



Minutes  
of  
**120<sup>th</sup> OCC Meeting**

**Date: 11.05.2016**  
**Eastern Regional Power Committee**  
**14, Golf Club Road, Tollygunge**  
**Kolkata: 700 033**

## **Eastern Regional Power Committee**

### **Minutes of 120<sup>th</sup> OCC Meeting held on 28<sup>th</sup> April, 2016 at ERPC, Kolkata**

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

#### **Item no. 1: Confirmation of minutes of 119<sup>th</sup> OCC meeting of ERPC held on 18.03.2016**

The minutes of 119<sup>th</sup> OCC meeting were uploaded in ERPC website and circulated vide letter dated 01.04.2016 to all the constituents.

The following new elements, as informed by JUSNL, need to be included under Item No. B.1:

12. 132 kV Chandil-Tamar line (47 km) was charged at 19:37 Hrs & 132 kV Main bus was charged at 19:47 Hrs on 10.02.2016.
13. 132 kV Tamar-Hatia-I line was idle charged from Tamar end at 19:47 Hrs on 25.02.2016.
14. 132/33 kV, 50 MVA Transformer-1 at Tamar (JUSNL) was charged on 27.02.2016 at 22:12 Hrs and loaded with SST load at 18:10 Hrs on 29.02.2016.
15. 132/33 kV, 50 MVA Transformer-2 at Tamar (JUSNL) was charged at 18:20 Hrs on 29.02.2016.

Also, WBPDCCL vide mail dated 06.04.16 requested for amendment in status of KTPS under Item No. C.3 (i) which is as given below:

KOLAGHAT	6	210	STATOR EARTH	On Bus
KOLAGHAT	4	210	BOILER TUBE	On Bus

With the above amendments under Item No. B.1 & C.3(i), members may confirmed the minutes of 119<sup>th</sup> OCC Meeting.

Members may confirm the minutes.

#### **Deliberation in the meeting**

*With the above amendments under Item No. B.1 and C.3(i), members confirmed the minutes of 119<sup>th</sup> OCC Meeting.*

## **PART A**

### **(List of Items to be discussed for which the details are given at “Part B”)**

- B.1. Commissioning of new transmission elements in Eastern Region
- B.2. Indian Electricity Grid Code (Fourth Amendment) Regulations, 2016
- B.3. Realization of Revenue loss by OPTCL due to shut down of EHV lines for diversion work for the Railway Line and other beneficiaries
- B.4. Enhancement of schedule of Kahalgaon STPS, NTPC—NTPC
- B.5. Scheduling of KBUNL, MTPS Stage-II (2x195 MW) -- NTPC
- B.6. Implementation of Automatic Demand Management Scheme (ADMS)
- B.7. Charging of 220 KV Raigarh (PGCIL)- Budhipadar line
- B.8. Status of UFRs healthiness installed in Eastern Region
- B.9. Healthiness of SPS existing in Eastern Region
- B.10. Status of Islanding Schemes of Eastern Region
- B.11. Restoration of PLCC system installed in Eastern Region

- B.12. Status update of previous decisions/follow up actions
- B.13. Third Party Protection Audit
- B.14. Inspection of UFR relays
- B.15. Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN
- B.16. Certification through BIS as per IS 18001:2007 to all generating/ transmission units
- B.17. Energy Generation data management from Renewable Energy Sources
- B.18. Compilation of data for meeting Renewable Energy targets of 175 GW by 2020 -- Reference from MNRE
- B.19. Sub-committee on "Integration of Renewable Energy Sources".
- B.20. Data of Peak Demand – Submission of hourly power cut data
- B.21. Recovery Procedures of ER Constituents – ERLDC
- B.22. Nodal coordinators for web based scheduling software
- B.23. Dynamic data of Generator Models required in PSSE for Simulations
- B.24. Availability of data of real time power flow of feeders covered under Under frequency Load shedding scheme (UFLS)
- B.25. Providing of Expected generation schedule and incorporation of variation in generation by Hydro stations in Bhutan to match with the demand ramp up and peaking requirements in the Indian Grid
- B.26. Long outage of important transmission lines
- B.27. Discrepancy related to input to PMU voltage measurand
- B.28. Transfer capability determination by the states -- Agenda by NPC
- B.29. Reasons for demand –supply gap and its variation -- Agenda by NPC
- B.30. Update on status of telemetry
- B.31. Status of Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipment.
- B.32. Status of Emergency Restoration System (ERS Towers) for Eastern Region constituents
- B.33. Pollution mapping for Eastern Region
- B.34. Erroneous recording of data by Interface Meters
- B.35. Non Receipt of SEM data from Various Locations
- B.36. Non-payment of Deviation charges by JUVNL& BSPHCL
- B.37. Non-payment of Reactive energy charges by WBSETCL/WBSEDCL
- B.38. Outstanding payment towards construction of bay at Biharsharif (PG) sub-station for 400kV Biharsharif-Tenughat line
- B.39. Mock Black start exercises in Eastern Region
- B.40. Restricted Governor Mode of Operation
- B.41. Reactive Power performance of Generators and GT tap position optimization

## **PART B: ITEMS FOR DISCUSSION**

**(Items to be discussed as listed in "Part A")**

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

In 118<sup>th</sup> 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, 2016** as informed by ERLDC, DVC, NHPC is given below:

1. 220kV Dalkhola-Siliguri-I & II LILoed at Kishanganj at 22:22hrs and 23:02hrs of 01/03/16 respectively.
2. 500MVA ICT at Kishanganj first time charged at 23:20hrs of 01/03/16 from LV side.
3. 765kV Gaya-Varanasi first time charged at 11:28hrs of 10/03/16 along with 240MVA line reactor.
4. LILo of one circuit of 400kV Teesta-III-Kishanganj-D/C at location no 85 (length 10.89km) at Rangpo GIS substation has been done via bays 404 and 408 at 11:43hrs (404bay) and 11:44hrs (408bay) of 10/03/16.
5. 400kV Patna-Kishanganj-II first time charged with 80MVA line reactor at Kishanganj at 23:42hrs of 14/03/16.
6. 125MVA bus reactor at Kishanganj charged for the first time at 23:59Hrs of 14/03/16.
7. 400kV Patna-Kishanganj-I first time charged along with 80MVA line reactor at Kishanganj at 00:13hrs of 15/03/16.
8. 400kV Binaguri-Kishanganj-I and 400kV Purnea-Kishanganj-I (LILo of 400kV Binaguri-Purnea-III at Kishanganj) first time charged at 19:40hrs and 20:05hrs of 16/03/16 respectively.
9. 400kV Binaguri-Kishanganj-II and 400kV Purnea-Kishanganj-II (LILo of 400kV Binaguri-Purnea-IV at Kishanganj) first time charged at 20:55hrs and 21:13hrs of 16/03/16 respectively.
10. Nabinagar (BRBCL) Unit-1 (250MW) first time synchronised at 18:15hrs of 20/03/16.
11. 400kV Biharsariff-Varanasi-II with 80MVA L/R at Biharsariff first time charged at 23:45hrs of 29/03/16.
12. 400kV Biharsariff-Varanasi-I first time charged at 00:43hrs of 30/03/16.
13. 400kV FSTPP-Malda-I & II first time charged after reconductoring works with Twin HTLS at 18:25hrs and 18:18hrs of 30/03/16.
14. 500MVA ICT at Sasaram first time charged at 19:19hrs of 30/03/16.
15. 160MVA ICT-1 at Purnea (PG) charged for the first time at 13:22hrs of 31/03/16.
16. Raghunathpur Unit-II (600 MW) declared COD w.e.f. 00:00hrs of 31/03/16.
17. Raghunathpur Unit-I (600 MW) declared COD w.e.f. 22:00hrs of 31/03/16.
18. Teesta Low Dam HE Project, Stage-IV, Unit #2 (40 MW) declared COD w.e.f. 00:00 Hrs of 31/03/16.

Other constituents may update (if any).

### **Deliberation in the meeting**

*Members updated and confirmed the list of new transmission elements as above.*

### **Item No. B.2: Indian Electricity Grid Code (Fourth Amendment) Regulations, 2016**

CERC has notified the fourth amendment of Indian Electricity Grid Code Regulations, 2010 on 6<sup>th</sup> April, 2016. The order is also made available at ERPC website ([www.erpc.gov.in](http://www.erpc.gov.in)).

Members may note for compliance.

### **Deliberation in the meeting**

*ERLDC presented in brief the IEGC fourth amendment regulations. It was informed that this amendment is exclusively meant for COD and technical minimum of thermal generators. The key aspects of the regulation was discussed in detail and OCC advised all the constituents to follow the regulation. Generators felt special deliberations under ERPC are very much needed for effective and timely implementation. OCC advised secretariat to convene special meetings on the issue.*

*Members however noted for compliance.*

**Item No. B.3: Realization of Revenue loss by OPTCL due to shut down of EHV lines for diversion work for the Railway Line and other beneficiaries.**

OPTCL vide letter dated 17.03.2016 intimated that OPTCL has devised a formula with due approval by its Board of Directors and started claiming shut down charges due to shut down of EHV lines for diversion work for the Railway Line and other beneficiaries (Copy of the letter is enclosed at **Annexure- B.3**). Thus, the same may be claimed by other organization so that this uniform policy can be adopted by all Transmission Utilities.

Members may opine.

**Deliberation in the meeting**

*OPTCL informed that they are yet to start the implementation of the said mechanism.*

*Other constituents informed that they are not claiming any shutdown charges from other utilities however, they need to devise a mechanism.*

*OCC requested all the constituents to communicate their views.*

**Item No. B.4: Enhancement of schedule of Kahalgaon STPS, NTPC-- NTPC.**

NTPC vide letter dated 14.03.2016 informed that NTPC, Kahalgaon has been running its units smoothly following the grid discipline. However, the full potential of the plant is not being consistently utilized as reflected in the low generation schedule. The copy of the letter is placed at **Annexure-B.4**.

Members may discuss.

**Deliberation in the meeting**

*OCC clarified that enhancement of schedule is possible, if beneficiaries place the requisition.*

*NTPC requested all the beneficiaries to place the schedule to utilize the full potential of the plant (NTPC, Kahalgaon).*

**Item No. B.5: Scheduling of KBUNL, MTPS Stage-II (2x195 MW) -- NTPC.**

Kanti Bijlee Utpadan Nigam Limited (KBUNL is a subsidiary of NTPC Ltd., with Bihar State Electricity Board (presently Bihar State Power Holding Company Limited) as a minority partner (35% of equity share). Since, NTPC Ltd., (a Govt. of India Company), has 65% equity share in JV company, the KBUNL is a Govt. of India Company within the meaning of Section 617 of the Company Act, 1956.

MTPS Stage-I (2x110MW) of KBUNL is already in commercial operation with 100% power allocated to Bihar.

MTPS Stage-II (2x195MW) of KBUNL is Inter State Generating Station (ISGS) with the share allocation as Bihar -67.7%, DVC-2.6%, Jharkhand -3.1%, Odisha-7.7 %, West Bengal-8.7%, Sikkim-0.5%, Unallocated-9.7%.

Issues related to Scheduling of KBUNL, MTPS Stage-II has already been discussed in 107<sup>th</sup> OCC, 108<sup>th</sup> OCC and 109<sup>th</sup> OCC meeting of ERPC. All the relevant requisitioned documents are already submitted to ERPC. As per IEGC clause 6.4.2.a, Scheduling of MTPS Stage-II shall be coordinated by ERLDC but the scheduling control area of MTPS Stage-II is yet to be finalized.

Members may discuss.

### **Deliberation in the meeting**

*OCC decided to discuss the issue in a separate meeting.*

#### **Item No. B.6: Implementation of Automatic Demand Management Scheme (ADMS)**

OPTCL vide mail dated 24.02.2016 pointed that Hon'ble CERC vide their order dated 31.12.2015 passed in Suo-motu Petition No.- 5/SM/2014 in the matter of Non-compliance of Regulation 5.4.2 (d) of IEGC directed all Respondents (SLDCs) for implementation of ADMS in their respective control area. CERC have allowed dead line till 30.06.2016 to the Respondent for implementation of ADMS. Failing which they will be liable for action under Section 142 of the Act.

In 119<sup>th</sup> OCC, advised all the SLDCs to implement the ADMS in their respective control area. by 30.06.2016.

Subsequently, on request from DVC & WBSEDCL, ERPC vide letter dated 05.04.2016 requested Powergrid to take up the issue for inclusion of DMS/ADMS application software in the new SCADA system under new ULDC project which would be of great help for the ER constituents in implementing the ADMS system in their respective control area and subsequent compliance of CERC directive (Copy of letter is placed at **Annexure-B.6**).

Powergrid may update. Members may discuss.

### **Deliberation in the meeting**

*Powergrid informed that it is possible to implement in new SCADA system.*

*After detailed deliberation, OCC referred the issue to 7<sup>th</sup> PRM meeting for further course of action.*

#### **Item No. B.7: Charging of 220 KV Raigarh (PGCIL)- Budhipadar line**

The Issue was discussed in 117<sup>th</sup> OCC meeting followed by discussion in 32<sup>nd</sup> TCC.

It was informed that in 32<sup>nd</sup> TCC Meeting, OPTCL informed that 60 km line belongs to them and some details such as protection settings, meter and communication details are needed to fill B1 to B5 formats.

TCC advised OPTCL to coordinate with Powergrid and submit the formats and advised Powergrid to provide the relevant information to OPTCL.

ERPC Secretariat informed that they will interact with WRPC/WRLDC for charging the line.

Subsequently, ERPC has taken up the issue with WRPC, OPTCL & Powergrid to charge the above line.

WRPC vide letter dated 08.03.2016 has requested PGCIL and CSPTCL to interact with OPTCL representatives for charging the line.

In 119<sup>th</sup> OCC, it was informed that the section of line which was LILOed at Raigarh (PGCIL) belongs to CSPTCL so coordination of CSPTCL is very much required for charging of this line.

After detailed deliberation OCC requested ERPC to convene a meeting with CSPTCL, OPTCL, PGCIL, WRPC/WRLDC and ERPC/ERLDC to resolve the issue.

MS, ERPC had taken up the matter with WRPC. WRPC requested to convene the meeting along with NPC meeting held on 8.4.16. But since it was not possible the next date tentatively fixed is in the first week of May.

Powergrid/ERLDC/OPTCL may update.

#### **Deliberation in the meeting**

*MS, ERPC informed that in interaction with WRPC a meeting will be convened on this issue tentatively in 3<sup>rd</sup> week of May, 2016.*

#### **Item No. B.8: Status of UFRs healthiness installed in Eastern Region**

UFR Healthiness Certification for the month of February, 2016 has been received from WBSETCL, CESC and OPTCL only.

However, in 117<sup>th</sup> OCC it was informed that the following UFRs of DVC and JUSNL were not in service:

SI No	Name of Utility	Name of sub-station	Feeder Details	CD (MVA)	In-service	Results/Remarks
1	DVC	Hazaribagh	JSEB Hazaribagh	50	No	Commissioning taken up.
2	JUSNL	Adityapur	33 kV Adityapur-I		No	Not in service
3			33 kV Adityapur-II		No	Not in service

In 119<sup>th</sup> OCC, DVC informed that installation of new UFR at Hazaribagh is in progress.

JUSNL informed that purchase in process for UFRs of 33 kV Adityapur-I & II

DVC and JUSNL may update.

DVC, JUSNL and BSPTCL may submit UFRs healthiness certificate.

#### **Deliberation in the meeting**

*All the constituents have submitted UFRs healthiness certificate.*

*DVC and JUSNL updated that the UFR for Hazaribagh, 33 kV Adityapur-I&II are in service.*

*WBSETCL informed that some of the UFRs feeders have been interchanged for implementation of Bandel Islanding scheme. The list of those feeders is enclosed at **Annexure-B8**.*

#### **Item No. B.9: Healthiness of SPS existing in Eastern Region**

NTPC (TSTPS), JITPL, GMR, CESC, Powergrid-Odisha and Chuzachen have submitted the healthiness certificate for the month of March, 2016.

Vedanta & Powergrid ER-II may submit the healthiness certificate for March, 2016.

#### **Deliberation in the meeting**

*Healthiness certificate for March, 2016 have been received from all the respective constituents except Vedanta.*

*OCC advised Vedanta to send the healthiness certificate immediately.*

*IPPs informed that sometimes they were paying huge DSM charges due to SPS operation. As they are providing generation relief during SPS operation for the security of grid, IPPs requested for considering the actual generation as schedule to get exemption from payment of DSM charges during SPS operation.*

*ERLDC informed that SPS operation could not be treated as grid disturbance.*

*OCC felt that SPS is a Grid protection scheme and for safe secure operation of the grid all participants of the Grid have to contribute. Therefore for operation of SPS which is a rare feature claiming exemption from DSM by IPPs may not be entertained by the present CERC regulation. However OCC advised IPPs to approach CERC for specific instruction in this regard.*

## **Item No. B.10: Status of Islanding Schemes of Eastern Region**

### **B.10.1: 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, WBPDL
3. Tata Power Islanding Scheme, Haldia
4. Chandrapura TPS Islanding Scheme, DVC

In 108<sup>th</sup> 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, 2016 has been received from BkTPS, Tata Power, CESC and CTPS, DVC.

Members may note.

### **Deliberation in the meeting**

*Members noted.*

### **B.10.2: FSTPS Islanding Scheme, NTPC**

In 118<sup>th</sup> OCC, NTPC informed that their part is ready for implementation.

Powergrid informed that the battery charger has been delivered and expected to complete the work by March, 2016.

In 119<sup>th</sup> OCC, Powergrid informed that the battery charger has been delivered to site and for commissioning with deputation of service engineer JUSNL has to ensure the supply of materials which are in the scope of JUSNL.

OCC advised JUSNL to coordinate with Powergrid and arrange the required materials/works which are in the scope of JUSNL. JUSNL agreed.

NTPC/Powergrid may update.

### **Deliberation in the meeting**

*JUSNL informed that the required materials/works have been arranged, Powergrid may start the commissioning work.*

*OCC advised Powergrid to complete the work at the earliest.*



### **B.10.3: Bandel Islanding Scheme, WBPDC**

The islanding scheme has been placed before 31<sup>st</sup> TCC Meeting for further concurrence and in 31<sup>st</sup> TCC/ERPC meetings, members agreed and advised WBPDC to go ahead with the implementation of islanding scheme.

On the advice of subsequent OCCs, WBSETCL gave a detailed presentation of the islanding scheme and explained that additional load is included for winter season (December to February months) to improve the reliability of the islanding scheme.

WBSETCL was appreciated for detailed analysis and WBPDC was advised to go ahead with the implementation.

In 119<sup>th</sup> OCC, WBPDC informed that the islanding scheme will be implemented by December, 2016.

WBSETCL/WBPDC may update the latest status.

#### **Deliberation in the meeting**

*WBPDC informed that the islanding scheme will be implemented by December, 2016.*

### **Item No. B.11: Restoration of PLCC system of important lines**

In 32<sup>nd</sup> TCC/ERPC, only JUSNL has shown their interest to implement the PLCC system through Powergrid.

JUSNL vide letter dated 01.04.2016 intimated that the restoration work of PLCC link between 220 kV Hatia-II-PGCIL (ckt-I & II) and Chandil –PGCIL (ckt-I) have been completed by JUSNL resources on urgent basis to comply the direction of CERC. Therefore, JUSNL requested Powergrid to waive off their proposal of one time restoration of PLCC with JUSNL system.

Therefore, the proposal of one- time PLCC restoration of important tie-lines by Powergrid is not required by the any of the Eastern Region constituents.

In 119<sup>th</sup> OCC, JUSNL informed that the following:

- a) In 220 KV Chandil –Ramchandrapur line auto-reclosure has been enabled and linked with PLCC panels on 09.03.16.
- b) In 220 KV Chandil –Ranchi line auto-reclosure has been enabled and termination done in PLCC panels (Auto-reclosure will be in service after testing of PLCC scheduled on 22.03.16)
- c) In 220 KV Chandil –Santaldih line auto-reclosure has been enabled and termination done in PLCC panels at Chandil end but due to non-availability of PLCC panels at Santaldih(WBPDC) end the A/R and PLCC scheme could not be activated.
- d) In 220 KV Ramchandrapur-Joda line auto-reclosure has been enabled and termination done in PLCC panels at Ramchandrapur end but due to non-availability of PLCC panels at Joda (OPTCL) end the A/R and PLCC scheme could not be implemented.

Further, it was informed that JUSNL is ready to share their standby PLCC panels (BPL make) with WBPDC (for Snataldih end) and OPTCL (for Joda end) to complete the PLCC schemes of both the above lines.

OCC advised WBPDC and OPTCL to accept the JUSNL offer and implement the PLCC scheme at the earliest for both the 220 kV lines.

WBPDC and OPTCL agreed and nominated their coordinators as follows to complete the work:

- 1) For 220 kV Chandil-Santaldih line:  
Sh. Amar Pal, DGM (Engg.), M.- 8336904021, e-mail: [anpal@wbpdcl.co.in](mailto:anpal@wbpdcl.co.in) & Sh. Jaydeb Bhattacharyya, Sr, Manager(PS), M.- 8336904059, e-mail: [jbhattacharyya@wbpdcl.co.in](mailto:jbhattacharyya@wbpdcl.co.in)
- 2) For 220 kV Ramchandrapur-Joda line:  
Sh. L. Nayak, GM, OPTCL, M.- 943890780, e-mail: [ele.lanayak@optcl.co.in](mailto:ele.lanayak@optcl.co.in)

(ERPC Secretariat has issued a fax message vide no. 138 dated 21.03.2016 to JUSNL for taking up the issue with the above nominated coordinators for restoring the PLCC scheme of both the lines at the earliest.)

Subsequently, JUSNL vide letter dated 13.04.2016 has asked for consent of OPTCL and WBPDCCL for cost estimate details for further needful action.

JUSNL, OPTCL, WBPDCCL may update.

### **Deliberation in the meeting**

*WBPDCCL informed that they are in receipt of the JUSNL letter and the decision of their higher authority will be communicated soon.*

*OPTCL informed that they have some queries regarding the AMC of the PLCC panels as these were purchased in 2006. They will communicate their queries to JUSNL.*

OPTCL vide mail dated 16.03.2016 informed the PLCC communication status of the important links under OPTCL as follows:

1. Jeypore(PG)-Jayanagar (Commn. in OPGW exists)
2. Rourkela(PG)-Tarkera (Commn. in OPGW exists)
3. Rengali(PG)-Rengali S/Y (Proposal for Commn. in OPGW is pending)
4. Indravati(PG)-Indravati(PH) (Proposal for Commn. in OPGW pending)
5. Baripada(PG)-Baripada ( Tendering in Progress for OPGW)
6. Baripada(PG)-Rairangpur (Tendering in Progress for OPGW)

BSPTCL and WBSETCL may place their roadmap for restoration of PLCC for important lines using their own resources.

### **Deliberation in the meeting**

*BSPTCL and WBSETCL agreed to place their roadmap.*

## **Item No. B.12: Concerned members may update the latest status.**

### **B.12.1. Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)**

In 119<sup>th</sup> OCC, IBEUL updated the status as follows:

- All the 125 towers foundations have been completed and 125 have been erected.
- Due to route alignment one tower (i.e. 126<sup>th</sup> tower) has been increased which is under construction.
- Stringing work of 36 km out of 39.74 km line has been completed.
- The bay work at 400 kV Jharsuguda (Kenapalli) S/s has also been completed.
- The line will be commissioned by April/May, 2016.

Ind-Bharath may update the latest status.

### **Deliberation in the meeting**

*IBEUL updated that stringing work of 36.81 km out of 39.74 km transmission line has been completed. It was also informed that declaration of COD of the unit will be also getting delayed.*

#### **B.12.2. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections**

In 31<sup>st</sup> TCC/ERPC followed by 115<sup>th</sup> OCC Vedanta informed that out of 66 tower foundations, 21 have been completed and rest is expected to be completed by December, 2015. Commissioning of line is expected by 15 April, 2016.

32<sup>nd</sup> TCC advised Vedanta to strictly adhere to the schedule.

In 118<sup>th</sup> OCC, advised Vedanta to adhere the decision of 32<sup>nd</sup> TCC/ERPC and complete the line by April, 2016.

In 119<sup>th</sup> OCC, Vedanta informed that 44 out of 66 foundations and installation of six towers have been completed.

Vedanta vide mail dated 15.04.16 submitted the progress report of Vedanta-Jharsuguda 400KV D/C Line as on 15/04/2016 and updated that 44 out of 66 foundations and installation of seven towers have been completed.

Vedanta may update.

### **Deliberation in the meeting**

*Vedanta updated that 45 out of 66 foundations and installation of seven towers have been completed. OCC put doubt on completion of the line by 30<sup>th</sup> April, 2016. OCC referred the issue to 33<sup>rd</sup> TCC.*

#### **B.12.3. Status of construction of Chuzachen bay at Rangpo S/s.**

In 32<sup>nd</sup> TCC, Sikkim informed that the cost estimate from Powergrid was received recently and therefore after studying the same tendering will be done tentatively within a month.

In 118<sup>th</sup> OCC, Sikkim informed that tender would be floated by March, 2016 and work award will be issued by April, 2016.

Sikkim may update.

### **Deliberation in the meeting**

*Sikkim representative was not available for discussion.*

#### **B.12.4. Non-availability of Tie bay of 400kV Sagardighi-Behrampore-II**

The issue was being deliberated in last few OCCs. In 118<sup>th</sup> OCC, WBPDCCL informed that the work has been delayed due to some problem of vendors.

ERLDC informed that 400 kV Sagardighi- Behrampore D/C line is an important link for power transfer to Bangladesh and in case of undesired tripping due to non-availability of tie bay of this line the power transfer to Bangladesh may get affected.

OCC felt that the tie bay is very important for system reliability as power export to Bangladesh is expected to be enhanced to 1000 MW soon.

OCC advised WBPDCCL to commission the tie bay at the earliest. WBPDCCL agreed.

In 119<sup>th</sup> OCC, WBPDCCL informed that a joint meeting was convened with Alstom and BHEL for completion of the work. The work is expected to be completed by March/April, 2016.

WBPDCCL may update.

#### **Deliberation in the meeting**

*WBPDCCL informed that work is in progress.*

#### **B.12.5. Non availability of both line Reactors of 400KV Malda-Purnea D/C**

It has been observed that both the 63MVAR line reactors of 400kV Malda-Purnea D/C at Malda end are presently under outage. It may be noted that no reply has been received i.r.o mails forwarded by ERLDC to Powergrid in this regard. It may also be noted that on 20/11/15 during evening hours, while charging attempt of 400 KV Malda – Purnea –II was being taken from Malda end, 400 KV Malda - Purnea –I tripped on stage –I overvoltage protection.

Considering the necessity of availability of line reactors at Malda end, Powergrid may intimate the details regarding the outage date of the line reactors, their current status and their expected restoration dates.

In 117<sup>th</sup> OCC, Powergrid updated that Reactor-1 is not healthy & problem in winding is suspected. BHEL is taking abnormal time & for winding replacement NIT is under process. Commissioning of this reactor may take another 6 months.

In 119<sup>th</sup> OCC, Powergrid informed that Reactor-2 is ready and will be charged after completion of testing for which one day shutdown has already been applied. Regarding Reactor-1, it was informed that the bid opening date was on 17.03.16.

Powergrid may update.

#### **Deliberation in the meeting**

*Powergrid informed that Reactor-2 has been charged and Reactor-1, will be brought into service by September, 2016.*

#### **B.12.6. Status of Bus Splitting schemes in Eastern Region**

##### **A. Bus Splitting of Powergrid Sub-stations**

In 11<sup>th</sup> SCM held on 20.09.2010 the bus-splitting arrangement with tie line breaker for the following 400kV substations in Eastern Region was agreed to contain the short circuit level below 40kA.

- Maithon
- Durgapur
- Biharshariff
- Kahalgaon

In 118<sup>th</sup> OCC, Powergrid updated the status as follows:

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

OCC advised Powergrid to share the details of bus splitting scheme at Maithon and Durgapur. Powergrid agreed.

ERLDC informed that shutdown will be given for Biharshariff after 400 kV Farakka-Malda D/c line comes into service.

Powergrid may update.

### **Deliberation in the meeting**

*ERLDC informed that shutdown will be given as per prevailing grid conditions.*

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

In 24<sup>th</sup> 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 32<sup>nd</sup> 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 119<sup>th</sup> OCC, NTPC has given the present status as follows:

- 400/132kV Switchyard package - bid opened on 14.03.16. Award by 31.03.2016.
- Site levelling – Site package awarded, expected to be completed by May, 2016.
- Transformer package – tendering under process and will be awarded by April, 2016.

NTPC may update.

### **Deliberation in the meeting**

*NTPC updated that Transformer package will be awarded by May, 2016.*

#### **B.12.7. 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 118<sup>th</sup> OCC, OPTCL updated the completion schedule of inter-connecting system as follows:

Sl. No.	Name of the transmission line	Completion schedule
<b>1.</b>	<b>2x315MVA 400/220kV Bolangir S/s</b>	
a.	LILo of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir S/S	5 out of 14 completed. Dec, 2015 (Severe ROW problem)
b.	LILo of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S	<b>Ready for charging</b>
<b>2.</b>	<b>400/220 kV Keonjhar S/S</b>	
a.	Keonjhar (PG)-Keonjhar (OPTCL) 220 kV D/C line	Work order to be issued by February, 2016
b.	Keonjhar (PG)-Turumunga (OPTCL) 220kV D/C line	Yet to be awarded
<b>3.</b>	<b>400/220kV Pandiabil Grid S/s</b>	
a.	Pratapsasan (OPTCL)-Pandiabil (PG) 220 kV D/C line	It will take 1 year for completion.
b.	LILo of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG)	<b>May, 2016</b>

In 119<sup>th</sup> OCC, OPTCL informed that LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S is ready for charging but the PLCC work is expected to be completed by another one month.

OPTCL requested for charging the line with modified zone-I reach setting at 100% of the line.

OCC felt that OPTCL may charge the line in coordination with Powergrid with 100% reach under zone-1 till the PLCC is commissioned and the zone-1 settings may be resumed as per ERPC protection philosophy after the completion of PLCC system.

OPTCL/Powergrid may update.

### **Deliberation in the meeting**

*OPTCL informed that LILO of one circuit of Atri-Puri (Samangara) 220 kV D/C line at Pandiabil (PG) will be completed by August, 2016.*

*OPTCL has requested Powergrid for charging the LILO of one circuit of Katapalli-Sadeipalli 220 kV D/C line at Bolangir S/S without PLCC system for one month. It was informed that PLCC will be activated within one month.*

*Powergrid agreed and informed that ULDC work will be completed within 2-3 days and the line will be charged by end of April, 2016.*

### **B.12.8. 220 kV inter-connecting lines of BSPTCL with 2x200 MVA, 400/132 kV sub-stations at Lakhisarai & Banka**

In 30<sup>th</sup> TCC, BSPTCL informed that at present they are drawing power from 400/132 kV Lakhisarai S/s through LILO of 132 kV Lakhisarai (BSPTCL)-Jamui S/C at Lakhisarai(PG).

In 112<sup>th</sup> OCC, BSPTCL informed that LILO of 132 kV Lakhisarai (BSPTCL) - Jamui S/C at Lakhisarai(PG) was removed after the charging of 132 kV Lakhisarai (PG)-Lakhisarai (BSPTCL) D/C line which was earlier temporary arrangement for drawing power from 400/132 kV Lakhisarai (PG).

In 118<sup>th</sup> OCC, BSPTCL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
<b>1.</b>	<b>The 2x200 MVA, 400/132 kV Lakhisarai sub-station</b>	
a.	132kV Lakhisarai(PG)-Lakhisarai(BSPTCL)D/C line	Charged
b.	132 kV Lakhisarai-Jamui (BSPTCL) D/C line	Charged on 05.10.2015
<b>2.</b>	<b>2x200 MVA, 400/132 kV Banka sub-station</b>	
a.	LILO of 1 <sup>st</sup> circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG)	Charged.
b.	LILO of 2 <sup>nd</sup> circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG)	<b>Line completed. Materials awaited for completion of bays.</b>
c.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-I	Completed
d.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-II	Completed

In 119<sup>th</sup> OCC, BSPTCL informed that LILO of 2<sup>nd</sup> circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG) is expected to be commissioned by April, 2016.

BSPTCL may update.

### **Deliberation in the meeting**

*BSPTCL informed that bay erection for LILO of 2nd circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG) is started and expected to be commissioned by May, 2016.*

#### **Item No. B.13: Third Party Protection Audit**

##### **1. Status of 1<sup>st</sup> Third Party Protection Audit:**

The compliance status of 1<sup>st</sup> Third Party Protection Audit observations is as follows:

<b>Name of Constituents</b>	<b>Total Observations</b>	<b>Complied</b>	<b>% of Compliance</b>
<b>Powergrid</b>	54	37	68.52
<b>NTPC</b>	16	14	87.50
<b>NHPC</b>	1	1	100.00
<b>DVC</b>	40	26	65.00
<b>WB</b>	68	27	39.71
<b>Odisha</b>	59	38	64.41
<b>JUSNL</b>	34	16	47.06
<b>BSPTCL</b>	16	5	31.25
<b>IPP (GMR, Sterlite and MPL)</b>	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 118<sup>th</sup> 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**

*OCC advised all the constituents to comply the pending observations at the earliest.*

##### **2. Schedule for 2<sup>nd</sup> Third Party Protection Audit:**

The latest status of 2<sup>nd</sup> Third Party Protection audit is as follows:

1) Jeerat (PG)	Completed on 15 <sup>th</sup> July 2015
2) Subashgram (PG)	Completed on 16 <sup>th</sup> July 2015
3) Kolaghat TPS (WBPDC)-	Completed on 7 <sup>th</sup> August 2015
4) Kharagpur (WBSETCL) 400/220kV -	Completed on 7 <sup>th</sup> August 2015
5) Bidhannagar (WBSETCL) 400 & 220kV	Completed on 8 <sup>th</sup> September, 2015
6) Durgapur (PG) 400kV S/s	Completed on 10 <sup>th</sup> September, 2015
7) DSTPS(DVC) 400/220kV	Completed on 9 <sup>th</sup> September, 2015
8) Mejia (DVC) TPS 400/220kV	Completed on 11 <sup>th</sup> September, 2015
9) 400/220/132kV Mendhasal (OPTCL)	Completed on 2 <sup>nd</sup> November, 2015
10) 400/220kV Talcher STPS (NTPC)	Completed on 3 <sup>rd</sup> November, 2015
11) 765/400kV Angul (PG)	Completed on 4 <sup>th</sup> November, 2015
12) 400kV JITPL	Completed on 5 <sup>th</sup> November, 2015

13)	400kV GMR	Completed on 5 <sup>th</sup> November, 2015
14)	400kV Malda (PG)	Completed on 23 <sup>rd</sup> February, 2016
15)	400kV Farakka (NTPC)	Completed on 24 <sup>th</sup> February, 2016
16)	400kV Behrampur(PG)	Completed on 25 <sup>th</sup> February, 2016
17)	400kV Sagardighi (WBPDC)	Completed on 25 <sup>th</sup> February, 2016
18)	400kV Bakreswar (WBPDC)	Completed on 26 <sup>th</sup> February, 2016

The list of observations for the above sub-stations is already available at ERPC website ([www.erp.gov.in](http://www.erp.gov.in)). Respective constituents are requested to comply and submit the report to ERPC for regular update. The tentative plan for May, 2016 is as given below:

Date of Audit	Substations	Lodging and Boarding	Transport
May, 2016	PPSP (WBSETCL) & Maithon (PG)	Stay at Maithon PGCIL guest house	Transportation will be arranged by Powergrid
May, 2016	Maithon RB (MPL) & Raghunathpur (DVC)	Stay at Santaldih(WBPDC) guest house	
May, 2016	Santaldih(WBPDC) & Arambagh (WBSETCL)	If required, stay at Santaldih(WBPDC) guest house	

Members may decide the schedule for May, 2016.

### **Deliberation in the meeting**

*OCC decided to defer the schedule to June, 2016 in view of Protection visit to JUSNL and BSPTCL. However, OCC advised the team to carry out Third Party audit of JUSNL sub-stations along with Protection visit, if possible.*

### **Item No. B.14: Inspection of Under Frequency Relays (UFR)**

119<sup>th</sup> OCC advised to carry out the UFR audit for JUSNL & BSPTCL along with the Protection site visit which is scheduled in April, 2016.

The tentative plan for first quarter of 2016-17 is proposed as given below:

Sl No	Date	Substation/feeder inspected by the sub-group
1	May, 2016	132/33 KV Hatia of JUSNL
2		132/33 KV Namkum of JUSNL
3	May, 2016	220/132/33 KV Ramgarh of DVC
4	June, 2016	132/33 KV Bari Pahari ( Bihar Sharif ) of BSPTCL
5		132/33 KV Purnea of BSPTCL
6		220/132/33 KV Sampatchak of BSPTCL
7	June, 2016	220/132/33 KV Kalyaneswari of DVC

Members may discuss and form a sub-committee for UFR inspection.

### **Deliberation in the meeting**

*OCC advised Protection team to carry out the UFR audit for above JUSNL/DVC Su-stations along with the Protection site visit scheduled from 11<sup>th</sup> May-14<sup>th</sup> May, 2016..*



**Item No. B.15: 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 2<sup>nd</sup> August, 2013.

In 113<sup>th</sup> 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.16: Certification through BIS as per IS 18001:2007 to all generating/transmission units.**

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

In 85<sup>th</sup> 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 88<sup>th</sup> 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 104<sup>th</sup> OCC, WBPDCCL informed that Bandel TPS is certified with IS 18001.

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

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

Members may note and update the status.

**Deliberation in the meeting**

*Members noted.*

#### **Item No. B.17: 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. The CEA letter along with the details are given at **Annexure- B.17**.

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

SLDCs may note and comply.

#### **Deliberation in the meeting**

*OCC advised all the SLDCs to submit the data to CEA as per the format given in **Annexure-B.17** with a copy to ERPC Secretariat.*

#### **Item No. B.18: 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 (copies enclosed at **Annexure-B.18**).

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

Members may note and comply.

#### **Deliberation in the meeting**

*Concerned State Utilities /Generating companies are requested to submit data of their respective control areas by 1<sup>st</sup> week of May, 2016.*

#### **Item No. B.19: Sub-committee on “Integration of Renewable Energy Sources”.**

In the first meeting of the committee for National Electricity Plan (NEP) held on 1<sup>st</sup> September, 2015, it was decided to constitute a sub-committee on integration of renewable energy sources with following terms of references:

- a) Issues relating to integration of renewable energy into Power System
- b) Balancing requirement for renewable energy
- c) Flexible Generation

This sub-committee would be headed by Member (Power System), CEA.

In view of above all the constituents are requested to nominate a member, not below the level of Chief Engineer/Director. It is requested that information including address, email and mobile of the nominated member may be sent to CEA, PSP&PA-II Division within 15 days.

In 114<sup>th</sup> OCC, OCC requested each constituent to nominate a member for the above sub-committee.

Subsequently nominations received from BSPTCL, WBSETCL, OPTCL, OHPC, CESC and DVC.

Subsequently, JUSNL vide mail dated 09.03.2016 has nominated Shri Akshay Kumar, Chief Engineer (SLDC/ULDC) Mobile No.: 09431917973, E-mail ID: [sldcranchi@gmail.com](mailto:sldcranchi@gmail.com) as the committee member.

Sikkim vide mail dated 16.03.16 has submitted their nomination as follows:

Sh. S.P. Kazi, Chief Engineer (EHV/RE), Energy and Power Department, Government of Sikkim, Sonam Tshering Marg, Gangtok, East Sikkim-737101  
Mobile No# 9733032266, 9434169660 Email : [acepowersikkim@gmail.com](mailto:acepowersikkim@gmail.com)

Members may note.

### **Deliberation in the meeting**

*Members noted.*

### **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 110<sup>th</sup> 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](mailto:mserpc-power@nic.in) latest by first week of each month.

For the month of March, 2016 data has been received from DVC, WBSETCL, CESC, OPTCL, JUSNL and BSPTCL.

Members may note.

### **Deliberation in the meeting**

*Members noted.*

### **Item No. B.21: Recovery Procedures of ER Constituents – ERLDC**

As per IEGC clause 5.8 (b) "Detailed plans and procedures for restoration after partial/total blackout of each user's/STU/CTU system within a Region, will be finalized by the concerned user's/STU/CTU in coordination with the RLDC. The procedure will be reviewed, confirmed and/or revised once every subsequent year".

In 117<sup>th</sup> OCC, ERLDC informed that all STUs have to develop their own restoration plan and procedure of their state in coordination with ERLDC/ERPC.

If such restoration plans are already available, it may be shared with ERLDC.

In 119<sup>th</sup> OCC, DVC informed they have already send their restoration plan.

OPTCL and WBSETCL agreed to update their restoration procedure and forward to ERPC/ERLDC

OCC advised all the constituents to share their restoration plan with ERPC/ERLDC.

JUSNL vide letter dated 20.04.16 shared the recovery procedure of JUSNL system. WBPDC vide mail dated 13.04.2016 has also furnished the restoration procedure of their Power plants.

ERLDC may update.

### **Deliberation in the meeting**

*ERLDC informed that they received the restoration procedure from DVC.*

### **Item No. B.22: Nodal coordinators for web based scheduling software**

The name of Nodal Co-coordinators has been received from DVC, GMR, OPTCL & MPL.

Subsequently, BSPTCL vide letter dated 29.01.2016 has nominated the officers as given below:

- 1) Sri Deepak Kumar, AEE (SLDC), M.- 7763817776, e-mail- [sch.patna@gmail.com](mailto:sch.patna@gmail.com)
- 2) Miss Anjali Anand, AEE (SLDC), M.- 7033092546, e-mail- [sch.patna@gmail.com](mailto:sch.patna@gmail.com)

In 118<sup>th</sup> OCC, ERLDC informed that they have received the coordinator names from WBSETCL, NTPC, JUSNL and GMR.

Sikkim vide mail dated 16.03.2016 has nominated their nodal officers as given below:

Sh. Namgyal Tashi, Assistant Engineer (SLDC), Energy & Power Department, Government of Sikkim, Sonam Tshering Marg, Gangtok, East Sikkim-737101, Mobile No# 7797672743, Email: [namgyaltashi26@gmail.com](mailto:namgyaltashi26@gmail.com)

119<sup>th</sup> OCC advised all the constituents to nominate their nodal officers at the earliest.

JITPL vide mail dated 16.03.16 has also nominated their nodal officer as given below:

Name: Nitin Kumar Gupta, Assistant Manager, Contact No: 08587878395  
Email Id: [jitplscheduling@jindalgroup.com](mailto:jitplscheduling@jindalgroup.com)

Chuzachen vide mail dated 18.04.16 nominated their nodal officer as given below:

Mr Shailendra Gautam - Senior Manager, M. No. +918016099975,  
e-mail: [shailendra.gautam@gatiinfra.com](mailto:shailendra.gautam@gatiinfra.com)

Hence the nominations are pending from Rangit, Jorethang, Adhunik.

Above utilities may nominate their Nodal Officer.

#### **Deliberation in the meeting**

*ERLDC informed that they are going to organize a training on web based scheduling in May, 2016.*

#### **Item No. B.23: Dynamic data of Generator Models required in PSSE for Simulations -- ERLDC**

Requisite data received only from NTPC Kahalgaon & Barh, NHPC Teesta-V, GMR, CESC NTPC Farakka, WBPDC, JITPL and Vedanta Ltd.

In 119<sup>th</sup> OCC, it was informed that DVC, JUSNL and OPTCL were yet to submit the data.

OCC advised the above constituents to submit the requisite data at the earliest.

Other Generators may ensure submitting the data.

#### **Deliberation in the meeting**

*Latest status is enclosed at Annexure-B23.*

#### **Item No. B.24: Availability of data of real time power flow of feeders covered under Under frequency Load shedding scheme (UFLS)**

Regulation 5.2(n) of IEGC, provides for adequate load shedding through automatic under frequency and df/dt relays in the state systems of Eastern region and regarding keeping them functional for ensuring security of the Eastern regional grid as well as the interconnected Indian grid. UFRs and df/dt relays are yet to be mapped on to the SCADA system of each state so that they can be monitored from SLDC/ERLDC.

Members may discuss.

#### **Deliberation in the meeting**

*It was informed that presently none of the feeders are mapped on to the SCADA system as 33 kV feeders are not included in the SCADA system.*

*OCC advised all the states to explore the possibilities to map the UFR feeders on to the SCADA system of each state.*

#### **Item No. B.25: Providing of Expected generation schedule and incorporation of variation in generation by Hydro stations in Bhutan to match with the demand ramp up and peaking requirements in the Indian Grid**

Presently, Bhutan does not provide any block-wise expected generation schedule to ERLDC. Consequently, ERLDC has no option but to use the previous day energy data to forecast and give the expected day ahead block wise schedules, incorporating peak and off-peak variations limited to the total energy forecasted and the maximum (Ex-Bhutan) generation availability. However, the actual Ex-Bhutan availability of power from Tala/CHPC/ Kurichu varies significantly compared to the day ahead schedules finalized by ERLDC. To avoid the above situation, Bhutan is requested to furnish on a daily basis, the day ahead expected generation schedule(Ex-Bhutan) individually plantwise (viz. Tala, Chukha, Kurichu) incorporating peak and off-peak variations commensurate with Demand variation in ER grid.

BPC may update.

### **Deliberation in the meeting**

*ERLDC explained that the actual Ex-Bhutan availability of power from Tala/CHPC/ Kurichu varies significantly compared to the day ahead schedules finalized by ERLDC.*

*ERLDC requested Bhutan to support the Indian grid by planning their hydro generation to maximize during peak hours and requested their comments in this regard.*

*ERLDC also requested Bhutan to provide 15 min block wise day ahead generation schedule.*

*Bhutan representative agreed to provide the 15 min block wise day ahead schedule. Bhutan informed that the NLDC proposal is under study and their views will be communicated at the earliest.*

### **Item No. B.26: Long outage of important transmission lines**

#### **a) Prolonged shutdown of 220kV Mermundali-Bhanjanagar-I**

220kV Meramundali-Bhanjanagar-I was taken under shutdown on continuous basis for replacement of deteriorated conductors on 09/02/16 with scheduled completion date being 25/03/16. However, till date the shutdown has not yet been returned. It needs to be noted that with the depletion of hydro at South Odisha stations, any tripping of ckt-II is leading to cascade tripping of Mendhasal ICTs(2 x 315MVA), leading to disruption of capital area and important loads at Chandaka, Bhubhaneshwar, Nimapara and at times also the entire south Odisha has also gone into blackout subsequently.

OPTCL may furnish the day wise schedule of the pending works indicating the completion time as there has already been significant time over-run.

OPTCL may update.

### **Deliberation in the meeting**

*OPTCL informed that the line has already been charged.*

#### **b) Prolonged shutdown of 220kV TTPS-Joda-I**

220kv TTPS-Joda-I was taken under shutdown for replacement of old Sheep conductor by ACSR Zebra conductor w.e.f 13/02/16 to 15/04/16. However, the shutdown has not been returned till date. The above line is important specially in context of feeding Joda loads during s/d of 220kv Joda-Ramchandrapur during which redundancy of feed to Joda/Jindal/ Jamshedpur (DVC) is affected.

OPTCL may furnish the day wise schedule of the pending works indicating the completion time as there has already been significant time over-run.

OPTCL may update.

### **Deliberation in the meeting**

*OPTCL informed that the line would be charged by June, 2016.*

### c) Long outage of 125MVAR Bus Reactor-II at Binaguri

125 MVAR B/R-II is under outage w.e.f.29/02/16 consequent to damage to bushing of all the three phases. Also, currently Tala-Binaguri-II is being kept antitheft charged from Binaguri end. Consequently, the Bus voltages at Binaguri are constantly on the higher side. Powergrid may confirm the status of restoration works and the expected date of restoration of the Bus Reactor at the earliest.

Powergrid may update.

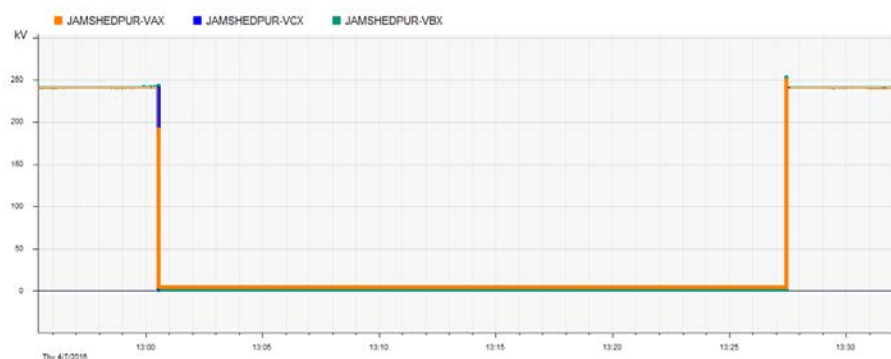
### Deliberation in the meeting

Powergrid informed that the line will be charged by tomorrow (i.e. by 29.04.2016).

### Item No. B.27: Discrepancy related to input to PMU voltage measurand

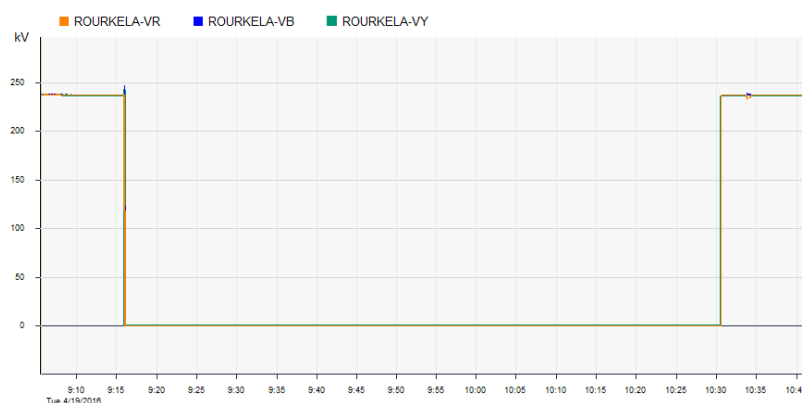
#### A. Voltage measurand at Jamshedpur PMU:-

At Jamshedpur one of the two voltage measurands is being fed from 400 kV Jamshedpur – Maithon Line CVT instead of Bus CVT .Due to which whenever this line goes out of service, measured voltage value became zero. At 09:11 Hrs on 13.01.2016, 400 kV Jamshedpur – Maithon line tripped at the same time measured voltage value to PMU became '0'(Zero).It was further observed at 13:00 Hrs on 07.04.2016 when the above said line tripped. It should be provided from Bus CVT instead of any other CVT.



#### B. Voltage measurand at Rourkela PMU:-

Whenever 400/220 kV 315 MVA ICT II at Rourkela goes out of service, voltage measurand to PMU become zero though both the buses are alive. It was observed that at 09:16 Hrs on 19.04.2016, 400 kV side 400/220 kV 315 MVA ICT II tripped and at the same time Voltage measurand to PMU also became '0' (Zero).



ERLDC/Powergrid may update.

### **Deliberation in the meeting**

*ERLDC informed that PMU input measurement voltage has been given from line/ICT CVT instead of bus CVT. As a result, ERLDC was not getting voltage data during line/ICT shutdown.*

*Powergrid agreed to change the PMU input measurement voltage from line/ICT CVT to bus CVT.*

### **Item No. B.28: 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.

In 118<sup>th</sup> OCC, it was informed that Odisha SLDC, WBSLDC and DVC are doing the TTC/ATC calculations on their own but the same is not being uploaded in their website.

SLDC, Bihar is also computing their TTC/ATC in-consultation with ERLDC.

OCC advised Odisha SLDC, WBSLDC, DVC & SLDC, Bihar to upload their monthly TTC/ATC on their website.

OCC also advised Jharkhand and Sikkim SLDC to initiate the TTC/ATC computations of their control area in-consultation with ERLDC.

In 119<sup>th</sup> OCC, DVC informed that they are doing TTC/ATC calculations on their own it will be uploaded in their website.

OCC advised other SLDCs to upload their monthly TTC/ATC on their website.

Members may update.

### **Deliberation in the meeting**

*DVC informed that they are providing the monthly TTC/ATC on their website.*

*WBSETCL informed that they are calculating the TTC/ATC but their website is under construction.*

*Bihar and OPTCL agreed to implement.*

*JUSNL informed that they are unable to compute the TTC/ATC for their state.*

*OCC advised JUSNL to interact with ERLDC to get acquainted with the ATC/TTC calculation.*

### **Item No. B.29: Reasons for demand –supply gap and its variation -- Agenda by NPC**

It was deliberated in the 4<sup>th</sup> 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.

119<sup>th</sup> OCC advised all the constituents to comply.

Members may update.

#### **Deliberation in the meeting**

*OCC advised all the constituents to comply at the earliest.*

#### **Item No. B.30: 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.

Members may update.

#### **Deliberation in the meeting**

*ERLDC informed that every month they were updating the status and posting at ERLDC website.*

*It was informed that JUSNL, Sikkim and MPL have not yet replied to CERC on non-availability of telemetry.*

*OCC advised JUSNL, Sikkim and MPL to submit their reply to CERC at the earliest.*

#### **Item No. B.31: 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.31**.

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.32: 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.32**.

Members may update the latest status.

### **Deliberation in the meeting**

*Members updated the latest status. Updated status is given at **Annexure- B.32**.*

#### **Item No. B.33: Pollution mapping for Eastern Region**

The Pollution Mapping work in ER was started with on-site measurement of ESDD and NSDD. The latest available status as per 118<sup>th</sup> OCC is as follows:

Utility	Scope	Installed Locations	Number of locations where 1 <sup>st</sup> set of Measurements Completed	Number of locations where 2 <sup>nd</sup> set of Measurements Completed
JUSNL	67	27	21	19
BSPTCL	59	52	45	
WBSETCL	73	70	43	
OPTCL	164	102	102	42
Sikkim	12	9	6	6
Powergrid ER 1	99	99	99	47
Powergrid ER 2	40	40	40	40
Powergrid Odisha	42	42	42	42

In 118<sup>th</sup> OCC, Powergrid ER-2 informed that 2<sup>nd</sup> set of measurements have been completed for 34 locations. OPTCL informed that 2<sup>nd</sup> set of measurements are in progress.

In 119<sup>th</sup> OCC, Powergrid informed that they have created a template at their server for online filling of measurement data which will be directly coming to their database and there will be no requirement of sending by post or mail.

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

Powergrid informed and schedule for 3<sup>rd</sup> set, 4<sup>th</sup> set, 5<sup>th</sup> set & 6<sup>th</sup> set of measurements have been prepared which is given at **Annexure- B.33** along with the latest status. It was requested to all the respective constituents to complete the measurements as per the schedule.

Members may update.

### **Deliberation in the meeting**

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

#### **Item No. B.34: Erroneous recording of data by Interface Meters**

##### **i. Lalmatia(JUVNL)**

SEM data received from Lalmatia (JUVNL) of 220 KV Lalmatia(JUVNL) – Farakka (NTPC) line showing erroneous(2/3rd reading as compared to Farakka end) since last six months. The matter is already informed to the official of JUVNL. However the problem still persists.

In 117<sup>th</sup> OCC, Powergrid informed that SEM has been installed.

However, in 31<sup>st</sup> CCM, held on 08.02.16, ERLDC informed that the SEM recording still erroneous and the issue is not fully resolved. Powergrid agreed to look into the matter.

In 118<sup>th</sup> OCC, Powergrid and JUSNL were advised to coordinate and resolve the issue.

*In 119<sup>th</sup> OCC, JUSNL assured to coordinate for checking of CT ratio and confirm to ERLDC.*

Powergrid/JUSNL may update.

### **Deliberation in the meeting**

*ERLDC informed that they have considered the CT ratio as 1000/1 and now the SEM reading is matching with other end.*

#### **ii. Installation of New SEMs at B/C panels at Joda Grid S/s of OPTCL - OPTCL**

OPTCL vide mail dated 30.12.2015 have requested for installation of new SEMs at B/C panel at their Joda GSS for 220kV Joda- Ramchandarpur & Joda – Jindal Interstate tie lines.

In 117<sup>th</sup> OCC, Powergrid informed that required meters are already installed and SEM for bus coupler is not required.

ERLDC informed that the SEM reading at both ends of the 220kV Joda- Ramchandarpur line is not matching and advised OPTCL to check for any tapping in the line. It was also informed that SEM for 220kV Joda- Jindal is not required as it is an intra-state line.

OPTCL agreed.

In 118<sup>th</sup> OCC, ERLDC informed that SEM reading at Joda end is 15% less than other end which may be checked and corrected.

OPTCL informed that SEM for the bus-coupler at Joda end is also needed.

In 119<sup>th</sup> OCC, OPTCL informed that SEM at Joda end needs to be checked and corrected.

OPTCL informed that there is no line CT so 2 nos SEM for the bus-coupler at Joda end is required.

ERLDC requested OPTCL to furnish the SLD of the Joda Sub-station for their study and assessment of requirement of SEM for bus-coupler. OPTCL agreed.

Powergrid also agreed to look into the matter and resolve it.

OPTCL and Powergrid may update.

### **Deliberation in the meeting**

*OPTCL informed that they have furnished the SLD to ERLDC/Powergrid.*

*OCC advised Powergrid to assess the requirement of SEM for bus coupler at Joda and resolve the issue at the earliest.*

#### **Item No. B.35: Non Receipt of SEM data from Various Locations**

##### **i. Replacement/Repair of Defective meter at Mendhasal – SLDC, Odisha**

Meter at Mendhasal (GRIDCO) end of Mendhasal (GRIDCO) – Baripada (PG)- I is defective since more than last two months.

SLDC, Odisha vide mail dated 05.01.2016 have requested for early replacement/repair of meter at Mendhasal.

In 119<sup>th</sup> OCC, Powergrid informed that the meter will be replaced soon.

As informed by ERLDC, defective meter at Mendhasal end of 400 KV Baripada line was replaced. After replacement, new meter is neither configured in AMR system nor is data being sent through DCD.

OPTCL/Powergrid(Odisha) may update.

#### **Deliberation in the meeting**

*ERLDC updated that the meter has been replaced now & Mendhasal end data is now available.*

#### **ii. Forbisganj at BSPTCL**

Kishanganj(BSPTCL) end meter of 132 KV Purnea(PG) Line is not recording any flow compared to Purnea PGCIL end since 14:00 hrs of 29th June 2015. It was gathered that line is feeding load to Farbisganj at BSPTCL regularly through Transfer Bus of Kishanganj bypassing the SEM at Kishanganj. It was decided to place 02 nos of SEM at Forbesganj. In 31<sup>st</sup> CCM, BSPHCL representative informed that meter has been placed at Farbesgunj on 03.02.2016. ERLDC has not received the SEM data from Forbisganj since installation of SEM. Non availability of SEM data from BSPTCL end, accounting of energy is fully dependent on Purnea(PG) end meter.

BSPHCL is may please respond.

#### **Deliberation in the meeting**

*Bihar informed that all the five DCDs are faulty.*

*Powergrid agreed to provide DCDs to BSPTCL at the earliest.*

#### **iii. Santaldih in WBSETCL**

SEM from Santaldih for 220 KV Santaldih(WB)-Chandil (JUVNL) Line is not reporting either in DCU of AMR system or communicating through DCD since 28.01.16. In 31<sup>st</sup> CCM, Powergrid informed that the issue would be resolved at earliest. However problem still persists.

Powergrid and WBSETCL may please respond.

#### **Deliberation in the meeting**

*OCC advised Powergrid to check and install new SEM at Santaldih at the earliest,*

*Powergrid agreed resolve the issue.*

#### **Item No. B.36: Non-payment of Deviation charges by JUVNL & BSPHCL.**

The current principal outstanding Deviation Charge of JUVNL & BSPHCL is ` **33.70 Cr & `18.55 Cr** respectively considering bill up to 27.03.2016. Moreover, an interest amount of `**0.76Cr** by JUVNL and `**1.38Cr** by BSPHCL (as on 31.03.2016) is also payable due to delay payment of DSM charges. A letter to this effect has been issued to respective constituents for early liquidation of the outstanding dues. As per CERC's order Deviation charges are to be accorded highest priority than any other payment and non-settlement of Deviation charge would lead to

serious instability in the entire payment mechanism. JUVNL has also not opened the LC due to default in deviation charges payment.

BSPHCL & JUVNL may respond.

#### **Deliberation in the meeting**

*OCC advised BSPHCL and JUSNL to clear the amount at the earliest.*

#### **Item No. B.37: Non-payment of Reactive energy charges by WBSETCL/WBSEDCL.**

The total outstanding receivable on account of Reactive charges from WBSETCL/WBSEDCL is `6.11 Cras on 19.04.2016 (considering bill up to 03.04.2016). Further WBSETCL/WBSEDCL has not paid any reactive charges since 11.02.16.

WBSETCL/WBSEDCL may confirm the program for payment of outstanding dues.

#### **Deliberation in the meeting**

*WBSETCL informed that at present there is no approved guidelines for sharing the Reactive charges within the Discom utilities of West Bengal; the issue is being taken up with WBSEERC.*

#### **Item No. B.38: Outstanding payment towards construction of bay at Biharsharif (PG) sub-station for 400kV Biharsharif-Tenughat line**

Powergrid vide letter dated 12.10.2016 informed that in 30<sup>th</sup> TCC advised to take up the issue for earliest liquidation of payables by JUSNL for outstanding payment towards construction of bay at POWERGRID Biharsharif sub-station for up-gradation of 220kV Biharsharif-Tenughat line to 400 KV level..

JUSNL was requested to take up the matter on priority and release the outstanding payment for early completion of balance work at POWERGRID Biharsharif sub-station.

Powergrid/JUSNL may update.

#### **Deliberation in the meeting**

*JUSNL informed that they will update the status soon.*

#### **Item No. B.39: Mock Black start exercises in Eastern Region – ERLDC**

##### **i) The status of black start exercises**

*The schedule of the proposed black-start exercises for F.Y 2015-16 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, 2015	<i>Done on 16/07/15</i>	Last Week of January 2016	<i>Done on 28/03/16</i>
2	Maithon	1 <sup>st</sup> week of June 2015		1 <sup>st</sup> Week of October 2015	<i>Done on 23-12-2015</i>
3	Rengali	2 <sup>nd</sup> week of June 2015	<i>Done on 13/10/15</i>	Last week of November 2015	<i>Done on 09.02.2016</i>
4	U. Indravati	3 <sup>rd</sup> week of June 2015	<i>Done on 16/07/15</i>	2 <sup>nd</sup> week of February 2016	<i>Done on 28/03/16</i>

5	Subarnarekha	2 <sup>nd</sup> week of October 2015	<i>Done on 09/06/15</i>	1 <sup>st</sup> week of January 2016	
6	Balimela	1 <sup>st</sup> week of November 2015		1 <sup>st</sup> week of March 2016	<b><i>Done on 21/03/16</i></b>
7	Teesta-V	2 <sup>nd</sup> week of November 2015		Last week of February 2016	<b><i>Done on 30/03/16</i></b>
8	Chuzachen	1 <sup>st</sup> week of May, 2015		2 <sup>nd</sup> week of January, 2016	<b><i>Done on 29/03/16</i></b>
9	Burla	Last week of July 15	Jan, 2016	Last week of February, 2016	

Members may update.

### **Deliberation in the meeting**

*It was informed that all the Generators as given above have carried out the mock black start as per the schedule of 2015-16.*

*ERLDC placed the tentative schedule for 2016-17, which is enclosed at **Annexure-39**.*

#### **ii) 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.40: Restricted Governor Mode of Operation**

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

In 108<sup>th</sup> OCC, ERLDC informed that the RGMO/FGMO response of the generators needs monitoring on continuous basis.

OCC advised ERLDC to intimate the event of sudden drop in frequency to the generators and requested all generators to provide the RGMO/FGMO response data to ERLDC during the said incidents.

In 115<sup>th</sup> OCC, ERLDC informed that for effective monitoring of unit wise governor response, ERLDC proposes to create a web-group wherein SCADA data recorded by ERLDC following an event of sudden load-generation imbalance would be posted within 2-3 days of occurrence of the event. The login id and password to access the web-group would be duly intimated by ERLDC to all concerned.

Coordinators from all the concerned generating stations would post the unit wise MW response as recorded at their respective ends, for a period +/- half-an-hour of the instant, within two days of posting by ERLDC. For the purpose of analysis, wherever significant variation would be observed w.r.t. to SCADA data, generator's data would be adopted for detailed analysis.

In this connection, SLDCs of E. Region are requested to extend cooperation by coordinating with nodal officers of generators under their respective jurisdiction, in data collection and posting in webgroup.

OCC requested all the constituents to provide their respective e-mails which can be added to the web group.

E-mails can be provided by all SLDCs, Hydro generators of having capacity 10 MW & above and Thermal generators of having capacity 200 MW & above.

SLDCs will co-ordinate with their IPPs of 10 MW & above Hydro generation and 200 MW & above Thermal generation.

Thereafter, ERLDC informed that one web group was formed for sharing governor response of various generators in ER. The url of the group is

***[https://in.groups.yahoo.com/neo/groups/er\\_gov\\_respons/info](https://in.groups.yahoo.com/neo/groups/er_gov_respons/info)***

ERLDC requested to send email ids where invitation will be sent. Yahoo mail ids are preferable.

In 117<sup>th</sup> OCC, ERLDC informed that the performances of the governor response are being uploaded in the yahoo group. It was also informed that DVC, CESC and Odisha were already added in the web-group.

OCC advised other constituents to join the web group at the earliest by providing their e-mail ids (preferably yahoo ids).

In 118<sup>th</sup> OCC, it was informed that WBSETCL, JUSNL, Bihar, NTPC and NHPC are yet to join the group.

OCC advised all the other constituents to join the web group at the earliest by providing their e-mail ids (preferably yahoo ids).

Members may update.

### **Deliberation in the meeting**

*OCC advised all the other constituents to join the web group at the earliest by providing their e-mail ids (preferably yahoo ids).*

### **Item No. B.41: Reactive Power performance of Generators and GT tap position optimization**

Maximum and minimum voltage was observed (data taken from SCADA)

Generating stations have been monitored for sample dates in the month of March, 2016:

<b>Power Plant</b>	<b>Max and Min Voltage observed for Mar 16 (KV)</b>	<b>Date for monitoring (March 16)</b>
Farakka STPS	425,405	11,16
Khalgaon STPS	426,409	11,16
Talcher STPS	415,403	13
Teesta	413,404	25
Bakreshwar TPS	409,388	13

Kolaghat TPS	421,396	7
Sagardighi TPS	Data not available	---
MPL	425,411	23
Mejia-B	426,415	17
DSTPS	427,416	17
Adhunik TPS	428,408	17
Sterlite	429,419	19

*In 119<sup>th</sup> OCC, it was also informed that the data from Sagardighi TPS is not available, WBPDCCL was advised to check and resolve it.*

ERLDC may update.

#### **Deliberation in the meeting**

*ERLDC informed that the performance of all the generators was satisfactory. It was informed that Sterlite and Sagardighi data are not coming properly.*

*OCC advised WBPDCCL, WBSLDC, Sterlite and ERLDC to check and resolve the issue.*

#### **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) – Not yet done
- c. Koderma TPS Unit#1
- d. JITPL(both units) – Procedure given. Not yet done

Members may update.

#### **Deliberation in the meeting**

*Members noted.*



## **PART C:: OPERATIONAL PLANNING**

### **Item no. C.1: Shutdown proposal of transmission lines and generating units for the month of May' 16**

Members may finalize the Shutdown proposals of the generating stations for the month of May'16 as placed at **Annexure-C.1**.

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, 2016 is given at **Annexure-C.1**.*

### **Item no. C.2: Anticipated power supply position during May'16**

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of May'16 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.2**.

Members may confirm.

#### **Deliberation in the meeting**

*Modified anticipated power supply position for the month of May, 2016 after incorporating constituents' observations is given at **Annexure-C.2**.*

### **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
STERLITE	3	600	OUTAGE FOR LOW SCHEDULE	15-Jan-16
FARAKKA	2	200	CW INTAKE LEVEL LOW	1-Apr-16
MEJIA	4	210	LOW DEMAND	24-Mar-16
MEJIA	8	500	BOILER TUBE LEAKAGE	12.04.16
WARIA	3	140	TUBE LEAKGE	19-Oct-15
RAGHUNATHPURTPS	1	600	BOILER TUBE LEAKAGE	28-Mar-16
RAGHUNATHPURTPS	2	600	ROTOR PROBLEM	14-Feb-16
DSTPS	1	500	BOILER TUBE LEAKAGE	16-Apr-16
BOKARO B	1	210	LOW DEMAND	26-Jan-16
BOKARO B	2	210	PROBLEM IN COAL CRUSHER	15-Apr-16
BARH	4	660	AUXILIARY POWER FAILURE	31-Mar-16

#### **(ii) Transmission elements**

Name of the Line/Element	Outage	Reason
315 MVA ICT-2 AT NTPC TALCHER	15.04.16	SHUTDOWN AVAILED BY NTPC
125 MVAR BR-II AT BINAGURI	29.02.16	BUSHING OF ALL THREE PHASES DAMAGED

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
1	Raghunathpur Unit#1	2x600MW	
2	Sagardighi Unit #3	500 MW	

**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 <sup>nd</sup> 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	July, 2016

Members may update.

**Deliberation in the meeting**

*Members noted.*

**PART D:: OTHER ISSUES****Item no. D.1: UFR operation during the month of February'16**

System frequency touched a maximum of 50.35Hz at 18:03Hrs of 07/03/16 and a minimum of 49.68Hz at 14:33Hrs of 18/03/16. 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 March'16.

Members may note.

### **Deliberation in the meeting**

*Members noted.*

### **Item no. D.3: Grid incidences during the month of March, 2016**

Sl no	Disturbance Place	Date & Time	Generation loss (MW)	Load loss (MW)	Remark	Category
1	WBSETCL (Lakhikantapur, Subhasgram), CESC	09:31 & 09:39 hrs, 01/03/16	0	150 (WB) + 200 (CESC)	Total power interruption occurred at Lakhikantapur and 200 MW load loss occurred in CESC system due to maloperation of LBB protection of 220kV Main Bus- I at Subhasgram and at the same time 220kV Jeerat- Kasba D/c tripped on indication of Y-N fault. Thereafter CESC system separated from WBSETCL system due to U/F scheme and SPS action in CESC system	GD-1
2	PGCIL & BSPTCL (Muzaffarpur)	17:55 hrs, 01/03/16	0	580	Power interruption occurred at 400/220 kV Muzaffarpur S/S & its surrounded area due to tripping of 400/220kV, 315 MVA ICT-II at Muzaffarpur on maloperation of auxiliary trip relay and subsequently 500 MVA ICT- III at Muzaffarpur (PG) tripped on overcurrent	GD-1
3	DVC (Waria)	23:47 hrs, 09/03/16	0	80	While desynchronizing of Waria (DTPS) U#4 due to boiler tube leakage, Y-Ph pole of CB of the corresponding GT got stuck. And to isolate the unit (to prevent from motoring mode of generator), 220kV Bus at Waria S/s was made dead by manually opening of all the 220kV feeders emanating from 220/132kV Waria S/s. And hence 220kV bus became dead at Waria S/s.	GD-1
4	PGCIL & OPTCL(Jeypore, Nayagarh, Bhanjanagar, Theruvali, Chandaka)	12:24-12:31 hrs, 10/03/16	150	580	Total power failure occurred in South Orissa system as well as ISTS system due to tripping of all the 400/220kV lines emanating from Jeypore, Indravati S/s as well as multiple 220kV lines in south Orissa system along with running units of Indravati, Balimela & U.Kolab.	GD-1
5	WBSETCL, PGCIL, Bhutan & Sikkim (Dalkhola, Siliguri, Birpara, NJP, Rangit and Chukha.)	18:09 hrs & 18:17 hrs, 16/03/16	180	550	Total power interruption occurred in N. Bengal system due to tripping of both 315 MVA ICT at Binaguri along with 220kV Dalkhola bus coupler on overcurrent. Thereafter cascading tripping occurred in Bhutan (running unit of Chukha tripped) as well as Sikkim system(all 132kV lines from Rangit S/s as well as running unit of Rangit tripped)	GD-1
6	WBSETC(Kasba)	16:53 hrs, 19/03/16	0	150	Total power failure occurred in Kasba (WB) system due to tripping of multiple 220kV lines emanating from Kasba as well as Subhasgram (PG) system.	GD-1
7	WBSETCL (Bidhannagar)	16:25 hrs, 30/03/16	0	0	Multiple elements tripping occurred in 400/220kV Bidhannagar S/s due to bursting of R-Ph CT connected to Bus-A of bus coupler bay during the inclement weather condition. Thus bus differential protection of Bus-B had operated and -hence all the elements connected to Bus-B of 400kV Bidhannagar S/s tripped from local end. However, the elements connected to Bus- A tripped from remote end.	-
8	OPTCL( Mendhasal, Chandaka)	16:59 hrs, 30/03/16	0	400	Total power failure occurred at Chandaka S/s due to occurrence of SLG (I.e R-N) fault on 400kV Meeramandali- Mendhasal S/c line. And due to non-clearance/delayed clearance of fault from	GD-1

					Mendhasal end all the 400kV lines emanating from Mendhasal s/s tripped from remote end on Z-II. Thereafter MW flow became zero on both 315 MVA ICTS at Mendhasal	
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Members may note.

### **Deliberation in the meeting**

*Members noted.*

#### **Item no. D.4: Any other items**

#### **1. Installation of 3rd 160 MVA, 220/132 kV Transformer at Malda (PG) 400 kV sub-station in place of existing 50 MVA Transformer and Termination of Malda – Samsi 132 kV S/C line at Malda (PG) ---WBSETCL**

The system demand of Malda, Khejuria, Samsi, Dhilian, Raghunathgunj & Balurghat (on emergency basis) areas are met from existing Malda (PG) 400/220/132 kV sub-station through 2x160 + 1x50 MVA, 220/132 kV Transformers, Malda (PG) – Malda 132 kV D/C HTLS line. Peak loading of Malda (PG) – Malda 132 kV D/C line already reaches around 340 MVA.

Load of Raghunathgunj 132 kV sub-station (around 80 MVA) could not be diverted to Gokarna since loading of 4x160 MVA, 220/132 kV Transformers at Gokarna already reaches 594 MVA.

It is observed that only Sadaipur 220/132/33 kV sub-station in Birbhum district is under construction which is expected to be completed by 2016. After commissioning of Sadaipur 220 kV sub-station, load of Rampurhat 132 kV sub-station (around 81 MVA) could be met from Sadaipur which in turn relief Gokarna transformer loading. Then, load of Raghunathgunj could be catered from Gokarna end and Malda load will be reduced by 80 MVA.

Considering above, the following measures has been contemplated by WBSETCL to overcome the constraints of power supply situation during summer peak of 2017 and long term solution for reliable & quality power supply at Malda & Murshidabad districts in future:

1. Short Term (by Dec 16):
  - a) Replacement of existing 50 MVA, 220/132 kV transformer by 160 MVA (Transformer and allied equipment, as per requirement, will be provided by WBSETCL) at Malda (PG),
  - b) Commissioning of Sadaipur 220 kV sub-station,
  - c) Termination of Malda – Samsi 132 kV S/C line at Malda (PG).
2. Medium Term (by Dec 17):
  - a) Commissioning of New Sagardighi 220 kV (Murshidabad) & Bhadrapur 132 kV GIS (Birbhum).
3. Long Term (by March 18):
  - a) Commissioning of Gajol 220/132/33/11 kV GIS (Malda).
  - b) Commissioning of Rejinagar 220/132/33 kV sub-station (Murshidabad).

Considering urgency, to achieve the short term target under sl. no. 1a) and 1 c) it is proposed that WBSETCL will implement the job at Malda (PG) at their WBSETCL. Afterwards, when Gazol 220 kV and New Sagardighi 220 kV sub-stations would be put into operations, these assets will be diverted by WBSETCL for use to their other projects. POWERGRID may kindly allow. Detailed scheme will be finalised after joint site visit by WBSETCL & POWERGRID.

### **Deliberation in the meeting**

*WBSETCL informed that since commissioning of 220kV Gajol is getting delayed, the 220kV Malda S/s is getting critically loaded. 220kV Gajol will be commissioned in March, 2018.*

*WBSETCL requested that as a temporary arrangement for 2 years, the existing 220/132 kV 50 MVA ICT may be replaced with 160 MVA ICT at 220kV Malda (PG) S/s. Transformer and allied equipment, as per requirement, will be provided by WBSETCL at Malda (PG).*

*OCC advised WBSETCL to place the agenda in standing committee meeting.*

*WBSETCL agreed.*

Meeting ended with vote of thanks to the chair.

\*\*\*\*\*

Participants in 120<sup>th</sup> OCC Meeting of ERPC

Venue: ERPC Conference Room, Kolkata

Time: 11:00 hrs

Date: 28.04.2016 (Thursday)

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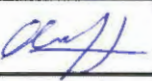



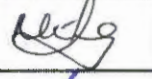
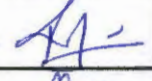
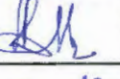
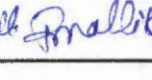

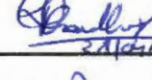
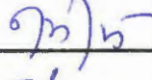
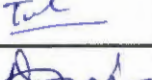
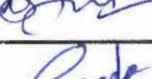
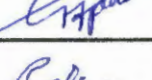
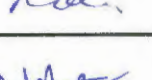
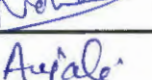
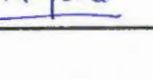


### Participants in 120<sup>th</sup> OCC Meeting of ERPC

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Time: 11:00 hrs

Date: 28.04.2016 (Thursday)

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(A Govt. of Odisha Undertaking)

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File No: CGM(C) - 01/2008-

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/ Dated 17-03-2016  
18/03/16

From

Sri Hemant Sharma, IAS  
Chairman-cum-Managing Director

To

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Power Development Department, J&K Government  
Fax: (0194)(2452352)

**Sub: Realization of Revenue loss by OPTCL due to shut down of EHT lines for diversion work for the Railway Line and other beneficiaries.**

Sirs,

During diversion of EHT lines due to construction of new Railway lines/doubling of existing Railway lines or construction of any new EHT lines by other beneficiaries, shut down are being taken for a longer period, for which heavy revenue loss is incurred by OPTCL. For realization of this revenue loss, OPTCL has devised a formula with due approval by its Board of Directors and started claiming shut down charges. This is in line with the Railway blockade charges claimed by Railways for stringing of lines over Railway tracks. In the estimates these charges are reflected and after completion of the works as per actual will be calculated and will be realized.

Thus, the same may also be claimed by your organization, so that this uniform policy can be adopted by all Transmission Utilities.

**Generic Formula for realization of revenue loss:**

$$X = A \times 10^6 \times (B+C) \times N$$

Where X= Loss of revenue due to shut down of EHT lines

A= Estimated energy consumption during the period of shut down of the said line in MU/Hr  
(Calculated from the last month average power per day)

B=BST charges per unit in Rs.... Of concerned Discom area of trading company

C= Transmission charges per unit of STU in Rs.....

N= No. of hours of shut down taken

Yours faithfully,

  
17.3.16  
Chairman-cum-Managing Director

- CC: (1) Principal Secretary to Govt., Dept. of Energy, Govt. of Odisha for kind information  
✓ (2) Member Secretary, ERPC, Kolkatta for information and necessary action. He is requested to intimate all constituent members on the above issue.  
(3) CGM(O&M), OPTCL for information and necessary action.



**NTPC Limited**

( A Government of India Enterprise )

**Kahalgaon Super Thermal Power Station****P.O. : Kahalgaon STPP, Distt. : Bhagalpur (Bihar)****PIN-813214, Tel.-06429-226574, Fax-06429-226083**

Ref. No. : Khs:092:GM(O)/ERPC/

Dated :14/03/2016

To  
**The Member Secretary,**  
**Eastern Regional Power Committee,**  
**14, Golf Club Road, Tollygunj, Kolkata.**  
**Fax No. : 033 – 24221802, 24221358**

Dear Sir,

This refers to the visit of undersigned to your office on 10<sup>th</sup> March, 2016 & the discussion there. Thank you for sparing your valuable time & for extending the courtesy & hospitality.

NTPC-Kahalgaon has been running its units smoothly following the grid discipline. However, the full potential of the plant is not being consistently utilized as reflected in the low Generation Schedule. While, we appreciate the technical & commercial constraints of the system resulting in low schedule, we would like to request you to look into the possibility of enhancing Kahalgaon schedule, as noted hereunder :

*Whenever one of the units trips & station revises its DC, it is observed that post revision SG in most of the cases could have been higher, as we understand, System demand does not get affected by one unit trip out.*

*As can be seen in Table A from TB 85, SG could have been same as DC of 960 MW, which was still lower than before trip SG of 1024 MW, which we suppose was the system demand for Kahalgaon Stage-II. Similarly, as in Table B, SG could have been 950 MW from TB 79, & in Table C, SG could have been 595 MW from TB 27. Such smaller steps will help Station to slightly enhance its SG PLF & we sincerely hope that other constituents too would not have any reservation in adopting this as a practice to the extent technically feasible.*

**Table - A**

(Unit#7 tripped at 20:08 hrs. on 25/01/2016)

**Table - B**

(Unit # 5 tripped at 18:45 hrs. on 07/02/2016)

BLOCK	TIME	SG	DC	BLOCK	TIME	SG	DC
80	20:00	1052	1425	74	18:30	1080	1440
81	20:15	1052	1425	75	18:45	1075	1440
82	20:30	1052	1425	76	19:00	1090	1440
83	20:45	1024	1425	77	19:15	1072	1440
84	21:00	1024	1425	78	19:30	1072	1440
85	21:15	686	960	79	19:45	773	950
86	21:30	686	960	80	20:00	773	950
87	21:45	686	960	81	20:15	727	950

( Contd.....P/2 )

## **NTPC Limited**

( A Government of India Enterprise )

**Kahalgaon Super Thermal Power Station**

**P.O. : Kahalgaon STPP, Distt. : Bhagalpur (Bihar)**

**PIN-813214, Tel.-06429-226574, Fax-06429-226083**

.. 2 ..

**Table - C**

(Unit#2 tripped at 06:01 hrs. on 02/03/2016)

BLOCK	TIME	SG	DC
24	06:00	649	765
25	06:15	649	765
26	06:30	649	765
27	06:45	505	595
28	07:00	505	595

Though the OCC agenda is already prepared, I would still request you to include this issue for discussion in next OCC meeting scheduled on 18<sup>th</sup> March, 2016.

Thanks and best regards



( S Dasgupta )

General Manager (Opn.)

Copy To:

- (i) GM (OS), NTPC Ltd., ER1HQ, Patna – For kind information please.
- (ii) GM (O&M)/Kh. – For kind information please.
- (iii) GGM (Kh.) – For kind information please.





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



आईएसओ 9001:2008  
ISO: 9001-2008

Annexure-B6

Tel No.:033-24235199, 24235016 FAX No.:033-24221802, 24171358 Web: [www.erpc.gov.in](http://www.erpc.gov.in)

No. ERPC/MS/ 2016/ **H 208 - H 221**

Date: 5<sup>th</sup> April, 2016

**FAX MESSAGE NO. 179**

To,

1. Executive Director (ER-I), Power Grid Corporation of India Ltd, Alankar Place, Boring Road, Patna-800001.
2. Executive Director (ER-II), Power Grid Corporation of India Ltd, J-1-15, Block-EP, Sector-V, Salt Lake City, Kolkata-700091.

**Sub: Implementation the ADMS system in the new SCADA /ULDC scheme - regarding**

Sir,

It is to inform that Hon'ble CERC vide order dated 31.12.2015 in Suo-motu Petition No.- 5/SM/2014 in the matter of "Non-compliance of Regulation 5.4.2 (d) of IEGC, 2010" has directed all Respondents (SLDCs) for implementation of ADMS in their respective control area. CERC have allowed dead line till 30.06.2016 to the Respondent for implementation of ADMS.

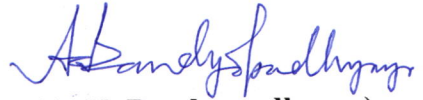
In this regard, it is to mention that "Demand Management System (DMS)" is considered to be an important application in SCADA system. But DVC and WBSEDCL has informed that while interacting with M/s Chemtrol engineers it was learnt that such DMS system is not included in the new SCADA system. The "DMS/ADMS" application software is very much required in the New SCADA system for implementation of ADMS.

Therefore, you are requested to take up the issue for inclusion of DMS/ADMS application software in the new SCADA system under new ULDC project which would be of great help for the ER constituents in implementing the ADMS system in their respective control area and subsequent compliance of CERC directive.

This may be treated as most urgent.

Regards,

Yours faithfully,

  
(A. K. Bandyopadhyaya)  
Member Secretary

Copy for kind information to:

- 1) The Secretary, Central Electricity Regulatory Commission, 3<sup>rd</sup> & 4<sup>th</sup> Floor, Chanderlok building, 36 Janpath New Delhi-110001
- 2) Director (Operations), Power Grid Corporation of India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon-122001

DMS

**Copy to:**

- 1) Director (Operation), West Bengal State Electricity Transmission Co. Ltd., Vidyut Bhavan, 7<sup>th</sup> Floor, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091.
- 2) Director (R&T), West Bengal State Electricity Distribution Co. Ltd., Vidyut Bhavan, 7<sup>th</sup> Floor, Block-DJ, Sector-II, Bidhannagar, Kolkata-700091.
- 3) Director (Engineering), Odisha Power Transmission Corporation Ltd., Janpath, Bhubaneswar - 751022.
- 4) Director (Commercial), GRIDCO Ltd., Janpath, Bhubaneswar-751022.
- 5) Executive Director (Commercial), Damodar Valley Corporation, DVC Tower, VIP Road, Kolkata-700054.
- 6) Principal Chief Engineer (HQ), Energy & Power Dept., Govt. of Sikkim, Kazi Road, Gangtok-737101
- 7) Director (Projects), Bihar State Power Transmission Company Ltd., Vidyut Bhavan , Bailey Road, Patna-800021.
- 8) Chief Engineer, Trans (O&M), Jharkhand Urja Sancharan Nigam Limited (JUSNL), Engineering Building, HEC, Dhurwa, Ranchi-834004.
- 9) General Manager, ERLDC, 14, Golf Club Road, Kolkata -700 033.
- 10) Executive Director (CS & SO), CESC Ltd, CESC House, 1 Chowringhee Square, Kolkata-700001.



**West Bengal State Electricity Transmission Company Limited***(A Government of West Bengal Enterprise)*CIN: U40109WB2007SGCIN3474; Website: [www.wbsetcl.in](http://www.wbsetcl.in); Phone / Fax No. (033) 2334 9020  
Registered Office : Vidyut Bhawan, Block-DJ, Sector-II, Bidhannagar, Kolkata - 700 091**OFFICE OF THE CHIEF ENGINEER  
STATE LOAD DESPATCH CENTRE**

Date:- 26.04.2016

Memo No. SLDC/HOW/18/ 128.

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

**Sub: Modification of UFRs installed at WBSETCL sub-stations**


Dear Sir,

As Kalyani and Dharampur S/S are included in the proposed islanding scheme of Bandel Thermal Power Stn., 33kv feeders of KLY(around 47MW) and Dharampur(around 65MW) tripping due to operation of UFR relay at 49.2Hz. are to be kept off. Instead, 33kv feeders emanated from Kakdwip and Lakshmikantapur S/S will be included for tripping due to operation of UFR at 49.2Hz.

You are is requested to concur. Thanking you,

Encl: 1no.

Yours faithfully,

  
(S. Roy)Chief Engineer(Off)  
SLDC, WBSETCL

MAXIMUM LOAD RECORDED IN MARCH'2016

Lakshmikantapur 220kv S/S					Kakdwip S/S				
Sl.no.	Name of 33kv fdr.	Day Peak	Evening Peak	Average	Sl.no.	Name of 33kv fdr.	Day Peak	Evening Peak	Average
1	BELIACHANDI	12.8	18.6	15.6	1	KAKDWIP 1	12.8	18.3	15.5
2	DEULA	7.5	16.5	12	2	KAKDWIP2	5.8	8.5	7.15
3	JAYNAGAR1	10.5	15.7	13.1	3	KULPI1	10.6	17.4	11.7
4	JAYNAGAR2	10	16	13	4	KULPI2	9.8	14.3	12.05
5	PATHARPRATIMA	12	18	15	5	RUDRANAGAR1	1.8	3	2.4
6	JAMTALA UTTAR	2.7	6.6	4.6	6	RUDRANAGAR2	1.8	3	2.4
7	LAKHSHMINARAYANPUR	2.8	6.6	4.7					
	TOTAL	58.3	98	78		TOTAL	42.6	64.5	51.2

Final  
26.04.16



Central Electricity Authority  
केन्द्रीय विद्युत प्राधिकरण  
Renewable Energy Source Development Division  
नवीकरणीय ऊर्जा उद्भव विकास प्रभाग

**Subject: Installed Capacity Details of Renewable Energy Sources-reg.**

RES Development Division, CEA has been receiving monthly generation details and installed capacity of Renewable Energy Sources from respective SLDCs and other authorized agencies. It has been found that there are some discrepancies in the installed capacity of respective states as received by CEA and those received by MNRE. The details are tabulated below :

(As on 31.12.2015)

**For Small Hydro Power:**

Sl. No.	State	Data furnished to MNRE (MW)	Data furnished to CEA (MW)
1	Andaman and Nicobar	5.25	5.25
2	Bihar	70.70	54.00
3	Jharkhand	4.05	Data not being furnished
4	Orissa	64.63	57.00
5	Sikkim	52.11	37.20
6	West Bengal	98.5	Data not being furnished

**For Solar Power:**

Sl. No.	State	Data furnished to MNRE (MW)	Data furnished to CEA (MW)
1	Andaman and Nicobar	5.10	5.00
2	Bihar	----	10.00
3	Jharkhand	16.00	Data not being furnished
4	Orissa	66.92	108.00
5	Sikkim	----	----
6	West Bengal	7.21	Data not being furnished

**For Biomass/Bagasse/Cogen:**

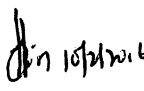
Sl. No.	State	Data furnished to MNRE (MW)	Data furnished to CEA (MW)		
		BM Power/Cogen	Biomass	Bagasse	Total
1	Andaman and Nicobar	----	----	----	
2	Bihar	43.42	4.00	92.5	96.5
3	Jharkhand	----	Data not being furnished	Data not being furnished	Data not being furnished

4	Orissa	20.00	20.00	----	20.00
5	Sikkim	----	----	----	----
6	West Bengal	26.00	Data not being furnished	Data not being furnished	Data not being furnished

**Note:** MNRE Data is classified as BM Power/Cogen under same column whereas RES Division receives Data classified as Biomass and Bagasse in different Columns.

\* Jharkhand, Sikkim, Bihar and West Bengal are not providing details in the desired format. Format is being attached with this letter.

It is requested that the above details may be reconciled/confirmed so as to eliminate the discrepancies in the data being furnished to MNRE and CEA. This is essentially required to furnish correct figures for Parliament Questions and to Central Government Ministries/Department.

  
Hemant Jain  
Director (RES Dev. )

All SLDCs of Eastern Region  
No. CEA/Plg/RES-7/2015/

Date: 10.02.2016

Copy for kind information and perusal to Member Secretary, ERPC



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

1. State/Centre :

2. Month :

3. Year :

[illegible]





भारत सरकार  
विद्युत मंत्रालय  
केंद्रीय विद्युत प्राधिकरण  
ग्रिड प्रबंधन प्रभाग



सेवा भवन, आर. के. पुरम, नई दिल्ली - 110066

(ISO 9001:2008)

वैबसाइट / Website: [www.cea.nic.in](http://www.cea.nic.in)

**Subject: - Reference from MNRE regarding compilation of data for meeting renewable energy targets of 175GW by 2020.**

Reference is invited to MoP letter no. 23/2/2005-R&R(Vol-XI), dated 22/03/2016 enclosing therewith MNRE letter dated 02/03/2016, on the above cited subject (copies enclosed).

In this regard, it is requested that concerned State Utilities/ Generating companies in the region may please be asked to submit their data. Data as received, may please be forwarded to GM Division for compilation.

Encl-As above

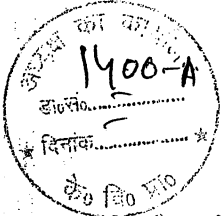
*Vijay Menghani*  
29.3.16  
(Vijay Menghani)  
Director

Member Secretary(NRPC/WRPC/SRPC/ERPC/NERPC)

No: 1/AI/MRP/GM-2016 474-83 Date: 29/03/2016

No. 23/2/2005-R&R (Vol-XI)  
Government of India  
Ministry of Power  
\*\*\*

Shram Shakti Bhawan, Rafi Marg,  
New Delhi, 22<sup>nd</sup> March, 2016



To

1. Chairperson, CEA, Sewa Bhawan, R.K. Puram, New Delhi.
2. Secretary, CERC/FOR, Chanderlok Building, Janpath, New Delhi.

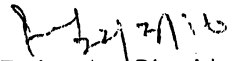
Subject: Reference from MNRE regarding compilation of data for meeting renewable energy targets of 175 GW by 2020.

Sir/Madam,

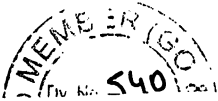
I am directed to forward herewith a copy of MNRE D.O. letter No. 11/7/2013-EFM dated 2.3.2016 regarding compilation of data for meeting renewable energy targets of 175 GW by 2020 for necessary action.

Encl: As above

Yours faithfully.

  
(Rajendra Singh)

Under Secretary to the Government of India  
Tel: 2373 0265





सत्यमेव जयते

वर्षा जोशी, आई.ए.एस.  
संयुक्त सचिव

Varsha Joshi, IAS  
Joint Secretary

भारत सरकार  
नवीन और नवीकरणीय ऊर्जा मंत्रालय  
Government of India  
Ministry of New and Renewable Energy

D.O. No. 11/7/2013-EFM

Dated: 23.2.2016

India has announced a very ambitious renewable energy capacity target of 175 GW by 2020. For achieving the 175 GW target, apart from focus on actual deployment of RE equipment on ground, we need to focus on various policy measures and R&D development in new areas. For translating Hon'ble Prime Minister's vision on renewable energy into reality, host of measures are required to be undertaken apart from the measures recently announced in National Tariff Policy.

2. One such measure include examining balancing potential available to handle the today's RE generation and even higher shares of RE generation and by 2022. Role of quality forecasting in efficient balancing is being taken care of in preparation of REMCs DPRs for the RE rich States. Further, States have started coming up with forecasting and scheduling regulations; so far Rajasthan, Madhya Pradesh, Karnataka and Tamil Nadu have done this. The compilation of data on the following items will help in taking measures how to utilize the regional and national potential of balancing and how to distribute the effort of RE integration within all States, and may kindly be considered early.

- Data on the technical capacities of power plants such as minimum load, rate of change of generation, start up time and down time, minimum standstill time, State-wise and region-wise are important for knowing critically the quantity of available balancing potential at any given time. Regional balancing potential needs to be tapped in order to enhance integration of RE.
  - Thermal balancing potential of RE rich States today and up to 2020 (region-wise also).
  - Theoretical hydro balancing potential of States today and up to 2020 (region-wise also).
  - Pumped hydro projects capabilities today and up to 2020 (region-wise also).
  - Forecasting and scheduling regulations by States (apart from four States mentioned above).
3. Balancing potential availability region-wise would ensure large scale integration of RE.

Yours sincerely,  
Sd/-

[Varsha Joshi]

Ms. Jyoti Arora  
Joint Secretary (Power)  
Rafi Marg, Sansad Marg Area  
New Delhi, Delhi 110001

Copy to: Shri P.K. Pujari, Secretary, Ministry of Power, Shram Shakti Marg, New Delhi

O/o SECY. (P)

Dy. No. 142128/EE

Date: 14/3/16

[Varsha Joshi]  
Joint Secretary

असत्य ऊर्जा से देश विकास

ब्लॉक नं. 14, केन्द्रीय कार्यालय परिसर, लोदी रोड, नई दिल्ली 110003  
Block No. 14, CGO Complex, Lodi Road, New Delhi 110 003  
Tel. : 011-24361027 Fax : 011-24367413 Email : varsha.joshi@nic.in

गांव गांव विजली, घर घर प्रकाश.



# Dynamic data of Generator Models required in PSSE for Simulations

- Data received from
  - NTPC Kahalgaon & Barh, Farakka, TTPS
  - NHPC Teesta-V,
  - WBPDC, CESC
  - GMR, JITPL, MPL and Vedanta Ltd.
  - OHPC
    - Balimela, Chiplima
  - IMFA CPP Odisha
- Data not received from
  - NTPC TSTPS, Kanti TPS
  - NHPC Rangit
  - DVC, JUVNL, OPGC
  - OHPC
    - Indarvati, Rengali, U. Kolab, Burla
  - Adunik TPS, Vedanta (135 MW units)

**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	No	EL will be restored by March, 2015.
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	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	
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 100<sup>th</sup> 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.
  - 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 25<sup>th</sup> 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.

### Pollution Mapping Status

Name of Contract: **Pollution Mapping of Eastern Region**

NOA No: CC-CS/479-ER1/MISC-2482/3/G4/CA/4886 dated 26.02.2014

AGENCY: **M/s CPRI Bangalore**

Contract Value: **28.40 Lac**

Utility	Scope	Installed Locations	no. of locations where the results for 1st set of Measurements submitted	no. of locations where the results for 2nd set of Measurements submitted
JUSNL	67	27	17	17
BSPTCL	59	52	8#	0
WBSETCL	73	68	43	0
OPTCL	164	102	100	42
Sikkim Power	12	9	6	6
POWERGRID ER1	99	99	47*	0
POWERGRID ER2	40	40	40	33
POWERGRID ODISHA	42	42	42	41

Critical issues –

**#BSPTCL** have informed in 118<sup>th</sup> OCC meeting that they have completed 1<sup>st</sup> set of measurement for 45 locations, However data submitted for only 8 locations.

**JUSNL** have completed first set measurement for 17no of locations only out of 67 identified locations.

**\*POWERGRID ER1** have informed in 118<sup>th</sup> OCC meeting that they have completed 1<sup>st</sup> set of measurement for all 99 locations identified, however data submitted for only 47 locations. Balance locations were forwarded to them through mail (enclosed).

Schedule for upcoming measurements:

3 <sup>rd</sup> set	4 <sup>th</sup> set	5 <sup>th</sup> set	6 <sup>th</sup> set
21 <sup>st</sup> -31 <sup>st</sup> May 2016	21 <sup>st</sup> -30 <sup>th</sup> Sep 2016	21 <sup>st</sup> -31 <sup>st</sup> Jan 2017	21 <sup>st</sup> -31 <sup>st</sup> May 2017

## Annexure-B39

### Mock Black start exercises in Eastern Region – tentative schedule

Program for conducting black start exercise in 2016-17

Sl no	Name of Hydro Station	Schedule	Actual	Schedule	Actual	Remarks
		Test-I		Test-II		
1	U.Kolab	Last week of May, 2016		Last Week of January 2017		
2	Maithon	1 <sup>st</sup> week of June 2016		1 <sup>st</sup> Week of February 2017		To be tested with load in islanded mode
3	Rengali	2 <sup>nd</sup> week of June 2016		Last week of November 2016		
4	U. Indarvati	3 <sup>rd</sup> week of June 2016		2 <sup>nd</sup> week of February 2017		
5	Subarnarekha	1 <sup>st</sup> week of October 2016		1 <sup>st</sup> week of January 2017		
6	Balimela	3 <sup>rd</sup> week of October 2016		1 <sup>st</sup> week of March 2017		
7	Teesta-V	2 <sup>nd</sup> week of November 2014		Last week of February 2017		
8	Chuzachen	Last Week of May 2016		January 2017		
9	Burla	Last Week of June 2016		Last week of February 2017		
<b>10</b>	<b>TLDP-III</b>	<b>1<sup>st</sup> Week of June 2016</b>		<b>2<sup>nd</sup> Week of January 2017</b>		<b>Added this year</b>
<b>11</b>	<b>TLDP-IV</b>	<b>Last Week of June 2016</b>		<b>1<sup>st</sup> Week of February 2017</b>		<b>Added this year</b>

**Annexure- C.1**
**Approved Maintenance Schedule of Thermal Generating Units of ER for May-2016**

System	Station	Unit	Size (MW)	period		No. of Days	Reason
				From	To		
NTPC	FSTPS	1	200	27.05.16	10.07.16	45	Boiler+ESP R&M+HP-IP-LPT+Gen
	*KhSTPS	5	500	01.05.16	30.05.16	30	Boiler+PAPH-5B Turnion Shat Replacement

\* OCC deferred the shutdown till Farakka units available for generation

**EASTERN REGIONAL LOAD DESPATCH CENTRE  
KOLKATA**

**TRANSMISSION ELEMENTS OUTAGE APPROVED IN 120TH 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	765 KV SIDE MAIN BAY OF 765/400 KV 1500 MVA ICT AT SSRM	29/04/2016	09:30	29/04/2016	17:30	ODB	ER-I	AMP WORK.765 KV B/R WILL NOT BE IN SERVICE DURING S/D.	NLDC
2	400 KV BUS -2 AT CHAIBASA	29/04/2016	09:00	29/04/2016	17:00	ODB	ER-I	FOR CONNECTION OF JUMPER FOR BUS EXTENSION FOR CHAIBASA-KHARAGPUR LINE AND STABILITY TESTING OF CHAIBASA - KHARAGPUR BAYS.	
3	160MVA ICT-2 AT PRN	29/04/2016	09:00	29/04/2016	17:00	ODB	ER-I	For Tertiary bay connection work	BIHAR
4	Bay. No-407, Main bay of Berhampore-Sagardighi ckt-I Feeder	29/04/2016	09.00Hrs	29/04/2016	17.00Hrs	ODB	ER-II/KOL	AMP work	
5	400 KV BUS-II AT FARAKKA	29/04/2016	08:00	29/04/2016	17:00	ODB	ER-II/KOL	FOR REMOVAL OF BUS JUMPER FROM 1289A ISOLATOR	
6	50MVAR B/R-1 AT BSF	29/04/2016	08:00	29/04/2016	17:00	ODB	ER-I	FOR AMP WORK	
7	220 kV NPRN-PRN#1 line	29/04/2016	09:00	29/04/2016	17:00	ODB	ER-I	Bay AMP work.	
8	MAIN BAY OF 125MVAR B/R-2 AT NPRN	29/04/2016	10:00	29/04/2016	18:00	ODB	ER-I	FOR BAY AMP WORK	
9	Bay. No-408, Tie Bay of Berhampore-Sagardighi ckt-I Feeder	29/04/2016	09.00Hrs	29/04/2016	17.00Hrs	ODB	ER-II/KOL	AMP work	
10	220 KV Farakka - Lalmatia TL and 315 MVA ICT	29/04/2016	8:00 HRS	30/04/2016	18:00 HRS	ODB	ER-II/KOL	1) For erection of 220 KV side equipment's of 2nd ICT at Farakka. S/D required for avoiding huge induction. 2) Bay no- 12 is to be isolated for erection of upgraded equipments (3150 A rating) at Bay no-12. 3) Replacement of strung BUS with HTLS conductor for bay no-12	JHARKHAND
11	315 MVA ICT#2 New Siliguri	29/04/2016	9.00 hrs	29/04/2016	17.00 hrs	ODB	ER-II/KOL	Repeat tan delta of 33kV B Phase Bushing	
12	132KV SLG- MELLI LINE	29/04/2016	06.00 Hrs	01/05/2016	17.00 Hrs	OCB	ER-II/KOL	GIS WORK	SIKKIM
13	220 kV Bakereshwar – Gokarna TL	29/04/2016	06:00	30/04/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
14	160MVA ICT-1 AT PRN	30/04/2016	09:00	30/04/2016	17:00	ODB	ER-I	For Tertiary bay connection work	BIHAR
15	132 KV PRN(PG)- PRN(BSPTCL)#3 LINE	30/04/2016	09:00	01/05/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus section which is above BSPTCL -3& ICT-1 bay FOR Construction of GIS Bus duct & SF6 to air bushing foundation.	BIHAR
16	MAIN BAY OF B/R AT CHAIBASA	30/04/2016	09:00	30/04/2016	17:00	ODB	ER-I	REPLACEMENT OF DEFECTIVE CSD CARD.	
17	132 KV PRN(PG)-KISHANGANJ LINE	30/04/2016	09:00	30/04/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus section which is above KISHANGANJ & ICT #2 bay FOR Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
18	MAIN BAY OF 125MVAR B/R-1 AT NPRN	30/04/2016	10:00	30/04/2016	18:00	ODB	ER-I	FOR BAY AMP WORK	
19	220kV NSLG-BRP Ckt-I & II	30/04/2016	9.00 hrs	08/05/2016	17.00 hrs	OCB	ER-II/KOL	Tower shifting due to doubling of rail track	NLDC
20	New Siliguri - BNG-III L/R	30/04/2016	9.00 hrs	30/04/2016	17.00 hrs	ODB	ER-II/KOL	Repeat tan delta of 400kV B Phase Bushing	NLDC
21	400KV MAIN BUS-II	30/04/2016	07:00	30/04/2016	18:00	ODB	ER-II/OR	HV TEST OF MAIN BUS-II OF GIS	
22	SEL-II Main Bay (Bay No.- 427) at Rourkela	30/04/2016	09:00	30/04/2016	18:00	ODB	ER-II/OR	AMP work	
23	(220KV ICT-II LV) 208 Bay , Bolangir	30/04/2016	09:00	30/04/2016	18:00	ODB	ER-II/OR	AMP Work	
24	New Siliguri-Tala-4 Main Bay	30/04/2016	9.00 hrs	30/04/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
25	315 MVA ICT- 2 AT BSF	30/04/2016	10:00	10/05/2016	18:00	OCB	ER-I	BUS SPLITTING WORK AT BIHARSARIEFF	BIHAR
26	125 MVAR B/R - 3 AT BSF	30/04/2016	10:00	10/05/2016	18:00	OCB	ER-I	BUS SPLITTING WORK AT BIHARSARIEFF	
27	400 KV BIHARSARIEFF - SASRAM - I	30/04/2016	10:00	10/05/2016	18:00	OCB	ER-I	BUS SPLITTING WORK AT BIHARSARIEFF	
28	50 MVAR B/R - I AT BSF	30/04/2016	10:00	10/05/2016	18:00	OCB	ER-I	BUS SPLITTING WORK AT BIHARSARIEFF	



29	400 KV BUS - II AT BSF	30/04/2016	08:00	30/04/2016	11:00	OCB	ER-I	BUS SPLITTING WORK AT BIHARSARIFF	
30	400 KV BUS - I AT BSF	30/04/2016	12:00	30/04/2016	18:00	OCB	ER-I	BUS SPLITTING WORK AT BIHARSARIFF	
31	HALF MAIN BUS - I AT BSF	30/04/2016	10:00	10/05/2016	18:00	OCB	ER-I	BUS SPLITTING WORK AT BIHARSARIFF	
32	Bay. No-401, Main Bay of Berhampore-Bheramara Ckt-II Line	01/05/2016	08.00Hrs	01/05/2016	11.00Hrs	ODB	ER-II/KOL	Carry out Tandelta of CTs	
33	Bay. No-404, Main Bay of Berhampore-Bheramara Ckt-I Line	01/05/2016	12.00 Hrs	01/05/2016	16.00Hrs	ODB	ER-II/KOL	Carry out Tandelta of CTs	
34	132 KV TRANSFER BUS AT PRN	01/05/2016	09:00	_____		PERMANENT	ER-I	PERMANET REMOVAL OF TRANSFER BUS IS REQUIRED FOR GIS BUILDING AND ASSOCIATED CIVIL WORK	BIHAR
35	A/R OF 220KV RNC-CHANDIL -1 AND 2	01/05/2016	10:00	02/05/2016	17:00	ODB	ER-I	RECTIFICATION OF MISC. DEFECT OF OPGW INSTALLATION WORK	
36	A/R OF 400 KV RNC-MAITHON	01/05/2016	10:00	25/05/2016	17:00	ODB	ER-I	RECTIFICATION OF MISC. DEFECT OF OPGW INSTALLATION WORK	
37	A/R OF 400KV KAHALGAON - MAITHAN - 2	01/05/2016	07:00	31/05/2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	
38	A/R OF 400KV KAHALGAON - BARH - 2	01/05/2016	07:00	31/05/2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	EITHER 400KV KAHALGAON - BARH - 2/ BSF-BANKA - 2/BSF-MZF - I ONE OUTAGE SHALL BE ALLOWED.
39	A/R OF 400KV BSF-BANKA-2	01/05/2016	07:00	31/05/2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	EITHER 400KV KAHALGAON - BARH - 2/ BSF-BANKA - 2/BSF-MZF - I ONE OUTAGE SHALL BE ALLOWED.
40	A/R OF 400KV BSF-MUZ-1	01/05/2016	07:00	31/05/2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	EITHER 400KV KAHALGAON - BARH - 2/ BSF-BANKA - 2/BSF-MZF - I ONE OUTAGE SHALL BE ALLOWED.
41	400 KV JSR - BARIPADA	01/05/2016	07:00	04/05/2016	18:00	ODB	ER-I	FOR BALANCE OPGW INSTALLATION WORK	
42	160 MVA ICT-2 AT PRN	01/05/2016	09:00	01/05/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus section which is above KISHANGANJ & ICT #2 bay FOR Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
43	New Siliguri-BNG-IV L/R	01/05/2016	9.00 hrs	01/05/2016	17.00 hrs	ODB	ER-II/KOL	Repeat capacitance of 400kV Y Phase Bushing	NLDC
44	400kV New Siliguri-Tala-I L/R	01/05/2016	9.00 hrs	04/05/2016	17.00 hrs	OCB	ER-II/KOL	Repeat tan delta of 400kV R Phase Bushing & Neutral Bushing Replacement	NLDC
45	315MVA ICT#2 New Siliguri Main Bay	01/05/2016	9.00 hrs	01/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
46	132KV SLG- KURSEONG LINE	01/05/2016	06.00 Hrs	03/05/2016	17.00 Hrs	OCB	ER-II/KOL	GIS WORK	WBSETCL
47	132 kV Gokarna - Kuli - Sainthia TL	01/05/2016	06:00	02/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
48	400 KV BUS -1 AT CHAIBASA	02/05/2016	09:00	03/05/2016	17:00	ODB	ER-I	FOR CONNECTION OF JUMPER FOR BUS EXTENSION FOR CHAIBASA-KHARAGPUR LINE AND STABILITY TESTING OF CHAIBASA - KHARAGPUR BAYS.	
49	TIE BAY BETWEEN 400KV LAKHISARAI-KHLG-2 & 80MVAR B/R AT LAKHISARAI	02/05/2016	10:00	02/05/2016	14:00	ODB	ER-I	FOR AMP WORK	
50	400 KV MAIN BUS -1 AT BANKA	02/05/2016	10:00	02/05/2016	17:00	ODB	ER-I	AMP WORK	
51	400KV BSF-NPRN-1 & 2	02/05/2016	08:00	14/05/2016	18:00	OCB	ER-I	FOR CONSTRUCTION OF BAYS SWAPPING OF LINE AT BSF	NLDC
52	400KV BSF-NPRN-1	02/05/2016	10:00	02/05/2016	18:00	ODB	ER-I	CONSTRUCTION WORK RELATED TO SPLIT BUS ARRANGEMENT AT BSF	NLDC
53	400KV RNC-MTN(RB)-1	02/05/2016	10:00	02/05/2016	17:00	ODB	ER-I	FOR REPLACEMENT OF FLASHED OVER INSULATOR AT LOC NO 529	
54	132 KV PRN(PG)-KISHANGANJ LINE	02/05/2016	09:00	04/05/2016	17:00	ODB	ER-I	FOR Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
55	TIE BAY BETWEEN 125MVAR B/R-2 & 400KV NPRN-MALADA-1 AT NPRN	02/05/2016	10:00	02/05/2016	18:00	ODB	ER-I	FOR BAY AMP WORK	
56	63 MVAR Tala-4 L/R New Siliguri	02/05/2016	9.00 hrs	02/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP L/R	
57	New Siliguri-Rangpo-1 Main Bay	02/05/2016	9.00 hrs	02/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
58	220 KV MTN-DHANBAD-I	02/05/2016	09:00	02/05/2016	17:00	ODB	ER-II/KOL	AMP Works.	DVC
59	400KV RANGPO- NSLG, CKT-1	02/05/2016	09:30	02/05/2016	17:30	ODB	ER-II/KOL	AMP Work	

60	132 KV D/C Satgachia - Kalna T/L of WBSETCL (T.No. 68-69)	02/05/2016	06:00	02/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
61	220kV D/C Jeerat -newtown Tr line of WBSETCL (T No. 110 - 111)	02/05/2016	06:00	03/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
62	132 kV Gokarna - Kuli - LILO TL	02/05/2016	06:00	03/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
63	220KV BUS-I at Baripada	02/05/2016	07:00	02/05/2016	17:00	ODB	ER-II/OR	CONNECTION FROM EXISTING BUS TO NEW BUS	OPTCL
64	765kV ICT-1 Sundergarh-2 Tie Bay (705) at Angul	02/05/2016	09:00	02/05/2016	17:00	ODB	ER-II/OR	AMP works, No Outage	NLDC
65	ICT-II Main Bay (418) at Jeypore	02/05/2016	09:00	02/05/2016	17:00	ODB	ER-II/OR	For AMP works	OPTCL
66	400/220kV 315MVA ICT-II at Rengali	02/05/2016	09:00	08/05/2016	17:00	OCB	ER-II/OR	Overhauling of 315MVA ICT-II	
67	Ranchi-I Main Bay (Bay No.-428) at Rourkela	02/05/2016	09:00	02/05/2016	18:00	ODB	ER-II/OR	AMP work	
68	(220KV line -4) 209 Bay , Bolangir	02/05/2016	09:00	02/05/2016	18:00	ODB	ER-II/OR	AMP Work	
69	400kV BUS REACTOR-1 at Sundergarh	02/05/2016	07:00	02/05/2016	17:00	ODB	ER-II/OR	Conducting reactor bushing tandelta measurement at variable frequency	
70	400 KV IBEUL - RAIGARH	02/05/2016	08:00	04/05/2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	NLDC
71	Bay. No-402, Tie Bay of Berhampore-Bheramara ckt-II Feeder	03/05/2016	08.00Hrs	03/05/2016	13.00Hrs	ODB	ER-II/KOL	Carry out Tandelta of CTs	
72	Bay. No-405, Tie Bay of Berhampore-Bheramara ckt-I Feeder	03/05/2016	14.00Hrs	03/05/2016	17.00Hrs	ODB	ER-II/KOL	Carry out Tandelta of CTs	
73	125MVAR B/R-3 AT BSF	03/05/2016	08:00	03/05/2016	17:00	ODB	ER-I	FOR AMP WORK	
74	A/R OF 220KV RNC- HATIA - 1 AND 2	03/05/2016	10:00	04/05/2016	17:00	ODB	ER-I	RECTIFICATION OF MISC. DEFECT OF OPGW INSTALLATION WORK	
75	400KV GAYA-MAITHON-1	03/05/2016	09:00	03/05/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANT IN MULTI CKT	NLDC
76	400KV GAYA-KODERMA-2	03/05/2016	09:00	03/05/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANT IN MULTI CKT	NLDC
77	315 MVA ICT-2 AT CHAIBASA	03/05/2016	09:00	03/05/2016	17:00	ODB	ER-I	AMP WORK.	
78	TIE BAY BETWEEN 400KV NPRN-BSF-1 & FUTURE AT NPRN	03/05/2016	10:00	03/05/2016	18:00	ODB	ER-I	FOR BAY AMP WORK	
79	315 MVA ICT-1 AT BSF	03/05/2016	07:00	03/05/2016	18:00	ODB	ER-I	FOR ERECTION OF CB & CT FOR SPLIT BUS ERECTION	BIHAR
80	400 KV BSF - LAKHISRAI -2	03/05/2016	07:00	03/05/2016	18:00	ODB	ER-I	FOR ERECTION OF CB & CT FOR SPLIT BUS ERECTION	NLDC
81	220 KV Dalkhola-Kisanganj -I	03/05/2016	08:00	03/05/2016	17:00	ODB	ER-II/KOL	AMP works	
82	315 MVA ICT#1 DURGAPUR	03/05/2016	10:00	16/05/2016	18:00	OCB	ER-II/KOL	Replacement of ICT#1	DVC
83	315 MVA ICT#1 DURGAPUR	03/05/2016	11:00	03/06/2016	12:00	ODB	ER-II/KOL	CB Retrofitting-trasfer load to transfer bus & protection testing	DVC
84	125MVAR Bus reactor New Siliguri Main Bay	03/05/2016	9.00 hrs	03/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
85	400 KV MEJIA-JAMSHEDPUR LINE	03/05/2016	09:00	11/05/2016	17:00	ODB	ER-II/KOL	Insulator Replacement in Major crossings and PID	DVC
86	220 KV STPS -ASANSOL & STPS-DURGAPUR	03/05/2016	09:00	03/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	WBSETCL
87	400 KV MLD-PRN-II	03/05/2016	08:00 hrs	03/05/2016	17.00 hrs	ODB	ER-II/KOL	Insulator replacement	
88	400KV RANGPO- NSLG, CKT-2	03/05/2016	09:30	03/05/2016	17:30	ODB	ER-II/KOL	AMP Work	
89	220KV BUS-II at Baripada	03/05/2016	07:00	03/05/2016	17:00	ODB	ER-II/OR	CONNECTION FROM EXISTING BUS TO NEW BUS	OPTCL
90	765kV Angul Sundergarh Line-2 Main Bay (706) at Angul	03/05/2016	09:00	03/05/2016	17:00	ODB	ER-II/OR	AMP works, No Outage	NLDC
91	Sundargarh-II & Ranchi-I Tie Bay (Bay No.- 429) at Rourkela	03/05/2016	09:00	03/05/2016	18:00	ODB	ER-II/OR	AMP work	
92	Both 400kV Angul-Talcher CKT & 400kV Talcher-Meramundali CKT-I	03/05/2016	08:00	05/05/2016	18:00	OCB	ER-II/OR	For diversion of 400kV Talcher-Meramundali D/C Line inside GMR, Kamlanga Thermal POWER Plant as intimated by M/s GMR vide their letter ref. No.: GKEL/PGCIL/2015-16/5706 Dtd: 23.03.2016(Copy Enclosed). Detail working plan from 03.05.2016 to 05.05.2016 enclosed to their letter at Annex-I. It may please be noted that the subject diversion arrangement is being done by M/s GMR, Kamlanga under consultancy service from POWERGRID.	DEFERRED TO JUNE AS REQUESTED BY gmr WHO WILL EXECUTE THE WORK/ GMR/JITPL GENERATION MEY BE REVISED SUBJECT TO SYSTEM CONDITION

93	400 KV Kh-Barh Line#1	03/05/2016	09:30hrs	03/05/2016	17:30 hrs	ODB	NTPC	PM works & relay testing.	
94	400kV Talcher - Rengali Ckt-I	03/05/2016	07:00:00	04/05/2016	18:00:00	ODB	ER-II/OR	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing etc.	
95	132 KV Hatia-Kamdara line	03/05/2016	06:00	04/05/2016	06:00	ODB	PKTCL	Crossings of 400 KV PURULIA-RANCHI D/C	JHARKHAND
96	MAIN BAY OF 765 KV SSRM- FTP LINE AT SSRM	04/05/2016	09:30	04/05/2016	17:30	ODB	ER-I	AMP WORK	
97	Bay. No-403, Main Bay of Berhampore-Jeerat Line	04/05/2016	08.00Hrs	04/05/2016	12.00Hrs	ODB	ER-II/KOL	Carry out Tandelta of CTs	
98	TIE BAY BETWEEN 400KV LAKHISARAI-BSF-1 & 200MVA ICT-1 AT LAKHISARAI	04/05/2016	10:00	04/05/2016	14:00	ODB	ER-I	FOR AMP WORK	
99	400KV BUS-1 AT BSF	04/05/2016	08:00	14/05/2016	18:00	OCB	ER-I	CONSTRUCTION WORK RELATED TO SPLIT BUS ARRANGEMENT AT BSF	
100	400KV BUS-2 AT BSF	04/05/2016	08:00	15/05/2016	18:00	OCB	ER-I	CONSTRUCTION WORK RELATED TO SPLIT BUS ARRANGEMENT AT BSF	
101	TIE BAY BETWEEN 400KV NPRN-BSF-2 & FUTURE AT NPRN	04/05/2016	10:00	04/05/2016	18:00	ODB	ER-I	FOR BAY AMP WORK	
102	MAIN BAY OF 400KV LKR-BSF-1 AT LAKHISARAI	04/05/2016	10:00	04/05/2016	11:00	ODB	ER-I	FOR REPLACEMENT OF SPRING CHARGING SWITCH AS PER MOM WITH M/S SIEMENS	
103	TIE BAY OF 400KV LKR-BSF-1& 200MVA ICT-1 AT LAKHISARAI	04/05/2016	11:15	04/05/2016	12:15	ODB	ER-I	FOR REPLACEMENT OF SPRING CHARGING SWITCH AS PER MOM WITH M/S SIEMENS	
104	MAIN BAY OF 200MVA ICT-2 AT LAKHISARAI	04/05/2016	12:30	04/05/2016	13:30	ODB	ER-I	FOR REPLACEMENT OF SPRING CHARGING SWITCH AS PER MOM WITH M/S SIEMENS	
105	TIE BAY OF 400KV LKR-KHLG- 2 & 80MVAR B/R AT LAKHISARAI	04/05/2016	14:00	04/05/2016	15:00	ODB	ER-I	FOR REPLACEMENT OF SPRING CHARGING SWITCH AS PER MOM WITH M/S SIEMENS	
106	MAIN BAY OF 400KV LKR-KHLG-1 AT LAKHISARAI	04/05/2016	15:30	04/05/2016	16:30	ODB	ER-I	FOR REPLACEMENT OF SPRING CHARGING SWITCH AS PER MOM WITH M/S SIEMENS	
107	220 KV Dalkhola-Malda -II	04/05/2016	08:00	04/05/2016	16:00	ODB	ER-II/KOL	AMP works	
108	132kV Kurseong - Rangit	04/05/2016	9.00 hrs	04/05/2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	WBSETCL
109	New Siliguri-Bongaigaon-3 L/R Bay	04/05/2016	9.00 hrs	04/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
110	220 KV MTN-DHANBAD-II	04/05/2016	09:00	04/05/2016	17:00	ODB	ER-II/KOL	AMP Works.	DVC
111	132 KV RAMKANALI-JAMURIA & CTPS-DTPS	04/05/2016	09:00	04/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	WBSETCL
112	220 KV STPS-HURA & STPS- BISHNUPUR	04/05/2016	09:00	04/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	WBSETCL
113	220 KV BRP- Malbase	04/05/2016	09:00	04/05/2016	17:00	ODB	ER-II/KOL	Flashed Insulator replacement.	NLDC
114	400KV RANGPO- TEESTA-V, CKT-1	04/05/2016	09:30	04/05/2016	17:30	ODB	ER-II/KOL	AMP Work	TEESTA
115	160MVA ICT-1 BAY	04/05/2016	07:00	04/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
116	765kV ICT-4 Main Bay (713) at Angul	04/05/2016	09:00	04/05/2016	17:00	ODB	ER-II/OR	AMP works, No Outage	NLDC
117	Gajuwaka-II Main Bay (413) at Jeypore	04/05/2016	09:00	04/05/2016	17:00	ODB	ER-II/OR	For AMP works	NLDC
118	Indravati-Jeypore Line	04/05/2016	09:00hrs	04/05/2016	18:00hrs	ODB	ER-II/OR	Replacement of Y-phase CVT due to heavy oil leakage from viewing glass.	NLDC
119	Sundargarh-II Main Bay (Bay No.- 430) at Rourkela	04/05/2016	09:00	04/05/2016	18:00	ODB	ER-II/OR	AMP work	
120	400KV BARH-GORAKHPUR-1	05/05/2015	08:00	06/05/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
121	MAIN BAY OF 400KV LAKHISARAI-KHLG-2 AT LAKHISARAI	05/05/2016	10:00	05/05/2016	14:00	ODB	ER-I	FOR AMP WORK	
122	MAIN BAY OF 80MVAR B/R AT LAKHISARAI	05/05/2016	10:00	05/05/2016	14:00	ODB	ER-I	FOR AMP WORK	
123	400 KV MAIN BUS -2 AT BANKA	05/05/2016	10:00	05/05/2016	17:00	ODB	ER-I	AMP WORK	
124	400KV GAYA-MAITHON-2	05/05/2016	09:00	06/05/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANT IN MULTI CKT	NLDC
125	400KV GAYA-KODERMA-1	05/05/2016	09:00	06/05/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANT IN MULTI CKT	NLDC
126	TIE BAY OF 765/400KV 1500 MVA ICT & SSRM-FTP LINEAT SSRM	05/05/2016	09:30	05/05/2016	17:30	ODB	ER-I	AMP WORK. THERE WILL NOT BE POWER FLOW IN 765 KV SSRM- FTP LINE	

127	400 KV KHLG - BARH -2 AND PATNA - BARH -1	05/05/2016	07:00	07/05/2016	19:00	ODB	ER-I	FOR BALANCE OPGW INSTALLATION WORK IN MULTI CKT. PORTION	NLDC
128	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	05/05/2016	09:00	15/05/2016	17:00	OCB	ER-I	FOR NEUTRAL CT REPLACEMENT, TRANSFORMER CABLE REPLACEMENT & OLTC OIL LEAKAGE ARREST WORK	BIHAR
129	160 MVA ICT-2 AT PRN	05/05/2016	09:00	07/05/2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
130	765 KV L/R OF NEW RANC - DMGARH - II LINE AT NRNC	05/05/2016	09:00	07/05/2016	17:00	ODB	ER-I	FOR CSD COMMISSIONING WORK UNDER CONSTRUCTION HEAD	NLDC
131	MAIN BAY OF 400KV NPRN-BSF-2 AT NPRN	05/05/2016	10:00	05/05/2016	18:00	ODB	ER-I	FOR BAY AMP WORK	
132	400KV RNC-NRNC-1,2 & 400KV RNC-SIPAT-1	05/05/2016	10:00	05/05/2016	14:00	ODB	ER-I	FOR DOING BALANCE WORK OF DIAMAOND FORMATION OF THE EARTH WIRE FROM TOWER NO 998 & 999OF 400KV RNC-SIPAT & 400KV RNC-NRNC-1 & 2	
133	315 MVA ICT-III Subhasgram	05/05/2016	09:00Hrs	05/05/2016	17:30 HRS	ODB	ER-II/KOL	Over Current Relay retrofit work	WBSETCL
134	50 MVAR BUS REACTOR-I OF NTPC/FARAKKA	05/05/2016	08:00	10/06/2016	17:00	OCB	ER-II/KOL	DISMANTLING FROM EXISTING PLACE AND REINSTATING AT NEW PLACE.	
135	400kV NSLG-Bangaigaon Ckt-II	05/05/2016	9.00 hrs	05/05/2016	17.00 hrs	ODB	ER-II/KOL	Insulator replacement	NLDC
136	WBSETCL Bus Section-1 New Siliguri	05/05/2016	9.00 hrs	05/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
137	New Siliguri-Purnea-2 Main Bay	05/05/2016	9.00 hrs	05/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
138	132KV SLG-WBSETCL-1	05/05/2016	06.00 Hrs	07/05/2016	17.00 Hrs	OCB	ER-II/KOL	GIS WORK	WBSETCL
139	220 KV MTPS-KALNASWARI LILO	05/05/2016	09:00	05/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	DVC
140	220 KV KALYANSWARI-CTPS LILO	05/05/2016	09:00	05/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	WBSETCL
141	220 KV BRP- CHP-I and II	05/05/2016	08:00	05/05/2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	NLDC
142	220 KV MAIN BUS-II Birpara	05/05/2016	08:00	07/05/2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	WBSETCL
143	400KV RANGPO- TEESTA-V, CKT-2	05/05/2016	09:30	05/05/2016	17:30	ODB	ER-II/KOL	AMP Work	TEESTA
144	160MVA ICT-2 BAY	05/05/2016	07:00	05/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
145	765kV ICT-4 BR-2 Tie Bay (714) at Angul	05/05/2016	09:00	05/05/2016	17:00	ODB	ER-II/OR	AMP works, No Outage	NLDC
146	400KV Bolangir - Angul line at Bolangir	06/05/2016	08:00	08/05/2016	18:00	ODB	ER-II/OR	For replacement of porcelain insulators with Polymer insulator for major crossings.	NLDC
147	400kV Angul - Bolangir	06/05/2016	07:00:00	08/05/2016	18:00:00	ODB	ER-II/OR	For Insulator replacement in River crossing, NH/SH crossing, Raiway crossing etc.	NLDC
148	MAIN BAY OF 400 KV BANKA - KAHALGAON - 1 AT BANKA	06/05/2016	11:00	06/05/2016	15:00	ODB	ER-I	AMP WORK	
149	132 KV MAIN BUS AT BANKA	06/05/2016	11:00	06/05/2016	14:00	ODB	ER-I	AMP WORK(DURING S/D OF SAID BUS POWER FLOW TO ALL 132 LINES WILL BE INTERRUPTED)	BIHAR
150	3*110 MVAR 765 KV BUS REACTOR AT SSRM	06/05/2016	09:30	07/05/2016	17:30	ODB	ER-I	AMP WORK OF R & Y PH REACTOR	NLDC
151	400KV SSRM-ALLAHABAD & 400KV SSRM-SARNATH	06/05/2016	08:00	07/05/2016	18:00	ODB	ER-I	FOR POWERLINE CROSSING WORK OF 400KV D/C QUAD VARANASI-SARNATH LINE. S/D TAKEN BY NR-1.	
152	400 KV Bus Reactor Jeerat	06/05/2016	09:00Hrs	05/06/2016	17:30Hrs	ODB	ER-II/KOL	Bus Reactor CB and Isolator retrofitt work. Dismantling of IPS tube from Bus Reactor to Isolator	
153	400 KV Bus Reactor Main Bay Jeerat	06/05/2016	17:30Hrs	26/05/2016	09:00Hrs	OCB	ER-II/KOL	Bus Reactor CB and Isolator retrofitt work	
154	132kV SLG-Kurseong	06/05/2016	9.00 hrs	06/05/2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	WBSETCL
155	WBSETCL Bus Section-2 New Siliguri	06/05/2016	9.00 hrs	06/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
156	Tie of Purnea-2 & Bongaigaon-4	06/05/2016	9.00 hrs	06/05/2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
157	220KV Maithon - Kalyaneshwari-2 line	06/05/2016	09:00	06/05/2016	17:00	ODB	ER-II/KOL	Alignment adjustment of line isolatorand Insulator replacement	DVC
158	220 KV MTPS-GOLA	06/05/2016	09:00	06/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	DVC
159	220KV HURA-RAGHUNATHPUR I&II	06/05/2016	09:00	06/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	DVC
160	160 MVA 220 /132KV ICT-I and NSLG-I	06/05/2016	08:00	06/05/2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	WBSETCL
161	132 KV RANGPO-CHUZACHEN	06/05/2016	09:30	06/05/2016	17:30	ODB	ER-II/KOL	AMP Work	WBSETCL
162	220 KV Satgachia – Krishnanagar T/L of WBSETCL	06/05/2016	06:00	07/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL

163	220KV SIDE OF 315MVA ICT-1 BAY	06/05/2016	07:00	06/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
164	765kV BR-2 Main Bay (715) at Angul	06/05/2016	09:00	06/05/2016	17:00	ODB	ER-II/OR	AMP works, No Outage	NLDC
165	220 kV Bus Coupler Bay(202) at Jeypore	06/05/2016	09:00	06/05/2016	17:30	ODB	ER-II/OR	For AMP works	
166	400KV Bolangir - Jeypore line at Bolangir	06/05/2016	08:00	07/05/2016	18:00	ODB	ER-II/OR	For replacement of porcelain insulators with Polymer insulator for major crossings.	NLDC
167	400kV BUS REACTOR-2 at Sundergarh	06/05/2016	07:00	06/05/2016	17:00	ODB	ER-II/OR	Conducting reactor bushing tandelta measurement at variable frequency	
168	400 KV IBEUL - JHARSUGUDA	06/05/2016	08:00	08/05/2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	
169	MAIN BAY OF 400 KV BANKA - KAHALGAON - 2 AT BANKA	07/05/2016	11:00	07/05/2016	15:00	ODB	ER-I	AMP WORK	
170	400KV RNC-NRNC-1,2 & 400KV RNC-SIPAT-2	07/05/2016	10:00	07/05/2016	14:00	ODB	ER-I	FOR DOING BALANCE WORK OF DIAMAOND FORMATION OF THE EARTH WIRE FROM TOWER NO 998 & 999OF 400KV RNC-SIPAT & 400KV RNC-NRNC-1 & 2	
171	315 MVA ICT-IV Subhasgram	07/05/2016	09:00Hrs	05/07/2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
172	220kV SLG-Dalkhola Ckt-II	07/05/2016	9.00 hrs	07/05/2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	
173	400kV New Siliguri-Tala-II L/R	07/05/2016	9.00 hrs	07/05/2016	17.00 hrs	ODB	ER-II/KOL	CSD Commissioning	NLDC
174	132KV RAMKANALI -PANCHYET	07/05/2016	09:00	07/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	WBSETCL
175	400KV BARH-GORAKHPUR-2	07/05/2015	08:00	08/05/2015	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANTS	NLDC
176	220 KV STPS -ASANSOL & ASANSOL-DURGAPUR	07/05/2016	09:00	07/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	WBSETCL
177	160 MVA 220/132 KV ICT-II and NSLG-II	07/05/2016	08:00	07/05/2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	WBSETCL
178	132 KV Main BUS Malda	07/05/2016	06:00 hrs	07/05/2016	08:00 hrs	ODB	ER-II/KOL	Isolator retrofitting	WBSETCL
179	220KV Chandil-PGCIL,namkum(Ranchi) line	07/05/2016	06:00	08/05/2016	06:00	ODB	PKTCL	Crossings of 400 KV PURULIA-RANCHI D/C	JHARKHAND
180	200 MVA ICT-1 AT LAKHISARAI	08/05/2016	09:30	08/05/2016	17:30	ODB	ER-I	FOR AMP WORK	BIHAR
181	TIE BAY OF 400 KV BANKA-KAHALGOAN - 2 & FUTURE AT BANKA	08/05/2016	11:00	08/05/2016	15:00	ODB	ER-I	AMP WORK	
182	132 KV PRN(PG)-PRN (BSPTCL#2 LINE	08/05/2016	09:00	08/05/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus which is above TBC & BSEB- 2 bayFOR Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
183	400kV NSLG - TALA-III LINE	08/05/2016	9.00 hrs	18/05/2016	17.00 hrs	OCB	ER-II/KOL	Conductor repairing	NLDC/ NOT ALONGWITH BIRPARA - CHPC D/C SD
184	220kV NSLG-BRP Ckt-I	08/05/2016	9.00 hrs	08/05/2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	
185	400kV New Siliguri-Tala-IV L/R	08/05/2016	9.00 hrs	08/05/2016	17.00 hrs	ODB	ER-II/KOL	CSD Commissioning	NLDC
186	400KV Maithon Gaya-I line	08/05/2016	09:00	08/05/2016	18:00	ODB	ER-II/KOL	Removal of pipe bus required for commencing the retrofitting of 41752 BHEL CB with Alstom CB	
187	132 KV CHANDRAPUR-RAMKANALI & CTPS-DTPS	08/05/2016	09:00	08/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	WBSETCL
188	220KV D/C STPS -DURGAPUR (DIRECT CIRCUIT & VIA CIRCUIT)	08/05/2016	09:00	08/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	DVC
189	400kV Rengali - Indravati	08/05/2016	07:00:00	12/05/2016	18:00:00	ODB	ER-II/OR	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing etc.	NLDC
190	765KV GAYA-BALIA	09/05/2016	09:00	09/05/2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATORS DAMAGED BY MISCREANT	NLDC

191	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	09/05/2016	09:00	09/05/2016	11:00	ODB	ER-I	Dismantling of Transfer Bus which is above TBC & BSEB- 2 bayFOR Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
192	315 MVA ICT#1 DURGAPUR	09/05/2016	15:00	09/05/2016	16:00	ODB	ER-II/KOL	Final commissioning of CB	DVC
193	400 KV Bus Reactor-1 DURGAPUR	09/05/2016	10:00	21/05/2016	18:00	OCB	ER-II/KOL	Offline dry out	
194	220kv NSLG-BRP Ckt-II	09/05/2016	9.00 hrs	09/05/2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	
195	400KV D/C PPSP-DURGAPUR LINE	09/05/2016	09:00	09/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	
196	132 KVRANGPO-GANGTOK-1	09/05/2016	09:30	09/05/2016	17:30	ODB	ER-II/KOL	AMP Work	WBSETCL
197	132 kv BARASAT -NEWTOWN Tr line of WBSETCL	09/05/2016	06:00	10/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
198	220KV SIDE OF 315MVA ICT-2 BAY	09/05/2016	07:00	11/06/2015	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
199	400KV Rourkela-Chaibasa # 1 Main Bay (Bay No.-416) at Rourkela	09/05/2016	09:00	14/05/2016	18:00	OCB	ER-II/OR	Removal of PIR in Main Bay CB (41652).	
200	400KV Rourkela-Chaibasa # 1 at Rourkela	09/05/2016	09:00	11/05/2016	18:00	ODB	ER-II/OR	Removal of PIR in Main Bay CB (41652).The shutdown required due to clearance issue.	
201	765/400KV, 1500MVA ICT-I at Sundergarh	09/05/2016	07:00	09/05/2016	17:00	ODB	ER-II/OR	LA conductor change from quad bersimis to twin Moose & conducting ICT bushing tandelta measurement at variable frequency	NLDC
202	400KV BSF-KODERMA-1	10/05/2016	10:00	10/05/2016	14:00	ODB	ER-I	CONSTRUCTION WORK RELATED TO SPLIT BUS ARRANGEMENT AT BSF	NLDC
203	400KV BSF-KODERMA-2	10/05/2016	15:00	10/05/2016	18:00	ODB	ER-I	CONSTRUCTION WORK RELATED TO SPLIT BUS ARRANGEMENT AT BSF	NLDC
204	100 MVA ICT -1 AT ARA	10/05/2016	09:30	11/05/2016	17:00	OCB	ER-I	OLTC OVERHAULING WORK	BIHAR
205	765kv MAIN BAY OF GAYA-VARANASI-1	10/05/2016	09:00	12/05/2016	18:00	OCB	ER-I	TO ARREST SF6 LEAKAGE ISSUE OF CB	NLDC
206	3*110 MVAR 765 KV BUS REACTOR AT SSRM	10/05/2016	09:30	10/05/2016	17:30	ODB	ER-I	AMP WORK OF B PH REACTOR	NLDC
207	132 KV PRN(PG)-PRN (BSPTCL#2 LINE	10/05/2016	09:00	12/05/2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
208	765 KV BUS - I AT NRNC	10/05/2016	09:00	11/05/2016	17:00	ODB	ER-I	FOR AMP WORK	NLDC
209	220 KV SUBHASGRAM- WBSETCL Line # 1	10/05/2016	06:00Hrs	10/05/2016	15:00Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
210	400KV NSLG-Rangpo Ckt-II	10/05/2016	9.00 hrs	10/05/2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	
211	400KV MTN-Gaya-I LR (Switchable)	10/05/2016	09:00	10/05/2016	14:00	ODB	ER-II/KOL	CSD card replacement and on load testing of Reactor	
212	400KV ANDAL-JAMSHEDPUR I&II	10/05/2016	09:00	10/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Mejia-Jamshedpur line	DVC
213	132 KV Main BUS Malda	10/05/2016	06:00 hrs	10/05/2016	08:00 hrs	ODB	ER-II/KOL	Isolator retrofitting	WBSETCL
214	132 KVRANGPO-RANGIT	10/05/2016	09:30	10/05/2016	17:30	ODB	ER-II/KOL	AMP Work	WBSETCL
215	132KV SIDE OF 160MVA ICT-1	10/05/2016	07:00	10/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	OPTCL
216	(220KV line-1 )203 Bay , Bolangir	10/05/2016	09:00	10/05/2016	18:00	ODB	ER-II/OR	AMP Work	
217	400KV Barh-Patna Line#2 Main Bay and Tie Bay	10/05/2016	09:30hrs	11/05/2016	18:00 hrs	OCB	NTPC	PM Job of CTs, CVTs, LAs, Isolator & CB.	
218	Barh-Patna Line# 2	10/05/2016	09:30hrs	11/05/2016	18:00 hrs	OCB	NTPC	Relay testing .	
219	400 KV Kh-Banka Line#1	10/05/2016	09:30hrs	10/05/2016	17:30 hrs	ODB	NTPC	PM works & relay testing.	
220	400 KV IBEUL - RAIGARH	10/05/2016	08:00	12/05/2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	NLDC
221	400 KV SIDE MAIN BAY OF 765/400 KV 1500 MVA ICT AT SSRM	11/05/2016	09:30	11/05/2016	17:30	ODB	ER-I	AMP WORK.	
222	400kB NSLG-Bangaigaon Ckt-II	11/05/2016	9.00 hrs	11/05/2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	NLDC
223	132KV SLG-WBSETCL-2	11/05/2016	06.00 Hrs	13/05/2016	17.00 Hrs	OCB	ER-II/KOL	GIS WORK	WBSETCL
224	132 KV RANGPO-GANGTOK-1	11/05/2016	09:30	11/05/2016	17:30	ODB	ER-II/KOL	AMP Work	WBSETCL
225	132KV SIDE OF 160MVA ICT-2	11/05/2016	07:00	11/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	OPTCL
226	(220KV line-2 ) 205 Bay , Bolangir	11/05/2016	09:00	11/05/2016	18:00	ODB	ER-II/OR	AMP Work	
227	400 KV FARAKKA - MALDA - I	11/05/2016	06:00	11/05/2016	17:00	ODB	ER-II/KOL	ATTENDING PUNCH POINT IN LINE	NLDC

228	EAST FILTER BUS AT SSRM	12/05/2016	08:00	12/05/2016	18:00	ODB	ER-I	FOR MOVEMENT OF TRAILER TO TRANSPORT 315MVA ICT-1 FROM DISMANTLING POINT TO DIVERSION STATION (DURING SAID S/D AC BY PASS & HVDC BOTH WILL NOT BE IN SERVICE)	
229	100 MVA ICT -2 AT ARA	12/05/2016	09:30	13/05/2016	17:00	OCB	ER-I	OLTIC OVERHAULING WORK	BIHAR
230	132 KV DEHRI - KUDRA	12/05/2016	09:30	12/05/2016	17:30	ODB	ER-I	AMP WORK AT DEHRI END.	BIHAR
231	220 KV SUBHASGRAM- KLC Line	12/05/2016	09:00Hrs	12/05/2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
232	220 KV MTPS-GOLA	12/05/2016	09:00	12/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Mejia3 line	DVC
233	220 KV STPS -ASANSOL & ASANSOL-DURGAPUR	12/05/2016	09:00	12/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Mejia3 line	WBSETCL
234	400KV MAITHON-MEJIA-3	12/05/2016	09:00	14/05/2016	16:00	ODB	ER-II/KOL	Insulator Replacement in major crossings	DVC
235	220KV Rangpo-New Melli, Ckt-2	12/05/2016	09:30	12/05/2016	17:30	ODB	ER-II/KOL	AMP Work	NLDC
236	315MVA ICT#1 MAIN BAY (403)	12/05/2016	07:00	12/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
237	220kV ICT - I Bay at Rengali	12/05/2016	09:00	15/05/2016	17:00	OCB	ER-II/OR	Overhauling of CGL CB.	OPTCL
238	(220KV TBC ) 210 Bay , Bolangir	12/05/2016	09:00	12/05/2016	18:00	ODB	ER-II/OR	AMP Work	
239	400 KV Farakka-Berahmpur	12/05/2016	09:30hrs	12/05/2016	17:30 hrs	ODB	NTPC	Relay testing and Bay maint work.	NLDC
240	400 KV FARAKKA - MALDA - II	12/05/2016	06:00	12/05/2016	17:00	ODB	ER-II/KOL	ATTENDING PUNCH POINT IN LINE	NLDC
241	132 KV MOHANIA - KARMNASA	13/05/2016	09:30	13/05/2016	17:30	ODB	ER-I	AMP WORK AT KARMNASA END.	BIHAR
242	132 KV PRN(PG)-PRN (BSPTCL#1 LINE	13/05/2016	09:00	13/05/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus which is above ICT 3 & BSPTCL 1 bay FOR Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
243	400 KV BUS - I AT NRNC	13/05/2016	09:00	14/05/2016	17:00	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF 400 KV GAYA - CHANDAWA LINE	
244	400 KV Jeerat Subhasgram Line	13/05/2016	09:00 Hrs	13/05/2016	17:30 Hrs	ODB	ER-II/KOL	Line CVT replacement work at Subhasgram	DVC
245	125 Bus Reactor-I New Siliguri	13/05/2016	9.00 hrs	13/05/2016	17.00 hrs	ODB	ER-II/KOL	CSD Commissioning	
246	220KV D/C STPS -DURGAPUR (DIRECT CIRCUIT & VIA CIRCUIT)	13/05/2016	09:00	13/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Mejia3 line	DVC
247	315MVA ICT- V Malda	13/05/2016	08:00 hrs	13/05/2016	17.00 hrs	ODB	ER-II/KOL	CT replacement	WBSETCL
248	132 KV Main BUS Malda	13/05/2016	06:00 hrs	13/05/2016	08:00 hrs	ODB	ER-II/KOL	Isolator retrofitting	WBSETCL
249	220 KV RANGPO-JLHEP	13/05/2016	09:30	13/05/2016	17:30	ODB	ER-II/KOL	AMP Work	
250	315MVA ICT#1 MAIN BAY (406)	13/05/2016	07:00	13/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
251	(220KV Bus Coupler ) 204 Bay , Bolangir	13/05/2016	09:00	13/05/2016	18:00	ODB	ER-II/OR	AMP Work	
252	765/400KV, 1500MVA ICT-II at Sundergarh	13/05/2016	07:00	13/05/2016	17:00	OCB	ER-II/OR	LA conductor change from quad bersimis to twin moose & conducting ICT bushing tandelta measurement at variable frequency	NLDC
253	MAIN BAY OF 80MVAR B/R AT LAKHISARAI	14/05/2016	09:00	14/05/2016	17:00	ODB	ER-I	FOR CSD COMMISSIONING WORK UNDER CONSTRUCTION HEAD	
254	80 MVAR B/R AT LAKHISARAI	14/05/2016	16:00	15/05/2016	17:00	ODB	ER-I	FOR CSD COMMISSIONING WORK UNDER CONSTRUCTION HEAD	
255	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	14/05/2016	09:00	17/05/2016	17:00	ODB	ER-I	Dismantling of Transfer Bus which is above ICT 3 & BSPTCL 1 bay FOR Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
256	220 KV Main Bus #1 Subhasgram	14/05/2016	09:00Hrs	14/05/2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
257	400KV ANDAL-JAMSHEDPUR LINE I&II	14/05/2016	09:00	14/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Mejia3 line	DVC
258	400kV Bolangir - Jeypore	14/05/2016	07:00:00	17/05/2016	18:00:00	ODB	ER-II/OR	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing etc.	NLDC
259	400 KV IBEUL - JHARSUGUDA	14/05/2016	08:00	16/05/2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	
260	TIE BAY BETWEEN 400KV LAKHISARAI-KHLG-2 & 80MVAR B/R AT LAKHISARAI	15/05/2016	09:00	15/05/2016	17:00	ODB	ER-I	FOR CSD COMMISSIONING WORK UNDER CONSTRUCTION HEAD	
261	500MVA ICT-1 AT SSRM	15/05/2016	08:00	15/05/2016	18:00	ODB	ER-I	FOR CONNECTION OF TERTIARY AT SSRM	BIHAR
262	132KV RAMKANALI -PANCHYET	15/05/2016	09:00	15/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Jamshedpur line	WBSETCL
263	220 KV STPS -ASANSOL & STPS-DURGAPUR	15/05/2016	09:00	15/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Jamshedpur line	WBSETCL



264	400 KV MAITHON-JAMSHEDPUR	15/05/2016	09:00	19/05/2016	16:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Jamshedpur line	
265	132 kv Lalmatia - Sahebganj T/L	15/05/2016	06:00	15/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
266	315MVA ICT-2 AT GAYA	16/05/2016	09:00	16/05/2016	18:00	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF 400 KV GAYA - CHANDAWA LINE	BIHAR
267	400KV MAIN BUS-1 AT LAKHISARAI	16/05/2016	10:00	16/05/2016	14:00	ODB	ER-I	FOR AMP WORK	
268	220 KV Main Bus #2 Subhasgram	16/05/2016	09:00Hrs	16/05/2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
269	407 CB (400 KV B'nagar line-1 main CB) DURGAPUR	16/05/2016	09:00	19/05/2016	16:00	OCB	ER-II/KOL	CB hydraulic overhauling	
270	160MVA ICT#1 Siliguri	16/05/2016	09.00 Hrs	16/05/2016	16:00 Hrs	ODB	ER-II/KOL	132KV Side Bay AMP work	WBSETCL
271	220 KV STPS-HURA & STPS- BISHNUPUR	16/05/2016	09:00	16/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Jamshedpur line	WBSETCL
272	220 KV MLD-DKL-I	16/05/2016	08:00 hrs	16/05/2016	17:00 hrs	ODB	ER-II/KOL	AMP.	
273	132KV TBC Malda	16/05/2016	06:00 hrs	16/05/2016	08:00 hrs	ODB	ER-II/KOL	Isolator retrofitting	WBSETCL
274	400kv 80 MVAR REACTOR-1	16/05/2016	09:30	16/05/2016	17:30	ODB	ER-II/KOL	AMP Work	
275	220 kv Jeerat -newtown Tr line of WBSETCL	16/05/2016	06:00	17/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
276	400KV MENDHASAL MAIN BAY (410)	16/05/2016	07:00	16/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
277	765kv BUS REACTOR-2 at Sundergarh	16/05/2016	07:00	16/05/2016	17:00	ODB	ER-II/OR	LA conductor change from quad bersimis to twin Moose & conducting reactor bushing tandelta measurement at variable frequency	NLDC
278	160 MVA ICT - I AT MALDA	16/05/2016	06:00	16/05/2016	15:00	ODB	ER-II/KOL	AMP AND TAN DELATA TESTING	WBSETCL
279	400KV BSF-VARANASI-1 & 2	17/05/2016	08:00	30/05/2016	18:00	OCB	ER-I	FOR CONSTRUCTION OF BAYS SWAPPING OF LINE AT BSF	
280	3*80MVAR L/R OF 765KV GAYA-VARANASI AT GAYA	17/05/2016	09:00	20/05/2016	18:00	OCB	ER-I	FOR REPLACEMENT OF ABB MAKE HV BUSHING IN Y PH AT GAYA	NLDC
281	132 KV MAIN BUS AT SSRM	17/05/2016	09:30	17/05/2016	17:30	ODB	ER-I	AMP WORK.	BIHAR
282	400 KV BUS - II AT NRNC	17/05/2016	09:00	18/05/2016	17:00	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF 400 KV GAYA - CHANDAWA LINE	
283	400KV MAIN BUS-2 AT LAKHISARAI	17/05/2016	10:00	17/05/2016	14:00	ODB	ER-I	FOR AMP WORK	
284	HVDC SSRM	17/05/2016	09:00	19/05/2016	21:00	ODB	ER-I	FOR UPGRADATION OF SCADA & ITS ASSOCIATED SYSTEM	NLDC
285	220 KV HURA-RAGHUNATHPUR I&II	17/05/2016	09:00	17/05/2016	15:00	ODB	ER-II/KOL	Insulator Replacement in Maithon-Jamshedpur line	WBSETCL
286	400kv 80 MVAR REACTOR-2	17/05/2016	09:30	17/05/2016	17:30	ODB	ER-II/KOL	AMP Work	
287	400KV DUBURI MAIN BAY (407)	17/05/2016	07:00	17/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
288	765kv S/C Angul-Sundargarh Line-II	17/05/2016	08:00	19/05/2016	18:00	OCB	ER-II/OR	Rectification of Tower & Stub by M/s GIL.	NLDC/ JITPL/ GMR NOC MAY BE RESTRICTED
289	765KV SUNDARGARH-ANGUL LINE-II at Sundergarh	17/05/2016	07:00	17/05/2016	17:00	ODB	ER-II/OR	LA conductor change from quad bersimis to twin Moose & conducting reactor bushing tandelta measurement at variable frequency	NLDC
290	132KV Kh-Sabour Line	17/05/2016	09:30hrs	17/05/2016	17:30 hrs	ODB	NTPC	PM works & relay testing.	
291	160 MVA ICT - II AT MALDA	17/05/2016	06:00	17/05/2016	15:00	ODB	ER-II/KOL	AMP AND TAN DELATA TESTING	WBSETCL
292	132 KV PRN(PG)-PRN (BSPTCL#1 LINE	18/05/2016	09:00	20/05/2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation	BIHAR
293	500MVA ICT-1 AT NPRN	18/05/2016	10:00	18/05/2016	16:00	ODB	ER-I	FOR TESTING OF ICT BEFORE COMPLETION OF WARRANTY PERIOD	BIHAR
294	ICT V Subhasgram	18/05/2016	09:00 Hrs	18/05/2016	13:00 Hrs	ODB	ER-II/KOL	Final testing of CSD of Main CB 415	WBSETCL
295	220KV SLG-KISHANGANJ-I	18/05/2016	06.00 Hrs	18/05/2016	16:00 Hrs	ODB	ER-II/KOL	BAY AMP	
296	132 KV WBSETCL-I Malda	18/05/2016	06:00 hrs	18/05/2016	08:00 hrs	ODB	ER-II/KOL	Isolator retrofitting	WBSETCL
297	220kv Rengali PCGIL- OPTCL -I at Rengali	18/05/2016	09:00	21/05/2016	17:00	OCB	ER-II/OR	Overhauling of CGL CB.	
298	400KV Keonjhar-Baripada Line at Keonjhar	18/05/2016	09:00	19/05/2016	18:00	OCB	ER-II/OR	For OPGW Stringing Work	
299	400KV Keonjhar-Rengali Line at Keonjhar	18/05/2016	09:00	19/05/2016	18:00	OCB	ER-II/OR	For OPGW Stringing Work	
300	315MVA ICT #1 main bay (406) at Baripada	18/05/2016	07:00	18/05/2016	16:00	ODB	ER-II/OR	AMP, No power interruption. 400kv Keonjhar line is on the other DIA.Approved in 119th OCC sl No.254	
301	220KV BC BAY	18/05/2016	07:00	18/05/2016	15:00	ODB	ER-II/OR	ANNUAL MAINTENANCE	
302	400 KV Ranchi Raurkela Line	18/05/2016	06:00	19/05/2016	06:00	ODB	PKTCL	Crossings of 400 KV PURULIA-RANCHI D/C	
303	400 KV IBEUL - RAIGARH	18/05/2016	08:00	20/05/2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	NLDC

304	220 KV SUBHASGRAM- CESC Line # 1	19/05/2016	09:00Hrs	19/05/2016	15:00Hrs	ODB	ER-II/KOL	AMP work	WBSETCL
305	132 KV TBC CB Birpara	19/05/2016	09:00	21/05/2016	17:00	ODB	ER-II/KOL	CB Overhauling	WBSETCL
306	400 KV BUS COUPLER Malda	19/05/2016	08:00 hrs	19/05/2016	17:00 hrs	ODB	ER-II/KOL	AMP.	
307	315MVA ICT#2 BARIPADA	19/05/2016	07:00	19/05/2016	18:00	ODB	ER-II/OR	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -I OF GIS	OPTCL
308	400KV Mendhasal Main Bay at Baripada	19/05/2016	07:00	19/05/2016	16:00	ODB	ER-II/OR	AMP, No power interruption. 400KV Jamshedpur line is on the other DIA.Approved in 119th OCC sl No.265	
309	765kV S/C Angul-Sundargarh Line-I	19/05/2016	08:00	21/05/2016	18:00	ODB	ER-II/OR	Jumper tightening, Broken Insulator replacement, Bird Guard Fixing.	NLDC/ JITPL/ GMR NOC MAY BE RESTRICTED
310	765KV SUNDARGARH-ANGUL LINE-I at Sundergarh	19/05/2016	07:00	19/05/2016	17:00	ODB	ER-II/OR	LA conductor change from quad bersimis to twin Moose & conducting reactor bushing tandelta measurement at variable frequency	NLDC
311	400 KV Farakka- Durgapur Line#1	19/05/2016	09:30hrs	19/05/2016	17:30 hrs	ODB	NTPC	Relay testing and Bay maint work.	
312	400kv Talcher - Rourkela Ckt-I	19/05/2016	07:00:00	23/05/2016	18:00:00	ODB	ER-II/OR	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing and Pollution stretches etc.	
313	200 MVA ICT-2 AT LAKHISARAI	20/05/2016	09:30	20/05/2016	17:30	ODB	ER-I	FOR AMP WORK	BIHAR
314	765KV GAYA-BALIA	20/05/2016	08:00	21/05/2016	18:00	ODB	ER-I	FOR ERECTION ACTIVITIES OF BUS REACTOR AT BALIA END. S/D TAKEN BY NR-1.	NLDC
315	220KV SLG-KISHANGANJ-2	20/05/2016	06.00 Hrs	20/05/2016	16:00 Hrs	ODB	ER-II/KOL	BAY AMP	
316	400KV Maithon Gaya-I line	20/05/2016	09:00	20/05/2016	18:00	ODB	ER-II/KOL	Fixing of earlier removed pipe bus for taking the newly installed CB into service	
317	400 kv Subhashgram - Jeerat tr. Line	20/05/2016	06:00	21/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	DVC
318	315MVA ICT#2 BARIPADA	20/05/2016	07:00	20/05/2016	18:00	ODB	ER-II/OR	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	OPTCL
319	220KV Bus Coupler Bay at Baripada	20/05/2016	07:00	20/05/2016	16:00	ODB	ER-II/OR	AMP, No power interruption Approved in 119th OCC sl No.282	
320	400 KV Main Bus #2 Subhasgram	21/05/2016	09:00Hrs	21/05/2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	
321	400 KV MAIN BUS 3 including Bus Sectionalizer-1 CB DURGAPUR	21/05/2016	10:00	21/05/2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
322	132 KV WBSETCL-II Malda	21/05/2016	06:00 hrs	21/05/2016	08:00 hrs	ODB	ER-II/KOL	Isolator retrofitting	WBSETCL
323	ICT-II at OHPC S/Y	21/05/2016	09:00hrs	21/05/2016	18:00hrs	ODB	ER-II/OR	Sampling of oil from BHEL Make Bushings for 3rd round DGA & tan delta test at variable frequency.	OPTCL
324	315MVA ICT#1 BARIPADA	21/05/2016	07:00	21/05/2016	18:00	ODB	ER-II/OR	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	OPTCL
325	220kV ICT-II Incomer Bay (Bay No.-208) at Rourkela	21/05/2016	09:00	21/05/2016	18:00	ODB	ER-II/OR	AMP work	
326	400 KV MAIN BUS 4 including Bus Sectionalizer-2 CB DURGAPUR	22/05/2016	10:00	22/05/2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
327	315MVA ICT-I AT Maithon	22/05/2016	09:00	22/05/2016	18:00	ODB	ER-II/KOL	AMP Works. And 42389B-RPH isolator alignment	DVC
328	132 KV BRP-WB-I (CB)	22/05/2016	09:00	24/05/2016	17:00	ODB	ER-II/KOL	CB Overhauling	WBSETCL
329	400KV MAIN BUS-II	22/05/2016	07:00	22/05/2016	18:00	ODB	ER-II/OR	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	
330	220kV Bus coupler Bay at Rengali	22/05/2016	09:00	25/05/2016	17:00	OCB	ER-II/OR	Overhauling of CGL CB.	
331	400 KV Rourkela-Chaibasa#1 Line Reactor at Rourkela	22/05/2016	09:00	22/05/2016	16:00	ODB	ER-II/OR	Tan Delta measurement of Bushings on variable frequency.	
332	400 KV Ranchi- Bero I line	22/05/2016	06:00	24/05/2016	06:00	ODB	PKTCL	Crossings of 400 KV PURULIA-RANCHI D/C	
333	400 KV IBEUL - JHARSUGUDA	22/05/2016	08:00	24/05/2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	
334	400 KV MAIN BUS 1 including Bus Sectionalizer-1 CB DURGAPUR	23/05/2016	10:00	23/05/2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
335	3X16.67MVar Keonjhar Line reactor	23/05/2016	07:00	23/05/2016	18:00	ODB	ER-II/OR	ON LINE OPERATION OF CSD	
336	220kV Bus Coupler Bay (Bay No.-202) at Rourkela	23/05/2016	09:00	23/05/2016	18:00	ODB	ER-II/OR	AMP work	
337	220 KV SUBHASGRAM- WBSETCL Line # 2	24/05/2016	06:00Hrs	24/05/2016	15:00Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL

338	400 KV MAIN BUS 2 including Bus Sectionalizer-2 CB DURGAPUR	24/05/2016	10:00	24/05/2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
339	315MVA ICT-II AT Maithon	24/05/2016	09:00	24/05/2016	18:00	ODB	ER-II/KOL	Tan Delta of 220KV R-PH Bushing at variable frequency.AMP, Connector replacement	DVC
340	Arambag: 315 MVA Trf-1	24/05/2016	07:00	24/05/2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
341	400kV Talcher - Rourkela Ckt-II	24/05/2016	07:00:00	28/05/2016	18:00:00	ODB	ER-II/OR	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing and Pollution stretches etc.	
342	400 KV MAIN BUS 3 including Bus Sectionalizer-1 CB DURGAPUR	25/05/2016	10:00	25/05/2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-3	
343	132 KV BRP-WB-II (CB)	25/05/2016	09:00	27/05/2016	17:00	ODB	ER-II/KOL	CB Overhauling	WBSETCL
344	220 kV D/C Farakka - Lalmatia T/L	25/05/2016	06:00	25/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	JHARKHAND
345	400KV Keonjhar Liine at Baripada	25/05/2016	07:00	26/05/2016	18:00	OCB	ER-II/OR	MAIN 2 RELAY RETROFICATION WORK	
346	220kV ICT-I Incomer Bay (Bay No.-211) at Rourkela	25/05/2016	09:00	25/05/2016	18:00	ODB	ER-II/OR	AMP work	
347	Arambag: 315 MVA Trf-2	25/05/2016	07:00	25/05/2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
348	400 KV Ranchi-Bero II Line	25/05/2016	06:00	27/05/2016	06:00	ODB	PKTCL	Crossings of 400 KV PURULIA-RANCHI D/C	
349	400 KV Bus Reactor Jeerat	26/05/2016	09:00Hrs	26/05/2016	17:30Hrs	ODB	ER-II/KOL	Final protection testing of new CB and erection of IPS tube from Bus Reactor to new Isolator	
350	400 KV BUS-II AT FARAKKA	26/05/2016	09:00	26/05/2016	17:00	ODB	ER-II/KOL	FOR RECONNECTION OF BUS JUMPER TO 1289A ISOLATOR & BUS BAR STABILITY.	
351	400 KV MAIN BUS 4 including Bus Sectionalizer-2 CB DURGAPUR	26/05/2016	10:00	26/05/2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-4	
352	132 KV D/C Satgachia - Dhatrigaram T/L of WBSETCL (T.No. 48-49)	26/05/2016	06:00	26/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
353	220kV Rengali PCGIL- OPTCL -II at Rengali	26/05/2016	09:00	29/05/2016	17:00	OCB	ER-II/OR	Overhauling of CGL CB.	
354	400kV Rourkela-Ranchi#2 Main Bay (Bay No.-421) at Rourkela	26/05/2016	09:00	26/05/2016	18:00	ODB	ER-II/OR	AMP work	
355	132KV D/C T/L, Asika To Chatrapur, (OPTCL)	26/05/2016	08:00:00	27/05/2016	17:30:00	ODB	ER-II/OR	Stringing of 765 KV D/C Angul-Srikakulam TL(Part-I)-Power line crossing at Loc no. AP 106/0-AP 107/0.	OPTCL
356	400 KV Farakka- Kahalgaon Line#1	26/05/2016	09:30hrs	26/05/2016	17:30 hrs	ODB	NTPC	Relay testing and Bay maint work.	
357	Arambag: 315 MVA Trf-3	26/05/2016	07:00	26/05/2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
358	132 kV ASHOKNAGAR - BASHIRHAT Tr line of WBSETCL	27/05/2016	06:00	28/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
359	315MVA ICT#2 BARIPADA	27/05/2016	07:00	27/05/2016	18:00	ODB	ER-II/OR	HV TEST OF MAIN BUS-I OF GIS	OPTCL
360	50MVAR B/R Main Bay (Bay No.- 422) at Rourkela	27/05/2016	09:00	27/05/2016	18:00	ODB	ER-II/OR	AMP work	
361	765kV BUS REACTOR-1 at Sundergarh	27/05/2016	07:00	27/05/2016	17:00	ODB	ER-II/OR	LA conductor change from quad bersimis to twin Moose & conducting reactor bushing tandelta measurement at variable frequency	NLDC
362	Arambag: 315 MVA Trf-4	27/05/2016	07:00	27/05/2016	15:00	ODB	WBSETCL	MAINTENANCE WORK	
363	400 KV D/C FKK KAHALGAON T/L CKT-I&II	28/05/2016	06:00	30/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	
364	315MVA ICT#2 BARIPADA	28/05/2016	07:00	28/05/2016	18:00	ODB	ER-II/OR	HV TEST OF MAIN BUS-I OF GIS	OPTCL
365	400 KV Bus Reactor Main Bay (408) at Keonjhar	28/05/2016	09:00	28/05/2016	18:00	ODB	ER-II/OR	AMP	
366	ICT-I & 50MVAR B/R Tie Bay (Bay No.- 423) at Rourkela	28/05/2016	09:00	28/05/2016	18:00	ODB	ER-II/OR	AMP work	OPTCL
367	400 KV Bero Patratu Line	28/05/2016	06:00	30/05/2016	06:00	ODB	PKTCL	Crossings of 400 KV PURULIA-RANCHI D/C	
368	400 KV MAIN BUS 1 including Bus Sectionalizer-1 CB DURGAPUR	29/05/2016	10:00	29/05/2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-1	
369	66 KV S/C Ranaghat - Bagula T/L of WBSETCL	29/05/2016	06:00	29/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	
370	400KV MAIN BUS-II	29/05/2016	07:00	29/05/2016	18:00	ODB	ER-II/OR	HV TEST OF MAIN BUS-II OF GIS	
371	400 KV Bus Reactor Tie Bay (407-08) at Keonjhar	29/05/2016	09:00	29/05/2016	18:00	ODB	ER-II/OR	AMP	
372	80 MVAR Bus Reactor at Keonjhar	29/05/2016	09:00	29/05/2016	18:00	ODB	ER-II/OR	AMP	

373	SEL-II & 125MVAR B/R Tie Bay (Bay No.- 426) at Rourkela	29/05/2016	09:00	29/05/2016	18:00	ODB	ER-II/OR	AMP work	
374	(220KV line-3 ) 207 Bay , Bolangir	29/05/2016	09:00	29/05/2016	18:00	ODB	ER-II/OR	AMP Work	
375	400kV Angul-Meramundali CKT-II	29/05/2016	08:00	30/05/2016	18:00	ODB	ER-II/OR	Jumper rectification by M/s GIL.	OPTCL
376	400 KV MAIN BUS 2 including Bus Sectionalizer-2 CB DURGAPUR	30/05/2016	10:00	30/05/2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-2	
377	132 KV BRP-WB-I	30/05/2016	09:00	30/05/2016	14:00	ODB	ER-II/KOL	L.A base insulator replacement and AMP	WBSETCL
378	132kV D/C Dharampur - Ranaghat Tr line of WBSETCL ( T No. 83-84)	30/05/2016	06:00	31/05/2016	17:00	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
379	400 kV Meramundali - Angul line at OPTCL Meramundali S/s.	30/05/2016	09:00	30/05/2016	17:00	ODB	ER-II/OR	AMP works of 80MVAR Line Reactor .	OPTCL
380	132 KV S/C Mohana-Berhampur TL (OPTCL)	30/05/2016	08:00:00	31/05/2016	17:30:00	ODB	ER-II/OR	Stringing of 765 KV D/C Angul-Srikakulam TL(Part-I)-Power line crossing at Loc no. AP 125/0-AP 126/0.	OPTCL
381	132 KV BRP-WB-II	31/05/2016	09:00	31/05/2016	14:00	ODB	ER-II/KOL	L.A base insulator replacement and AMP	WBSETCL
382	400 KV Ranchi Chandwa Line	31/05/2016	06:00	02/06/2016	06:00	ODB	PKTCL	Crossings of 400 KV PURULIA-RANCHI D/C	
383	400kV Angul Bolangir Main Bay (403) at Angul	07/06/2015	09:00	07/06/2015	15:00	ODB	ER-II/OR	AMP works, No Outage	
384	400kV Angul Bolangir Tie Bay(406) at Angul	11/06/2015	09:00	11/06/2016	15:00	ODB	ER-II/OR	AMP works, No Outage	

**Outages proposed in other RPCs requiring ERPC approval**

SI No	outages proposed in	Name of Requesting Agency	Name of Elements	From		To		Basis	Reason	Remarks (If Any)
				Date	Time	Date	Time			
1	WRPC	PGCIL	Jharsuguda - Dharamjaygarh Ckt # 2	27-Apr-16	8:00	27-Apr-16	18:00	Daily	Conductor Repair works & keeping Jharsuguda - Dharamjaygarh Ckt # 1 in non-auto mode for safety.	
2	WRPC	PGCIL	765kV D'JAIGARH-JHARSUGUDA I with Line reactor at Korba (Dharamjaygarh) PS	30-Apr-16	6:00	30-Apr-16	16:00	Daily	Replacement of new 132kV, 12 kJ/kV LA and NGR bypassing jumpering with CB & keeping Jharsuguda - Dharamjaygarh Ckt # 2 in non-auto mode for safety.	
3	NRPC	PGCIL	765KV GAYA-BALIA	20-May-16	8:00	21-May-16	18:00	Daily	Erection of bushing, BPI & LA for 765KV Reactor located between Gaya and Lko lines at Balia	
4	NRPC	PGCIL	400kv ALLAHABAD-SASARAM	6-May-16	8:00	7-May-16	18:00	Daily	Stringing of 400KV D/C Varanasi-Sarnath line.	
5	NRPC	PGCIL	400KV SASARAM-SARNATH	6-May-16	8:00	7-May-16	18:00	Daily	Stringing of 400KV D/C Varanasi-Sarnath line.	

**Anticipated Power Supply Position for the month of  
May-16**

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
<b>1</b>	<b>BIHAR</b>		
i)	NET MAX DEMAND	3500	2132
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	416	327
	- Central Sector	2405	1686
iii)	SURPLUS(+)/DEFICIT(-)	-679	-119
<b>2</b>	<b>JHARKHAND</b>		
i)	NET MAX DEMAND	1200	800
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	446	358
	- Central Sector	546	334
iii)	SURPLUS(+)/DEFICIT(-)	-208	-108
<b>3</b>	<b>DVC</b>		
i)	NET MAX DEMAND (OWN)	2766	1715
ii)	NET POWER AVAILABILITY- Own Source	4800	2310
	- Central Sector	487	340
	Long term Bi-lateral (Export)	1500	967
iii)	SURPLUS(+)/DEFICIT(-)	1021	-33
<b>4</b>	<b>ORISSA</b>		
i)	NET MAX DEMAND	4200	2500
ii)	NET POWER AVAILABILITY- Own Source	3100	1700
	- Central Sector	1083	736
iii)	SURPLUS(+)/DEFICIT(-)	-17	-64
<b>5</b>	<b>WEST BENGAL</b>		
<b>5.1</b>	<b>WBSEDCL</b>		
i)	NET MAX DEMAND (OWN)	5858	3682
ii)	CESC's DRAWAL	0	0
iii)	TOTAL WBSEDCL's DEMAND	5858	3682
iv)	NET POWER AVAILABILITY- Own Source	3115	1864
	- Import from DPL	126	67
	- Central Sector	1879	1190
v)	SURPLUS(+)/DEFICIT(-)	-738	-561
vi)	EXPORT (TO B'DESH & SIKKIM)	255	190
<b>5.2</b>	<b>DPL</b>		
i)	NET MAX DEMAND	300	212
ii)	NET POWER AVAILABILITY	426	279
iii)	SURPLUS(+)/DEFICIT(-)	126	67
<b>5.3</b>	<b>CESC</b>		
i)	NET MAX DEMAND	2080	1110
ii)	NET POWER AVAILABILITY - OWN SOURCE	860	626
	FROM HEL	546	344
	FROM CPL/PCBL	0	0
	Import Requirement	674	140
iii)	TOTAL AVAILABILITY	2080	1110
iv)	SURPLUS(+)/DEFICIT(-)	0	0
<b>6</b>	<b>WEST BENGAL (WBSEDCL+DPL+CESC)</b> <b>(excluding DVC's supply to WBSEDCL's command area)</b>		
i)	NET MAX DEMAND	8238	5004
ii)	NET POWER AVAILABILITY- Own Source	4401	2769
	- Central Sector+Others	3099	1534
iii)	SURPLUS(+)/DEFICIT(-)	-738	-701
<b>7</b>	<b>SIKKIM</b>		
i)	NET MAX DEMAND	85	35
ii)	NET POWER AVAILABILITY- Own Source	5	3
	- Central Sector+Others	122	80
iii)	SURPLUS(+)/DEFICIT(-)	42	48
<b>8</b>	<b>EASTERN REGION</b> <b>At 1.03 AS DIVERSITY FACTOR</b>		
i)	NET MAX DEMAND	19407	12185
	Long term Bi-lateral by DVC	1500	967
	EXPORT BY WBSEDCL	255	190
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	20910	12176
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	-252	-1166