



Minutes of 132nd OCC Meeting

Date: 09.05.2017
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

Eastern Regional Power Committee

Minutes of 132nd OCC Meeting held on 21st April, 2017 at ERPC, Kolkata

PART A

List of participants is at **Annexure-A**.

Item no. 1: Confirmation of minutes of 131st OCC meeting of ERPC held on 20.03.2017

The minutes of 131st OCC meeting were uploaded in ERPC website and circulated vide letter dated 06.04.2017 to all the constituents.

The last para of Item No. B.1 regarding the trial run period of BTPS-A may be replaced with the updated information as intimated by DVC which is as given below:

“DVC vide mail dated 12.04.17 informed that the trial run period for declaration of COD of BTPS-A unit (500 MW) was w.e.f. 00:00 Hrs of 20.02.2017 to 24:00 Hrs of 22.02.2017.”

With the above amendment members may confirm the minutes.

Deliberation in the meeting

Members confirmed the minutes with the above amendment.

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 **March, 2017** as informed by ERLDC is given below:

- 1) 125MVAR BR 1 at Alipurduar first time charged on 19:31 Hrs of 08/03/17.
- 2) 315 MVA ICT I at Alipurduar first time charged from 400kV side on 20:35 Hrs of 09/03/17.
- 3) 220kV Kishanganj (BSEB) - Kishanganj (PG) 1 & 2 first time charged as follows:
 - a. Ckt 1: 16:10Hrs of 10/03/17
 - b. Ckt 2: 16:41Hrs of 10/03/17
- 4) 6 Nos. of converter transformer (295MVA each) at Alipurduar first time charged at 17:29Hrs of 15/03/17.
- 5) 4 Sub-Bank of Filter-Bank at Alipurduar first time charged as follows:
 - a. Bank 1-Subbank I (125Mvar) : 19:57hrs 16/03/17
 - b. Bank 1-Subbank II (160Mvar) : 16:30hrs 17/03/17
 - c. Bank 1-Subbank V (160Mvar) : 19:40hrs 17/03/17
 - d. Bank 1-Subbank IV (159Mvar) : 12:19hrs 20/03/17

- 6) Pole 3 at Alipurduar first time charged at 15:42Hrs of 17/03/17
- 7) 315 MVA ICT 3 at Kharagapur first time charged at 11:26hrs of 19/03/17
- 8) Main Bus I and II at Gokarna first time charged 17:48Hrs and 17:50Hrs respectively on 23/03/17.
- 9) 400kV Farakka - Gokarna I first time charged 18:16Hrs respectively on 28/03/17.
- 10) 400kV Farakka - Gokarna II first time charged 17:04Hrs respectively on 29/03/17.
- 11) 80 MVAR Bus reactor at Gokarna first time charged at 12:38hrs on 30/03/17
- 12) 315MVA ICT 3 at Jamshedpur first time charged at 23:04Hrs on 30/03/17

Other constituents may update.

Deliberation in the meeting

It was informed that KBUNL has been declared COD of unit-I of MTPS, stage-II of capacity 195MW w.e.f. 18th of March, 2017.

SLDC, BSPTCL vide letter No. 69 dated 16.03.2017 has ascertained that MTPS-II of KBUNL had conducted Trial Operation for COD of Unit #1 from 10:30 hrs of 07.03.2017 to 10:30 hrs of 10.03.2017.

Accordingly, OCC accepted the COD of Unit-1 of 195 MW of MTPS-II, KBUNL with effective from 00.00 hours of 18.03.2017.

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.	1) Hardware supplied and installed. 2) SAT completed for pilot state 3) Protection database management software (PDMS) delivered. 4) Training on PDMS organised at Odisha.
5	BSPTCL	Renovation and up-gradation of 220/132/33 KV GSS Biharsharif, Bodhgaya, Fatuha, Khagaul, Dehri -on-sone & 132/33 kV GSS Kataiya	11/5/2015	Feb'2017	64.33 crore	23.68 crore	Project is on going. Order for supply of equipment placed for Rs.13.51 Cr.
6		Installation of capacitor bank at different 35 nos. of GSS under BSPTCL	5/9/2016		18.88 crore		Approved (triparty agreement among NLDC, Govt. of Bihar & BSPTCL is in under process)

7		Renovation & up-gradation of protection and control system of 12 nos. 132/33 KV GSS under BSPTCL.					Recommendation of appraisal committee is awaited. Estimated cost 54.69 crore.
8	DVC	Renovation and upgradation of control & protection system and replacement of Substation Equipment of 220/132/33 kV Ramgarh Substation			25.96		Approved by Ministry of Power
9		Renovation and upgradation of control & protection system including replacement of substation equipment at Parulia, Durgapur, Kalyaneshwari, Jamshedpur, Giridih, Barjora, Burnpur, Dhanbad and Burdwan Substation of DVC			140		Appraisal committee has recommended. It will be placed in next monitoring Committee meeting.
10	WBPDC	Implementation of Islanding scheme at Bandel Thermal Power Station					Appraisal committee has recommended. It will be placed in next monitoring Committee
		Upgradation of Protection and SAS			26.09		Approved by Ministry of Power
11	OHPC	Renovation and up-gradation of protection and control system of 4 nos OHPC substations.					<i>OHPC will submit the detailed proposal soon as per the requirement of Appraisal committee.</i>
12a	ERPC	Training for Power System Engineers					<i>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.</i>
12b		Training on Integration of Renewable Energy resources					<i>The proposal was examined by the Techno Economic sub group of PSDF and advised to submit revised proposal only for training at NORD POOL Academy with consideration of views of the group.</i>
12c		Training on Power market trading at NORD POOL Academy for Power System Engineers of Eastern Regional Constituents					

Respective constituents may update.

Deliberation in the meeting

Members noted.

Item No. B.3: MONITORING OF SCHEMES FUNDED FROM PSDF—NPC Agenda

In the 6th meeting of NPC held on 19th December, 2016 it was decided that all the RPCs in the monthly OCC meetings may follow up with entities to expedite completion of the scheme by giving due priority. The implementation of most of these schemes are based on the recommendation of the Enquiry Committee on Grid Disturbance of July 2012 headed by Chairperson, CEA. Therefore, timely implementation of these schemes would enhance the grid security and reliability. Accordingly, the grant sanctioned from PSDF for the schemes of Eastern Region is enclosed at **Annexure-B.3(I)** for deliberation in the OCC meeting.

The status of implementation of the above schemes (physical as well as financial progress) may please be reviewed and the entities are requested to expedite implementation of the schemes. The entities may also be advised to furnish information in the format enclosed at **Annexure-B.3**

(II) by first week of every month on regular basis to Member Convener, PSDF Project Monitoring Group (AGM, NLDC, POSOCO) with a copy to NPC Division.

In 129th OCC, all the respective constituents are advised to furnish the status to NLDC & NPC as per the desired format as attached at **Annexure- B.3 (II)**.

In 130th OCC, BSPTCL informed that they have furnished the status to NLDC & NPC. OCC advised all other constituents to furnish the status to NLDC & NPC at the earliest.

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. OCC advised all other constituents to furnish the status to NLDC & NPC at the earliest.

Constituents may update.

Deliberation in the meeting

Powergrid informed that they will submit the details at the earliest.

Item No. B.4: 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.

Members may note the date and timings.

Deliberation in the meeting

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

Members agreed and noted the date and timings.

Item No. B.5: Status of UFRs healthiness installed in Eastern Region

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

Members may note.

Deliberation in the meeting

Members noted.

Item No. B.6: Healthiness of SPS existing in Eastern Region

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

Chuzachen & Powergrid ER-II may submit the healthiness certificate for March, 2017.

Deliberation in the meeting

It was informed that Chuzachen & Powergrid ER-II had also submitted the healthiness certificate.

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.

Respective members may update.

Deliberation in the meeting

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.

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

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

At present, the following islanding schemes are in service:

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

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 March, 2017 has been received from CTPS, DVC, BkTPS, Tata Power and CESC.

Members may note.

Deliberation in the meeting

Members noted.

B.7.2. FSTPS Islanding Scheme, NTPC

In 123rd OCC, NTPC informed that cable laying completed and interfacing is pending. Interfacing will be done after completion of the PLCC installation work by PGCIL at JUSNL sub-stations.

In 127th OCC, Powergrid informed that the work under the scope of JUSNL has been completed.

In 35th TCC, NTPC confirmed that the final hooking of U#1 will be completed during overhauling S/D of U-1 in the month of March-April, 2017. They assured FSTPP islanding scheme with U#1 of FSTPS will be operational positively by April 2017 without further delay. On specific queries NTPC informed that except hooking up with units all their assigned works for implementing FSTPS islanding are satisfactorily completed.

In 131st OCC, NTPC informed that the overhauling S/D of U-1 has been taken from 14th March, 2017 and the scheme will be operational as per schedule.

NTPC may update.

Deliberation in the meeting

NTPC informed that the FSTPS islanding scheme with U#1 has been implemented.

B.7.3. Bandel Islanding Scheme, WBPDC

In 33rd TCC, WBPDC informed that DPR has been submitted to NLDC on 22-06-2016 for funding from PSDF.

Subsequently, PSDF Secretariat vide mail dated 07.10.2016 informed that the Scheme was examined on 28.09.2016 and has sought some clarification from WBPDC.

In 127th OCC, WBPDC informed that clarification has been submitted.

In 130th & 131st OCC, it was informed that the PSDF Appraisal committee has accepted the proposal and forwarded to CERC.

WBPDCCL may update the latest status.

Deliberation in the meeting

WBPDCCL informed that the information regarding the approval is yet to be received from PSDF Nodal agency.

Item No. B.8: Testing / Calibration of Main and Check Energy Meters -- DGPC

DGPC vide mail dated 04.04.17 intimated that the Clause No. 5.8 of Power Purchase Agreement (PPA) between PTC India Ltd and Royal Government of Bhutan dated August 31, 2002 for sale of Chhukha and Kurichhu power and Clause No. 5.5 of PPA between PTC India Ltd. and Royal Government of Bhutan for sale of Tala power indicates that "All main and check energy meters shall be tested and calibrated at intervals not exceeding 12 (twelve) months by the owner of the respective energy meters".

While DGPC has been carrying out the testing of its main and check energy meters every year as per the PPA, the main energy meters pertaining to PTC/POWERGRID at Birpara end for 220kV Chhukha – Birpara Feeder I & II and 400kV Tala – Binaguri Feeder I, II, III & IV at Siliguri end has not been tested since 2014. The check energy meter of the above feeders at Chhukha, Tala and Malbase end pertaining to PTC/POWERGRID has been tested by DGPC on an annual basis.

The main energy meter (owner - DGPC) and check energy meter (owner - PTC/POWERGRID) of 132 kV Gelephu-Salakati Feeder at Gelephu end has been tested annually by DGPC, however the testing of energy meters of 132 kV Motanga – Rangia feeder is due for 2017.

ERPC is requested to persue PTC/POWERGRID to test the energy meters owned by PTC/POWERGRID as per the provision of PPA at the earliest and furnish the results to DGPC for reference as the non-adherence to the requirement of PPA shall invite serious audit observations for DGPC

DGPC/Powergrid may update.

Deliberation in the meeting

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.

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.

Members may discuss.

Deliberation in the meeting

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

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

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

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.

Members may discuss.

Deliberation in the meeting

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.).

Item No. B.11: Proposal for entrusting ERLDC to allocate URS power directly against the request of beneficiary following the merit order despatch principle like other regions-- WBSEDCL

In the event sudden loss of availability, WBSEDCL has to place the requisition to NTPC / Patna for allotment of URS power on merit order despatch principle. After exploring the URS availability from ERLDC website, NTPC/Patna forward such requisition to ERLDC with URS allotment from the stations from where URS is available. Finally ERLDC schedule the URS quantum as proposed by NTPC/Patna. Such practice of routing the requisition through NTPC/Patna causes unnecessary delay in scheduling URS power to the beneficiaries who are at that time in utter need of power. So, to avoid such delay in processing, ERLDC may be entrusted to allot & schedule such URS on merit order despatch principle directly against the requisition of beneficiary placed to ERLDC directly.

It is also observed that while allocating URS power NTPC/Patna violates the merit order despatch principle based on the total cost of generation. Necessary supporting evidence in this regard may be produced by WBSEDCL on demand. Apropos the merit order It is to be noted that beneficiary bears both the fixed & variable cost of URS power & also additional trading margin of 7paise per unit to M/S NVVNL in the case of allocation from the stations from where beneficiary has coal power share under JNSM Bundle Power scheme. So considering above commercial aspects merit order should be envisaged during URS allocation to honour the spirit of relevant national policies & also for the commercial interest of end users of electricity .

Members may discuss.

Deliberation in the meeting

WBSEDCL requested NTPC to give one time consent to ERLDC for allocation of URS power as per merit order to minimize the processing time.

NTPC informed that the system of allocating URS power has been made simple and they are making all out efforts to allot URS power in time and as per merit order.

OCC reiterated the decision of 99th OCC that the scheduling un-requisitioned surplus (URS) power should be as per the CERC order dated 11.01.2010 for the petition No. 134/2009 and advised constituents to get the information of URS power from ERLDC website and accordingly they can send their requisition to the generators.

Item No. B.12: Restoration of PLCC system of important JUSNL ties

I) 220 KV Chandil –Santaldih line

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

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

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

II) 220 KV Ramchandrapur-Joda line

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

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

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

OPTCL informed that PLCC panels will be commissioned by March 2017.

JUSNL/WBPDCCL/OPTCL may update.

Deliberation in the meeting

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

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

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

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

B.13.1. Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)

In 130th OCC, IBEUL informed that construction of the line has been completed and ready for commission. The line will be commissioned by 28th February, 2017.

OCC advised IBUEL to communicate the status to ERPC and ERLDC after commissioning of line for commencement of commercial transaction.

OCC advised ERPC secretariat to check the readiness of Protection co-ordination, communication both data and voice and all other details in interaction with ERLDC before permitting IBEUL for commercial evacuation of power.

In 35th TCC, it was informed that IBUEL vide mail has submitted the status of their dedicated line to ERPC and ERLDC on 23-02-2017. TCC advised ERPC secretariat to assess the position and do needful in line with CERC order, regulation and decisions taken in several meetings held on this issue.

In 131st OCC, IBEUL informed that their dedicated line will be commissioned by 24th March, 2017.

IBEUL may update.

Deliberation in the meeting

IBEUL informed that the line was commissioned but soon it tripped on E/F due to CT wiring problem. The rectification work is going on.

OCC requested Powergrid-Odisha to ensure the protection coordination on both the ends of line and communicate to ERPC/ERLDC before charging of the line.

A. Statutory clearances of 400kv transmission line of IBEUL at the crossing points over the MGR rail corridor of OPGC

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

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

In view of the above, OPGC requested to keep on hold all clearances for charging of the 400 kV transmission lines of IBEUL till the rectification works at the affected crossing points are completed in compliance with all the statutory requirements. This will facilitate completion of the construction work of the MGR system of OPGC as per schedule.

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

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

*Subsequently, a joint visit was carried out by RIO, OPGC and IBEUL the minutes of the said visit is enclosed at **Annexure-B.13.1**.*

OPGC/IBEUL may update.

Deliberation in the meeting

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

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

B.13.2. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In 35th TCC, Vedanta updated the latest status as follows:

Activities	Nos	Status as on 15-Nov-16 (as updated in 34 th TCC)	Status as on 24-Feb-17 (As updated in 35 th TCC)	Remarks
Tower Foundation	64	60	64	Completed
Tower Erection	64	42	61	
Stringing /OPGW Cabling & Testing	20.5 Km	One stretch completed	9 km completed	
Sub station Bay	2	Equipment Erection, Cable Trench, Earthing Completed	Bay construction completed	Will be completed by 2 nd March, 2017.

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, the same is placed at **Annexure-B.13.2A**.

Subsequently, GRIDCO vide letter dated 13.04.17 has requested for extending the LILO connectivity till 30.06.2017. (The letter is enclosed t=at **Annexure- B.13.2B**).

Members may discuss.

Deliberation in the meeting

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 Cabling & Testing	20.5 Km	9 km completed	11.6 km completed	
Sub station Bay	2	Bay construction completed	Testing going 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.

B.13.3. 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 131st OCC, Powergrid added that bus splitting at 400kV Biharshariff S/s will be commissioned by April, 2017.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that bus splitting scheme at 400kV Biharshariff S/s will be commissioned by end of April, 2017.

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 131st OCC, NTPC informed that the bus splitting will be implemented by December, 2018.

NTPC may update.

Deliberation in the meeting

NTPC informed that the bus splitting will be implemented by December, 2018.

B.13.4. 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.

WBSEDCL/Powergrid may update.

Deliberation in the meeting

WBSEDCL informed that line is ready and will be commissioned by next week after completion of testing.

B.13.5. Run-back scheme of Sasaram 500MW HVDC B-t-B converter -- ERLDC

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

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

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

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

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

ERLDC explained the scheme in 128th OCC.

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

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

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

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

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

Powergrid/ERLDC may update.

Deliberation in the meeting

Powergrid informed that the matter has been taken up with the OEM (i.e. Alstom).

B.13.6. 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:

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

OPTCL may update.

Deliberation in the meeting

OPTCL updated the status as above.

B.13.7. 220 kV inter-connecting lines of JUSNL with 2x315 MVA, 400/220 kV sub-stations at Chaibasa, Daltonganj & Dhanbad

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

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

JUSNL may update.

Deliberation in the meeting

JUSNL updated the status as above.

B.13.8. 220 kV inter-connecting lines of WBSETCL with 400/220 kV, 2x315 MVA Alipurduar & 2x500 MVA Rajarhat sub-stations

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

Sl. No.	Name of the transmission line	Completion schedule
1.	2x315MVA, 400/220kV Alipurduar sub-station	
a.	Alipurduar (POWERGRID) – Alipurduar (WBSETCL) 220kV D/c (<i>Twin moose</i>)	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.

Deliberation in the meeting

WBSETCL updated the status as above.

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.

Deliberation in the meeting

Members noted for compliance.

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 (WBPCL)-	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 (WBPCL)	Completed on 25 th February, 2016
18) 400kV Bakreswar (WBPCL)	Completed on 26 th February, 2016
19) 765kV Gaya(PG)	Completed on 1 st November, 2016
20) 400kV Biharsharif(PG)	Completed on 3 rd November, 2016
21) 220kV Biharsharif(BSPTCL)	Completed on 3 rd November, 2016

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

Members may note.

Deliberation in the meeting

Members noted.

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

In 124th OCC, DVC informed that the UFR relays will be delivered by August, 2016 and the UFRs at 220/132/33 KV Ramgarh S/s will be replaced by next month.

In 125th OCC, DVC informed that the UFR relays are in transit and the UFRs at 220/132/33 KV Ramgarh S/s will be replaced by next month.

In 127th OCC, DVC informed that the UFR relays at 220/132/33 KV Ramgarh S/s will be replaced by December, 2016.

In 128th & 129th OCC, DVC informed that the UFR relays at 220/132/33 KV Ramgarh S/s will be replaced by January, 2017.

The proposed UFR audit schedule is placed below:

Sl No	Proposed Date	Substation/feeder inspected by the sub-group
1	April, 2017	220/132/33 KV Sampatchak of BSPTCL
2		132/33 KV Purnea of BSPTCL

4	May, 2017	220/132/33 KV Kalyaneswari of DVC
5		220/132/33 KV New Bishnupur of WBSETCL
6		132/33 KV Old Bishnupur of WBSETCL
7	June, 2017	BRS (Liluah S/Stn.) of CESC

Members may decide.

Deliberation in the meeting

DVC informed that UFR relays at 220/132/33 KV Ramgarh S/s has been replaced in March, 2017.

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.

Deliberation in the meeting

Members noted.

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, WBPDCI informed that Bandel TPS is certified with IS 18001.

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

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

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

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

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

Members may note and update the status.

Deliberation in the meeting

Members noted.

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.

Deliberation in the meeting

Members noted for compliance.

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.

Deliberation in the meeting

Members noted for compliance.

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

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

demand met, the sum of five regional peaks met, which may occur at different points of time is taken.

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

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

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

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

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

JUSNL may update.

Deliberation in the meeting

Members noted for compliance.

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.

Deliberation in the meeting

Members noted.

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.

Members may update.

Deliberation in the meeting

BSPTCL informed that the ATC/TTC figures will be submitted by next week.

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.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that the reactor will be commissioned by end of May, 2017.

b) 400kV Patna-Kishengunj D/C

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

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

In 130th & 131st OCC, Powergrid informed that line will be restored by July, 2017.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that line will be restored by July, 2017.

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 130th & 131st OCC, ENICL informed that line will be restored by last week of June, 2017.

ENICL may update.

Deliberation in the meeting

It was informed that line will be restored by last week of June, 2017.

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.

Powergrid/OHPC may update.

Deliberation in the meeting

OPTCL informed that the testing has been completed and the work will be completed by end of April 2017.

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.

DVC may update.

Deliberation in the meeting

DVC informed that the line will be restored by end of May, 2017.

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.

OPTCL may update.

Deliberation in the meeting

OPTCL informed that transformer work has been completed and the inspection work is going on.

g) 220kV Meramundali-Bhanjanagar-I

The line is under outage w.e.f 25/11/16 for conductor replacement work. OPTCL may furnish the details of conductor replacement being done and the expected date of restoration.

In 128th OCC, OPTCL informed that the conductor replacement work will be completed by January 2017. OPTCL added that type of conductor is ACSR Zebra.

In 130th & 131st OCC, OPTCL informed that the conductor replacement work will be completed by end of March 2017.

OPTCL may update.

Deliberation in the meeting

OPTCL informed that the line was charged on 12th April, 2017.

h) 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.

Powergrid may update.

Deliberation in the meeting

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.

i) Restoration of 400kV Bay-12 at Farakka STPS

Consequent to strengthening of 400kV Farakka – Malda D/C line, the associated bays at Farakka and Malda ends have also been uprated by PGCIL. However, Bay-12 at Farakka STPS connected to 400kV Bus-1, is yet to be put into service by Farakka. Under the circumstances, Farakka-Malda-I line is connected only to 400kV Bus-2 and 400/220kV ICT is also operating on Bus-2 through the tie CB of Farakka-Malda-I.

A fault involving 400kV Bus-2 will cause outage of both the ICT and Farakka-Malda-I. NTPC may therefore take necessary action for restoration of Bay-12 (connected to 400kV Bus-1) at the earliest.

131st OCC advised NTPC to look into the matter and resolve at the earliest.

NTPC may update.

Deliberation in the meeting

NTPC informed that the matter has been resolved on 9th March, 2017.

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.

Powergrid may update.

Deliberation in the meeting

*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.

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

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

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

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

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

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

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

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

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

BSPTCL may update.

Deliberation in the meeting

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.

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,

Powergrid/ ERLDC may update.

Deliberation in the meeting

*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.

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.

Powergrid may please update the status.

Deliberation in the meeting

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.

Item No. B.28: Non Receipt of Genus make meter Data from FSTPP NTPC -- ERLDC

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.

NTPC may please respond.

Deliberation in the meeting

NTPC informed they will make the arrangement to send the data at the earliest.

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.

NTPC and NHPC may nominate.

Deliberation in the meeting

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

Item No. B.30: Pending completion of DSTPS – RTPS OPGW work in DVC

POWERGRID ERTS – 2 ULDC informed in 19th SCADA O&M meeting held at ERLDC, Kolkata on 07th April 2017 that they are not able to complete the OPGW work in DSTPS – RTPS in DVC Sector under Microwave Replacement Package due to severe ROW issue. POWERGRID further informed that they have mobilized the team several times but work could not be completed due to heavy ROW / compensation issues related to TL construction resulting non-completion of 2 no. OPGW drum (approx. 9 Km). POWERGRID again informed that this issue is discussed in various forums but the solution is yet to be provided by DVC.

DVC informed that they are not able to resolve the issue as this is old ROW / compensation issue related to TL construction.

ERLDC opined that the matter may be put up in TCC/ERPC board for further deliberation and resolution of the matter. POWERGRID & DVC agreed for the same.

Members may discuss.

Deliberation in the meeting

OCC advised DVC and Powergrid to resolve the issue mutually.

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.

131st 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.

Deliberation in the meeting

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

Item No. B.32: 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)

Constituents may update present status of implementation ADMS.

Deliberation in the meeting

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

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.

POWERGRID may update the status.

Deliberation in the meeting

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

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.

Deliberation in the meeting

Members noted.

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.

Deliberation in the meeting

Members noted.

Item No. B.36: 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.

The updated status as updated by constituents & as intimated by Powergrid vide mail dated 19.10.16 is as given below:

	Scope (no. of location s)	Installed Locations	Number of locations where the results for 1st set of Measurements submitted	No. of locations where the results for 2nd set of Measurements submitted	Number of locations where the results for 3rd set of Measurements submitted	Number of locations where the results for 4 th set of Measurements submitted
JUSNL	67	27	21	19	13	3
BSPTCL	59	52	52	40	4	0
WBSETCL	73	68	43	3	2	0
OPTCL	164	102	102	90	79	0
SIKKIM POWER	12	9	6	6	0	0
POWERGRID ER1	99	99	99	47	0	0
POWERGRID ER2	40	40	40	40	17	0
POWERGRID ODISHA	42	42	42	42	40	0

It is requested to submit the fourth and balance third set measurement result at the earliest.

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

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

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

Powergrid updated the latest status as follows:

	Scope (no. of location s)	Installed Locations	Number of locations where the results for 1st set of Measurements submitted	No. of locations where the results for 2nd set of Measurements submitted	Number of locations where the results for 3rd set of Measurements submitted	Number of locations where the results for 4 th set of Measurements submitted
JUSNL	67	27	17	17	13	11
BSPTCL	59	52	40	29	4	3
WBSETCL	73	68	43	4	3	1
OPTCL	164	102	100	90	79	1
SIKKIM POWER	12	9	6	6	0	0
POWERGRID ER1	99	99	99	47	0	0
POWERGRID ER2	40	40	40	40	17	0
POWERGRID ODISHA	42	42	42	42	40	0

Powergrid informed that most of scheduled measurements till fourth set has not been completed yet, it is requested to complete the measurements and submit the results at the earliest.

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.

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

Members may update.

Deliberation in the meeting

Members noted.

Item No. B.37: Mock Black start exercises in Eastern Region – ERLDC

i) The status of black start exercises

The status of the black-start exercises for F.Y 2016-17 is as follows:

Sl no	Name of Hydro Station	Schedule	Tentative Date	Schedule	Tentative Date
		Test-I		Test-II	
1	U.Kolab	Last week of May, 2016	<i>Completed on 16th July 2016</i>	Last Week of January 2017	Completed on 25.01.17
2	Maithon (To be tested in islanded mode)	1 st week of June 2016	<i>Completed on 02.12.2016</i>	1 st Week of February 2017	
3	Rengali	2 nd week of June 2016	<i>Completed on 23rd Sept, 2016</i>	Last week of November 2016	Completed on 25.01.17
4	U. Indarvati	3 rd week of June 2016	<i>Completed on 16th July 2016</i>	2 nd week of February 2017	<i>Completed on 23.03.2017</i>
5	Subarnarekha	1 st week of October 2016	<i>Completed on 19.10.16</i>	1 st week of January 2017	
6	Balimela	3 rd week of October 2016	<i>Completed on 29.11.16</i>	1 st week of March 2017	<i>Completed on 24.03.2017</i>

7	Teesta-V	2 nd week of Nov 2016		Last week of February 2017	
8	Chuzachen	Last Week of May 2016		January 2017	
9	Burla	Last Week of June 2016	<i>Completed on 28.07.2016</i>	Last week of February 2017	
10	TLDP-III	1 st Week of June 2016		2 nd Week of January 2017	
11	TLDP-IV	Last Week of June 2016	<i>Completed on 17.11.16</i>	1 st Week of February 2017	

In the year 2016-17 Teesta-V, Chuzachen and TLDP-III hydro generating stations have not completed it.

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

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

Members may update.

Deliberation in the meeting

Members updated the list as above.

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.

Deliberation in the meeting

Members noted.

Item No. B.38: 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.erp.gov.in/>) under Operation>Important data.

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

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

- (1) On 02-03-17, 01:58 hrs, Unit I & II at Krishnapattanam tripped. Generation loss 1085 MW.*
- (2) On 05-03-17, 15:14 hrs, Load rejection test of Unit II at Kudankulam took place. 1000 MW load rejection was done*

ERLDC may update.

Deliberation in the meeting

Members noted.

Item No. B.39: Reactive Power performance of Generators

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

Power Plant	Max and Min Voltage observed for Mar 17 (KV)	Date for monitoring (Mar 17)
Farakka STPS	420,407	13,16
Khalgaon STPS	421,401	13,16
Talcher STPS	412,403	4,10
Teesta	422,396	24,27
Bakreshwar TPS	413,391	16,25
Kolaghat TPS	419,400	16,18
Sagardighi TPS	--	--
MPL	421,408	27,18
Mejia-B	--	--
DSTPS	426,415	15,11
Adhunik TPS	421,410	24,23
Sterlite	--	--
Barh	--	--

JITPL	--	--
GMR	418,404	1,5
HEL	--	
Kodarma	422,403	27,25

ERLDC may present the reactive performance.

Deliberation in the meeting

ERLDC presented the response of the generators and members noted.

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.

Deliberation in the meeting

Members noted.

b) Tap Position Optimization at Jeypore

Current Tap position at Jeypore ICT is 14. From scatter plot of 400/220 kV Jeypore S/S for the month February it is seen that 80% of time it is remaining in 1st quadrant and 20 % of time in 2nd quadrant. This means most of the time voltage at both 400 and 220 KV level remains above their nominal value and occasionally 400 kv side voltage going below nominal value. But 220 kv side voltage always remaining on the higher side. Also it is seen that although 80% of time scatter plot is staying in 1st quadrant but Max voltage is within 420 Kv. So if we reduce the Tap position then it will help to reduce 220 Kv voltage and further increase 400 kv side voltage which is remaining below 400 kV for 20% of time and within 400 to 420 kV for 80 % of time. So even after tap change 400 kV side voltage will stay mostly within 420 kV and may occasionally cross 420 kV by a very small margin. We also have reactors at Jeypore and Indravati for controlling high voltage at 400 kV. It is proposed that Tap may set to 12 from 14.

131st OCC advised Powergrid to do the tap changing from 12 to 14.

Powergrid agreed to do the tap changing in off load condition.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that the tap position of Jeypore ICT has been changed from 14 to 12.

PART C:: OPERATIONAL PLANNING

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

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

Deliberation in the meeting

*Modified anticipated power supply position for the month of May, 2017 after incorporating constituents' observations is given at **Annexure-C.1**.*

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

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

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

Deliberation in the meeting

*Approved maintenance programme of generators and transmission elements for the month of May, 2017 is given at **Annexure-C.2**.*

A. Powergrid has placed the following shutdown for discussions:

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

As per earlier discussion POWERGRID/ER-II is submitting the plan for insulator replacement for the month of May'2017:

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	400kV D/C Binaguri-Bongaigaon TL Ckt-I & II.	-----DO-----	Railway crossing, NH/SH Crossings. S/D will be availed only if work pending during railway diversion period.
3	400 KV DURGAPUR-JAMSHEDPUR.	-----DO-----	Railway crossing, NH/SH Crossings.
4	400 KV FKK-DGP-2.	-----DO-----	Railway crossing, NH/SH Crossings.
5	400 KV JEERAT-SUBHASGRAM.	-----DO-----	National Highway/State highway/River crossing.
6	400 KV BINAGURI-RANGPO-II	-----DO-----	Only 01 day S/D required. Applied in S/D list for 02.05.17.

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 discuss.

Deliberation in the meeting

Powergrid, ER-I has submitted the the plan for insulator replacement which is as given below:

- i) 400 kV Patna-Balia-3 from 18.05.17 to 23.05.17.
- ii) 400 kV Patna-Balia-4 from 24.05.17 to 29.05.17
- iii) 400 kV Patna-Barh-3 from 15.05.17 to 17.05.17
- iv) 400 kVi Patna Barh-4 from 12.05.17 to 14.05.17.

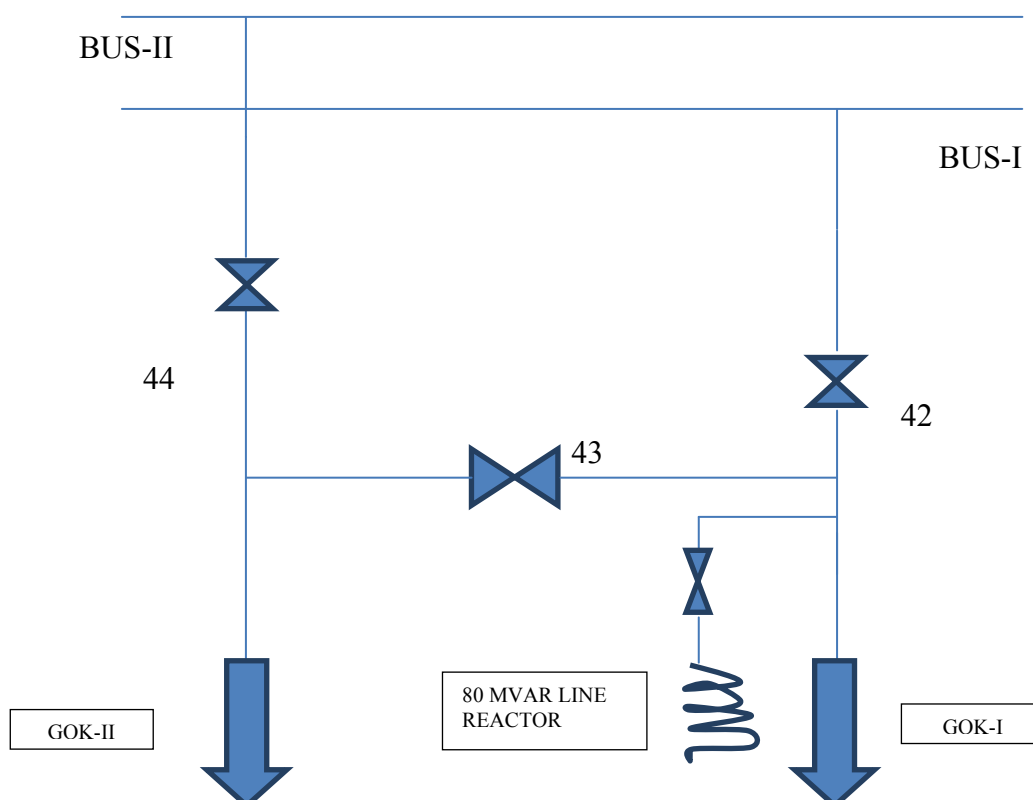
The plan of insulator replacement as submitted by Powergrid-Odisha is given at **Annexure-C.2A1**.

OCC agreed to consider the shutdown period as per the decision of 30th TCC/ERPC meetings.

2. Shut down of 400 KV Bus-II& 400 KV BUS-I For completion of various packages at NTPC/FARAKKA.

At NTPC/Farakka, presently ERSS-XII & ERSS-V final implementation is going on. Under ERSS-XII, 50 MVAR Bus Reactor-I to be shifted to new dia (Bay No: 09). Presently all the work related to bus reactor and Bay no: 09 completed except bus connectivity and bus bar stability. Executing agency M/S. ALSTOM, has given reminder for demobilization from sites as completion activity pertaining to Bus shut down gone for more than 03 months. POWERGRID requested NTPC several times for commitment of shut down in this regard but till date nothing can be planned. Once again it is requested to consider the 400 KV Bus-I shut down at NTPC/Farakka, positively by 10.05.2017, in a planned manner such that work could be completed.

Again, under ERSS-V, recently 400 KV Farakka-Gokarna-D/C line has been commissioned. Bay connectivity at Farakka end is given below for reference:-



At present only 400 KV BUS-I, Connectivity available to the dia i.e. Both FKK-GOK-D/C is charged through Bay 42 & 43 Only. Due to system constraint (Shut down of U#1), NTPC did not allow 400 KV Bus-II shut down during commissioning. Any shut down related to Bus-I, will result into outage of both 400 KV Fkk-Gok-D/C feeder.

All work related to Bus-II connectivity/protection checking already completed by POWERGRID except Bus bar stability and physical connection, which is only possible after 400 KV Bus-II shut down.

Keeping in view of above, it is proposed to provide 400 KV BUS-II Shut down on priority for completion of connectivity of bay no: 44 to Bus-II and afterwards shut down of 400 KV Bus-I for connectivity of Bay no: 09 and subsequent charging of Bus Reactor.

Deliberation in the meeting

Already discussed under B.23 (i).

3. Shut Down of 400 KV, 125 MVAR Bus Reactor-I at Binaguri S/S for Internal Inspection.

DGA analysis of 125 MVAR BUS REACTOR-I of Binaguri S/S found slightly abnormal than the expected results. OEM (BHEL) Consulted over the issue and they suggest for a through internal inspection. Considering the importance OEM engineer is already planned and shut down required for subject Reactor for 15 days on continuous basis. (S/D applied from 05.05.17 to 20.05.17).

Members may discuss.

Deliberation in the meeting

Members noted.

4. Covering of Tertiary Bushing and associated bay equipment's by Insulating Sleeve of ICT's of ER-II.

It has been observed that due to certain presence of foreign object (By wind or Bird etc.) tertiary system of ICT's creating fault which results in unnecessary outage of the main element and sometime also contributing towards failure of associated part. To prevent this abnormality, POWERGRID has started covering the tertiary system (Bushing and associated conductor part & connectors also) with adequate insulation covering.

For the same following S/D's are proposed for carrying out the job in following locations:-

SI No	Name of Sub-station	Equipment Identification	Tentative Date	Tentative time for outage
01.	Binaguri	315 MVA ICT-I & II.	03.05.17 & 04.05.17.	05 Hours Each, One ICT at a time.
02.	Malda	315 MVA ICT-III & V.	05.05.17 & 06.05.17.	05 Hours Each, One ICT at a time.
03.	Durgapur	315 MVA ICT-I & II.	08.05.17 & 09.05.17.	05 Hours Each, One ICT at a time.
04.	Subhasgram	315 MVA ICT-I.	10.05.17	05 Hours Each, One ICT at a time.
05.	Maithon	315 MVA ICT-II.	14.05.17	05 Hours for ICT.
06.	Alipurduar	315 MVA ICT-I & II.	30.04.17 & 01.05.17.	08 HOURS FOR EACH ICT.

As this is for system improvement and earlier same type of fault has been observed in the system, it is proposed to allow the above mentioned S/D's

For carrying out the work and also consideration for deemed availability as this will contribute towards system improvement.

Members may discuss.

Deliberation in the meeting

Powergrid, ER-I has also submitted the the plan for covering of ICT bushing with sleeves which is as given below:

- i) ICT-2 at Patna,
- ii) ICT-1 at Chaibasa
- iii) ICT-1& 2 at Jamshedpur.
- iv) ICT- 1,2 & 3 at Biharsarif.
- v) ICT-1 at Muzaffarpur

OCC allowed the above shutdowns and also agreed to consider the shutdown period as per the provisions of CERC regulations.

5. 400 KV Maithon-Durgapur-D/C shut down for railway diversion work (Both circuit in Continuous basis):

For dedicated freight corridor project widening of railway track under Eastern railway, tower diversion required to be carried out between location no: 134&135. For carrying out the work 15 days continuous S/D of both the circuits are required. As huge manpower mobilization required including railway block shut down, firm shut down period is required for proper co-ordination.

Tentative date proposed from POWERGRID/ER-II is from 15.05.17 to 30.05.17 on continuous basis.

Members may discuss.

Deliberation in the meeting

Members noted.

6. Shut down of 400 KV Malda-Farakka & Malda-Purnea-D/C (One circuit at a time):-

For last eight months (Since September'2016) in numerous occasions the S/D applied for all above elements (One at a time) with work details & possible emergency conditions which required to be addressed. However, every occasion it has been noticed that, NLDC disallowed the S/D in view of non-availability of 400 KV Biharsariff-Purnea-D/C & Patna-Kishanganj-D/C. it may be noted that for both the lines, expected return is in the month of June-July'2017 arguably. It will be difficult to maintain the reliability of the system without getting shut down for so long. At least two times it has been observed that only after jumper opening in line or huge oil leakage in CT (Emergency condition), shut down is provided. In such a emergency situation it is not possible to address all the pending work. Also 400 KV Malda-Farakka S/D is long pending and balance punch points identified after reconductoring (April'2016) is still to be attended.

We again request to consider the shutdown in planned manner immediately for avoiding any unplanned outages. In the event of failure of any above elements, due to non-attending defects in timely manner, may pose a serious threat to the grid stability.

Members may discuss.

Deliberation in the meeting

Members noted.

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

(i) Generating units:

Generating Station	UNIT NO	CAP(MW)	REASONS FOR OUTAGE	OUTAGE DATE	Restoration
FSTPP	1	200	OVERHAULING	15-Mar-17	
FSTPP	5	500	OVERHAULING	29-Mar-17	
JITPL	2	600	LEAKAGE IN DRAIN OF TURBINE	24-Mar-17	
SAGARDIGHI	3	500	TUBE LEAKAGE	25-Jan-17	
SAGARDIGHI	4	500	TUBE LEAKAGE	09-Apr-17	
KOLAGHAT	1	210	OVER HAULING	16-Feb-17	
KOLAGHAT	2	210	DESYN DUE TO POLLUTION	24-Feb-17	
KOLAGHAT	3	210	TUBE LEAKAGE	22-Feb-17	
KOLAGHAT	6	210	BOILER TUBE LEAKAGE	09-Apr-17	
TENUGHAT	2	210	TURBINE MAINTENANCE	7-Nov-16	
BOKARO B	2	210	BOILER TUBE LEAKAGE	5-Mar-17	
BOKARO B	3	210	BOILER TUBE LEAKAGE	15-Dec-16	
RAGHUNATHPUR	1	600	L.P. DIFFERENTIAL EXPANSION	27-Jan-17	
RAGHUNATHPUR	2	600	COAL SHORTAGE	23-Mar-17	
MEJIA	2	210	STATOR EARTH FAULT	05-Apr-17	
MEJIA	5	210	TUBE LEAKAGE	03-Apr-17	
KODERMA	1	500	BOILER TUBE LEAKAGE	19-Jan-17	

(ii) Transmission elements

Name of the Line/Element	Outage	Reason
400 KV PATNA-KISHANGANJ D/C	26/07/16 161616	TOWER COLLAPSED AT LOC NO 51
400 KV BIHARSARIFF-PURNEA- I & II	23/08/16	Three numbers 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 TALA- BINAGURI-I	08/04/17	B_N .Z-1,107.8 KM FROM BINAGURI, 2.56 KA
400 KV TALA- BINAGURI-IV	03/04/17	
220 KV MERAMUNDALI - BHANJNAGAR - I	15/02/16	UNDER CONTINUOUS S/D, CONDUCTOR
315 MVA ICT-I AT MEERAMUNDALI	12/11/16	UNDER B/D AS ICT GOT BURNT DUE TO B PHASE LA

Members may update.

Deliberation in the meeting

Members noted.

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.

Deliberation in the meeting

Members noted.

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

System frequency touched a maximum 50.34Hz at 18:03Hrs of 05/03/17 and 18:03Hrs of 13/03/17 and a minimum of 49.66Hz at 18:58Hrs of 27/03/17. Accordingly, no report of operation of UFR has been received from any of the constituents.

Members may note.

Deliberation in the meeting

Members noted.

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 February'17.

Members may note.

Deliberation in the meeting

Members noted.

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

SI no	Disturbance Place	Date	Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	Biharshariff	03-03-2017	13:25	0	350	At 13:25 hrs, 400/220 kV 315 MVA ICT-I, II, III at Biharshariff along with 220 kV Biharshariff – Begusarai D/C tripped from Biharshariff end due to fault in 220 kV Begusarai – Ujiarpur – I which tripped from Ujiarpur only.	GD - I
2	Biharshariff	04-03-2017	13:21	0	435	At 13:21 hrs, tripping of 400/220 kV 315 MVA ICT-I, II, III at Biharshariff along with 220 kV Biharshariff – Begusarai I and 220 kV Tenughat Biharshariff S/C resulted power loss at Biharshariff, Begusarai, Fatua, Patna, Darbhanga including traction load of 60 MW (approx.) at Khagaria, Samastipur, Barh, Fatua and Mukama.	GD - I
3	SEL	17-03-2017	10:22	0	800	At 10:22 hrs, 400 kV SEL – Rourkela S/C tripped from both ends due to Y phase jumper snapping at Loc. No-88/0 (8.16 km from SEL end). At the same time, 400 kV SEL – Meramundali – I (Ckt – II was under s/d) tripped from Meramundali end (did not trip from SEL end) and all the three 400 kV SEL internal smelter feeders tripped on E/F	GD - I
4	Bakreswar	29-03-2017	09:32	200	0	During diversion of 400 kV GT #2 through bus tie, 400 kV BkTPP – Arambag S/C, 400/220 kV IBT – I, 400 kV bus tie and 400 kV B/C along with GT#2 tripped due to operation of bus bar protection relay (96) of MB#1 at BkTPP.	GD - I
5	Arrah	30-03-2017	13:25	0	62	At 13:55 Hrs, all three 220/132 KV ICT's at Ara (2*100 MVA, 1*160 MVA) tripped on overflux. At the same time, 220 KV Ara-Sasaram (BSEB) and 220 KV Sasaram (BSEB)-Sasaram (PG) tripped from Sasaram (BSEB) end only. Consequently, a load loss of 62 MW fed from Ara occurred. High voltage was persisting in the affected areas due to very low demand	GD - I

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.4: Additional items by ERLDC

1) Reporting of voltage deviation indices (VDI) for select S/Stns in ER

ERLDC vide letter dated 21.04.17 has submitted the Voltage Deviation Index (VDI) of selected 400 kV Sub-stations for March, 2017 of Eastern Region which is enclosed at **Annexure- D.4.1.**

Deliberation in the meeting

Members noted.

Meeting ended with vote of thanks to chair.

ANNEXURES

Participants in 132nd OCC Meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 21.04.2017 (Friday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
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Participants in 132nd OCC Meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 21.04.2017 (Friday)

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Participants in 132nd OCC Meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 21.04.2017 (Friday)


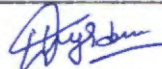
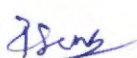
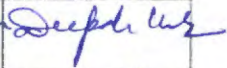
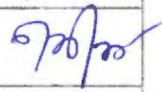
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60	V. Kalyan	SE, EKP	8402490967	—	

Participants in 132nd OCC Meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 21.04.2017 (Friday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
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Annexure-B.3 (I)

Schemes of Eastern Region funded under PSDF

State / UT	Sr. No.	Details of the Scheme	Nos. of Schemes	Grant Sanctioned (in Rs Crores)	Date of Sanction	Funds released (in Rs Crores) as on 30.11.2016	% age of fund Disbursed against Grant sanctioned
West Bengal	1.	Renovation and Upgradation of protection system of substations	2	108.60	31/12/2014	11.04	10.16%
	2.	The Renovation and Modernization of 220/132 kV STPS switch yard and implementation of Substaion Automation System.		23.48	5/9/2016	0	0%
Bihar	3.	Renovation and Upgradation of protection system of substations	2	64.22	11/05/2015	18.68	29.09%
	4.	Installation of capacitor bank for Improvement of Voltage profile in BSPTCL, Bihar.		18.88		0	0%
Odisha	5.	Renovation and Upgradation of protection system of substations	1	162.50	11/05/2015	19.52	12.01%
Eastern Regional Power Committee (ERPC)	6.	Creation and Maintanance of Web based Protection Database Management System and Desktop based Protection Setting Calculation Tool for Eastern Regional Grid.	1	20.00	17/03/2016	4.94	24.7%
POWERGRID	7.	Installation of STATCOMs in ER at Ranchi- New,Rourkela, Kishanganj and Jeypore substation of POWERGRID.	1	630.28	5/1/2016	0	0%
TOTAL			7	1027.96			

Reporting Format to the PSDF Project Monitoring Group				
1. Name of the Scheme				
1.1 Name of the substation and its Location				
1.2 Executing Agency				
1.3 State/Region				
2. Date of Sanction order				
2.1 Date of Agreement of Entity with State Govt./NLDC				
2.2 Total Approved Cost of the Scheme				
2.3 Approved Grant by Monitoring Committee (Rs. In Lakhs)				
2.4 Date of Requisition by the Entity				
2.4.a) date and Reference of LOA				
2.4.b) Amount of LOA				
2.5 Date of Disbursement and amount				
2.5.1 : 1st Installment				
2.5.2: IIrd installment				
2.5.3: IIIrd installment				
2.6 Date of Scheduled completion of Work				
2.7 Date of handing over of Site to entity (in case of turnkey projects)				

Report for the Month of MM / YY							
No.	Supply Description	Qty. AS PER LOA	Quantity Received during Month	CUMMULATIVE PROGRESS Till date		BALANCE	Remarks
				Sch.	Act.		
1	item Details						
1.1							
1.2							
....							
	Erection Description	works as per LOA	Progress During Month	CUMMULATIVE PROGRESS Till date		Balance	
2	work details						
2.1							
2.2							
....							
3	Others						
Signature with seal of the Nodal Officer							

RIO (E)::KOLKATA

MINUTES OF MEETING TO DISCUSS THE ISSUE OF CROSSINGS OF EXISTING 400KV D/C LINES OF IBEUL OVER THE PROPOSED MGR LINES OF OPGC HELD ON 29.03.2017 AT JHARSUGUDA

On 29.03.2017 the same locations were again inspected by representatives of IBEUL, OPGC & RIO (East), the following 4 points of crossing were jointly inspected by the above parties and the following points were discussed and agreed upon:

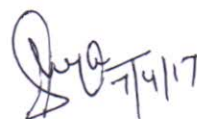
1. **At CH:16.941Km. between tower no:18 & 19:** IBEUL representative agreed to relocate tower No 19 and increase the height tower no 19 suitably as per the report of RITES mentioned above. OPGC representative agreed to the proposal.
2. **At CH 17.800Km. between tower no 14 & 15 and CH 17.399 Km. between tower no 16 & 17:** The proposed MGR corridor of OPGC and existing 400KV Transmission Line of IBEUL will cross between the above two locations. IBEUL representative proposed to dismantle towers no 15 & 16 and erect one new tower outside the rail corridor of OPGC between tower no 14 & 17, so that both the crossings are avoided. OPGC representative agreed to the proposal.
3. **At CH 20.216Km. between tower no 7A and 8:** IBEUL has proposed to dismantle existing towers 7A and 8 and erect one new tower of DD+25 nearby 7A and connect it directly to tower no 9, so as to maintain statutory clearance as per RITES report mentioned above. OPGC representative agreed to the proposal.

As per the realistic assessment of the site condition after joint inspection, it was felt it may take three months to complete the above work in all respect. Accordingly, IBEUL representative committed to complete the work on or before 30th June 2017 in all respect.

In this regard IBEUL representative intimated that they have already placed a work order to take up this work and shared the same with OPGC.

After completion of the above work the inspection of rectification work done by IBEUL in their line will be again carried out by RITES as per railway guidelines. The observation will be submitted to Dy. Director, RIO East for final clearance.

Since the railway line of OPGC is under construction and yet to be built over the four crossing points, IBEUL may be allowed to charge their dedicated line upto 30.06.2017. The commercial transaction shall be discontinued from 00.00 hrs of 01.07.2017 in case IBEUL fails to meet their commitment by 30th June, 2017.



(S. KEJRIWAL)
Deputy Director
RIO(E), KOLKATA

Annexure- B.13.2A

SI No	Details of the activity	Resource Status	Target date of Completion	Remarks
A	TOWER ERECTION(4 Nos are to be Completed)	Manpower/Material Availability		
	Location 9/0	Manpower is available, last lot of material is in transit and will be received by 10.03.2017.	25.03.2017	Foundations for all the 64 towers are complete and 59 towers have been erected. Erection work of three more towers is in progress. All the erection work will be completed by 29.03.2017
	Location 36/0		29.03.2017	
	Location 38/0		25.03.2017	
	Location 39/0		29.03.2017	
B	STRINGING OF CONDUCTOR ALONG WITH OPGW CABLE			
	GANTRY - Loc 1/0	Stringing gangs are available.	25.03.2017	9 Kms of stringing completed and 2 Kms is in progress. Stringing will be completed by 04.04.2017
	Loc 1/0 - Loc 3/0		25.03.2017	
	Loc 3/0 - Loc 6/0		28.03.2017	
	Loc 6/0 - Loc 9/0		25.03.2017	
	Loc 9/0 - Loc 11/0		22.03.2017	
	Loc 11/0 - Loc 15/0		22.03.2017	
	Loc 23/0 - Loc 24/0		21.03.2017	
	Loc 24/0 - Loc 25/0		21.03.2017	
	Loc 25/0 - Loc 26/0		22.03.2017	
	Loc 29/0 - Loc 30/0		26.03.2017	
	Loc 30/0 - Loc 31A/0		25.03.2017	
	Loc 31A/0 - Loc 32/0		28.03.2017	
	Loc 32/0 - Loc 33/0		28.03.2017	
	Loc 33/0 - Loc 36/0		04.04.2017	
	Loc 36/0 - Loc 39/0		04.04.2017	
	Loc 39/0 - Loc 42/0 - LILO LOC 008		04.04.2017	
C	SUBSTATION BAY ACTIVITIES	Work is in progress.		Information is already sent to M/s SIEMENS the OEM for testing and commissioning of C & R panels. CEA will be intimated for inspection after completion of the testing.
	Erection Of Control & Relay Panel		15.03.2017	
	Cabling. Termination and loop checking		25.03.2017	
	Establishment of voice communication and intertripping.		10.04.2017	
	Testing & Commissioning		31.03.2017	
	Intimation to CEA for bay inspection & charging clearance.		01.04.2017	
D	Application to CEA for inspection and charging clearance of the transmission line.	Application to CEA for inspection and accord charging clearance for the line.	05.04.2017	CEA will be intimated for inspection after completion of the stringing.



GRIDCO Limited

(A Govt. of Odisha Undertaking)

Regd. Office : Janpath, Bhubaneswar-751 022, Odisha

Phone : 0674-2541127 Fax : 2543452,

E-mail : dircommercial@yahoo.com, website : gridco.co.in

CIN NO - L40109OR1995SGC003960

By E-Mail/Fax

Dated/13/04/2017

No. Sr.GM (PP)-54/2012/Part-IV/ 55(6)

To

Shri A.K.Bandyopadhyay
Member Secretary,
Eastern Regional Power Committee (ERPC)
14, Golf Club Road, Tollygunge
Kolkata, West Bengal-700033.

**Sub:-Opening of interim connectivity arrangements/lines of M/s.
Vedanta Limited-Odisha-Regarding.**

- Ref:- 1) Letter of M/s. Vedanta Ltd addressed to CMD, GRIDCO dated 11-04-2017.
2) Letter of PGCIL to ERPC dated 11-04-2017.
3) Minutes of 35th ERPC meeting held on 25-02-2017.

Sir,

Inviting reference to the subject cited above, it is to intimate you that GRIDCO has been availing State entitlement of power from the State dedicated IPP-Unit#2(600MW) of M/s. Vedanta Ltd through the LILO connectivity to one circuit of Rourkela-Raigarh 400kV D/C line and the 400kV D/C Vedanta-Meramundali line. Further, as per the decision taken in the 35th ERPC meeting and recorded in the minutes of meeting under ref (3), the said interim connectivity arrangement with ISTS of M/s. Vedanta Ltd was extended upto 15-04-2017. In case of failure on the part of Vedanta to complete the dedicated line from their generating station to the CTU pooling station as per the extended time line, the CTU is authorised to disconnect the LILO connectivity with effect from 16-04-2017.

However, it is to bring to your notice that, disconnection of the aforementioned interim arrangement of M/s. Vedanta Ltd (LILO) as per the decision taken in the 35th ERPC meeting shall seriously affect the availability of IPP power to the tune of 550MW from M/s. Vedanta Ltd to GRIDCO during this ensuing summer. The demand of the State during summer season comparatively shoots up and remains

high. Also, hydro power is being utilized judiciously and accordingly reservoir levels of hydro stations of the State are being maintained for catering the State demand upto the end of summer. It is also to be noted here that shortage of power shall severely affect the essential services like emergency power supply to hospitals, supply of water to the general public etc. Moreover, as informed by M/s. Vedanta Ltd vid letter under ref (1), the construction work of 400kV radial line is under full swing and they are expected to complete the same along with statutory clearances by 31st May, 2017. The latest progress report of the said construction work is as submitted by M/s. Vedanta Ltd is enclosed herewith for your reference.

In view of the aforementioned facts and as assured by M/s. Vedanta Ltd to complete aforesaid construction work by 31st May, 2017, it will be in the overall interest of all if the work gets completed by the committed time line. However, it is requested to kindly consider to extend the aforesaid LILO Connectivity of M/s. Vedanta Ltd upto **30th June, 2017** to avoid any kind of eventuality in availability of power to GRIDCO during the summer season and thus demand of the State consumers can be meted out comfortably. It is further emphasized that, the extended time line may not be disturbed under any circumstances.

Therefore, looking at public interest of the State, the interim LILO connectivity of M/s. Vedanta Ltd may please be allowed to continue **till 30-06-2017**.

Encl: As Above

Yours faithfully,


Director (Commercial)

C.C to:- 1) Shri Ashok Pal, General Manager (CTU-Planning), PGCIL, Fax No: 0124-2571762/011-26601081.

2) The General Manager, ERLDC, 14- Golf Club Road, Tollygunge, Kolkata.

3) Sri. Pankaj Sharma, Plant Head (SSL-Jharsuguda), Vedanta Ltd, Burkhamunda, Kalimandir, Jharsuguda-768202.

3) The CGM (O & M), OPTCL/4) The Chief Load Despatcher, SLDC, Odisha.

5) EA to CMD, for kind information of CMD, GRIDCO.

Weekly Progress report on Construction of Dedicated Transmission Line:

As on dt. 8th April, 2017

Name of Applicant: Vedanta Ltd

1.	Dedicated Connectivity Line	Vedanta Switchyard to PGCIL Pooling station Sundargarh. 400KV D/c Line
2.	Length of Dedicated Connectivity Line	20.345 KM
3.	Type of Conductor	AL 59
4.	Conductor configuration	Twin Conductor
5.	Total Nos. of Transmission line towers	64 Nos.
6.	Tower Foundations Completed	64 Nos.
7.	Tower Erection Completed	61Nos.(Two nos tower erection is in progress)
8.	Stringing Completed	Stringing completed 11.6Km. (Stringing under progress 2.9Km)
9.	Completion Schedule of Dedicated transmission line along with the associated bay at Both ends.	15th April, 2017

Sl No	Details of the activity	Resource Status	Remarks
A	TOWER ERECTION(3 Nos are to be Completed)	Manpower/Material Availability	
	Location 36/0	Manpower and material are available. Total 3 gangs comprising of 72 persons are working at site.	Foundations for all the 64 towers are complete and 61 towers have been erected. Erection work of balance three towers is in progress.
	Location 38/0		
	Location 39/0		
B	STRINGING OF CONDUCTOR ALONG WITH OPGW CABLE		
	GANTRY - Loc 1/0	Currently 2 gangs (total 44 persons) are working at site. One more gang of 30 persons will reach site on 16.04.2017 i.e Sunday.	11.5 Kms of stringing completed and 3 Kms is in progress.
	Loc 1/0 - Loc 3/0		
	Loc 3/0 - Loc 6/0		
	Loc 23/0 - Loc 24/0		
	Loc 24/0 - Loc 25/0		
	Loc 25/0 - Loc 26/0		
	Loc 29/0 - Loc 30/0		
	Loc 30/0 - Loc 31A/0		
	Loc 31A/0 - Loc 32/0		
	Loc 32/0 - Loc 33/0		
	Loc 33/0 - Loc 36/0		
	Loc 36/0 - Loc 39/0		
	Loc 39/0 - Loc 42/0 - LILO LOC 008		
C	SUBSTATION BAY ACTIVITIES		
	Erection Of Control & Relay Panel	Work is in progress	Equipment erection and cabling is complete. Loop checking and commissioning is under progress.
	Cabling, Termination and loop checking		
	Establishment of voice communication and intertripping.		
	Testing & Commissioning		

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

1. State/Centre :
2. Month :
3. Year :

[illegible]

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

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

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

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

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

Date: 04/20/17 05:21 PM

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

Dear Sir,

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

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

Partha Ghosh {पार्थ घोष}

दावात्याग / Disclaimer:

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

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

- IPP : JITPL, GMR, IBEUL.
- POWERGRID : 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

1. 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
6. JHARSUGUDA @ 1500 MVA 765/400 kV ICT 2
7. BOLANGIR @ 315 MVA 400/220 kV ICT 1
8. 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

- **IBEUL** : 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,
- Durgapur TPS (DSTPS): Highly intermittent.

GRIDCO

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

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

PMU Installation and commissioning status of ER as on 20.04.2017

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

PMU Installation and commissioning status of ER as on 20.04.2017

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

ER PMU site activity Summary:

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

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

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

AVAILABILITY STATUS OF EVENT LOGGER, DISTURBANCE RECORDER & GPS

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

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

Eastern Regional Power Committee

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

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

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

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

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

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

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

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

- 5) Bihar informed that they have 10 sets of 220 kV ERS towers and 2 sets are under process of procurements.
- 6) DVC informed that they are in process of procuring two (2) sets of 400 kV ERS towers.

Annexure-C.1

Anticipated Power Supply Position for the month of
May-17

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
i)	NET MAX DEMAND	4200	2200
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	460	143
	- Central Sector	2938	1662
iii)	SURPLUS(+)/DEFICIT(-)	-802	-395
2	JHARKHAND		
i)	NET MAX DEMAND	1250	810
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	360	258
	- Central Sector	630	342
iii)	SURPLUS(+)/DEFICIT(-)	-260	-211
3	DVC		
i)	NET MAX DEMAND (OWN)	2760	1681
ii)	NET POWER AVAILABILITY- Own Source	4876	2685
	- Central Sector	568	364
	Long term Bi-lateral (Export)	1500	967
iii)	SURPLUS(+)/DEFICIT(-)	1184	401
4	ORISSA		
i)	NET MAX DEMAND	4300	2641
ii)	NET POWER AVAILABILITY- Own Source	3253	1985
	- Central Sector	1253	740
iii)	SURPLUS(+)/DEFICIT(-)	206	84
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAX DEMAND (OWN)	5980	3557
ii)	CESC's DRAWAL	0	0
iii)	TOTAL WBSEDCL's DEMAND	5980	3557
iv)	NET POWER AVAILABILITY- Own Source	3649	2138
	- Import from DPL	190	0
	- Central Sector	2722	1400
v)	SURPLUS(+)/DEFICIT(-)	581	-19
vi)	EXPORT (TO B'DESH & SIKKIM)	5	4
5.2	DPL		
i)	NET MAX DEMAND	270	194
ii)	NET POWER AVAILABILITY	460	187
iii)	SURPLUS(+)/DEFICIT(-)	190	-7
5.3	CESC		
i)	NET MAX DEMAND	2095	1092
ii)	NET POWER AVAILABILITY - OWN SOURCE	830	489
	FROM HEL	540	320
	FROM CPL/PCBL	90	69
	Import Requirement	635	214
iii)	TOTAL AVAILABILITY	2095	1092
iv)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAX DEMAND	8345	4843
ii)	NET POWER AVAILABILITY- Own Source	4939	2815
	- Central Sector+Others	3987	1720
iii)	SURPLUS(+)/DEFICIT(-)	581	-308
7	SIKKIM		
i)	NET MAX DEMAND	85	35
ii)	NET POWER AVAILABILITY- Own Source	5	3
	- Central Sector+Others	148	88
iii)	SURPLUS(+)/DEFICIT(-)	68	56
8	EASTERN REGION At 1.03 AS DIVERSITY FACTOR		
i)	NET MAX DEMAND	20330	12210
	Long term Bi-lateral by DVC	1500	967
	EXPORT BY WBSEDCL	5	4
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	23417	12803
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	1582	-378

**EASTERN REGIONAL LOAD DESPATCH CENTRE
KOLKATA**

Annexure- C.2

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 132TH OCC MEETING OF ERPC

Sr. No	NAME OF THE ELEMENTS	DATE	TIME	DATE	TIME	REMARKS	S/D availed BY	Reason	SUBJECT TO CONSENT FROM AGENCY
1	220 KV DVC#1 AT DURGAPUR	01-05-2017	08:00	01-05-2017	17:00	ODB	ER-II	CB Overhauling-trasfer load to transfer bus & protection	DVC
2	220kV NSLG-BRP Ckt-I	01-05-2017	09:00	01-05-2017	17:00	ODB	ER-II	PG clamp removal	NLDC
3	132 KV MAIN BUS AT MALDA S/S.	01-05-2017	09:00	01-05-2017	15:00	ODB	ER-II	FOR ATTENDING HOT SPOT AT MAIN BUS. COMPLETE POWER INTERRUPTION AT 132 KV LEVEL	WB
4	160 MVA ICT-II OF MALDA	01-05-2017	08:00	01-05-2017	17:00	ODB	ER-II	FOR COMMISSIONING OF NIFS	WB
5	500MVA ICT-II AT NEW PURNEA	01-05-2017	10:00	01-05-2017	16:00	ODB	ER - I	FOR TERTIARY BAY COMMISSINOING WORK.	BSPTCL
6	A/R of 400 KV Muzaffarpur - Biharsharif Ckt-1	01-05-2017	07:00	31-05-2017	18:00	ODB	ER - I	No Outage- LIVE LINE Installation of OPGW under ULDC Project	NLDC
7	A/R of 400 KV BANKA- Biharsharif Ckt-2	01-05-2017	07:00	31-05-2017	18:00	ODB	ER - I	No Outage- LIVE LINE Installation of OPGW under ULDC Project	
8	A/R of 400 KV Koderma- Biharsharif Ckt-2	01-05-2017	07:00	31-05-2017	18:00	ODB	ER - I	No Outage- LIVE LINE Installation of OPGW under ULDC Project	DVC
9	400kV BSF-Muzaffarpur-1 main bay no.-403 AT BSF	01-05-2017	10:00	04-05-2017	17:00	OCB	ER - I	Pneumatic Drive Overhauling of Circuit Braker	
10	132 KV TRANSFER BUS AT PURNEA	01-05-2017	09:00			PERMANENT	ER - I	GIS WORK	BSPTCL
11	132 KV MAIN BUS AT PURNEA	01-05-2017	09:00	01-05-2017	10:00	ODB	ER - I	GIS WORK	BSPTCL
12	132 KV PURNEA - PURNEA BSPTCL#1 LINE	01-05-2017	09:00	15-05-2017	16:00	OCB	ER - I	GIS WORK	BSPTCL
13	160 MVA ICT#3	01-05-2017	09:00	15-05-2017	16:00	OCB	ER - I	GIS WORK	BSPTCL
14	132 KV PURNEA - PURNEA BSPTCL#2 LINE	01-05-2017	09:00	15-05-2017	16:00	OCB	ER - I	GIS WORK	BSPTCL
15	400kv Angul-Meramundali Line-2 at Angul	01-05-2017	08:00	01-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	GRIDCO
16	400 kV Jeyapore-Indravati S/C Line at Jeyapore	01-05-2017	06:00	02-05-2017	18:00	ODB	ER-II/Odisha/Jeyapore	For Replacement of PID Defective Insulators in Jey-Ivt Line	NLDC
17	400KV Rourkela-Talcher#2	01-05-2017	09:00	03-05-2017	18:00	ODB	ER-2/Odisha/ROURKELA	Replacement of insulators at different locations.	
18	765KV 240MVAR Bus Reactor-I at Sundergarh	01-05-2017	08:00	02-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh	For RTV coating of 765KV Bushing (Under construction head)	NLDC
19	400KV BUS-II at Bolangir	01-05-2017	09:00	01-05-2017	09:00	ODB	ER-II/Odisha/BOLANGIR	AMP WORK	
20	A/R Non-Auto oprtaion in 400 KV Rourkela-Sundergarh-I	01-05-2017	08:00	31-05-2017	17:00	ODB	ER-II/Odisha/Sundergarh TLM	During PID Testing A/R relay to be kept as Non-automode	
21	A/R Non-Auto oprtaion in 400 KV Sundergarh-raigarh-II	01-05-2017	08:00	14-05-2017	17:00	ODB	ER-II/Odisha/Sundergarh TLM	During PID Testing A/R relay to be kept as Non-automode	NLDC
22	400 KV FKK-GOKARNA-I	02-05-2017	08:00	03-05-2017	17:00	ODB	ER-II	BALANCE CONSTRUCTION ACTIVITY.	WB
23	400 KV BINAGURI-RANGPO-II	02-05-2017	08:00	02-05-2017	17:00	ODB	ER-II	FOR INSULATOR REPLACEMENT BY MISCREANTS.	
24	220kV Main Bus - 1 & 2 (ALIPURDUAR)	02-05-2017	08:00	03-05-2017	17:00	OCB	ER-II	Installation of bay equipment of 02 nos 220 line bays for APD (PGCIL) - APD (WBSETCL) D/C TL of WBSETCL. Line is almost ready and S/D required for complition the bays within time.	NLDC
25	220kV NSLG-BRP Ckt-II	02-05-2017	09:00	02-05-2017	17:00	ODB	ER-II	PG clamp removal	NLDC
26	400 KV SUBHASGRAM-JEERAT	02-05-2017	09:00	04-05-2017	16:00	ODB	ER-II	FOR LA/CVT REPLACEMENT AT JEERAT	WB
27	315 MVA ICT-III AT MALDA	02-05-2017	09:00	02-05-2017	18:00	ODB	ER-II	FOR COMMISSIONING OF TERTIARY TRANSFORMER	WB
28	400 kV LKR-KHG Line-2 Main Bay AT LKR	02-05-2017	10:00	02-05-2017	14:00	ODB	ER - I	AMP	
29	500MVA ICT-I AT NEW PURNEA	02-05-2017	10:00	02-05-2017	16:00	ODB	ER - I	FOR TERTIARY BAY COMMISSINOING WORK.	BSPTCL
30	400 kv BARH - KAHALGAON -2	02-05-2017	07:00	03-05-2017	18:00	ODB	ER - I	BALANCE OPGW INSTALLATION WORK	
31	400KV BUS-3 AT BSF	02-05-2017	10:00	05-05-2017	17:00	OCB	ER - I	Bus Bar Relay commisioning work	
32	203 Bay (Bus Coupler Bay)	02-05-2017	10:00	02-05-2017	12:00	ODB	ER - I	For tan Delta mesurement of 203CT	
33	315MVAR ICT-I at Bolangir	02-05-2017	09:00	10-05-2017	18:00	ODB	ER-II/Odisha/BOLANGIR	Construction works of Firewall for Reactor package	GRIDCO
34	Tie Bay-708 of 765KV Sundergarh-Angul Line-II at Sundergarh	02-05-2017	08:00	06-05-2017	18:00	OCB	ER-II/Odisha/Sundergarh	REFURBISHMENT OF 765KV CB FOR DCRM PROBLEM(CONSTRUCTIONAL DEFECT)	NLDC
35	400KV Angul- Talcher line at Angul	02-05-2017	08:00	02-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	

36	220kV Buscoupler Bay(Bay no- 204) at Rengali	02-05-2017	09:00	02-05-2017	17:00	ODB	ER-II/Odisha/Rengali	Replacement of R & B Ph. CT	
37	400kV Malda-New Purnea-I	03-05-2017	08:00	04-05-2017	17:00	ODB	ER-II	Jumper tightness work	NLDC
38	220kV NSLG-SLG Ckt-II	03-05-2017	09:00	03-05-2017	17:00	ODB	ER-II	Relay retrofitting / AMP	NLDC
39	400kV NSLG-Kishanganj-2 Line	03-05-2017	07:00	03-05-2017	17:00	ODB	ER-II	Hot spot rectification	
40	765KV MAIN BUS-II at Angul	03-05-2017	08:00	04-05-2017	18:00	OCB	ER-II/Odisha /Angul SS	Jumpering Work of 765KV Angul-Sundergarh Line -3 & 4 for Connection with existing System Under Construction Head	NLDC
41	765KV D/C Angul-Jharsuguda TL (Ckt -I & II)	03-05-2017	08:00	04-05-2017	17:00	OCB	ER-II/Odisha /Sundergarh TLC	Stringing work of 765KV Angul-Jharsuguda D/C (Ckt-III & IV) transmission line	NLDC
42	400kV Bus-I OF BINAGURI	03-05-2017	07:00	04-05-2017	17:00	ODB	ER-II	To facilitate hot spot rectification in Purnea-3 & 4 Line and Ranaga-1 & 2 Line	
43	400 KV MAIN BAY OF BINAGURI-PURNEA-I	03-05-2017	09:00	07-05-2017	17:00	OCB	ER-II	FOR CB OVERHAULING. NO POWER INTERRUPTION. ELEMENT WILL BE CHARGED THROUGH OTHER BAY.	
44	400 KV MALDA-FARAKKA-D/C (One circuit at a time)	03-05-2017	09:00	08-05-2017	17:00	ODB	ER-II	FOR ATTENDING BALANCE PUNCH POINT OF RECONDUCTORING WORK. S/D CONTINUOUSLY DEFERRED DUE TO SYSTEM CONSTRAINT.	NLDC (SUBJECT TO HYDRO INFLOW IN TALA, CHUKHA, TEESTA-III & V)
45	220 KV MAIN BUS-I AT BIRPARA	03-05-2017	09:00	03-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	WB
46	400 KV CHAIBASA-JAMSHEDPUR CKT-1	03-05-2017	09:00	03-05-2017	14:00	ODB	ER - I	FOR REPLACEMENT OF DAMEGED CVT JB	
47	220KV CB OF 500MVA ICT-II (BAY NO.206) AT NEW PURNEA	03-05-2017	10:00	05-05-2017	18:00	OCB	ER - I	20652 CB Overhauling	
48	400kV D/C Maithon Gaya-I line	03-05-2017	08:00	04-05-2017	18:00	ODB	ER - I	For replacement of insulators damaged by miscreant 18,20 in multict portior	
49	400kV D/C Koderma Gaya-II line	03-05-2017	08:00	04-05-2017	18:00	ODB	ER - I	For replacement of insulators damaged by miscreant 18,20 in multict portior	DVC
50	80 MVAR Sipat LR-II AT RANCHI	03-05-2017	10:00	03-05-2017	17:30	ODB	ER - I	FOR AMP WORK	NLDC
51	400/220kV, 315MVA ICT-1 AT JSR	03-05-2017	09:00	03-05-2017	17:00	ODB	ER - I	HEAT SHRINK TUBE ON TERTIARY & WTI/OTI Replacement	JUSNL
52	220KV Patna- Sipara -I line	03-05-2017	10:00	03-05-2017	14:00	ODB	ER - I	Isolator alignment work	BSPTCL
53	400kv KTPP-Arambag	03-05-2017	06:00	03-05-2017	15:00	ODB	WB	Maintenance work	
54	400KV Angul-GMR Line-1 at Angul	03-05-2017	08:00	03-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	
55	400 KV BARIPADA LINE AT NEWDUBURI (OPTCL) SS	03-05-2017	09:00	03-05-2017	18:00	ODB	ER-II/Odisha/Baripada	RECTIFICATION OF LINE EARTH SWITCH STOCK UP PROBLEM, WHICH CAUSED 14 HOUR DELAY IN RESTORATION LAST TIME.	GRIDCO
56	Indravati Line Main Bay(410) at Jeypore	03-05-2017	09:30	03-05-2017	17:30	ODB	ER-II/Odisha/Jeypore	For AMP works (If Jey-Ivt Line S/D is not available)	NLDC
57	765KV 240MVAR Bus Reactor-II at Sundergarh	03-05-2017	08:00	04-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh	For RTV coating of 765KV Bushing (Under construction head)	NLDC
58	400KV Bus-1 (Connected line -Jeypore Line and UIHEP Line) at Indrav	03-05-2017	09:00	03-05-2017	18:00	ODB	ER-II/Odisha/Indravati	For retrofitting of Bus Bar Protection panel at Indravati ss. During the shut down, power flow in Jeypore-rengali line will be through Jeypore-Rengali Tie Bay. There will be no power flow in UIHEP line in due to availability of UIHEP tie bay.	NLDC/GRIDCO
59	ICT-1, Bay 403 & 106	03-05-2017	09:30	03-05-2017	18:00	ODB	BRBCL	403 & 106 bay CB remote operation.	
60	400 KV FKK-GOKARNA-II	04-05-2017	08:00	05-05-2017	17:00	ODB	ER-II	BALANCE CONSTRUCTION ACTIVITY.	WB
61	220 KV DVC#1 AT DURGAPUR	04-05-2017	08:00	04-05-2017	17:00	ODB	ER-II	Final commissioning of CB	DVC
62	400kV NSLG-Kishanganj-1 Line	04-05-2017	07:00	04-05-2017	17:00	ODB	ER-II	Hot spot rectification	
63	220 KV BIRPARA-MALBASE	04-05-2017	09:00	04-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	NLDC
64	400 KV Bus-II AT NEW RANCHI	04-05-2017	08:00	04-05-2017	18:00	ODB	ER - I	Commissioning of tie Bays of 400kV Ranchi-Patratu D/C line under ICP	
65	220 KV KANTI-MUZAFFARPUR-1	04-05-2017	08:00	06-05-2017	18:00	OCB	ER - I	OVERHAULING OF DRIVE MECHANISM OF ABB BREAKER AT KANTI	BSPTCL
66	400/220kV, 315MVA ICT-2 AT JSR	04-05-2017	09:00	04-05-2017	17:00	ODB	ER - I	HEAT SHRINK TUBE ON TERTIARY & WTI/OTI Replacement	JUSNL
67	400kv Arambag-PPSP#1	04-05-2017	06:00	04-05-2017	15:00	ODB	WB	Maintenance work	

68	400KV Bus-2 (Connected line -Rengali Line and 125MVAR Bus reactor)	04-05-2017	09:00	04-05-2017	18:00	ODB	ER-II/Odisha/Indravati	For retrofitting of Bus Bar Protection panel at Indravati ss. During the shut down, power flow in Jeypore-rengali line will be through Jeypore Rengali Tie Bay. 125MVAR bus reactor will be out of service due to availability of UIHEP tie bay.	NLDC
69	220KV BALASORE LINE-I BAY-201 AT BARIPADA	04-05-2017	09:00	07-05-2017	18:00	OCB	ER-II/Odisha/Baripada	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	GRIDCO
70	400KV Angul-GMR Line-2 at Angul	04-05-2017	08:00	04-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	
71	400 KB Rourkela-Sterlite-II & Rourkela - Sundargarh-II (both circuits together)	05-05-2017	08:00	06-05-2017	17:00	OCB	ER-II/Odisha /Sundergarh TLC	Stringing work of 765KV Angul-Jharsuguda D/C (Ckt-III & IV) transmission line	NLDC
72	220 KV s/c Budhipada-Korba ckt#3	05-05-2017	08:00	20-06-2017	18:00	OCB	ER-II/Odisha/Sundergarh TLM	Erection and stringing of M/C tower of diversion work	NLDC
73	220kV Siliguri-Kishanganj TL-I (ONE CKT AT A TIME)	05-05-2017	08:00	16-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work, One ckt S/D shall be taken, other ckt shall remain in service	
74	220kV Siliguri-Kishanganj TL-II (ONE CKT AT A TIME)	05-05-2017	08:00	16-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work, One ckt S/D shall be taken, other ckt shall remain in service	
75	400kV D/C Jeerat-Subhasgram TL	05-05-2017	08:00	05-05-2017	17:00	ODB	ER-II	Insulator change due to damage by miscreants	WB
76	220 KV ICT#2 incommence AT DURGAPUR	05-05-2017	08:00	05-05-2017	17:00	ODB	ER-II	CB Overhauling-transfer load to transfer bus & protection testing Fixing of insulation sleeve	
77	BINAGURI-BONGAIGAON-IV L/R	05-05-2017	09:00	05-05-2017	17:00	ODB	ER-II	AMP	NLDC
78	400kV Tala-I L/R along with Line	05-05-2017	09:00	05-05-2017	17:00	ODB	ER-II	Repeat tan delta of 400kV R Phase Bushing & Neutral Bushing Replacement / oil leakage arrest	NLDC
79	WBSETCL 220kV Bus Section-1 OF BINAGURI	05-05-2017	09:00	04-05-2017	17:00	OCB	ER-II	AMP	WB
80	WBSETCL 220kV Bus Section-2 OF BINAGURI	06-05-2017	09:00	07-05-2017	17:00	OCB	ER-II	AMP	WB
81	220kV NSLG-BRP Ckt-II	05-05-2017	09:00	05-05-2017	17:00	ODB	ER-II	Relay retrofitting / AMP	NLDC
82	400kV Tala Ckt-I	05-05-2017	09:00	05-05-2017	17:00	ODB	ER-II	Relay retrofitting	NLDC
83	400kV NSLG-Bangaigaon Ckt-I	05-05-2017	07:00	05-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	NLDC
84	400kV NSLG-Tala Ckt-I	05-05-2017	07:00	05-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	NLDC
85	400kV NSLG-Tala Ckt-4	05-05-2017	07:00	05-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	NLDC
86	125 MVAR Bus Reactor-I OF BINAGURI	05-05-2017	07:00	20-05-2017	17:00	OCB	ER-II	Internal Inspection	
87	160 MVA ICT-I OF BIRPARA	05-05-2017	09:00	05-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	WB
88	400 kV Tie Bay of LKR-KHG Line-2 & Bus Reactor AT LKR	05-05-2017	10:00	05-05-2017	14:00	ODB	ER - I	AMP	
89	400 KV Bus-I AT NEW RANCHI	05-05-2017	08:00	05-05-2017	18:00	ODB	ER - I	Commissioning of tie Bays of 400kV Ranchi-Patratu D/C line under ICP	
90	400kv BSF-Muzaffarpur-2 main bay no.-401 AT BSF	05-05-2017	10:00	08-05-2017	17:00	OCB	ER - I	Pneumatic Drive Overhauling of Circuit Breaker	
91	400kV D/C Maithon Gaya-II line	05-05-2017	08:00	06-05-2017	18:00	ODB	ER - I	For replacement of insulators damaged by miscreant 18,20 in multict portion	
92	400kV D/C Koderma Gaya-I line	05-05-2017	08:00	06-05-2017	18:00	ODB	ER - I	For replacement of insulators damaged by miscreant 18,20 in multict portion	DVC
93	50 Mvar Bus Reactor-1 AT JSR	05-05-2017	09:00	05-05-2017	17:00	ODB	ER - I	Bay extension work for Reactor Package	
94	315MVA ICT-II at Patna	05-05-2017	09:00	05-05-2017	18:00	ODB	ER - I	Application of insulation sleeve on tertiary	BSPTCL
95	400kv Arambag-PPSP#2	05-05-2017	06:00	05-05-2017	15:00	ODB	WB	Maintenance work	
96	765KV 240MVAR Angul Line Reactor-I at Sundergarh	05-05-2017	08:00	06-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh	For RTV coating of 765KV Bushing (Under construction head)	NLDC
97	400KV Angul-JITPL Line-1 at Angul	05-05-2017	08:00	05-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	
98	Indravati Line Tie Bay (411) at Jeypore	05-05-2017	09:30	05-05-2017	17:30	ODB	ER-II/Odisha/Jeypore	For AMP works (If Jey-Ivt Line S/D is not available)	NLDC
99	400 KV Rourkela-Chaibasa#1	05-05-2017	09:00	05-05-2017	18:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
100	220 KV s/c Budhipada-Korba Line	05-05-2017	08:00	31-05-2017	18:00	OCB	ER-II/Odisha/Sundergarh TLM	Erection and stringing of M/C (Multi Ckt) tower of diversion work	NLDC
101	400KV Bus-I	05-05-2017	09:30	05-05-2017	18:00	ODB	BRBCL	413 bay isolator to jack bus jumpering.	

102	400kV S/C Sagardighi-Farakka TL	06-05-2017	08:00	06-05-2017	17:00	ODB	ER-II	Insulator change due to damage by miscreants	WB
103	400kV NSLG-Bangaigaon Ckt-2	06-05-2017	07:00	10-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	NLDC
104	160 MVA ICT-II OF BIRPARA	06-05-2017	09:00	06-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	WB
105	400 KV CHAIBASA- KHARAGPUR CKT-2	06-05-2017	09:00	06-05-2017	17:00	ODB	ER - I	FOR AMP WORK	
106	400kV BUS-4 AT BSF	06-05-2017	10:00	09-05-2017	17:00	OCB	ER - I	Bus Bar Relay commisioning work	
107	420 Bay (Tie Bay of Sipat-I and Future Bay) AT RANCHI	06-05-2017	10:00	06-05-2017	14:00	ODB	ER - I	For AMP Work	
108	414 (Tie bay Chaibasa-2 & Andar-1) AT JSR	06-05-2017	09:00	12-05-2017	17:00	OCB	ER - I	Tie 41452 CB Replacement work	
109	400kv SgTPP-Subahsgram Line	06-05-2017	06:00	07-05-2017	16:00	ODB	WB	For drawing new 400kv Gokarna-SgTpp D/C lines above	
110	400KV Rourkela-Chaibasa#1 L/R Bay at Rourkela (Bay No.- 416LR).	06-05-2017	09:00	06-05-2017	14:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
111	400KV Angul-JITPL Line-2 at Angul	06-05-2017	08:00	06-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	
112	220kV Malda-Dalkhola TL-I (ONE CKT AT A TIME)	10-05-2017	08:00	18-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work, One ckt S/D shall be taken, other ckt shall remain in service	
113	220kV Malda-Dalkhola TL-II (ONE CKT AT A TIME)	10-05-2017	08:00	18-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work, One ckt S/D shall be taken, other ckt shall remain in service	
114	400 KV FKK-GOK-D/C	07-05-2017	08:00	08-05-2017	17:00	OCB	ER-II	BALANCE CONSTRUCTION ACTIVITY PERTAINING TO SWITCHYARD PORTION AND LINE	WB
115	400kV Malda-New Purnea-II	07-05-2017	08:00	09-05-2017	17:00	ODB	ER-II	Jumper tightness work	NLDC
116	400kV NSLG-Tala Ckt-2	07-05-2017	07:00	07-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	NLDC
117	220 KV BINAGURI-BIRPARA-I	07-05-2017	09:00	07-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	NLDC
118	400 KV SUBHASGRAM-SAGARDIGHI	07-05-2017	09:00	07-05-2017	16:00	ODB	ER-II	FOR LA REPLACEMENT	WB
119	220kV BRP-Chukha TL -I	08-05-2017	08:00	18-05-2017	17:00	OCB	ER-II	For ground clearance improvement as per Bhutan Govt.	NLDC/BHUTAN
120	220kV BRP-Chukha TL - II	08-05-2017	08:00	18-05-2017	17:00	OCB	ER-II	For ground clearance improvement as per Bhutan Govt.	NLDC/BHUTAN
121	400 KV TIE BAY OF BINAGURI-PURNEA-I	08-05-2017	09:00	11-05-2017	17:00	OCB	ER-II	FOR CB OVERHAULING. NO POWER INTERRUPTION. ELEMENT WILL BE CHARGED THROUGH OTUHER BAY	
122	220 KV BINAGURI-BIRPARA-II	08-05-2017	09:00	08-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	NLDC
123	220 KV SUBHASGRAM-SUBHASGRAM-I	08-05-2017	09:00	08-05-2017	16:00	ODB	ER-II	FOR LA REPLACEMENT	WB
124	132 kV LKR-LKR (BSPTCL) Line-I	08-05-2017	10:00	08-05-2017	14:00	ODB	ER - I	AMP	BSPTCL
125	400 KV New Ranchi-Purulia Line at New Ranchi	08-05-2017	08:00	08-05-2017	18:00	ODB	ER - I	Commissioning of tie Bays of 400kV Ranchi-Patratu D/C line under ICP	WB
126	MAIN BAY OF 400KV MALDA-I (BAY NO.416) AT NEW PURNEA	08-05-2017	10:00	10-05-2017	18:00	OCB	ER - I	41652 CB Overhauling	
127	765 BR-I at Gaya S/S	08-05-2017	08:00	08-05-2017	18:00	ODB	ER - I	REPAINTING WORK OF REACTOR	NLDC
128	220 KV KANTI-MUZAFFARPUR-2	08-05-2017	08:00	10-05-2017	18:00	OCB	ER - I	OVERHAULING OF DRIVE MECHANISM OF ABB BREAKER AT KANTI	BSPTCL
129	315MVA ICT-I at Patna	08-05-2017	09:00	09-05-2017	18:00	OCB	ER - I	for CSD commisioning work	BSPTCL
130	400KV,125MVAR Bus Reactor-1 at Angul	08-05-2017	08:00	08-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	
131	220KV BALASORE LINE-II BAY-202 AT BARIPADA	08-05-2017	09:00	11-05-2017	18:00	OCB	ER-II/Odisha/Baripada	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	GRIDCO
132	Bolangir Line Main Bay (415) at Jeypore	08-05-2017	09:30	08-05-2017	17:30	ODB	ER-II/Odisha/Jeypore	For AMP works	
133	400KV Rourkela-Talcher#1 Main Bay (Bay No.- 406) at Rourkela	08-05-2017	09:00	08-05-2017	18:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
134	765KV 240MVAR Angul Line Reactor-II at Sundergarh	08-05-2017	08:00	09-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh	For RTV coating of 765KV Bushing (Under construction head)	NLDC
135	220kV PGCL-OPTCL -I Bay (Bay no- 208)at Rengali	08-05-2017	09:00	08-05-2017	17:00	ODB	ER-II/Odisha/Rengali	Jumper tightening and replacement of all nuts and bolts.	GRIDCO
136	ICT-2, Bay 407 & 102	08-05-2017	09:30	08-05-2017	18:00	ODB	BRBCL	407 bay remote operation, 102 bay signal testing & remote operation	
137	400kV JRT-Subhasgram-I (ONE CKT AT A TIME)	09-05-2017	08:00	16-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work,One ckt S/D shall be taken, other ckt shall remain in service	WB
138	400kV JRT-Subhasgram-II (ONE CKT AT A TIME)	09-05-2017	08:00	16-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work,One ckt S/D shall be taken, other ckt shall remain in service	WB
139	220 KV ICT#2 incommer AT DURGAPUR	09-05-2017	08:00	09-05-2017	17:00	ODB	ER-II	Final commissioning of CB	
140	765KV MAIN BUS-I at Angul	09-05-2017	08:00	10-05-2017	18:00	OCB	ER-II/Odisha /Angul SS	Jumpering Work of 765KV Angul-Sundergarh Line -3 & 4 for Connection with existing System Under Construction Head	NLDC
141	220kV NSLG-SLG Ckt-I	09-05-2017	09:00	09-05-2017	17:00	ODB	ER-II	Relay retrofitting / AMP	
142	400kV NSLG-Tala Ckt-3	09-05-2017	07:00	09-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	NLDC

143	400 KV MALDA-PURNEA-D/C (One circuit at a time)	07-05-2017	09:00	09-05-2017	17:00	ODB	ER-II	FOR ATTENDING HOT SPOT IN LINE & FOR BRINGING 63 MVAR L/R AT MALDA END IN SERVICE. S/D CONTINUOUSLY DEFERRED DUE TO SYSTEM	NLDC
144	220 KV MAIN BUS-I AT DALKHOLA	09-05-2017	09:00	09-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	WB
145	400 KV New Ranchi-Arambagh Line at New Ranchi	09-05-2017	08:00	09-05-2017	18:00	ODB	ER - I	Commissioning of tie Bays of 400kV Ranchi-Patratu D/C line under JCP	WB
146	400kV BSf-Muzaffarpur-1 & 2 Tie bay no.-402 AT BSF	09-05-2017	10:00	12-05-2017	17:00	OCB	ER - I	Pneumatic Drive Overhauling of Circuit Breaker	
147	765 BR - II at Gaya S/S	09-05-2017	08:00	09-05-2017	18:00	ODB	ER - I	REPAINTING WORK OF REACTOR	NLDC
148	220KV Ranchi-Hati-1	09-05-2017	10:00	09-05-2017	17:30	ODB	ER - I	For AMP of Line CT & Cheking of Line LA	JUSNL
149	400KV,125MVAR Bus Reactor-2 at Angul	09-05-2017	08:00	09-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	
150	400kV S/C Durgapur-Jamshedpur TL	10-05-2017	08:00	10-05-2017	17:00	ODB	ER-II	Replacement of defective Porcelain Insulators with CLR identified after PID Testing	
151	Tala-2 L/R OF BINAGURI	10-05-2017	07:00	10-05-2017	17:00	ODB	ER-II	CSD Commissioning / Tan Delta in Variable Frequency	NLDC
152	315 MVA ICT-V & 400 KV Bus-II AT MALDA.	10-05-2017	08:00	10-05-2017	17:00	ODB	ER-II	Isolator alignment works.	WB
153	400 KV ANDAL-JAMSHEDPUR-D/C (ONE CIRCUIT AT A TIME)	10-05-2017	09:00	13-05-2017	17:00	ODB	ER-II	FOR REPLACEMENT OF INSULATOR DAMAGED BY MISCREANTS	DVC
154	220 KV MAIN BUS-II AT DALKHOLA	10-05-2017	09:00	10-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	WB
155	132 KV MALDA-MALDA-I	10-05-2017	09:00	12-05-2017	16:00	ODB	ER-II	FOR ISOLATOR REPLACEMENT WORK	WB
156	220 KV SUBHASGRAM-NEW TOWN	10-05-2017	09:00	10-05-2017	16:00	ODB	ER-II	FOR LA REPLACEMENT	WB
157	132 kV LKR-LKR (BSPTCL) Line-2	10-05-2017	10:00	10-05-2017	14:00	ODB	ER - I	AMP	BSPTCL
158	L/R OF 765 KV NEW RANCHI -DHARAMJAYGARH -1 AT NEW RANCHI	10-05-2017	10:00	10-05-2017	14:00	ODB	ER - I	Switching over of B-ph Reactor with spare Reactor .	NLDC
159	400 KV KHG - LKS Ckt. I	10-05-2017	09:00	10-05-2017	18:00	ODB	ER - I	For Insulator replacement found defective after PID	
160	220KV BUS-I at Gaya S/S	10-05-2017	08:00	10-05-2017	18:00	ODB	ER - I	For KHIJARSARAI bay commissioning work	BSPTCL
161	220KV Ranchi-Hati-2	10-05-2017	10:00	10-05-2017	17:30	ODB	ER - I	For AMP of Line CT & Cheking of Line LA	JUSNL
162	400 KV Kahalgaon Banka Line-1	10-05-2017	09:30	10-05-2017	17:30	ODB	KAHALGAON	PM works & relay testing	
163	Jeerat: 315MVA TR#2	10-05-2017	06:00	10-05-2017	15:00	ODB	WB	Maintenance work	
164	400KV,125MVAR Bus Reactor-3 at Angul	10-05-2017	08:00	10-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	NTAMC Validation Work.	
165	400 kV Bus-I at Jeypore	10-05-2017	09:30	10-05-2017	13:30	ODB	ER-II/Odisha/Jeypore	For Relay Testing after Retrofitting of BusBar Protection System	
166	400 kV Bus-II at Jeypore	10-05-2017	14:00	10-05-2017	18:00	ODB	ER-II/Odisha/Jeypore	For Relay Testing after Retrofitting of BusBar Protection System	
167	400KV Rourkela-Talcher#1 Tie Bay (Bay No.- 405) at Rourkela	10-05-2017	09:00	10-05-2017	16:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
168	400 KV Nabinagar - Sasaram line-1, 400 KV Bus-II & Bay 409	10-05-2017	09:30	11-05-2017	18:00	OCB	BRBCL	(a) 412 bay Al. pipe erection, Isolator Alingnment, Signal Testing, At testing, Remote Operation.	
169	400kV Binaguri-Bongaigaon TL-I	11-05-2017	08:00	31-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work, One ckt S/D shall be taken, other ckt shall remain in service	NLDC
170	400kV Binaguri-Bongaigaon TL-II	11-05-2017	08:00	31-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work, One ckt S/D shall be taken, other ckt shall remain in service	NLDC
171	400kV S/C Sagardighi-Farakka TL	11-05-2017	08:00	11-05-2017	17:00	ODB	ER-II	Insulator change due to damage by miscreants	WB
172	400 KV Maithon Line1 AT DURGAPUR	11-05-2017	08:00	11-05-2017	17:00	ODB	ER-II	Wave trap jumper rectification	
173	Bangaigaon-III L/R OF BINAGURI	11-05-2017	07:00	11-05-2017	17:00	ODB	ER-II	Tan Delta in Variable Frequency	NLDC
174	220 KV WBSETCL-I AT DLKHOLA	11-05-2017	09:00	11-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	WB
175	220 KV CHAIBASA-CHAIBASA CKT-2	11-05-2017	09:00	11-05-2017	17:00	ODB	ER - I	FOA AMP OF 220 KV LINE BAY	
176	765 KV Jharsuguda- Dharamjaygarh Transmission line (Ckt-I & II)	11-05-2017	08:00	13-05-2017	17:00	OCB	ER-II/Odisha /Sundergarh TLC	Stringing work of 765KV Jharsuguda - Dharamjaygarh D/C (Ckt-I & II) transmission line with swapping arrangement	NLDC
177	TIE BAY OF 400KV MALDA-I (BAY NO.417) AT NEW PURNEA	11-05-2017	10:00	13-05-2017	18:00	OCB	ER - I	41752CB Overhauling	
178	400 KV KHG - LKS Ckt. II	11-05-2017	09:00	11-05-2017	18:00	ODB	ER - I	For Insulator replacement found defective after PID	
179	220KV BUS-II at Gaya S/S	11-05-2017	08:00	11-05-2017	18:00	ODB	ER - I	For KHIJARSARAI bay commissioning work	BSPTCL
180	220 KV BUS-2 AT MUZ	11-05-2017	09:00	12-05-2017	18:00	ODB	ER - I	EXTENSION OF GIS BAY	BSPTCL
181	132 KV Muz- Dhalkebar (Nepal) line-2	11-05-2017	10:00	11-05-2017	14:00	ODB	ER - I	EXTENSION OF GIS BAY (FOR JUMPER CONNECTION WITH GIS)	NLDC/BSPTCL
182	Main bay of Ara line-I at Khagaul bay	11-05-2017	10:00	14-05-2017	18:00	OCB	ER - I	CB overhauling work at Khagaul ss	BSPTCL
183	220 kV Bus-I at Jeypore	11-05-2017	09:30	11-05-2017	13:30	ODB	ER-II/Odisha/Jeypore	For Relay Testing after Retrofitting of BusBar Protection System	GRIDCO
184	220 kV Bus-II at Jeypore	11-05-2017	14:00	11-05-2017	18:00	ODB	ER-II/Odisha/Jeypore	For Relay Testing after Retrofitting of BusBar Protection System	GRIDCO

185	765kV Angul-Srikakulam Line-1 at Angul	11-05-2017	08:00	11-05-2017	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation work	NLDC
186	Tie Bay-711 of 765KV Sundergarh-Angul Line #I at Sundergarh	11-05-2017	08:00	11-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh	AMP WORK	NLDC
187	315MVAR ICT-I at Bolangir	11-05-2017	09:00	20-05-2017	18:00	OCB	ER-II/Odisha/BOLANGIR	Construction works of Firewall for Reactor package	GRIDCO
188	400kV New Siliguri-New Purnea-I	12-05-2017	08:00	12-05-2017	17:00	ODB	ER-II	Jumper tightness work	
189	400 KV MAIN BAY OF BINAGURI-KISHANGANJ-I	12-05-2017	09:00	15-05-2017	17:00	OCB	ER-II	FOR CB OVERHAULING. NO POWER INTERRUPTION. ELEMENT WILL BE CHARGED THROUGH OTHER BAY	
190	220 KV WBSETCL-II AT DLKHOLA	12-05-2017	09:00	12-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	WB
191	132 kV LKR-Jamui (BSPTCL) Line-I	12-05-2017	10:00	12-05-2017	14:00	ODB	ER - I	AMP	BSPTCL
192	315 MVA ICT-1 AT CHAIBASA	12-05-2017	09:00	12-05-2017	17:00	ODB	ER - I	FOR APPLICATION OF INSULATION SLEEVE ON TERTIARY SIDE	
193	765/400KV ICT-I AT NRNC	12-05-2017	10:00	12-05-2017	14:00	ODB	ER - I	Switching over of B-ph ICT with spare ICT .	NLDC
194	400 KV LKS - BSF Ckt. I	12-05-2017	09:00	12-05-2017	18:00	ODB	ER - I	For Insulator replacement found defective after PID	
195	400KV BUS-I at Gaya S/S	12-05-2017	08:00	12-05-2017	18:00	ODB	ER - I	for isolator rectification work under S/S extn. package	
196	Jeerat: 315MVA TR#3	12-05-2017	06:00	12-05-2017	15:00	ODB	WB	Maintenance work	
197	Main Bay-701 of 765KV Bus Reactor-I at Sundergarh	12-05-2017	08:00	12-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh	AMP WORK	NLDC
198	400KV Rourkela-Talcher#2 Main Bay (Bay No.- 407) at Rourkela	12-05-2017	09:00	12-05-2017	14:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
199	765kV Angul-Srikakulam Line-2 at Angul	12-05-2017	08:00	12-05-2017	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation Work	NLDC
200	220 KV BUS COUPLER BAY-203 AT BARIPADA	12-05-2017	09:00	15-05-2017	18:00	OCB	ER-II/Odisha/Baripada	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	
201	ICT-I (3x 105 MVA) at Jeypore	12-05-2017	10:30	12-05-2017	11:30	ODB	ER-II/Odisha/Jeypore	For changing ICT-I combination form Unit-I,II, IV to Unit-I,II and III for charging Unit-III after Oil Refilling Works due to H2 violation	GRIDCO
202	125 MVAR Bus Reactor-II OF BINAGURI	13-05-2017	07:00	13-05-2017	17:00	ODB	ER-II	Tan Delta in Variable Frequency	
203	400kV MTN -Rightbank 1 Line	13-05-2017	10:00	13-05-2017	17:30	ODB	ER-II	Insulator replacement.	
204	400 KV FARAKKA-DURGAPUR-D/C (ONE CIRCUIT AT A TIME).	13-05-2017	09:00	16-05-2017	17:00	ODB	ER-II	FOR REPLACEMENT OF INSULATOR DAMAGED BY MISCREANTS.	
205	132 KV MALDA-MALDA-II	13-05-2017	09:00	15-05-2017	16:00	ODB	ER-II	FOR ISOLATOR REPLACEMENT WORK	WB
206	400 KV CHAIBASA-ROURKELA CKT-2	13-05-2017	09:00	13-05-2017	17:00	ODB	ER - I	FOR COMMISSIONING OF AUTO RECLOSE RELAY	
207	400kv BSF-Sasaram-2 main bay no.-409 AT BSF	13-05-2017	10:00	16-05-2017	17:00	OCB	ER - I	Pneumatic Drive Overhauling of Circuit Braker	
208	400 KV LKS - BSF Ckt. II	13-05-2017	09:00	13-05-2017	18:00	ODB	ER - I	For Insulator replacement found defective after PID	
209	400KV BUS-II at Gaya S/S	13-05-2017	08:00	13-05-2017	18:00	ODB	ER - I	for isolator rectification work under S/S extn. package	
210	JSR-Chaibasa-2	13-05-2017	09:00	13-05-2017	17:00	ODB	ER - I	Chaibasa-2 Main CB 41352 Replacement work	
211	413 Chaibasa-2 Main bay	13-05-2017	09:00	18-05-2017	17:00	OCB	ER - I	Chaibasa-2 Main CB 41352 Replacement work	
212	765kV Angul-Sundargarh Line-1 at Angul	13-05-2017	08:00	13-05-2017	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability. And NTAMC Validation work	NLDC
213	Bay 411 & 412	13-05-2017	09:30	13-05-2017	18:00	ODB	BRBCL	411 bay signal testing.	
214	400kV New Siliguri-New Purnea-II	14-05-2017	08:00	14-05-2017	17:00	ODB	ER-II	Jumper tightness work	
215	220kV SLG-Kishanganj Ckt-2	14-05-2017	07:00	19-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	
216	315MVA ICT#1 OF BINAGURI	14-05-2017	07:00	14-05-2017	17:00	ODB	ER-II	Tan Delta in Variable Frequency / 220kV Bay AMP	NLDC
217	400kv Arambag-BKTPP	14-05-2017	06:00	14-05-2017	15:00	ODB	WB	Maintenance work	
218	220kV Bus-I OF BINAGURI	15-05-2017	07:00	15-05-2017	17:00	ODB	ER-II	Bus isolator hot spot rectification / CVT replacement	
219	400kV NSLG-Rangpo Ckt-I	15-05-2017	07:00	16-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	
220	315MVA ICT#2 OF BINAGURI	15-05-2017	07:00	15-05-2017	17:00	ODB	ER-II	Tan Delta in Variable Frequency / 220kV Bay AMP	NLDC
221	400kV NSLG-Rangpo Ckt-I	15-05-2017	09:00	16-05-2017	17:00	ODB	ER-II	Sag adjustment	
222	132 kV LKR-Jamui (BSPTCL) Line-2	15-05-2017	10:00	15-05-2017	14:00	ODB	ER - I	AMP	BSPTCL
223	MAIN BAY OF 400KV MALDA-II (BAY NO.413) AT NEW PURNEA	15-05-2017	10:00	17-05-2017	18:00	OCB	ER - I	41352CB Overhauling	
224	765KV BUS-I at Gaya S/S	15-05-2017	08:00	15-05-2017	18:00	ODB	ER - I	for isolator rectification work under S/S extn. package	NLDC
225	Sundergarh-Raigarh#1	15-05-2017	08:00	17-03-2017	18:00	ODB	ER-II/Odisha/Sundergarh TLM	Insulator replacement	NLDC

226	500MVA ICT-3 AT MUZ	15-05-2017	08:00	19-05-2017	18:00	OCB	ER - I	GASKETS REPLACEMENT OF TURRET & BUSHINGS 500MVA ICT-3	NLDC/BSPTCL
227	Main bay of Ara line-II at Khagaul bay	15-05-2017	10:00	18-05-2017	18:00	OCB	ER - I	CB overhauling work at Khagaul ss	BSPTCL
228	765kV Angul-Sundargarh Line-2 at Angul	15-05-2017	08:00	15-05-2017	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation Work	NLDC
229	400 kV Jeypore-Bolangir S/C Line at Jeypore	15-05-2017	09:30	15-05-2017	15:30	ODB	ER-II/Odisha/Jeypore	For Changing Y-Ph CVT of Bolangir Line due to Secondary Voltage Drift Violation	NLDC
230	400KV Sundargarh#2 & Ranchi#1 Tie Bay (Bay No.- 429) at Rourkela	15-05-2017	09:00	15-05-2017	16:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
231	Tie Bay-708 of 765KV Sundergarh-Angul Line-II at Sundergarh	15-05-2017	08:00	15-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh	Polymer anchoring in Jack Bus side Isolator.	NLDC
232	400 KV Sundergarh-Raigarh-II	15-05-2017	08:00	22-05-2017	18:00	OCB	ER-II/Odisha/Sundergarh TLM	Line rectification work which include new foundation, erection & stringing at Loc No-426	NLDC
233	400 KV Sterlite-Raigarh-II	15-05-2017	08:00	22-05-2017	18:00	OCB	ER-II/Odisha/Sundergarh TLM	Line rectification work which include new foundation, erection & stringing at Loc No-426	NLDC
234	400 KV Nabinagar - Sasaram line-2 & 416 bay	15-05-2017	09:30	15-05-2017	18:00	ODB	BRBCL	416 bay auto reclose testing.	
235	125 mvar bus reactor 3 AT DURGAPUR	16-05-2017	08:00	16-05-2017	17:00	ODB	ER-II	final commissioning of CSD & variable frequency tandelta	
236	400 KV TIE BAY OF BINAGURI-KISHANGANJ-I	16-05-2017	09:00	19-05-2017	17:00	OCB	ER-II	FOR CB OVERHAULING. NO POWER INTERRUPTION. ELEMENT WILL BE CHARGED THROUGH OTHER BAY.	
237	500MVA ICT-I at Maithon	16-05-2017	10:00	16-05-2017	17:30	ODB	ER-II	Leakage arresting work.	DVC
238	400 kV LKR-KHG Line-I	16-05-2017	10:00	16-05-2017	17:00	ODB	ER - I	To replace porcelain insulators damaged by miscreants	
239	765KV BUS-II at Gaya S/S	16-05-2017	08:00	16-05-2017	18:00	ODB	ER - I	for isolator rectification work under S/S extn. package	NLDC
240	132 KV PURNEA - PURNEA BSPTCL#3 LINE	16-05-2017	09:00	31-05-2017	16:00	OCB	ER - I	GIS WORK	BSPTCL
241	132 KV PURNEA - KISHANGANJ LINE	16-05-2017	09:00	31-05-2017	16:00	OCB	ER - I	GIS WORK	BSPTCL
242	160 MVA ICT#2	16-05-2017	09:00	31-05-2017	16:00	OCB	ER - I	GIS WORK	BSPTCL
243	160 MVA ICT#1	16-05-2017	09:00	31-05-2017	16:00	OCB	ER - I	GIS WORK	BSPTCL
244	400kV Barh Patna Line 2	16-05-2017	09:30	17-05-2017	18:00	OCB	BARH	Annual testing of Bay equipments & its Relay	
245	Tie Bay-711 of 765KV Sundergarh-Angul Line-I at Sundergarh	16-05-2017	08:00	16-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh	Polymer anchoring in Jack Bus side Isolator.	NLDC
246	400kV Angul-Bolangir Line at Angul	16-05-2017	08:00	16-05-2017	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation work	NLDC
247	220 KV SIDE OF 315 MVA ICT-II, BAY-204 AT BARIPADA	16-05-2017	09:00	19-05-2017	18:00	OCB	ER-II/Odisha/Baripada	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	GRIDCO
248	400KV Rengali-Indravati line at Bolangir	16-05-2017	07:00	19-05-2017	18:00	ODB	ER-II/Odisha/BOLANGIR	Replacement of Porcelain insulators with Polymer insulators in major crossings.	
249	400KV Jeypore Main Bay at Indravati	16-05-2017	09:00	16-05-2017	16:00	OCB	ER-II/Odisha/Indravati	For carrying out AMP(During the shut down,there will be no power flow in UIHEP line due to non-availability of UIHEP tie by.	
250	220kV Bus-II OF BINAGURI	17-05-2017	07:00	17-05-2017	17:00	ODB	ER-II	Bus isolator hot spot rectification	
251	400kV NSLG-Rangpo Ckt-2	17-05-2017	07:00	18-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	
252	400kV NSLG-Rangpo Ckt-II	17-05-2017	09:00	18-05-2017	17:00	ODB	ER-II	Sag adjustment	
253	400kV MTN -Rightbank 2 Line	17-05-2017	10:00	17-05-2017	17:30	ODB	ER-II	Insulator replacement.	
254	400kV BSf-Sasaram-2 Tie bay no.-408 AT BSF	17-05-2017	10:00	20-05-2017	17:00	OCB	ER - I	Pneumatic Drive Overhauling of Circuit Braker	
255	400 KV Kahalgaon Banka Line-2	17-05-2017	09:30	17-05-2017	17:30	ODB	KAHALGAON	PM works & relay testing	
256	400kV Angul-Meramundali Line-1 at Angul	17-05-2017	08:00	17-05-2017	18:00	ODB	ER-II/Odisha/Angul TLAM	Improvement & strengthening of line jumpers to prevent swing during high speed wind to avoid tripping in future & improvement of line availability & reliability and NTAMC Validation work	GRIDCO
257	220KV Bus-I at Rourkela	17-05-2017	09:00	17-05-2017	18:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	GRIDCO
258	400kV Keonjhar Line (Bay - 401)	17-05-2017	09:00	17-05-2017	17:00	ODB	ER-II/Odisha/Rengali	Retrofitting of DP Relay	
259	400kV MTN Durgapur 2 Line	18-05-2017	10:00	18-05-2017	17:30	ODB	ER-II	AMP work for line Bay.	
260	TIE BAY OF 400KV MALDA-II (BAY NO.414) AT NEW PURNEA	18-05-2017	10:00	20-05-2017	18:00	OCB	ER - I	41452CB Overhauling	
261	JSR-Chaibasa-2	18-05-2017	09:00	18-05-2017	17:00	ODB	ER - I	Chaibasa-2 Main CB 41352 Replacement work	

262	765kV side of ICT#2 Main Bay (707) at Angul	18-05-2017	09:00	18-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	FOR DCRM REFURBISHMENT OF CB.	NLDC
263	220 kV Jeypore-Jayanagar-I Line at Jeypore	18-05-2017	09:30	18-05-2017	17:30	ODB	ER-II/Odisha/Jeypore	For Changing R & Y-Ph CT of Jayanagar-I Line due to H2 Violation	GRIDCO
264	Rourkela-Sterlite#2	18-05-2017	08:00	18-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh TLM	Insulator replacement	
265	Rourkela-Sundergarh#2	19-05-2017	08:00	19-05-2017	18:00	ODB	ER-II/Odisha/Sundergarh TLM	Insulator replacement	
266	400kV S/C Durgapur-Jamshedpur TL	19-05-2017	08:00	19-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work One ckt S/D shall be taken, other ckt shall remain in service	
267	125 mvar bus reactor 2 parallel with 50 MVAR Bus reactor 1 AT DURGAPUR	19-05-2017	08:00	19-05-2017	17:00	ODB	ER-II	Variable frequency tandelta	
268	408 (Tie Maithon - Chaibasa-1) AT JSR	19-05-2017	09:00	24-05-2017	17:00	OCB	ER - I	Tie 40852 CB Replacement work	
269	220KV Bus-II at Rourkela	19-05-2017	09:00	19-05-2017	18:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	GRIDCO
270	220 kV Jeypore-Jayanagar-2 Line at Jeypore	19-05-2017	09:30	19-05-2017	15:30	ODB	ER-II/Odisha/Jeypore	For Changing B-Ph CVT of Jayanagar-II Line due to Oil Leakage	GRIDCO
271	765kV Bus Reactor-1 Main Bay (712) at Angul	19-05-2017	09:00	19-05-2017	18:00	ODB	ER-II/Odisha/Angul SS	FOR DCRM REFURBISHMENT OF CB.	NLDC
272	400kV Farakka-Malda -I	20-05-2017	08:00	27-05-2017	17:00	ODB	ER-II	Punch point clearance	NLDC (SUBJECT TO HYDRO INFLOW IN TALA, CHUKHA, TEESTA-III & V)
273	400kV Farakka-Malda -II	20-05-2017	08:00	27-05-2017	17:00	ODB	ER-II	Punch point clearance	NLDC (SUBJECT TO HYDRO INFLOW IN TALA, CHUKHA, TEESTA-III & V)
274	400kV NSLG-Purnea Ckt-1	20-05-2017	07:00	22-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	NLDC
275	220kV SLG-Kishanganj Ckt-1	20-05-2017	07:00	25-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	
276	400 KV MAIN BAY OF BINAGURI-KISHANGANJ-II	20-05-2017	09:00	23-05-2017	17:00	OCB	ER-II	FOR CB OVERHAULING. NO POWER INTERRUPTION. ELEMENT WILL BE CHARGED THROUGH OTHER BAY	
277	315 MVA ICT-II OF DURGAPUR	20-05-2017	09:00	20-05-2017	16:00	ODB	ER-II	FOR PROVIDING INSULATING SLEEVES TO TERTIARY.	DVC
278	220 KV SIDE OF 315 MVA ICT-I, BAY-208 AT BARIPADA	20-05-2017	09:00	23-05-2017	18:00	OCB	ER-II/Odisha/Baripada	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	GRIDCO
279	315 MVA, 400/220 KV ICT#2 AT BARIPADA	20-05-2017	08:00	27-05-2017	18:00	OCB	ER-II/Odisha/Baripada	For Replacement of Bushings.	GRIDCO
280	80 MVAR Bus Reactor at Bolangir	20-05-2017	09:00	30-05-2017	18:00	OCB	ER-II/Odisha/BOLANGIR	Construction works of Firewall for Reactor package	
281	400kV BSF-Lakhisarai-1 main bay no.-413 AT BSF	21-05-2017	10:00	24-05-2017	17:00	OCB	ER - I	Pneumatic Drive Overhauling of Circuit Braker	
282	400kv Arambag-Durgapur	21-05-2017	06:00	21-05-2017	15:00	ODB	WB	Maintenance work	
283	220 KV DALKHOLA-KISHANGANJ-I	22-05-2017	09:00	22-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	
284	200 MVA ICT-2 AT LKR	22-05-2017	08:00	25-05-2017	18:00	ODB	ER - I	Fire wall Construction.	BSPTCL
285	MAIN BAY OF 125MVAR B/R-I (BAY NO.415) AT NEW PURNEA	22-05-2017	10:00	24-05-2017	18:00	OCB	ER - I	41552CB Overhauling	
286	400KV BSF-1 AT MUZ	22-05-2017	08:00	24-05-2017	18:00	OCB	ER - I	OVERHAULING OF DRIVE MACHANISM OF CGL BREAKER	
287	400 KV Talcher-Meramundali & Talcher-Angul Line (Both lines together)	22-05-2017	08:00	27-05-2017	18:00	OCB	ER-II/Odisha/Angul TLC	Stringing of the newly constucted diverted portion of the line within the GMR plant premises to prevent tripping of the subject line due to dust and moisture depec	GRIDCO
288	220 KV BUS-1 AT MUZ	22-05-2017	09:00	23-05-2017	18:00	ODB	ER - I	EXTENSION OF GIS BAY	BSPTCL
289	315MVA ICT # 1 & 400kV Barh-Kahal Line 1	22-05-2017	09:30	27-05-2017	18:00	OCB	BARH	Annual testing of Bay equipments, ICT #1 & Relay	
290	400KV Rourkela-SEL#2 Main Bay at Rourkela (Bay No.- 426)	22-05-2017	09:00	22-05-2017	18:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
291	220kV D/C Malda-Dalkhola TL	23-05-2017	08:00	26-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work, One ckt S/D shall be taken, other ckt shall remain in service	
292	400kV NSLG-Purnea Ckt-2	23-05-2017	07:00	25-05-2017	17:00	ODB	ER-II	Insulator replacement in crossings	NLDC
293	400 KV TIE BAY OF BINAGURI-KISHANGANJ-II	23-05-2017	09:00	26-05-2017	17:00	OCB	ER-II	FOR CB OVERHAULING. NO POWER INTERRUPTION. ELEMENT WILL BE CHARGED THROUGH OTHER BAY	
294	221 KV DALKHOLA-KISHANGANJ-II	23-05-2017	09:00	23-05-2017	16:00	ODB	ER-II	FOR NTAMC ADAPTATION WORK OF ISOLATORS.	
295	132 kv Ara- Ara (BSPTCL)	23-05-2017	07:00	23-05-2017	13:00	ODB	ER - I	AMP	BSPTCL
296	125 MVAR BUS REACTOR at Indravati	23-05-2017	09:00	23-05-2017	16:00	OCB	ER-II/Odisha/Indravati	For carrying out AMP.	NLDC
297	A/R Non-Auto optaion in 400 KV Sundergarh-raigarh-II	23-05-2017	08:00	31-05-2017	17:00	ODB	ER-II/Odisha/Sundergarh TLM	During PID Testing A/R relay to be kept as Non-automode	NLDC
298	400 KV Kahalgaon Lakhisarai Line-1	24-05-2017	09:30	24-05-2017	17:30	ODB	KAHALGAON	PM works & relay testing	
299	400KV SEL#2 - 125MVAR B/R Tie Bay at Rourkela (Ba 427)	24-05-2017	09:00	24-05-2017	18:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
300	220 KV SIDE OF 160 MVA ICT-I, BAY-209 AT BARIPADA	24-05-2017	09:00	27-05-2017	18:00	OCB	ER-II/Odisha/Baripada	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. FOR OVERHAULING OF 220 KV CGL CB OPERATING MECHANISM	GRIDCO

301	400kV Malda-New Purnea TL-I (ONE CKT AT A TIME)	26-05-2017	08:00	28-05-2017	17:00	ODB	ER-II	Insulator change due to damage by miscreants	NLDC
302	400kV Malda-New Purnea TL-II (ONE CKT AT A TIME)	26-05-2017	08:00	28-05-2017	17:00	ODB	ER-II	Insulator change due to damage by miscreants	NLDC
303	400KV BSF-Banka-2 line	25-05-2017	10:00	25-05-2017	14:00	ODB	ER - I	Rectification work in newly installed OPGW	
304	220 KV DALKHOLA-PURNEA#1	25-05-2017	09:00	25-05-2017	17:00	ODB	ER - I	FOR STRINGING OF NEW 132 KV KISHANGANJ-BARSOI D/C TL BY BSPTCL	
305	220 KV DALKHOLA-PURNEA#2	25-05-2017	09:00	25-05-2017	17:00	ODB	ER - I	FOR STRINGING OF NEW 132 KV KISHANGANJ-BARSOI D/C TL BY BSPTCL	
306	405 (Tie Durgapur - Mejia) AT JSR	25-05-2017	09:00	31-05-2017	17:00	OCB	ER - I	Tie 40552 CB Replacement work	
307	400 KV MAIN BAY OF BINAGURI-BONGAIGAON-4	26-05-2017	09:00	28-05-2017	17:00	OCB	ER-II	FOR CB OVERHAULING. NO POWER INTERRUPTION. ELEMENT WILL BE CHARGED THROUGH OTHER BAY.	
308	220KV Bus Coupler Bay at Rourkela (Bay No.- 202)	26-05-2017	09:00	26-05-2017	18:00	ODB	ER-2/Odisha/ROURKELA	AMP Work.	
309	220kV D/C Siliguri-Kishanganj TL	27-05-2017	08:00	29-05-2017	17:00	ODB	ER-II	Porcelain Insulator replacement work, One ckt S/D shall be taken, other ckt shall remain in service	
310	80 MVAR Bus Reactor AT LKR	27-05-2017	08:00	30-05-2017	18:00	ODB	ER - I	Fire wall Construction.	
311	400 KV BSF - Varanasi Ckt. I	27-05-2017	09:00	27-05-2017	18:00	ODB	ER - I	FOR TL Maintenance works	NLDC
312	400kV New Purnea -New Siliguri I	28-05-2017	08:00	30-05-2017	17:00	ODB	ER-II	Insulator change due to damage by miscreants	
313	400kV New Purnea -New Siliguri II	28-05-2017	08:00	30-05-2017	17:00	ODB	ER-II	Insulator change due to damage by miscreants	
314	400 KV TIE BAY OF BINAGURI-BONGAIGAON-4	28-05-2017	09:00	30-05-2017	17:00	OCB	ER-II	FOR CB OVERHAULING. NO POWER INTERRUPTION. ELEMENT WILL BE CHARGED THROUGH OTHER BAY.	
315	400KV KEONJHAR LINE MAIN BAY (401) AT BARIPADA	28-05-2017	09:00	02-06-2017	18:00	OCB	ER-II/Odisha/Baripada	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TIE BAY. SF6 GAS LEAKAGE RECTIFICATION WORK IN 40152CB	
316	400 KV KEONJHAR LINE AT BARIPADA	29-05-2017	09:00	31-05-2017	18:00	ODB	ER-II/Odisha/Baripada	MAIN 2 RELAY RETROFICATION WORK	
317	220KV Rourkela- Tarkera#1	29-05-2017	10:00	29-05-2017	12:00	ODB	ER-2/Odisha/ROURKELA	Jumper Tightening.	GRIDCO
318	500 MVA ICT-I & 315 MVA ICT-II AT MAITHON	30-05-2017	07:00	31-05-2017	12:00	OCB	ER-II	FOR CONNECTING 2ND 500 MVA ICT IN BAY OF EXISTING 315 MVA ICT & DISMANTLING OF ERS	DVC
319	400KV BSF-Banka-1 line	30-05-2017	10:00	30-05-2017	14:00	ODB	ER - I	Line bay AMP	
320	220KV ICT#1 Incomer Bay at Rourkela (Bay No.- 211)	31-05-2017	10:00	31-05-2017	12:00	ODB	ER-2/Odisha/ROURKELA	Jumper Tightening.	
321	220 KV SIDE OF 160 MVA ICT-II, BAY-210 AT BARIPADA	01-06-2017	09:00	04-06-2017	18:00	ODB	ER-II/Odisha/Baripada	NO OUTAGE LINE WILL REMAIN IN SERVICE THROUGH TBC BAY. AMP OF BAY	GRIDCO
322	400/220 KV 500 MVA ICT#3 AT BARIPADA	06-06-2017	09:00	06-06-2017	18:00	ODB	ER-II/Odisha/Baripada	COMMISSIONING OF CSD WITH ONLINE OPERATION	GRIDCO
323	400/220 KV 315 MVA ICT#1 MAIN BAY (403) AT BARIPADA	07-06-2017	09:00	07-06-2017	18:00	ODB	ER-II/Odisha/Baripada	NO OUTAGE ICT WILL REMAIN IN SERVICE THROUGH TIE BAY. AMP OF BAY	
324	400/220 KV 500 MVA ICT#3 AT BARIPADA	08-06-2017	09:00	08-06-2017	18:00	ODB	ER-II/Odisha/Baripada	CALLIBRATION OF OTI & WTI	GRIDCO
325	125MVAR REACTOR AT BARIPADA	09-06-2017	09:00	10-06-2017	18:00	ODB	ER-II/Odisha/Baripada	REPLACEMENT OF RADIATOR	
	SHUTDOWN PROPOSED BELOW BY OGPTL (STERLITE) IS APPROVED IN ERPC OCC FORUM. THE SAME NEEDS TO BE APPROVED IN WRPC FORUM								
1	765KV D/C Sundargarh-Korba Pooling station CKT 1&2	20-05-2017	07:00	21-05-2017	17:00	ODB	OGPTL(Strelite)	for Overhead Stringing of U/C 400KV D/C OPGC- Sundargarh Transmission line(of OGPTL) at OGPTL Location numbers AP 5/0- AP6/0(PGCIL tower Nos: 4-5)	NLDC
2	400KV D/C Rourkela-Raigarh CKT1&2	27-05-2017	07:00	28-05-2017	17:00	ODB	OGPTL(Strelite)	for Overhead Stringing of U/C 400KV D/C OPGC- Sundargarh Transmission line(of OGPTL) at OGPTL Location numbers AP 23/0- AP24/0(PGCIL tower Nos: 797-798)	NLDC
3	400KV D/C Rourkela-Raigarh CKT-III&CKT-IV	02-05-2017	07:00	03-05-2017	17:00	ODB	OGPTL(Strelite)	for Overhead Stringing of U/C 400KV D/C OPGC- Sundargarh Transmission line(of OGPTL) at OGPTL Location numbers AP 20/0- AP21/0(PGCIL tower Nos: 346-347)	NLDC
4	400 KV D/C Kanepalli(Sundargarh)-IBEUL CKT-I&II	08-05-2017	07:00	19-05-2017	17:00	ODB	OGPTL(Strelite)	To Keep AR in OFF Mode, for HOTLINE Overhead Stringing of U/C 400KV D/C OPGC- Sundargarh Transmission line(of OGPTL) at OGPTL Location numbers AP 4/0- AP 5/0(INDBARAT tower Nos: 04-05)	
5	400 KV D/C Kanepalli(Sundargarh)-IBEUL CKT-I&II	22-05-2017	07:00	05-06-2017	17:00	ODB	OGPTL(Strelite)	To Keep AR in OFF Mode, for HOTLINE Overhead Stringing of U/C 400KV D/C OPGC- Sundargarh Transmission line(of OGPTL) at OGPTL Location numbers AP 4/0- AP 5/0(INDBARAT tower Nos: 41-2)	NLDC

Outages proposed in other RPCs requiring ERPC approval

SI No	outages proposed in	Name of Requesting Agency	Name of Elements	From		To		Basis	Reason
				Date	Time	Date	Time		
1	NERPC	Powergrid	220 kV Alipurduar-Salakati ckt 2	02-May-17	10:00	02-May-17	12:00	Daily	to arrest oil leakage in R-Phase CVT
2	WRPC	Powergrid	400KV D/C Rourkela-Raigarh CKT-III&CKT-IV	02-May-17	06:00	03-May-17	16:00	Daily	for Overhead Stringing of U/C 765KV D/C Raipur- Sundargarh Transmission line(of OGPTL) at OGPTL Location numbers AP 20/0- AP 21/0(PGCIL tower Nos: 346-347)
3	WRPC	Powergrid	765kV D'JAIGARH-RANCHI II	17-May-17	06:00	17-May-17	15:00	Daily	Non auto mode of Line - for replacement of broken insulator in Ranchi # I D/C Portion i.e. Tower No. 12
4	WRPC	Powergrid	765kV D'JAIGARH-RANCHI I	18-May-17	06:00	19-May-17	15:00	Continuous	Replacement of Al.tube inplace of Quad Bull conductor for line equipment connection
5	WRPC	Powergrid	400kV RANCHI-SIPAT I & II	24-May-17	06:00	29-May-17	15:00	continuous	For attending rectification for Bend Leg at Tower 664
6	WRPC	Powergrid	400KV D/C Sipat-Ranchi	25-May-17	08:00	25-May-17	19:00	Daily	Power line crossing of 400KV D/C (Sipat-Rachi) Line at Tower No. 101 & 102 by 765 KV S/C Champa - Dharmjaygarh Line at Loc. No. AP 15/0-AP16/0
7	WRPC	OGPTL	400KV D/C Rourkela-Raigarh CKT1&2	29-May-17	06:00	30-May-17	16:00	Daily	for Overhead Stringing of U/C 400KV D/C OPGC- Sundargarh Transmission line(of OGPTL) at OGPTL Location numbers AP 23/0- AP24/0(PGCIL tower Nos: 797-798)
8	WRPC	Powergrid	765kV D'JAIGARH- JHARSUGUDA I	30-May-17	06:00	31-May-17	15:00	Continuous	Replacement of Al.tube inplace of Quad Bull conductor for line equipment connection
9	SRPC	Powergrid	Gajuwaka-Vemagiri PG GIS - 1	05-May-17	07:00	05-May-17	18:00	Daily	System Improvement Works: RTV coating
10	SRPC	Powergrid	CWC36 Q50(South Side Filter of Pole-1) at gajuwaka	22-Apr-17	09:00	22-Apr-17	18:00	Daily	System Improvement Works: RTV coating
11	SRPC	Powergrid	Jeypore-Gajuwaka Liine-1 L/R at Gajuwaka	27-Apr-17	09:00	27-Apr-17	18:00	Daily	System Improvement Works: RTV coating
12	SRPC	Powergrid	East Bus - 1 at Gajuwaka HVDC	03-May-17	07:00	03-May-17	18:00	Daily	Replacemnet of Porcelain insulators with CLR Polymer insulators
13	NRPC	Powergrid	765 Fathepur-Gaya Line	01-May-17	08:00	02-May-17	18:00	Continuous	Protection strengthen tower suspension (S/D required of Varanasi-Fatehpur section)

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)

POWER GRID CORPORATION OF INDIA LIMITED
(A Government of India Enterprise)



प्लॉट नं.- 4, यूनिट - 41, निलाद्री विहार, चंद्रशेखरपुर - 751021,
दुरभाष : 0674 - 2720754
Plot. No. 4, Unit - 41, Niladri Vihar, Chandrasekharpur,
Bhubaneswar - 751021, Tel: 0674 - 2720754

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

Date: 18.04.2017

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 130th 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 May'2017 as follows:

Sl. No.	Name of the Line	Date	Time	Date	Time	Remarks
1	400 kV Rengali-Indravati S/C Line	16.05.2017	07:00	19.05.2017	18:00	ODB
2	400KV Rourkela-Talcher#2	01.05.2017	09:00	03.05.2017	18:00	ODB
3	400KV Sundargarh_Raigarh#1	15.05.2017	08:00	17.05.2017	18:00	ODB
4	400KV Rourkela-SEL#2	18.05.2017	08:00	18.05.2017	18:00	ODB
5	400KV Rourkela-Sundargarh#2	19.05.2017	08:00	19.05.2017	18:00	ODB

It is requested that shutdown proposed for the said lines in the 132nd OCC may please be approved & deemed availability for the shutdown may please be granted.

Regards.

(Signature)
18/4/17

(A.K.Behera)
Dy. General Manager(AM),
POWERGRID, Odisha Projects

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

पावर सिस्टम ऑपरेशन कॉरपोरेशन लिमिटेड
(भारत सरकार का उद्यम)
POWER SYSTEM OPERATION CORPORATION LIMITED
 (A Govt. of India Enterprise)
 CIN: U40105DL2009GOI188682



पूर्वी क्षेत्रीय भार प्रेषण केन्द्र, 14, गोल्फ क्लब रोड, टॉलीगंज, कोलकाता 700033
EASTERN REGIONAL LOAD DESPATCH CENTRE, 14, Golf Club Road, Tollygunge, Kolkata 700033
 Tel / दूरभाष: 033 2423 5867/5875 • Fax / फैक्स: 033 2423 5809/5704/5029 • E-mail / ई-मेल: erldc@posoco.in

ERLDC/KPI/2017 / 400

Date: 21-04-17

To,

Member Secretary
 Eastern Regional Power Committee
 14, Golf Club Road, Kolkata – 33

Sub: Reporting of voltage deviation indices (VDI) for select S/Stns in ER, for March 2017

Dear Sir,

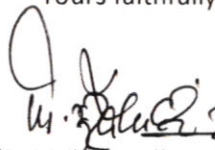
For complying with regulation 29(6) of CERC (Fees & Charges of Regional Load Despatch Centres and related matters) Regulations 2015, RLDCs / NLDC, are required to compute the Key Performance Indicators on annual basis, for the previous year ending on 31st March.

Further, as per MOU signed between POSOCO and MOP, RLDCs have to every month supplement the voltage deviation index (VDI) reported among other parameters by NLDC to CERC/RPCs, by computing the index for additional buses within the region and furnishing the same to RPC every month, as part of regular OCC agenda.

Enclosed please find VDI for select 400kV buses of Eastern Region, computed for the month of March, 2017, for deliberation in 132nd OOC meeting of ERPC.

Thanking you,

Yours faithfully,


 (P. Mukhopadhyay)
 General Manager

Encl: As stated

VDI of select 400 and 765KV S/S in Eastern Region-March 2017

Ranchi New			Jamshedpur			Muzaffarpur		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
800.10	766.70	0.01	430.99	408.95	68.40	424.31	383.81	0.40

Bihar Sariff			Binaguri			Jeerat		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
423.02	393.71	0.74	426.86	395.57	14.57	426.54	372.37	9.74

Rourkela			Jeypore			Koderma		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
416.69	400.51	0.00	420.67	381.51	0.01	427.00	392.00	6.16

Maithon			Teesta			Rangpo		
MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)	MAX	MIN	VDI (% of Time)
419.03	400.74	0.00	423.48	367.83	1.12	421.10	391.57	0.03