,

With reference to the above, we would like to state that based on the joint meeting under reference at Sl.No. 3 and undertaking given by IBEUL under reference at Sl.No. 2, provisional clearance was given by Dy. Director, RIO(E), CEA, Kolkata under reference at Sl. No. 1 for charging of said line up to 30.06.2017 with the stipulation that IBEUL needs to complete the tower extension/rectification work before 30.06.2017 and in case of failure to meet the commitment as per the undertaking, the line from the project of IBEUL to 765/400KV pooling station of PGCIL at Jharsuguda/Sundergarh will be considered decommissioned at 00.00 hours of 01.07.2017. IBEUL has also agreed to complete the said work by 30.06.2017 vide Item No. B.13.1 of 132nd OCC Minutes. IBEUL has been advised to expedite the work and complete before 30.06.17 in accordance with the minutes of the special meeting under reference at Sl.No.5.

On the contrary it is a matter of regret that till date no major progress on tower erection has been made except stub setting between Tower no. 18 & 19. No settlement on Right of Way has been made between Tower no. 14 & 15 and 16 & 17. Stub setting for one leg has been done between Tower no. 7A & 8. It is apprehended that IBEUL will not be able to complete the tower extension/rectification work as per their committed date i.e. by 30.06.2017.

It may please be noted that **construction work of OPGC MGR rail line is held up due to inadequate clearance at those crossing locations**, seriously affecting the commissioning schedule of OPGC expansion power project. In view of the facts stated above, we would request your kind intervention to resolve the above issues so that construction of MGR system can be completed on time and OPGC does not face any problem. This may please be discussed in next OCC forum scheduled to be held on 23.06.17 for detailed deliberation and decision.

Thanking you,

Yours faithfully,

Director(Operations)

Copy to:

1. General Manager, ERLDC, 14 Golf Club Road, Tollygunj, Kolkata-700033.
2. The Chief Engineer(EI), CEA, 3rd Floor, NRPC, 18-A, SJS Marg, Katwaria Sarai, New Delhi-110016.
3. Dy. Director, RIO (E), CEA, 14 Golf Club Road, Tollygunj, Kolkata-700033.
4. Managing Director, OPGC.

**Anticipated Power Supply Position for the month of
Jul-17**

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
i)	NET MAX DEMAND	3900	2250
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	277	127
	- Central Sector	2893	1813
iii)	SURPLUS(+)/DEFICIT(-)	-730	-309
2	JHARKHAND		
i)	NET MAX DEMAND	1300	790
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	415	227
	- Central Sector	635	384
iii)	SURPLUS(+)/DEFICIT(-)	-250	-179
3	DVC		
i)	NET MAX DEMAND (OWN)	2780	1726
ii)	NET POWER AVAILABILITY- Own Source	4959	2711
	- Central Sector	551	411
	Long term Bi-lateral (Export)	1300	967
iii)	SURPLUS(+)/DEFICIT(-)	1430	429
4	ORISSA		
i)	NET MAX DEMAND	4350	2567
ii)	NET POWER AVAILABILITY- Own Source	3201	2048
	- Central Sector	1185	770
iii)	SURPLUS(+)/DEFICIT(-)	36	251
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAX DEMAND (OWN)	6205	3580
ii)	CESC's DRAWAL	0	0
iii)	TOTAL WBSEDCL's DEMAND	6205	3580
iv)	NET POWER AVAILABILITY- Own Source	3481	1951
	- Import from DPL	161	0
	- Central Sector	2743	1672
v)	SURPLUS(+)/DEFICIT(-)	180	43
vi)	EXPORT (TO B'DESH & SIKKIM)	10	7
5.2	DPL		
i)	NET MAX DEMAND	265	184
ii)	NET POWER AVAILABILITY	426	187
iii)	SURPLUS(+)/DEFICIT(-)	161	3
5.3	CESC		
i)	NET MAX DEMAND	1870	1016
ii)	NET POWER AVAILABILITY - OWN SOURCE	750	489
	FROM HEL	530	339
	FROM CPL/PCBL	0	0
	Import Requirement	590	188
iii)	TOTAL AVAILABILITY	1870	1016
iv)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAX DEMAND	8340	4780
ii)	NET POWER AVAILABILITY- Own Source	4657	2627
	- Central Sector+Others	3863	2011
iii)	SURPLUS(+)/DEFICIT(-)	180	-142
7	SIKKIM		
i)	NET MAX DEMAND	85	34
ii)	NET POWER AVAILABILITY- Own Source	10	7
	- Central Sector+Others	153	102
iii)	SURPLUS(+)/DEFICIT(-)	78	75
8	EASTERN REGION		
	At 1.03 AS DIVERSITY FACTOR		
i)	NET MAX DEMAND	20150	12147
	Long term Bi-lateral by DVC	1300	967
	EXPORT BY WBSEDCL	10	7
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	22799	13238
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	1339	116

Proposed Maintenance Schedule of Thermal Generating Units of ER during July, 2017
(as finalised in LGBR meeting)

System	Station	Unit	Size (MW)	Period		No. of Days	Reason
				From	To		
BSPTCL	MTPS (KBUNL)	2	110	15.07.17	15.08.17	32	Overhauling
	BTPS	7	105	15.07.17	31.07.17	17	Under S/D since 22.08.06. Presently under trial run. Gen. cons. full year.
JUSNL DVC	TVNL,	1	210	17.07.17	31.07.17	15	Annual Overhauling/Boiler Overhauling
	DSTPS	2	500	20.07.17	14.08.17	26	AOH (Blr, TG Brgs, LPT Gen)
ODISHA	TTPS	5	110	20.07.17	23.08.17	35	Boiler Overhaul + HPT + IPT
WBPDC	KTPS	3	210	25.07.17	05.02.18	196	R&M
	Bakreswar	4	210	09.07.17	29.07.17	21	Boiler Overhauling
	Bandel	4	60	01.07.17	31.10.17	123	Capital Overhauling & Departmental R&M
NTPC	TPS	4	60	01.07.17	31.10.17	123	Capital Overhauling & Departmental R&M
	FSTPS	3	200	01.07.17	04.08.17	35	Boiler, ESP R&M
	KhSTPS	6	500	13.07.17	16.08.17	35	Boiler, Turbine, Gen.

Applied for approval in 134th OCC

19	400KV Sundergarh-Raigarh fdr- I	04/07/2017	08:00:00	05-07--2017	18:00:00	ODB	ER-II/Odisha/Sundergarh TLM	For replacemet of Porceline insulator at various crossing span (624-625, 686-687, 675-676, 651-652, 628-629, 761-762, 750-751)by CLR polymer
31	400KV ROURKELA- SUNDARGARH#2	08/07/2017	09:00	08/07/2017	18:00	ODB	ER-II/Odisha/ROURKELA	Insulator replacement at Location No.- 7 & 236.
35	400KV ROURKELA-SEL#2	10/07/2017	09:00	10/07/2017	18:00	ODB	ER-II/Odisha/ROURKELA	Insulator replacement at Location No.- 57 & rectification of bundle spacer in span 195-196.
43	400KV ROURKELA- TALCHER#2	11/07/2017	09:00	13/07/2017	18:00	ODB	ER-II/Odisha/ROURKELA	Replacement of insulators at locations 281, 362, 452, 343 , 261, 429, 430, 443.
64	400 kV Jeypore-Indravati S/C Line	17/07/2017	06:00:00	18/07/2017	18:00:00	ODB	ER-II/Odisha/Jeypore	For Replacement of PID Defective Insulators in Jey-Ivt Line (If Not available in the month of June 2017) at Locations Loc.No. 27,34,48,71,107,109,111,121, 124,125,126,127,128,129,130, 131,135,139,144,145,147,148. of (7 tension towers replacement of 8 nos Double Strings) & (15 Suspension towers replacement of 20 nos.Single Strings).
294	400KV Rengali-Indravati line at Bolangir	04/07/2017	07:00	12/07/2017	18:00	ODB	ER-II/Odisha/BOLANGIR	Replacement of Porcelain insulators with Polymer insulators in major crossings (SD will be taken if not availed in May'2017) at Locations 1121-1122,929-930,773-774,931-932,1078-1079,1081-1082,913-914,1036-1037,1061-1062,1074-1075,1090-1091-1092. (It is incuded both Rengali portion i.e 931-1124 and Kishorenagar portion i.e 754-930) Bolangir- 538,539,564,565,590,591,676,677,681,682,741,742,743,747,748,749,750,751,752,753 Bhawanaipatna-201, 202, 247, 248, 258, 259, 333, 334, 338, 339,355, 356, 374, 375, 386, 387, 392, 393, 423, 424, 435, 436, 455, 456, 511, 512 & 538 (Total 27 nos towers)