

Agenda for 133rd OCC Meeting

Date: 26.05.2017

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

Eastern Regional Power Committee

Agenda for 133rd OCC Meeting to be held on 26th May, 2017 at ERPC, Kolkata

PART A

Item no. 1: Confirmation of minutes of 132nd OCC meeting of ERPC held on 21.04.2017

The minutes of 132nd OCC meeting were uploaded in ERPC website and circulated vide letter dated 09.05.2017 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 **April**, **2017** as informed by ERLDC is given below:

- 1) GT-2 BRBCL (Nabinagar) charged for the first time on 06:04hrs of 02-04-2017.
- 2) 125MVAR BR-2 at Alipurduar charged for the first time on 15:36hrs of 07-04-2017.
- 3) 400kV Darbhanga-Muzzafarpur-I charged for the first time on 19:20hrs of 07-04-2017.
- 4) 400kV Bus-I & II at Darbhanga charged for the first time on 21:33hrs of 08-04-2017.
- 5) 500MVA ICT-I at Darbhanga charged for the first time on 22:29hrs of 09-04-2017.
- 6) 220kV Bus-I & II at Darbhanga charged for the first time on 22:52hrs of 09-04-2017.
- 7) 125MVAR Bus Reactor-I at Darbhanga charged for the first time on 01:07hrs of 10-04-2017.
- 8) 220kV Samastipur-Darbhanga-SC charged for first the time on 14:00hrs of 16-04-2017.
- 9) 220kV Motipur-Darbhanga-I charged for the first time on 18:58hrs of 17-04-2017.
- 10) 220kV Motipur-Darbhanga-II charged for the first time on 18:12hrs of 22-04-2017.
- 11) 80MVAR switchable Line Reactor with 400kV Farakka- Gokarna-I at FSTPS, NTPC Farakka charged for the first time on 16:49hrs of 28-04-2017.

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 protection and control systems of Sub-stations in the State of Odisha in order to rectify protection related deficiencies.	10.05.15	10.05.17	162.5 Cr.	19.53 Cr	Total contract awarded for 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.	Hardware supplied and installed. SAT completed for pilot state Protection database management software (PDMS) delivered. Training on PDMS organised at Odisha.
5		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	BSPTCL	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	WBPDCL	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 Technol Economic sub group of PSDF and advised to
12c	Training on Power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents		submit revised proposal only for training at NORD POOL Academy with consideration of views of the group.

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.

PRDC may update.

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

UFR Healthiness Certification for the month of May, 2017 has been received from CESC and BSPTCL.

DVC WBSETCL, OPTCL and JUSNL may update.

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

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

GMR, JITPL, Vedanta, Chuzachen & Powergrid ER-II may submit the healthiness certificate for May 2017.

A. Testing of SPS at 400 kV Rangpo S/s

In 129th OCC, on query about SPS at 400kV level at Rangpo S/s for reliable power evacuation through 400kV Rangpo – Siliguri D/c, Powergrid informed that the SPS at Rangpo substation has been completed and the extension of signal to respective generation stations have been tested.

In 131st OCC, ERLDC informed that the SPS needs to be tested and the response time of each generator needs to be checked.

OCC advised to carry out the SPS test on 22.03.2017 and advised to review the response time of each generator on special meeting of 29.03.2017.

In the special meeting of 29.03.2017, ERLDC informed that as per the decision of 131st OCC, the SPS was tested on 24.03.2017 and the response time of Generators are as follows:

a) Teesta-III: 130 ms

b) Jorethang: 1.2 sec for SPS receipt

c) Cuzachen: 2.1 sec & 3.3 sec

The response time of Jorethang and Chuzachen needs to be reviewed and they should respond faster.

Further, Powergrid communicated that presently the scheme has been implemented using available resources and codes have been transferred through available PLCC panels without redundancy. As the SPS scheme is very important and also for future accommodation of Tashiding and Dikchu generations, fresh connectivity of the Logic signals and PLCC channel up gradation is required.

On getting concurrence from TUL regarding cost implications, necessary steps will be taken for implementation of the system through SCADA and dedicated data channels.

In 132nd OCC, ERLDC informed that another test may be done to check the SPS response time of above generators including Dikchu HEP.

OCC advised to carry out the SPS test on 26.04.2017 and check the response time of each generator.

Regarding upgradation of communication channel to provide redundancy for the SPS scheme, OCC advised to convene a special meeting for further discussion.

Respective members may update.

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.

CEA vide letter dated 15.05.2017 intimated that complete data has not been received from any ER constituents except Jharkhand. Odisha has furnished incomplete data. The CEA letter is attached at **Annexure-B.6**.

Members may discuss.

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, WBPDCL
- 3. Tata Power Islanding Scheme, Haldia
- 4. Chandrapura TPS Islanding Scheme, DVC

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, and CESC.

BkTPS, Tata Power may update.

B.7.2. FSTPS Islanding Scheme, NTPC

In 132nd OCC, NTPC informed that the FSTPS islanding scheme with U#1 has been implemented. NTPC's official communication is attached at **Annexure-7.2**.

OCC may decide further course of action.

B.7.3. Bandel Islanding Scheme, WBPDCL

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.

WBPDCL may update the latest status.

Item No. B.8: 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 persue 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.

DGPC/Powergrid may update.

Item No. B.9: 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 autoreclosure 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.

Powergrid may update.

Item No. B.10: Under utilization of 220 kV Ara (PG)-Pusauli New (Nadokhar) T/L and 220 kV Ara (PG)-Khagaul D/C T/L-- BSPTCL

BSPTCL vide mail dated 13.04.17 informed that despite all possible arrangements in BSPTCL system, high voltage problem (220 kV and 132 kV voltage goes upto 238 kV and 146 kV respectively) at Ara (PG) and Pusauli New (Nadokhar) GSS and connected sub-stations persists during off-peak hours, so to avoid any unwanted tripping and connected load loss at our system we have to switch off 220 kV Ara (PG)-Pusauli (Nadokhar) T/L from both end during OFF-Peak hours. Because of this, in case of power disturbance in 220kV Sasaram (PG)-Ara (PG) and 220 kV Sasaram (PG)-Pusauli New (Nadokhar) line complete power failure at Ara (PG) (load loss

160 MW) and Pusauli New (Nadokhar) (load loss 80 MW) respectively happens due to unavailability of 220 kV Ara(PG)-Pusauli New (Nadokhar) T/L

Also on closing the 220 kV Patna (PG)-Khagaul-Ara (PG) loop, there remains continuous back feed of power from Khagaul GSS to Ara (PG) (of the magnitude of 100 MW during OFF-PEAK and 150 MW during PEAK hours), which causes overloading of 220 kV Patna (PG)-Sipara D/C T/L during PEAK hour. So we are forced to take this loop out of service at Ara (PG) end. Because of this, in case of power disturbance in 220 kV Patna (PG)-Khagaul-Sipara or at Patna (PG) complete power failure at Khagaul GSS with load loss of 250 MW happens due to unavailability of 220 kV Patna (PG)-Khagaul-Ara (PG) loop.

Above stated problem is causing under utilization of 220 kV Ara (PG)-Pusauli New (Nadokhar) T/L and 220 kV Ara (PG)-Khagaul D/C T/L. Also reliability of system at Ara (PG), Pusauli New (Nadokhar) and Khagaul GSS is getting badly affected. System reliability at these sub-stations can be increased if Ara (PG) feeds power to Khagaul GSS on closing the 220 kV Patna (PG)-Khagaul-Ara (PG) loop {which at present gets reverse feed from Khagaul to Ara (PG)}.

As in a single day we observe both high voltage and low voltage problem in Ara (PG) and Sasaram (PG) area, so we are unable to reach at any permanent solution.

Voltage profile of 220 kV Khagaul, 220 kV Ara (PG) and load profile of 220 kV Patna (PG)-Sipara and 220 kV Ara (PG)-Khagaul for the month of March 2017 along with respective line diagram has been enclosed.

In 132nd OCC, ERLDC informed that tap positions of Sasaram ICT is being changed to resolve the high voltage problem.

OCC felt that for long term solutions a system study needs to be carried out and requested ERLDC to carry out a joint system study with BSPTCL along with all the details (line loading, ICT tap etc.).

Members may discuss.

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.

WBPDCL 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, WBPDCL 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, WBPDCL 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).

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

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, WBPDCL 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.

JUSNL/WBPDCL/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)

OCC requested constituents to submit the details of their ADMS scheme to ERLDC.

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, Vedanta updated the latest status as follows:

Activities	Nos	Status as updated in 35 th TCC	Status as updated in 132 nd OCC	Remarks
Tower Foundation	64	64	64	Completed
Tower Erection	64	59	61	
Stringing /OPGW	20.5	9 km completed	11.6 km	
Cabling & Testing	Km	7 km completed	completed	
Sub station Bay	2	Bay construction	Testing going	

	completed	on	

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.

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 & Biharsariff S/Ss or ER. The latest status on the same are:

- 400 kV Maithon --- Completed
- 400 kV Durgapur--Completed
- 400 kV Biharshariff—Foundation work has been completed but shutdown are yet to be received to complete the work.

In 130th OCC, Powergrid informed that physical bus splitting at 400kV Biharshariff 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.

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 132nd 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.

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 Powergid 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).

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 LILOing 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:

SI. No.	Name of the transmission line Completion schedule				
1.	2x315MVA 400/220kV Bolangir S/s	-			
a.	LILO of one circuit of Sadeipalli-Kesinga220 kV D/C line at Bolangir S/S	Only 7 towers left (Severe ROW problem). By May, 2017.			
b.	LILO of one circuit of Katapalli-Sadeipalli220 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.	LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	May, 2017			

OPTCL may update.

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

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

SI. No.	Name of the transmission line	Completion schedule
1.	Chaibasa 400/220kV S/s	1
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
С	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:

SI. 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>)	Tower erection completed. April, 2017			
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			

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 (WBPDCL)-	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 (WBPDCL)	Completed on 25 th February, 2016
18)	400kV Bakreswar (WBPDCL)	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
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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.

Third party protection audit of the following sub-stations was carried out from 17-05-2017 to 19-05-2017:

- 1. 400kV Maithon (PG)
- 2. 132kV Gola (DVC)
- 3. 132kV Barhi (DVC)
- 4. 132kV Koderma (DVC)
- 5. 132kV Kumardhubi (DVC)
- 6. 132kV Ramkanali (DVC)

Members may note.

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

UFR testing of following substations was carried out on 17-05-2017 & 19-05-2017

- 1. 132kV Koderma (DVC)
- 2. 132kV Kumardhubi (DVC)

The proposed UFR audit schedule is placed below:

Sl No	Proposed Date	Substation/feeder inspected by the sub-group
1		220/132/33 KV Kalyaneswari of DVC
2	June, 2017	220/132/33 KV New Bishnupur of WBSETCL
3		132/33 KV Old Bishnupur of WBSETCL
4	July, 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.

Members may note and comply.

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, WBPDCL 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 WBPDCL has received certification of IS 18001:2007 from BIS on 29.04.2016.

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

In 130th OCC, WBPDCL 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 Postion 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.

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

JUSNL may update.

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 May-2017 is given below:

SI No	State/Utility	TTC (MW)	RM(MW)	ATC (Import) MW
1	BSPTCL	3792	86	3716
2	JUSNL	829	100	729
3	DVC			
4	OPTCL	1528	88	1100(LTA),340
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.

Powergrid may update.

b) 400kV Patna-Kishenguni 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 riveron 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.

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 132nd OCC, ENICL informed that line will be restored by last week of June, 2017.

ENICL may update.

d) Tie bay of 125MVAR Bus reactor and 400kV Indravati-Indravati and Indravati(PG):

Under outage wef 18/03/16 due to R-Ph pole bursting of Tie CB. Due to non-availability of the tie bay, the Buses are coupled only via the tie bay of 400kV Rengali-Indravati and 400kVIndravati-Jeypore at Indravati and any outage of the lines would result in decoupling of the Buses.

In 125th OCC, Powergrid informed that main CB has some problem which will be taken care by OHPC/OPTCL.

In 129th OCC,OPTCL informed that the CB has reached at the site. The installation work will be completed by February,2017.

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

In 132nd OCC, OPTCL informed that the testing has been completed and the work will be completed by end of April 2017.

Powergrid/OHPC may update.

e) 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.

DVC may update.

f) 315MVA ICT-I at Meramundali

The ICT is under outage wef 12/11/16 due to damage after B-ph LA blasting.

In 131st OCC, OPTCL informed that the ICT will be in service by first week of April, 2017.

In 132nd OCC, OPTCL informed that transformer work has been completed and the inspection work is going on.

OPTCL may update.

g) 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.

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	Substation Transformer Tertiary Charged (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

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 Sonnagar-Rihand-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 Sonnagar-NPGC 132KV LILO section of 132kV Sonnagar-Rihand-I line keeping the line open at Rihand end. The letter is attached at **Annexure-B.25**.

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.

Powergrid/ ERLDC may update.

Item No. B.27: 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.

Powergrid may please update the status.

Item No. B.28: Non Receipt of meter Data -- ERLDC

1. FSTPP NTPC

400 KV FSTPP-Gokarna (WB) Line-1 & 2 has already been charged and synchronized on 28.03.17 & 29.03.17 respectively. Main & Check meter has been installed at Farakka end of D/C Line. FSTPP NTPC was requested to send SEM data to ERLDC by every Tuesday. It has been seen that in spite of ERLDC request Farakka, NTPC is not sending the data of Genus Meter (Main & Check both) installed at Farakka end of Gokarana Line-1.

In 132nd OCC, NTPC informed they will make the arrangement to send the data at the earliest.

NTPC may please update.

2. 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.

BSPTCL may please respond.

3. 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.

OPTCL & PGCIL may please respond.

4. 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.

PGCIL may please respond.

Item No. B.29: 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.

NTPC and NHPC may nominate.

Item No. B.30: 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.

PGCIL may update.

Item No. B.31: 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.

132nd OCC advised all the respective constituents to ensure the availability of telemetry data to ERLDC. The updated status is enclosed at **Annexure- B.31**.

Members may update.

Item No. B.32: 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.

Powergrid 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, which is given at Annexure- B.33.

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: BSPTCL Agenda

1. 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.

KBUNL may explain.

2. Charging of 132 kV NPGC-Rihand (UP,NR) T/L

Despite submitting required format for first time charging of 132 kV NPGC - Rihand (UP,NR) T/L after LILO of 132 kV Sonenagar-Rihand (UP,NR) T/L at NPGC, code for charging 132 kV NPGC - Rihand (UP,NR) T/L from NPGC upto Rihand (UP,NR) on no-load is not made available by ERLDC/NRLDC/NLDC. Charging of this line is must from anti-theft point of view.

ERLDC may explain.

3. Loading of 220 kV Pusauli (PG)-Sahupuri (UP,NR) T/L

This BSPTCL line is very old (about 37 years) and so loading should be restricted to 160 MW. It is found that load on this line remain around 175/180 MW during peak hours. On date 16.05.2017 load was around 216 MW, SLDC, BSPTCL had sent mail to ERLDC also to reduce load to 160 MW.

Members may discuss.

Item No. B.37: WBSETCL Agenda

- 1. Non completion of Main bay 400kV Farakka-Gokarna line II at FSTPP end.
- 2. Creating contingency by FSTPP in WBSETCL network by not returning 400kV Main bus-lafter taking shutdown
 - On 14.04.2017: taken from 08:00hrs to 15:08hrs against proposed 07:00hrs to 10:00 hrs
 - On 07.05.17: taken from 11:52 hrs to 00:10(next day) against proposed 100:00 hrs to 12:00hrs
- 3. Web based scheduling page cannot be accessed by any other browser other than google chrome

Members may discuss.

Item No. B.38: 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 location s)	Installed Locations	1st set of Measurements submitted	2nd set of Measureme nts submitted	3rd set of Measureme nts submitted	Measureme	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						
4th set 5th set 6th set						
21st -30th Sep 2016	21st -31st Jan 2017	21st -31st May 2017				

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.39: 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:

	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	•
1	U.Kolab	Last week of May, 2017	3 '	Last Week of January2018	
2	Maithon			1stWeek of February2018	
3	Rengali	2ndweek of June 2017		Last week of November 2017	

4	U. Indarvati	3rdweek ofJune 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.40: 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 126thOCC 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 13.04.17, at 09:36 hrs, due to tripping of Karad & kohlapur ICT's, the Load loss of 1840 MW took place.
- (2) On 26.04.17, at 10:01 hrs,due to tripping of Karad & kohlapur ICT's, the Load loss of 900 MW took place.

ERLDC may update.

Item No. B.41: Presentation on weather website for Eastern Region

ERLDC-IMD has developed a weather website for Eastern Region. The information provided on this website is dedicated to Power System operators. ERLDC would deliberate the detail features available in the website which would be beneficial for the users during preparation of their load forecast in the OCC meeting. All the beneficiaries are requested to furnish their load forecast data to ERLDC on daily basis using weather data information available in ERLDC website.

Members may discuss.

Item No. B.42: Reactive Power performance of Generators

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

Power Plant	Max and Min Voltage	Date for monitoring (April 17)
	observed for April 17 (KV)	
Farakka STPS	428,402	20,24
Khalgaon STPS	425,406	20,24
Talcher STPS	406,393	18,20
Teesta	427,394	18,20
Bakreshwar TPS		
Kolaghat TPS		
Sagardighi TPS		
MPL	420,405	10,24
Mejia-B	421,407	8,24
DSTPS	426,412	15,20
Adhunik TPS	421,406	17,20
Sterlite	412,403	8,15
Barh	426,401	20,24
JITPL	410,404	17,18
GMR	408,400	3,17
HEL		
Kodarma	426,403	11,24

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 June'17

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of June'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 June'17

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

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

1. Shutdown of Kahalgaon STPS unit 4--NTPC

Shutdown of Kahalgaon STPS unit 4 is pre-pone to 28th May 2017 for 35 days due to coal shortage. Details are placed in **Annexure-C2.1.**

2. Shutdown of 132 kV Sahupuri (UP,NR)-Karmnasa & 132 kV Chandauli (UP,NR)-Karmnasa T/Ls.--BSPTCL

Shutdown of 132 kV Karamnasa - Sahupuri (UP) & 132 kV Chandauli (UP) - Karmnasa tr lines are required for construction of CVT foundation and erection of wave trap in Sahupuri bay at Karmnasa GSS. Since the clearance of CVT foundation area to the line is less than one meter, so for safety concern shutdown of said lines are required on daily basis from 08:00 hrs to 18:00 hrs from 01/06/17 to 03/06/17.

It is to be noted that above line remains charged on no load from Sahupuri end (open at Karmnasa end). This work is important from protection point of view at Karmnasa end.

3. Insulator Replacement programme for the month of June'2017.

The Schedule of insulator replacement submitted by Powergrid Odisha projects for June 17 is enclosed at **Annexure-C2.3.** Schedule of POWERGRID/ER-II is given below:

SI No.	Name of TL	Description of Work	Remarks
1	220 KV MALDA DALKHOLA-D/C.	Replacement of porcelain insulators with CLR insulators.	Complete replacement of insulators.
2	132kV SILIGURI KURSEONG	DO	Railway crossing, NH/SH Crossings. S/D will be availed only if work pending during railway diversion period.
3	132kV SILIGURI-MELLI	DO	Complete replacement of insulators.
4	132KV KURSEONG RANGIT	DO	Complete replacement of insulators.
5	132KV RANGPO-MELLI	DO	Complete replacement of insulators.

6	132KV MELLI-RANGIT	DO	Complete replacement of insulators.
7	132KV RANGPO CHUZACHEN	DO	Complete replacement of insulators.
8	132KV RANGPO-RANGIT	DO	Complete replacement of insulators.
9	132KV RANGPO GANGTOK	DO	Complete replacement of insulators.
10	132KV RANGIT-RAMMAM	DO	Complete replacement of insulators.
11	400 KV DURGAPUR JAMSHEDPUR.	DO	Railway crossing, NH/SH Crossings.
12	400 KV FKK-DGP-2.	DO	Railway crossing, NH/SH Crossings.
13	400 KV JEERAT SUBHASGRAM.	DO	National Highway/State highway/River crossing.
14	400 KV Sagardighi- SUBHASGRAM.	DO	National Highway/State highway/River crossing.

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.

4. Shut-down of 400kV D/C Binaguri-Bongaigaon TL Ckt-I & II due to conductor theft.

400 KV D/C Binaguri-Bongaigaon TL Ckt-I & II kept under S/D on various occasions (Mainly during low hydel season) and also was under continuous shut down w.e.f 18/04/2017 to 10/05/2017 due to Railway Diversion work. During system constraints of ER/NER grid, permission for Anti-theft charging are not always provided specifically during S/D activity, in general, antitheft permission from Bongaigaon end was not allowed. Since, the line is passing through theft prone areas , it has been observed that conductor theft (outer layers) has been noticed in several spans for which we require Shut-down on OCB basis from Mid of June-17 for 5 (Five) days Ckt-wise. Copy of FIR enclosed as ready reference. Tentative schedule are given below for reference:

SL	Name	Name of element			To date	From	То	Nature
NO				date		time	time	
01.	400	ΚV	BINAGURI-	20.06.17	24.06.17	08:00	17:00	OCB
	BONGAIGAON-I.							
02.	400 KV BINAGURI		25.06.17	29.06.17	08:00	17:00	OCB	
	BONG	SAIGAC	N-II.					

Members may approve.

5. Shut-down of 220kV D/C Birpara-Chukha & 220kV S/C Birpara-Malbase due to Course Change of River Torsa.

Due to River course change (Torsa) towers between loc no.-81-84 of 220kV D/C Birpara-Chukha TL and loc no. 39A-44 of 220kV S/C Birpara-Malbase TL have come near to River. As such, urgent diversion of the two lines are required. Already foundation completed, however for erection & Stringing work we require S/D of 220kV D/C Birpara-Chukha for 10 days on continuous basis & 220kV S/C Birpara-Malbase for 3(three) days on continuous basis. Tentative schedule is given below for discussion:

SL NO	Name of element			From date	To date	From time	To time	Nature
01.	220	K۷	BIRPARA-	05.06.17	14.06.17	08:00	17:00	OCB
	CHUK	HA-D/C						

02.	220	KV	BIRPARA-	15.06.17	17.06.17	08:00	17:00	OCB
	MALB	ASE						

Members may approve.

6. Impedance measurement of important 400 KV Lines in ER-II.

ER-II has already procured impedance measurement kit for actual measurement of impedance. This measurement will help Relays to locate fault more accurately thus reducing patrolling time. For June month following lines are proposed for measurements:

SL NO	Name of element	From date	To date	From time	To time	Nature
01.	400 KV Maithon-Jamshedpur.	10.06.17	10.06.17	08:00	17:00	ODB
02.	400 KV Mejia-Jamshedpur	11.06.17	11.06.17	08:00	17:00	ODB
03.	400 KV Maithon-Mejia-I	12.06.17	12.06.17	08:00	17:00	ODB
04.	400 KV Maithon-Mejia-II.	13.06.17	13.06.17	08:00	17:00	ODB

As this is an activity carried out for system improvement, it is requested to consider the outages as per CERC regulations for non-attributable to POWERGRID.

Members may discuss.

7. Shut down of 50 MVAR Temporary Bus Reactor of Berhampur SS.

As per NLDC requirement and ERPC decision, 50 MVAR Temporary Reactor commissioned at Berhampur to mitigate the voltage rise issue in winter season. The Reactor commissioned on 29.12.16. However, under ERSS-XV, one permanent 125 MVAR Reactor is going to be commissioned at Berhampur. The construction/Erection activity of the upcoming bays are severally affected as the Temporary Reactor is charged through ERS.

Considering the requirement of the construction, it is proposed to allow the S/D of the Reactor till the construction activity finished. Expected shut down requirement is 02 Month i.e. up to July'2017.

Members may discuss.

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

(i) Generating units:

Generating Station	UNIT	CAP(MW)	REASONS FOR OUTAGE	OUTAGE DATE	Restoration
JITPL	1	600	COAL SHORTAGE	5-May-17	
JITPL	2	600	INITIALLY OUT DUE TO LEAKAGE	24-Mar-17	
FSTPP	3	200	OUT TO ATTEND MINOR	17-May-17	
RAGHUNATHPUR	2	600	COAL SHORTAGE	23-Mar-17	
KODERMA	1	500	BOILER TUBE LEAKAGE	19-Jan-17	
TENUGHAT	2	210	TURBINE MAINTENANCE	7-Nov-16	
KOLAGHAT	2	210	DESYN DUE TO POLLUTION	24-Feb-17	
KOLAGHAT	3	210	TUBE LEAKAGE	22-Feb-17	
SAGARDIGHI	4	500	COAL SHORTAGE	12-May-17	
SAGARDIGHI	2	300	COAL SHORTAGE	11-May-17	
MEJIA	2	210	STATOR EARTH FAULT	14-Apr-17	
MEJIA B	8	500	BOILER TUBE LEAKAGE	11-May-17	
BOKARO B	3	210	ECONOMIZER TUBE LEAKAGE	16-May-17	
BOKARO B	1	210	BOILER TUBE LEAKAGE	11-Apr-17	

BOKARO A	1	500	ASH EVACUATION PROBLEM	9-May-17
WARIA	4	210	ECONOMIZER TUBE LEAKAGE	9-May-17
GMR	1	250	COAL SHORTAGE	13-May-17
TENUGHAT	1	210	LEAKAGE IN REHEATER	17-May-17
BAKRESHWAR	4	210	BOILER TUBE LEAKAGE	16-May-17

(ii) Transmission elements

Name of the Line/Element	Outage Date	Reason
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 TOWER ARE BADLY DAMAGED AT LOCATION 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 BOKARO-KODERMA-D/C	13.05.17	TOWER COLLAPSE AT LOC NO 172 AND 173
400 KV FARAKKA-KAHALGAON-I-II	15.05.17	TOWER COLLAPSE AT LOC NO142,143 AND 144
765 KV GAYA VARANASI-I	17.05.18	TOWER COLLAPSE AT LOC NO 66,67,68. Peak of
220 KV GAYA DEHRI D/C	17.05.19	TOWER BENDING; Z-1;56.33 KM,Y_N;1.5 KA @ DEHRI,II:R-Y-B

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.

PART D:: OTHER ISSUES

Item no. D.1: UFR operation during the month of April'17

System frequency touched a maximum of 50.26 Hz at 18:02Hrs of 30/04/17 and a minimum of 49.66 Hz at 19:15Hrs of 18/04/17. 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 April'17.

Members may note.

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

Sr No	GD/ GI	Date	Time	Affected System	Summary
1	GD - I	02/04/2017	19:01	JUSNL	At 19:01 hrs, 132 kV Ramchandrapur – Adityapur D/C along with 220/132 kV ATR II & III and 220 kV B/C at Ramchandrapur tripped resulting due to B-N fault at 132 kV Adityapur – Ramchandrapur – I (B phase insulator string was completely broken). At the same time, 132 kV Adityapur – Chandil S/C, 132 kV Adityapur – Rajkarswan S/C & 132 kV Chandil – Rajkarswan S/C tripped
2	GD - I	05/04/2017	15:52	JUSNL	At 15:37 hrs, 220 kV Ranchi – Chandil tripped due to B-N fault. Remaining 220 kV feeders at Chandil, 220 kV Ramchandrapur – Chandil and 220 kV STPS – Chandil S/C tripped at 15:52 hrs resulting power loss at Chandil and its adjacent areas.
3	GD - I	09/04/2017	18:49	BSPTCL/ISTS	At 18:49:50.54 hrs, 400/220 kV ICT – III at Biharshariff tripped from 400 kV side due to operation of o/c protection. After the tripping of 400/220 KV ICT – III, other two ICTs got overloaded and tripped in O/C protection from HV side.
4	GD - I	26/04/2017	20:24	BSPTCL/ISTS	At 20:24 Hrs, 400/220 kV ICT-I,II,III at Biharshariff tripped on o/c. At same time, 220/132 KV ATRs at Biharshariff also tripped. Some part of load was being fed through 220 kV Tenughat - Biharshariff S/C.
5	GD - I	28/04/2017	00:02	BSPTCL/ISTS	400/220 KV 315*3 MVA ICTs at Biharshariff tripped at 00:02 hrs. At 00:02 hrs, bursting of Y Phase CT of 132 kv side of 220/132 kV ATR - III AT Fatua resulted tripping of all 400/220 kV ICTs at Biharshariff in back up O/C. At same time, 220 kV Biharshariff - Fatua D/C also tripped.

6	GD - I	13/04/2017	14:05	JUSNL	At 14:05 hrs, 220 kV Ranchi – Chandil and 220 kV Chandil – STPS S/C tripped from Chandil end due to fault in 220/132 kV ATR – IV at Chandil. Local load at Chandil was unaffected as it was being fed through 132 kV Manique – Manique S/C.
7	GD - I	29/04/2017	15:57	ISTS	At 15:57 hrs due to inclement weather around Teesta 3 and Dikchu, 400 kv Teesta3-Dikchu tripped on R-N fault. At same time 400 KV Teesta3-Rangpo tripped on DT receipt at Rangpo end resulting tripping of all running units at Teesta 3 and Dikchu due to loss of evacuation path
8	GI-II	19/04/2017	15:45	ISTS	Due to sudden thunderstorm with lightning and heavy winds at Jharsuguda S/S at 15:45 hrs, connectors in 70989A ,71289A ,71389A and 71689A isolators were broken and the conductors were free hanging. As a result 765/400 kV ICTs along with lines i.e. 765kv Jharsuguda-Angul D/C & 765kv Jharsuguda - Dharamjaygarh D/C tripped due to phase to phase fault.
9	GI-II	21/04/2017	20:17	OPTCL	Due to R phase LA burst of 400 kV Meramundali - Angul - II at Meramundali end, multiple elements tripped from Meramundali end. As 220 kV bus was not dead, there was no load loss
10	GD - I	18/04/2017	12:35	ISTS	400 kV Muzaffarpur - Darbhanga - I was under s/d. 400 kV Muzaffarpur - Darbhanga - II tripped on B-N fault resulting load loss at radially connected area such as Darbhanga, Sitamari, Pandual, Madhubani etc.
11	GD - I	19/04/2017	22:56	ISTS	400 KV Muzaffarpur-Darbhanga-I was under breakdown. Load at Samastipur, Motipur, Musari and Darbhanga were fed through 400/220 kV ICT - I at Darbhanga. So tripping of ICT resulted loss of all radially connected load (including 15 MW traction load).
12	GD - I	20/04/2017	04:54	ISTS	400 KV Muzaffarpur-Darbhanga-I and 400 kV bus - I at Darbhanga were under breakdown. Load at Samastipur, Motipur, Musari and Darbhanga were fed through 400/220 kV ICT - I at Darbhanga. So tripping of ICT resulted loss of all radially connected load.
13	GD - I	20/04/2017	15:27	ISTS	400 KV Muzaffarpur-Darbhanga-I and 400 kV bus - I at Darbhanga were under breakdown. Load at Samastipur, Motipur, Musari and Darbhanga were fed through 400/220 kV ICT - I at Darbhanga. So tripping of ICT - I due to hard wire problem at bay 401 resulted loss of all radially connected load.
14	GD - I	24/04/2017	09:42	BSPTCL	400/220 kV ICT - I at Darbhanga was out of service due to over flux. Other 400/220 kV ICT at Darbhanga along with 400 kV Muzaffarpur - Darbhanga - II tripped due to LBB operation at Darbhanga.
15	GD - I	26/04/2017	16:16	WBSETCL	All 220/132 kV ATRs at Lakhikantapur tripped when 132 kV strung bus of 220/132 kV ATR - II fell on main bus. As Lakhikantapur was being radially fed from 220 kV, power interruption occurred at Lakhikantapur, Joka, Sirakol, Falta, Kakdeep
16	GD - I	29/04/2017	20:38	BSPTCL	Due to CT failure of 220/132 kV ICT at Bodhgaya, 220 kV Gaya - Bodhgaya D/C tripped from Bodhgaya end only resulting load loss at surrounding areas.
17	GD - I	22/04/2017	20:04	WBSETCL/ ISTS	At 20:04 Hrs, 400 KV Haldia-Subhasgram D/c tripped due to B_N fault. Consequently, 2 running units generating 300 MW tripped at Haldia tripped due to loss of evacuation path. At same time 220 kV CESC - Subhasgram - I also tripped
18	GD - I	25/04/2017	19:09	DVC	Due to B phase Bulk oil CB failure in HV side of 132/33 kV ATR - II at Jamshedpur (DVC), both 220 & 132 kV bus became dead at affected s/s

19	GD - I	13/04/2017	15:03	BSPTCL	Radial load fed from Hazipur, Vaishali, Chapra and Shetalpur and traction load at Bela and Sonepur was shed due to tripping of 220 kV Muzaffarpur - Hazipur D/C on Y-B-N fault.
20	GD - I	15/04/2017	08:48	Sikkim	Due to increment weather condition, 132 kV Chujachen - Gangtok and 132 kV Rangpo Gangtok tripped on R-N fault. 132 kV Rangpo Gangtok tripped from Rangpo only
21	GD - I	19/04/2017	11:50	ISTS	220 kV Arrah - Sasaram S/C and 220 kV Arrah - Khagul D/C were in opened condition. 220 kV Arrah - Nandokhar tripped due to O/V at Nandokhar.
22	GD - I	28/04/2017	17:23	WBSETCL	At 17:32 Hrs, all running units (2,4,5) at Bandel tripped and generation became zero due to Bus fault at 132kv side for Y-phase CT failure at Bandel.

Members may note.

Item no. D.4: Any other point

IMMEDIATE





भारत सरकार

Government of India विद्युत मंत्रालय

Ministry of Power केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority ग्रिड प्रबंधन प्रभाग

Grid Management Division

FAX MESSAGE

FROM

CHIEF ENGINEER, GRID MANAGEMENT

TO

MEMBER SECRETARY, ERPC

SUB

DATA FOR MERIT ORDER OPERATION PORTAL

No. 1/AI/COR/GM/2017/939

DATED: 15.05.2017

Please refer to this division's letter no. 1/AI/COR/GM/2017/798-833 dated 13.04.2017 requesting to forward necessary data in respect of various States/UTs of your region for development of merit order portal. In this regard, it is to state that despite repeated reminders from this division, data for merit order portal has not been received from any of the states except that of Jharkhand. The data has also been received from Odisha, but it is incomplete.

Hon'ble Union Minister of Power in the Conference of Power, New & Renewable Energy & Mines Ministers of States & UTs held on 3rd and 4th May, 2017 had expressed concern regarding non-availability of required data for Merit Order Portal, and requested the states to provide the same to CEA, without any delay.

In view of the above it is requested to take up the matter with the ER States/UTs and get the requisite data forwarded to this division in the prescribed Excel format without any delay.

(Dinesh Chandra)

Chief Engineer





फरक्का / Farakka

संदर्भ संख्या/Ref. No. :FS:42:GM-O&M::

दिनांक / Date: 27.04.2017

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

Sub: Islanding Scheme of Farakka STPS.

Dear Sir,

With reference to NTPC-Farakka Islanding Scheme, hooking of command to C&I control panels of Unit-1 was done during last overhauling of the unit (14th March,2017 to 17th April,2017). After overhauling, Islanding Scheme has been commissioned in Unit-1 of NTPC, Farakka.

This is for your kind information please.

Thanking you,

Yours faithfully,

(श्री कृष्ण सि'ह / S.K.Singh)

(महाप्रबंधक (प्र व आ) /General Manager(O&M)

Copy to:

1. GM,ERLDC,Kolkata: for kind information pl.

2. RED(ER-1),NTPC Ltd., Patna : for kind information pl.

3. ED(OS),NTPC Ltd.,Noida : for kind information pl.

4. ED(Farakka), NTPC Ltd.: for kind information pl.

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

2. Month:

3. Year:

Renewable Resources/Organizations		apacity (MW) as of the month	on last date		ion (MU) d onth : Janu		Cumulat	ive Generat	tion (MU)
Renewable Energy Resources 1. Wind	Central Sector	State Sector	Private Sector	Central	State	Private	during Central	the 1st Apr	Private
2 a. Solar (1 MW & above)			Sector	Sector	Sector	Sector	Sector	Sector	Sector
2 b. Solar (Less than 1 MW) 3. Biomass									
. Bagasse									
. Small Hydro (1 MW to 25 MW)									\
. Any Other (Please Specify the resources) Total									

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

S. No.	Dagian	Name of Substation	Transformer tertiary
S. 1VO.	Region	Name of Substation	Charged
1		PATNA	Yes
2		MUZAFFARPUR	Yes
3		NEW PURNEA	Yes
4		LAKHISARAI	Yes
5		BANKA	Yes
6		BIHARSARIF	Yes
7		ARA(220)	Yes
8	ER I	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.erpc@gov.in" <eeop.erpc@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 प्रिड 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। शूँकि सूचना को अवरुद्ध, भ्रष्ट, लुप्त, नष्ट, विलंबित, अपूर्ण अथवा संक्रमित किया जा सकता है अत: प्राप्तकर्ता यह मानता है कि इलेक्ट्रॉनिक मेल में परिवर्तन किए जा सकते हैं एवं उनके सुरक्षित या त्रुटिमुक्त होने की गारंटी नहीं दी जा सकती। इसलिए पावरप्रिड इस संदेश अथवा इसके संतप्रकों 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 आश्चित प्राप्तकर्ता(ऑ) के एकमात्र उपयोग के लिए है और इसमें कुछ गोपनीय और विशिष्ट जानकारी हो सकती है। यदि आप आश्चित 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 का किसी भी प्रकार से (चाहे पूर्णत: या अशतः) अनिधकृत प्रयोग, प्रकटीकरण या उसकी प्रतियां बनाना सर्वथा निषद्ध है और यह एक ग़ैर-कानूनी कृत्य हो सकता है।

20/04/17, 5:47 PM 1 of 1



भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति

Eastern Regional Power Committee

14, गोल्फ क्लब रोड, टालीगंज, 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.

- 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.

Long term issues with real time data availability in eastern region:-

- ➤ Another 31 days gone but JITPL data yet be restored by JITPL.(JITPL Stopped reporting to ERLDC since Dec 13,2016)
- No redundant Communication channel in eastern region for real time telemetry over IEC 101, IEC 104 as well as over ICCP protocol.

No VOICE over VOIP

- **▶** <u>IPP</u> : JITPL, GMR, **IBEUL**.
- ► <u>POWERGRID</u>: Bolangir, Indravati, Jeypore, Keonjhar, Purnea 400 kV, Purnea 220, Baharampur 400kV, Rourkela, Lakhisarai, Rengali, Dalkhola (PG), Birpara, Kishanganj,,Pandiabili.
- ➤NTPC : Nabinagar.

Non availability of Unit side data

- > Farakka Unit #6, Unit #5 (erroneous data).
- > Barh Unit #5 HV data.
- Sagardighi Unit #3.
- > Teesta V HPS unit data.
- > Rangit HPS GT Data.

OLTC

- NEW SASARAM @ 1500 MVA 765/400 kV ICT 1
- 2. ANGUL @ 1500 MVA 765/400 kV ICT 1
- 3. ANGUL @ 1500 MVA 765/400 kV ICT 3
- 4. ANGUL @ 1500 MVA 765/400 kV ICT 4
- 5. JHARSUGUDA @ 1500 MVA 765/400 kV ICT 1
- JHARSUGUDA @ 1500 MVA 765/400 kV ICT 2
- BOLANGIR @ 315 MVA 400/220 kV ICT 1
- BIHARSHARIF @ 315 MVA 400/220 kV ICT 1
- 9. BIHARSHARIF @ 315 MVA 400/220 kV ICT 3
- 10. INDRAVATI (2ND ICT) @ 315 MVA 400/220 kV ICT 1
- 11. INDRAVATI (2ND ICT) @ 315 MVA 400/220 kV ICT 2
- 12. KEONJHAR @ 315 MVA 400/220 kV ICT 1
- 13. KEONJHAR @ 315 MVA 400/220 kV ICT 2
- 14. MALDA @ 315 MVA 400/220 kV ICT 1
- 15. MUZAFFARPUR @ 315 MVA 400/220 kV ICT 3
- 16. RANCHI @ 315 MVA 400/220 kV ICT 1

OLTC

- 19. RANCHI @ 315 MVA 400/220 kV ICT 2
- 20. RENGALI @ 315 MVA 400/220 kV ICT 2
- 21. ROURKELA @ 315 MVA 400/220 kV ICT 3
- 22. CHAIBASA @ 315 MVA 400/220 kV ICT 1
- 23. CHAIBASA @ 315 MVA 400/220 kV ICT 2
- 24. CHAIBASA @ 315 MVA 400/220 kV ICT 3
- 25. SUBHASGRAM @ 315 MVA 400/220 kV ICT2
- 26. KISHANGUNJ @ 500 MVA 400/220 kV ICT 1
- 27. KISHANGUNJ @ 500 MVA 400/220 kV ICT 3
- 28. BARH @ 200 MVA 400/132 kV ICT 1
- 29. BARH @ 200 MVA 400/132 kV ICT 2
- 30. LAKHISARAI @ 200 MVA 400/132 kV ICT 3
- 31. ARRAH @ 100 MVA 220/132 kV ICT 1
- 32. ARRAH @ 100 MVA 220/132 kV ICT 2

NTPC

- Lalmatia: Partial data is coming.
- Farakka STPS:
 - Unit #5 MW and MVAr data not matching with site data (As per inputs from NTPC, This will be done during overhauling of Unit#5)
 - >Unit # 6 LV side not available.
- ➤ Nabinagar NTPC :
 - > Alternate Data channel not provided.
 - ➤ Unit HV side data.
 - >No VOIP.
- **▶Barh STPS:**
 - ➤ MW/MVAr flow of Patna 1,Patna 2, Gorakhpur 2, Kahalgaon -2, HV side of Unit #5.

POWERGRID

- Data Intermittent /not available:
 - Purnea 400kV (Frequent Failure of RTU)
 - Ranchi 400kV, Baripada, Gaya, Angul, Chaibasa, Banka, Lakhisarai.
- > VOIP for following station not yet provided:
 - ➤ Bolangir , Indravati , Jeypore , Keonjhar
- > VOIP not Working:
 - Purnea 220 , Baharampur 400kV , Rourkela , Lakhisarai, Rengali, Dalkhola , Birpara, Kishanganj, ,Pandiabili.

IPP

- ► <u>IBEUL</u>: Data and Voice is not available after opening LILO connection. Stand by channel upto Back up ERLDC not provided.
- > JITPL: No data as well voice communication available between JITPL and ERLDC.
- > TEESTA #3 : VOIP started working. Stand by channel not yet provided.

WBSETCL

- > Following station data not available:
 - ▶Dharampur 220,
 - ≻Krishnanagar 220,
 - ≻Hura 220,
 - Foundry Park 220.
 - **≻**Dalkhola
 - **≻**Bantala
 - > Lakshmikantapur
 - ➤ New Town
- > Sagardighi:
 - > Data intermittent.
- Kolaghat TPS: Kharagpur #1 MW/MVAR flow not available.

BSPHCL

- ➤ Data Intermittent /not available:
 - Dumraon, Sonenagar, Khagaul ,Darbhanga, Dehri, sultangaunj, Lakhisarai, Karmanasa, Kahalgaon, Jamaui, Banka, Gopalganj, Kisanganj, Arrah, Rajgir, Sipara, Hajipur (New), Pusauli, Valmikinagar, Koshi, Begusarai, Gopalganj, Hajipur

JSUNL

- > Data Intermittent /not available:
 - ➤ Hatia New 220,
 - > Dumka 220.
 - > Patratu
 - Deoghar
 - > Garwh
 - Goelkera
 - > Jamtarta
 - Kendoposi

DVC

- Data Intermittent / not available:
 - Kolaghat
 - Kharagpur
 - > Jamuria
 - **Data Not provided:**
 - ►Giridhi 220,
 - <u>Durgapur TPS (DSTPS)</u>: Highly intermittent.

GRIDCO

- >MW/MVAr flow of Meeramandali GMR line.
- >NALCO Data is not available.

	1	I		1	1	1	1	1			1		1		1	T
		. .		Owner/			TOTAL	PMU	Cable		Cable	CT/PT/DI	Commiss			
S.No	Region	State	Sub-Station	Utility	S/S type	PMU	PANEL		Delivery	Erection	laying	termination	ioning	Integration	SAT	Remarks
							QTY	status	status		, ,		•			
			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		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		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		Binaguri	Powergrid	CR	7	2	Yes	Yes	done	done	done	done	done	done	PMU integrated on 28.07.2016
31	ER-II		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		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.

							TOTAL	PMU	Cable							
S.No	Region	State	Sub-Station	Owner/ Utility	S/S type	PMU	PANEL QTY	Delivery status	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	done	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	Kahalgaon(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		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		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		_	Cable Delivery status	Erection	_	CT/PT/DI termination	Commiss ioning	Integration	SAT	Remarks
68	ER-I	Jharkhand	Chaibasa	Powergrid	Kiosk	4	5	Yes	Yes		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		S/S couldn't be integrated because distance between PMU panel and SDH is more than 100 mts.
75	ER-I	Jharkhand	Jharkhand Pool (Chand	Powergrid	Kiosk	4	1	Yes	Yes	done	done	done	done	Pending		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:

CI Na	Danian		As per approve	d BOQ	Suppl	ied	Ins	talled	Commi	ssioned	ntegrated to ERLDC/ SLD	
SI. No.	Region	Utility	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
		Installed, powered up, functioning and integrated with DVC,
1	ERLDC	WBSETCL and OPTCL PDS system.
2	Backup-NLDC	POSOCO did not provide space for PDS system installation.
		Installed, powered up, functioning and integrated with ERLDC
3	SLDC, Maithon	PDS system.
		Installed, powered up, functioning and integrated with ERLDC
4	SLDC, Bhubaneswar	PDS system.
		Installed, powered up, functioning and integrated with ERLDC
5	SLDC, Howrah (WBSETCL)	PDS system.

AVAILABILITY STATUS OF EVENT LOGGER, DISTURBANCE RECORDER & GPS

SI.	Substation	Av	ailability		ntrol Syst		nization	Remarks
NO		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	El is under process of restoration with
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

					1			
								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:

SI. 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.

Anticipated Power Supply Position for the month of Jun-17

SL.NO		P A R T I C U LA R S	PEAK DEMAND	ENERGY MU		
1		BIHAR	MW	MU		
_	i)	NET MAX DEMAND	3900	2250		
	ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	361	158		
	ĺ	- Central Sector	3133	1706		
	iii)	SURPLUS(+)/DEFICIT(-)	-406	-386		
2	:\	JHARKHAND NET MAX DEMAND	1280	815		
	i)		289			
	ii)	NET POWER AVAILABILITY- Own Source (including bilateral)		215		
		- Central Sector	729	364		
	iii)	SURPLUS(+)/DEFICIT(-)	-262	-236		
3		DVC				
	i)	NET MAX DEMAND (OWN)	2770	1658		
	ii)	NET POWER AVAILABILITY- Own Source	4945	2669		
	ĺ	- Central Sector	641	386		
		Long term Bi-lateral (Export)	1300	936		
	iii)	SURPLUS(+)/DEFICIT(-)	1516	461		
4		ORISSA				
, ,	i)	NET MAX DEMAND	4400	2520		
	ii)	NET POWER AVAILABILITY- Own Source	3151	1834		
		- Central Sector	1293	715		
	iii)	SURPLUS(+)/DEFICIT(-)	44	29		
_		WEST DENICAL				
5 5.1		WEST BENGAL WBSEDCL				
	i)	NET MAX DEMAND (OWN)	6000	3396		
	ii)	CESC's DRAWAL	0	0		
	iii)	TOTAL WBSEDCL'S DEMAND	6000	3396		
	-			1979		
	iv)	NET POWER AVAILABILITY- Own Source	3716			
		- Import from DPL	161	0		
		- Central Sector	2780	1519		
	v)	SURPLUS(+)/DEFICIT(-)	657	102		
	vi)	EXPORT (TO B'DESH & SIKKIM)	10	7		
5.2		DPL				
5.2	i)	NET MAX DEMAND	265	184		
	ii)	NET POWER AVAILABILITY	426	181		
	iii)	SURPLUS(+)/DEFICIT(-)	161	-3		
	,			-		
5.3		CESC				
	i)	NET MAX DEMAND	2100	1089		
	ii)	NET POWER AVAILABILITY - OWN SOURCE	750	473		
		FROM HEL	530	328		
		FROM CPL/PCBL	0	0		
		Import Requirement	820	288		
	iii)	TOTAL AVAILABILITY	2100	1089		
	iv)	SURPLUS(+)/DEFICIT(-)	0	0		
	,					
6		WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)				
	i)	NET MAX DEMAND	8365	4669		
	ii)	NET POWER AVAILABILITY- Own Source	4892	2634		
	")	- Central Sector+Others	4130			
	iii)	- Central Sector+Others SURPLUS(+)/DEFICIT(-)	4130 657	1847 -188		
	<u> </u>					
7		SIKKIM				
	i)	NET MAX DEMAND	85	32		
	ii)	NET POWER AVAILABILITY- Own Source	10	7		
-		- Central Sector+Others	169	95		
	iii)	SURPLUS(+)/DEFICIT(-)	95	70		
8		EASTERN REGION				
o		At 1.03 AS DIVERSITY FACTOR				
	i)	NET MAX DEMAND	20194	11944		
	יי					
,		Long term Bi-lateral by DVC	1300	936		
j		EXPORT BY WBSEDCL	10	7		
	ii)	NET TOTAL POWER AVAILABILITY OF ER	23743	12630		
	ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	23743	12630		
	ii) iii)		23743 2239	12630 -257		

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

System	Station	Unit	Size (MW)	Period		No. of	Reason	
System	Station	Omt		From	To	Days	Reason	
JUSNL	TVNL,						Annual Overhauling/Boiler	
	Tenughat	2	210	16.06.17	30.06.17	15	Overhauling	
ODISHA	TTPS	4	60	26.06.17	10.07.17	15	Boiler Overhaul	
ODISHA	IB TPS	1	210	05.06.17	25.06.17	21	Minor AOH	
WBPDCL	KTPS						BTG+DCS+Stator Replacement+HPC	
WBPDCL		6	210	01.06.17	31.07.17	61	Replacement	
	KhSTPS	1	210	01.06.17	05.07.17	35	Boiler, Gen., DDCMIS R&M	
NTPC	TSTPS						Boiler Mod.+LPT+Gen.+ESP	
		4	500	01.06.17	15.07.17	45	R&M+Boiler RLA	



NTPC Limited (A Govt. of India Enterprise)

Kahalgaon

Ref. no.:

KhS:092:GM/O&M/

Dated: 20th May '17

To, The General Manager POSOCO ERLDC KOLKATA- 700 033

Sub: Planned shutdown of Kahalgaon STPS Unit-4, reg

Dear Sir,

This is with reference to the planned shutdown of Kahalgaon STPS Unit-4 which was originally planned from 01/11/2017 and Unit-1 from 01/06/2017. The overhauling schedule of these two units was swapped and then Unit-4 was to be taken under overhaul from 01st June'2017. But due to the fast depleting coal stock of Kahalgaon STPS on account of less coal receipt from the linked Lalmatia mines(ECL), it has become necessary to take out of bar at least one of the units so that the rest of the units can survive with the available stock and daily received coal quantity.

At present we are left with just three days coal stock and once it comes down below two days stock we will not be having any option but to take out units one by one on account of coal shortage. To avoid such situation we are planning to pre-pone Unit-4 overhauling and to take under O/H from 28th May'2017. We have mobilized the overhauling groups and all efforts are being made to complete the Capital overhauling with DDCMIS renovation within the stipulated time of 35 days.

This is for your kind information and necessary action please.

Thanks and Regards,

(S. SARKAR)

esacuas

GENERAL MANAGER (O&M)

Kahalgaon Super Thermal Power Station, NTPC Limited

P.O. Kahalgaon STP, Bhagalpur, Bihar- 813214.

Copy to: i) GM (OS, ER1HQ, Patna)

ii) Member Secretary, ERPC, Kolkata (for kind information please)

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

(भारत सरकार का उद्यम)



Annexure-C2.3

POWER GRID CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)

प्लाट नं.- 4, यूनिट - 41, निलाद्री विहार, चंन्द्रशेखरपुर - 751021,

दुरभाष: 0674 - 2720754

Plot. No. 4, Unit - 41, Niladri Vihar, Chandrasekharpur,

Bhubaneswar - 751021, Tel: 0674 - 2720754

Ref. No: ODP/BB/AM/TLM/

Date: 23.05.2017

To
The Member Secretary,
Eastern Regional Power Committee
14, Golf Club Road,
Tollygunje, Kolkata – 700033

Sub: Request for approval of deemed availability for the Insulator replacement works at NH/SH/ River/ Power line/ Railway crossings in various transmission lines of Odisha in 133rd OCC.

Dear Sir,

During insulator de-capping, conductor is grounded and if such incident occurs in crossing span of other transmission line/ Railway line/ Road/ River, consequential effects are much higher. To minimize consequential effects in case of de-capping the above said crossing spans will be provided with puncture proof Composite Long Rod Polymer Insulator for which no incident of de-capping has been reported. Insulator replacement work in the above said crossings in most of the transmission lines in Odisha have been completed except few lines. Tentative program for insulator replacement of the remaining lines have been scheduled in June'2017 as follows:

Sl. No.	Name of the Line	Date	Time	Date	Time	Remarks
1	400 KV Rengali-Indravati S/C Line	21.06.2017	07:00	24.06.2017	18:00	ODB
2	400KV Rourkela-Talcher#2	10.06.2017	09:00	12.06.2017	18:00	ODB
3	400KV Sundargarh-Raigarh#2	16.06.2017	08:00	18.06.2017	18:00	ODB
4	400KV Rourkela-SEL#2	08.06.2017	08:00	09.06.2017	18:00	ODB
5	400KV Rourkela-Sundargarh#2	04.06.2017	08:00	05.06.2017	18:00	ODB

It is requested that shutdown proposed for the said lines in the 133rd OCC may please be approved & deemed availability for the shutdown may please be granted.

Regards.

(A.K.Behera)

Dy. General Manager(AM), POWERGRID, Odisha Projects

Copy for kind information: GM(AM), POWERGRID, Odisha Projects.