



Minutes
of
119th OCC meeting

Date: 01.04.2016
Eastern Regional Power Committee
14, Golf Club Road, Tollygunge
Kolkata: 700 033

Eastern Regional Power Committee

Minutes of 119th OCC Meeting held on 18th March, 2016 at ERPC, Kolkata

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

Item no. 1: Confirmation of minutes of 118th OCC meeting of ERPC held on 26.02.2016

The minutes of 118th OCC meeting were uploaded in ERPC website and circulated vide letter dated 08.03.2016 to all the constituents. No comments were received till date.

Members may confirm the minutes.

Deliberation in the meeting

NTPC vide mail dated 16.03.16 requested for amendment of Item No. B.4.

OCC agreed to amend the first para of Item No. B.4 which is as given below—

“NTPC informed that they are monitoring the PLF station wise where as in CEA list it was given as unit wise.”

With the above amendments under Item No. B.4, members confirmed the minutes of 118th 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. Implementation of Automatic Demand Management Scheme (ADMS)
- B.3. Charging of 220 KV Raigarh (PGCIL)- Budhipadar line
- B.4. Under performance of Thermal Power Stations of Eastern Region
- B.5. Status of UFRs healthiness installed in Eastern Region
- B.6. Healthiness of SPS existing in Eastern Region
- B.7. Network & Chuzachen SPS review proposal in view of reduced NOC – Chuzachen
- B.8. Status of Islanding Schemes of Eastern Region
- B.9. 11KV Auxiliary power supply of 400KV Berhampore Powergrid Substation
- B.10. Restoration of PLCC system installed in Eastern Region
- B.11. Status update of previous decisions/follow up actions
- B.12. Third Party Protection Audit
- B.13. Inspection of UFR relays
- B.14. Preparation of crisis management plan for Cyber Security in Power Sector in line with CERT-IN
- B.15. Certification through BIS as per IS 18001:2007 to all generating/ transmission units
- B.16. Energy Generation data management from Renewable Energy Sources
- B.17. Sub-committee on “Integration of Renewable Energy Sources”.
- B.18. Data of Peak Demand – Submission of hourly power cut data
- B.19. Erroneous recording of data by Interface Meters
- B.20. Pollution mapping for Eastern Region
- B.21. Recovery Procedures of ER Constituents
- B.22. Nodal coordinators for web based scheduling software

- B.23. Dynamic data of Generator Models required in PSSE for Simulations
- B.24. Demand and Generation Projection of ER constituents for POC
- B.25. Furnishing Data to CTU for TTC/ATC estimation in planning horizon
- B.26. Details of HTLS conductors
- B.27. Transfer capability determination by the states
- B.28. Reasons for demand –supply gap and its variation
- B.29. Status of Disturbance Recorder, Stand alone Event Logger and Time Synchronization equipment.
- B.30. Status of Emergency Restoration System (ERS Towers) for Eastern Region constituents
- B.31. Checking of healthiness of new Special Energy Meters and its compatibility with RLDC software i.r.o of first charging of transmission elements
- B.32. Mock Black start exercises in Eastern Region
- B.33. Restricted Governor Mode of Operation
- B.34. 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 118th OCC, it was informed that the network diagram of eastern region needs to be updated on regular basis on account of commissioning of new elements in the CTU as well as STU networks.

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

The list of new Transmission Elements commissioned/charged during **February, 2016** as informed by ERLDC, WBSETCL and BSPTCL is given below:

1. 400kV Patna-Kishanganj-I was antitheft charged along with 63MVar L/R for the first time up to 208kM from Patna at 22:06hrs of 01/02/16.
2. 400kV Patna-Kishanganj-II was antitheft charged along with 63MVar L/R for the first time up to 208kM from Patna at 21:57hrs of 02/02/16.
3. 400kV Muzaffarpur-Dhalkebar(Nepal) first time charged at 132kV level at 17:41hrs of 17/02/16. Subsequently power flow started from 17/02/16 onwards.
4. 132kV Chuzhachen-Melli was converted to 132kV Chuzhachen-Gangtok at 18:46hrs of 27/02/16 and 132kV Rangpo- Gangtok converted to 132kV Rangpo-Melli at 19:04hrs of 27/02/16.
5. 220 kV D/C NJP - TLDP-IV line (145 CKM) has been commissioned on 13/02/2016 under RFD Target 2015-16
6. 132/33 kV new 50 MVA Transformer at Kishanganj (BSPTCL) GSS charged on 01.02.2016
7. 132/33 kV new 50 MVA Transformer at Ara (BSPTCL) GSS charged on 10.02.2016.
8. 132/33 kV Madhupur (JUSNL) GSS was commissioned on 10.02.2016 with 2x50 MVA transformers.
9. 132 kV Madhupur-Jamtara D/C line (54 km) was charged on 10.02.2016.
10. 132 kV Patnagarh- Padampur line along with 20 MVA Transformer at Padampur (OPTCL) grid S/S was charged on 24.02.2016 at 18:40 Hrs.
11. 220/132 kV Atri (OPTCL)S/S was charged with 160 MVA Auto-II and LILO arrangement of 220 kV Mendhasal-Narendrapur line along with 20 MVA, 132/33 kV Transformer-I on 24.02.2016 at 15:10 Hrs.

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: 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.

OCC may provide / guide the mechanism / logic for implementation of ADMS in the State system to the Constituents.

Members may discuss.

Deliberation in the meeting

On query DVC informed that their team is working for implementation of ADMS in their control area.

WBSETCL, OPTCL, BSPTCL and JUSNL requested DVC to share the basic ideas for implementation of ADMS.

OCC advised all the SLDCs to implement the ADMS in their respective control area. by 30.06.2016.

Item No. B.3: Charging of 220 KV Raigarh (PGCIL)- Budhipadar line

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

It was informed that in 32nd 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 (Copy of letter is attached at **Annexure-B.3**)*

Powergrid/ERLDC/OPTCL may update.

Deliberation in the meeting

OPTCL informed that till date no communication was received from CSPTCL.

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.

Item No. B.4: Under performance of Thermal Power Stations of Eastern Region

CEA indicated that few thermal power stations of Eastern Region are running on low PLF. The list of such Thermal Power Stations running under PLF less than the national average PLF of 60.90% is enclosed at Annexure-B.4.

On advice from CEA in OCC meetings generators were requested to place their roadmap for improvement of PLF, Heat Rate, secondary fuel oil and auxiliary power consumption of their Thermal Power Stations.

Till date except TVNL, HEL, WBPDC and DVC had furnished the requisite information.

The issue was placed in 32nd TCC also.

In 119th OCC, NTPC informed that they are monitoring the PLF station wise where as in CEA list it was given as unit wise.

OCC advised NTPC to submit their observations with roadmap for improvement of performance to CEA. NTPC agreed.

Other generators of Eastern Region may update the status of their compliance.

Deliberation in the meeting

NTPC assured to submit the required information by 1st week of April, 2016..

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

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

However, in 117th 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 118th OCC, DVC informed that commissioning of UFR at Hazaribagh is in progress.

JUSNL informed that order has been placed for UFRs of 33 kV Adityapur-I & II.

DVC and JUSNL may update.

DVC, JUSNL, CESC and BSPTCL may submit UFRs healthiness certificate.

Deliberation in the meeting

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

*It was informed that DVC, JUSNL, CESC & BSPTCL have submitted the UFR healthiness certificate. The consolidated certificate from all the constituents is available at **Annexure-B.5**.*

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

JITPL, GMR and Chuzachen have submitted the healthiness certificate for the month of February, 2016.

In 118th OCC, it was also informed that the on 18.02.2016 testing of the SPS was allowed to NTPC. But due to non-representation of NTPC (TSTPS) the actual status could not be ascertained.

NTPC was advised to submit the healthiness certificate at the earliest.

NTPC, Vedanta & Powergrid ER-II has not submitted the healthiness certificate since January, 2016.

CESC, Powergrid-Odisha may also submit the healthiness certificate for February, 2016.

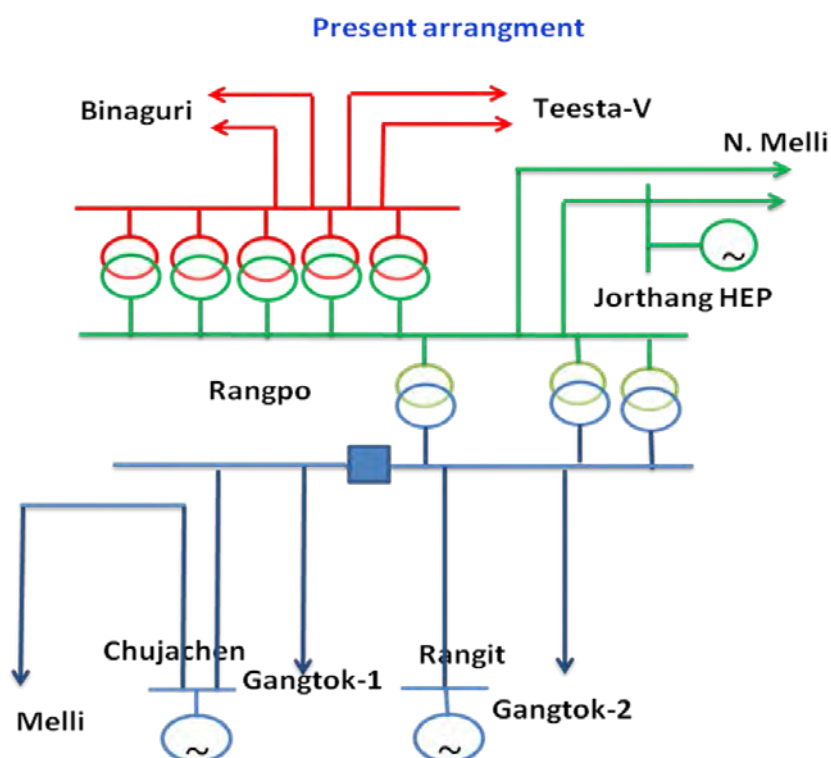
Deliberation in the meeting

*It was informed that CESC, Vedanta, Powergrid-Odisha & Powergrid ER-II have submitted the healthiness certificate. The same is given at **Annexure- B.6**.*

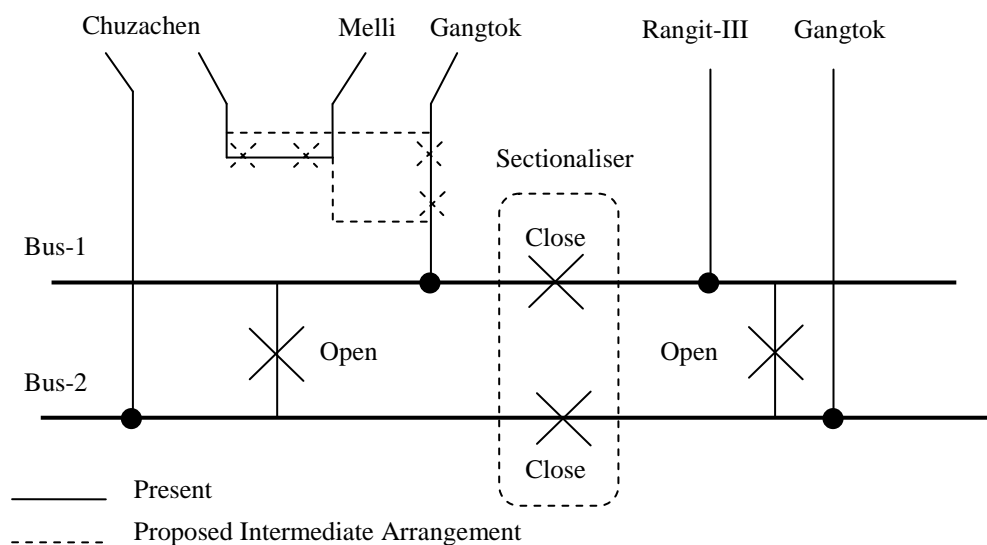
NTPC was advised to submit the healthiness certificate at the earliest.

Item No. B.7: Network & Chuzachen SPS review proposal in view of reduced NOC – Chuzachen

To accommodate generators like Teesta, Chuzachen, Jorthang HEP to the maximum extent possible through already congested network a modification scheme in the associated network was discussed in 114th OCC. The present arrangement is as follows:



In 32nd TCC/ERPC, CTU explained the present and final arrangement of 132kV bus scheme of Rangpo S/s. During analysis it was observed that to avoid the critical loading of Rangpo - Melli line, the Rangit-III & Melli feeders need to be isolated from Chuzachen & Gangtok feeders at 132kV bus of Rangpo. But it was explained that at present it is difficult to be implemented and the same would be taken care in the final arrangement with the commissioning of line bays for Chuzachen-Rangpo line. However, the same effect could be achieved with the opening of the bus coupler as shown below:



Powergrid informed that the Proposed Intermediate Arrangement will be implemented by March, 2016 and the cost will be borne by Chuzachen and Jhordang HEP.

In 118th OCC, Powergrid informed that work has been started and it will be completed by 27th Feb, 2016.

Powergrid/ERLDC may update.

Deliberation in the meeting

It was informed that the work was completed as per schedule.

Item No. B.8: Status of Islanding Schemes of Eastern Region

B.8.1: Status of commissioned Islanding Schemes in Eastern Region

At present, the following islanding schemes are in service:

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

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

The healthiness certificate for Islanding Scheme for February 2016 has been received from BkTPS, Tata Power,.

CESC and CTPS, DVC may submit.

Deliberation in the meeting

*It was also informed that healthiness certificate has been received from CESC and CTPS, DVC. The consolidated certificate from all the constituents is available at **Annexure-B.8**.*

B.8.2: FSTPS Islanding Scheme, NTPC

In 118th 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.

NTPC/Powergrid may update.

Deliberation in the meeting

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.

B.8.3: Bandel Islanding Scheme, WBPDC

The islanding scheme has been placed before 31st TCC Meeting for further concurrence and in 31st 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 117th OCC, WBSETCL informed that the tentative roadmap for the implementation of islanding scheme has been forwarded to WBPDC.

In 118th OCC, WBPDC informed that the islanding scheme will be implemented by December, 2016.

OCC advised WBPDC to start the work immediately as advised by 32nd TCC/ERPC.

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.9: 11KV Auxiliary power supply of 400KV Berhampore Powergrid Substation.

As per Practice, 400KV Substation should have two nos auxiliary power supplies from two different sources. Accordingly, an application had been sent to WBSEDCL for arrangement of 11kV dedicated feeder from nearby Nabagram & Sagardighi Substations on deposit basis for the auxiliary supply of 400KV Berhampore Substation.

The construction of 11kV dedicated feeder from Nabagram has been completed and at present auxiliary power supply of Berhampore Substation is met from the said feeder. However, the reliability and availability of auxiliary supply from the Nabagram feeder is very poor.

Berhampore is a very important station of POWERGRID, feeding power to Bangladesh and West Bengal. The reliability and availability of 11KV auxiliary supply is very much essential for the reliable operation of Berhampore Substation.

WBSEDCL to maintain the reliability and availability of 11KV Nabagram feeder used for supplying auxiliary supply to Berhampore Substation and construct the dedicated Sagardighi feeder as second source of auxiliary supply to Berhampore Substation.

In 116th OCC, Powergrid was advised to interact with Director (Dist), WBSEDCL.

In 118th OCC, Powergrid informed that even though duration of power cuts have been reduced but problem of frequent tripping of the line is still not resolved. The interruption report along with duration and dates has also been forwarded to WBSLDC/WBSEDCL.

Regarding second dedicated feeder, Powergrid informed that money has been deposited to WBSEDCL around two and half years back but there is no progress.

WBSEDCL assured to look into and resolve.

WBSEDCL/Powergrid may update.

Deliberation in the meeting

WBSEDCL informed that there is ROW issues in some portion of line and it will be resolved soon

Item No. B.10: Restoration of PLCC system of JUSNL Substations

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

In 32nd TCC/ERPC, JUSNL informed that the amount has been sanctioned and the letter has been issued to Powergrid for rectification of PLCC system.

In 118th OCC, Powergrid was advised to start the work of JUSNL part at the earliest.

Powergrid informed that they will carry out the detail site visit of the substation to prepare the final cost estimate and submit to JUSNL for their consent. After getting the final concurrence from JUSNL they will start the work.

JUSNL assured to do the needful on receipt of final estimate.

JUSNL and Powergrid may update.

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

Deliberation in the meeting

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(WBPDCL) 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 WBPDCL (for Santaldih end) and OPTCL (for Joda end) to complete the PLCC schemes of both the above lines.

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

WBPDCL 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 & Sh. Jaydeb Bhattacharyya, Sr, Manager(PS), M.- 8336904059, e-mail: 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

(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.)

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)

Item No. B.11: Concerned members may update the latest status.

B.11.1. Commissioning of 400 kV Ind-Bharath to Jharsuguda D/C (dedicated line)

Ind-Bharath updated the status in 116th OCC as follows:

- All the 125 towers foundations have been completed and 118 have been erected.
- Due to route alignment one tower (i.e. 126th tower) has been increased which is under ROW negotiation.
- Stringing work of 34 km out of 39.74 km line has been completed.
- The bay work at 400 kV Jharsuguda (Kenapalli) S/s is in advanced stage, being executed under the consultancy of Powergrid, will be completed ahead of line.

Ind-Bharath may update the latest status.

Deliberation in the meeting

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. 126th 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.*

B.11.2. Status of construction of 400 kV Sterlite-Jharsuguda D/C sections

In 31st TCC/ERPC followed by 115th 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.

32nd TCC advised Vedanta to strictly adhere to the schedule.

In 118th OCC, Vedanta informed that 42 out of 66 foundations and installation of four towers have been completed. The expected date of commissioning of the line is July, 2016.

However, OCC advised Vedanta to adhere the decision of 32nd TCC/ERPC and complete the line by April, 2016.

Vedanta may update.

Deliberation in the meeting

Vedanta informed that 44 out of 66 foundations and installation of six towers have been completed.

B.11.3. Status of construction of Chuzachen bay at Rangpo S/s.

In 32nd 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 118th 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 representatives were not available for discussion.

B.11.4. Non availability of important bays at FSTPP end

In 109th OCC, NTPC informed that 400kV FSTPP-KhSTPP-IV Tie bay will be charged by 1st week of June, 2015.

In 118th OCC, NTPC informed that the work will be done in March, 2016.

OCC took serious note of non- charging of the tie bay even though shutdown was given on several occasions. OCC advised NTPC to complete the work at the earliest.

NTPC may update.

Deliberation in the meeting

NTPC informed that the work was completed on 12th March, 2016

B.11.5. Non-availability of Tie bay of 400kV Sagardighi-Bhramapore-II

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

ERLDC informed that 400 kV Sagardighi- Bhramapore 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.

WBPDCCL may update.

Deliberation in the meeting

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.

B.11.6. 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 116th OCC, Powergrid informed that the reactors will be in service by January, 2016.

In 117th 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 118th OCC, Powergrid informed that Reactor-2 will be in service by 8th March, 2016.

Powergrid may update.

Deliberation in the meeting

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,

B.11.7. Status of Bus Splitting schemes in Eastern Region

A. Bus Splitting of Powergrid Sub-stations

In 11th 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 118th 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

Powergrid informed that for completion of work at Biharshariff shutdown is required.

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

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

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

In 118th OCC, NTPC has given the present status as follows:

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

Further, NTPC informed that the bus splitting scheme would be completed by December, 2018.

NTPC may update.

Deliberation in the meeting

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.

B.11.8. 220 kV inter-connecting lines of OPTCL with 400/220 kV Bolangir (PG), Keonjhar & Pandiabil S/s

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

In 118th OCC, OPTCL updated the completion schedule of inter-connecting system as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	2x315MVA 400/220kV Bolangir S/s	
a.	LILO of one circuit of Sadeipalli-Kesinga 220 kV D/C line at Bolangir S/S	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	Ready for charging
2.	400/220 kV Keonjhar S/S	
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
3.	400/220kV Pandiabil Grid S/s	
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)	May, 2016

OPTCL may update.

Deliberation in the meeting

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.

B.11.9. 220 kV inter-connecting lines of BSPTCL with 2x200 MVA, 400/132 kV sub-stations at Lakhisarai & Banka

In 30th 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 112th 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 118th OCC, BSPTCL updated the latest status as follows:

Sl. No.	Name of the transmission line	Completion schedule
1.	The 2x200 MVA, 400/132 kV Lakhisarai sub-station	
a.	132kV Lakhisarai (PG)-Lakhisarai (BSPTCL) D/C line	Charged
b.	132 kV Lakhisarai-Jamui (BSPTCL) D/C line	Charged on 05.10.2015

2.	2x200 MVA, 400/132 kV Banka sub-station	
a.	LILO of 1 st circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG)	Charged.
b.	LILO of 2 nd circuit of Banka (BSPTCL)-Sabour (BSPTCL) 132 kV D/C line at Banka (PG)	<i>Line completed. Materials awaited for completion of bays.</i>
c.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-I	Completed
d.	132 kV Banka (PG)-Sultanganj (BSPTCL) line-II	Completed

BSPTCL may update.

Deliberation in the meeting

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

Item No. B.12: Third Party Protection Audit

1. Status of 1st Third Party Protection Audit:

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

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

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

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

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

Members may comply.

Deliberation in the meeting

All the constituents were advised to comply the pending observations at the earliest.

2. Schedule for 2nd Third Party Protection Audit:

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

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

Members may decide the schedule for March/April, 2016.

Deliberation in the meeting

Members noted.

Item No. B.13: Inspection of Under Frequency Relays (UFR)

The enquiry committee constituted by MoP recommended in its report (9.3) for ensuring proper function of defense mechanism like UFR etc. Also, as per section 5.2(n) IEGC, RPC Secretariat shall have to carry out periodic testing of UFR relays. In the 22nd TCC & ERPC meeting it was decided that UFR Audit of the ER constituents would be taken up by the UFR Audit group, nominated by the respective constituents.

Accordingly, a sub-group is constituted and carrying out inspection of UFR relays installed in Eastern Region regularly in the following manner:

- In case secondary injection kit is available, frequency setting and ability of the Under Function Relay to actuate may be tested with the injection kit.
- In case secondary injection kit is not available, then frequency setting of UFR may be reset within the operating frequency available at the time of testing and the ability of UFR to actuate may be checked.
- The previous history of relay operation along with requisite load relief may also be checked from log book register maintained in the sub-station.

Following UFRs were inspected during the year 2015.

Sl No	Date	Substation/feeder inspected by the sub-group
1	13.01.2015	132kV Chatrapur of OPTCL
2	13.01.2015	132kV Berhampur of OPTCL
3	14.01.2015	132kV Bhanjanagar of OPTCL
4	14.01.2015	132kV Phulbani of OPTCL
5	15.01.2015	132kV Aska of OPTCL
6	16.01.2015	132kV Balugaon of OPTCL
7	09.07.2015	132kV Brajarangnagar of OPTCL
8	09.07.2015	132kV Sambalpur of OPTCL
9	10.07.2015	132kV Sundargarh of OPTCL
10	10.07.2015	132kV Rourkela of OPTCL

All the inspected UFRs are found working as per the requirement.

Therefore, there is a need of carrying out the UFR inspection in the control areas of DVC, JUSNL, BSPTCL and WBSETCL.

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

Deliberation in the meeting

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

Item No. B.14: 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 plan of Ministry of Power. Power Utilities (including generation, transmission & distribution utilities) of eastern region are to furnish regularly the updated status to on the same to Chief Engineer, Distribution Planning & Development Division, CEA.

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

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

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

Members may note and comply.

Deliberation in the meeting

Members noted.

Item No. B.15: Certification through BIS as per IS 18001:2007 to all generating/transmission units.

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

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

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

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

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

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

Members may note and update the status.

Deliberation in the meeting

Members noted.

Item No. B.16: Energy Generation data management from Renewable Energy Sources

As per Electricity Act, 2003, CEA has been entrusted with the task of collecting electricity generation data. CEA is monitoring all the existing generating stations with capacity more than 25 MW (Conventional sources only). In recent years there has been appreciable growth in generation from Renewable Energy Sources (RES).

In view of above it was decided to monitor all the generating stations under RES connected to the grid and also to bring out month wise, state wise and sector wise report on RES generation in MU including peak generation from RES.

CEA already requested to nominate Nodal officers at the level of SLDC for the above purpose. However, only few states have responded.

Those SLDCs who have not yet nominated the nodal officers for Energy Generation Data management from RES are requested to furnish the details at following email/Fax:

Email: ceaopmwind@gmail.com with a copy to rishika.engineer@gmail.com and s.sewak@cea.nic.in

Nodal officers from CEA: Mrs. Rishika Sharan, Director, CEA, 011-26732663 and 26102263(Fax), Mobile: 9868021299, Mrs. Sarita Sewak, Dy. Director, 011-26732656

SLDCs may note and comply.

Deliberation in the meeting

Members noted.

Item No. B.17: Sub-committee on “Integration of Renewable Energy Sources”.

In the first meeting of the committee for National Electricity Plan (NEP) held on 1st 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 114th 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 as the committee member.

Other constituents (Sikkim) may nominate the committee member.

Deliberation in the meeting

It was informed that 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*

Item No. B.18: Data of Peak Demand – Submission of hourly power cut data

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

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

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

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

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

For the month of February, 2016 data has been received from OPTCL only.

BSPTCL, WBSETCL, CESC and JUSNL may submit the data.

Deliberation in the meeting

The requisite data for February, 2016 has been received from all the constituents.

Item No. B.19: 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 117th OCC, Powergrid informed that SEM has been installed.

However, in 31st 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 118th OCC, Powergrid and JUSNL were advised to coordinate and resolve the issue.

Powergrid/JUSNL may update.

Deliberation in the meeting

JUSNL assured to coordinate for checking of CT ratio and confirm to ERLDC.

ii. 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 117th OCC, Powergrid-Odisha informed that the Meter will be replaced by end of January, 2016.

In 118th OCC, ERLDC informed that Mendhasal data is coming but hanging regularly.

Powergrid informed that the meter will be replaced with in 2 weeks.

Powergrid(Odisha) may update.

Deliberation in the meeting

Powergrid informed that the meter will be replaced soon.

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

OTPCl 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 117th 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 118th 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.

Powergrid agreed to look into the matter and resolve it.

OPTCL and Powergrid may update.

Deliberation in the meeting

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.

Item No. B.20: 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 118th OCC is as follows:

Utility	Scope	Installed Locations	Number of locations where 1 st set of Measurements Completed	Number of locations where 2 nd 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 118th OCC, Powergrid ER-2 informed that 2nd set of measurements have been completed for 34 locations. OPTCL informed that 2nd set of measurements are in progress.

Members may update.

Deliberation in the meeting

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 3rd set, 4th set, 5th set & 6th set of measurements have been prepared which is given at **Annexure- B.20** along with the latest status. It was requested to all the respective constituents to complete the measurements as per the schedule.

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 117th 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.

OPTCL and DVC informed that they are having the restoration plan and agreed to share with ERLDC/ERPC.

WBSETCL also agreed to prepare their restoration procedure and forward to ERPC/ERLDC.

OCC advised BSPTCL, JUSNL and Sikkim to prepare their restoration plan and procedure in coordination with ERLDC/ERPC.

ERLDC may update.

Deliberation in the meeting

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.

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
- 2) Miss Anjali Anand, AEE (SLDC), M.- 7033092546, e-mail- sch.patna@gmail.com

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

Till date nominations have not been received from Sikkim, Rangit, Jorethang, JITPL, Adhunik, Chuzachen.

Above utilities may nominate the Nodal Officer.

Deliberation in the meeting

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

OCC advised all the constituents to nominate their nodal officers at the earliest.

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

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

118th OCC advised all other generators to send the requisite information to ERLDC.

Other Generators may ensure submitting the data.

Deliberation in the meeting

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.

Item No. B.24: Demand and Generation Projection of ER constituents for POC

NLDC vide email dated 10/2/16 has sought confirmation for ER constituents on the assumed demand/generation for calculation of POC charges and losses for 2016-17 Q1.

In 118th OCC, all the constituents were advised to verify their respective data and send the confirmation to NLDC within a week. Also, if there is any deviation in the given figures, the same may be communicated to NLDC within a week.

Constituents agreed.

Members may update the status.

Deliberation in the meeting

It was informed that POC validation meeting for 2016-17 Q1 was already convened on 16.3.2016.

Item No. B.25: Furnishing Data to CTU for TTC/ATC estimation in planning horizon

CTU vide letter dated 8/1/16 requested all state's to furnish their respective bus-wise projected demands for 2017-18 and 2018-19 and also intra-state transmission system data (220KV and above) to work out ATC/TTC in planning horizon. A reminder in this regard was further sent by CTU to all states on 4/2/16.

All states are requested to furnish the information sought by CTU, with a copy to ERLDC.

In 118th OCC, all the ER utilities were advised to furnish the requisite data in respect of their respective control areas. Constituents agreed.

Members may note for compliance.

Deliberation in the meeting

It was informed that WBSETCL has already furnished the data.

OCC advised all other constituents to submit the data at the earliest.

Item No. B.26: Details of HTLS conductors

The following lines are having HTLS conductor:

- 1) 400KV Purnea-Blnaguri-1,2
- 2) 400KV Sagardigi-Bahrapur D/C
- 3) 132KV Malda-Malda D/C
- 4) 220KV New-Melli-Rangpo D/C

Owner of the above lines may please specify the specific names of conductor used and current carrying capacity at different ambient temperature and conductor temperature.

In 118th OCC, WBSETCL and Powergrid agreed to submit the details to ERPC/ERLDC.

Subsequently, WBSETCL vide mail dated 05.03.2016 intimated that WBSETCL has changed ACSR Panther Conductor of Malda-Malda (PG) 132 kV D/C line by Sterlite Make ACCC Casablanka Conductor and specifications of the conductor was also submitted which is given at Annexure- B.26.

Powergrid may update.

Deliberation in the meeting

Powergrid informed that the information will be made available soon.

Item No. B.27: 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 119th 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.

Members may update.

Deliberation in the meeting

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.

Item No. B.28: Reasons for demand –supply gap and its variation -- Agenda by NPC

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

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

119th OCC advised all the constituents to comply.

Members may update.

Deliberation in the meeting

Constituents noted for compliance.

Item No. B.29: 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.29.

Members may update.

Deliberation in the meeting

*OCC advised all the constituents to update the latest status of their DR/EL and GPS as given in **Annexure- B.29.***

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

Item No. B.30: 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.30.

Members may update the latest status.

Deliberation in the meeting

OCC advised all the constituents to update the latest status of ERS towers as given in **Annexure- B.30.**

Item No. B.31: Checking of healthiness of new Special Energy Meters and its compatibility with RLDC software i.r.o of first charging of transmission elements--- ERLDC

NLDC vide letter has intimated that the procedure for charging and declaration of trial run is in the process of being modified considering SEM related issues post charging of the transmission elements. It has been proposed that the transmission lines which require certificate from NLDC/RLDC for successful trial operation completion may initially be idle charged for 6 hrs. from one end. Thereafter SEM readings shall be provided by the transmission licensee to RLDCs which shall be checked by RLDCs to ensure SEM healthiness and its compatibility with RLDC/Substation software. Permission for power flow on the line shall be given by RLDCs/NLDC only after receiving the SEM readings for 6 hrs charging period and ensuring the healthiness of SEM and its compatibility with RLDC/ Substation software. The SEM readings shall also be forwarded by the transmission licensee to RLDCs after 6 hrs of power flow. In case of any problem in metering, the transmission line may be opened and the problem corrected before permitting the 24 hour trial operation.

Constituents may note and give their views.

Deliberation in the meeting

OCC advised all the constituents to note for compliance.

Item No. B.32: 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	March, 2016
2	Maithon	1 st week of June 2015		1 st Week of October 2015	<i>Done on 23-12-2015</i>
3	Rengali	2 nd 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 rd week of June 2015	<i>Done on 16/07/15</i>	2 nd week of February 2016	March, 2016
5	Subarnarekha	2 nd week of October 2015	<i>Done on 09/06/15</i>	1 st week of January 2016	After getting water
6	Balimela	1 st week of November 2015		1 st week of March 2016	March, 2016
7	Teesta-V	2 nd week of November 2015		Last week of February 2016	March, 2016
8	Chuzachen	1 st week of May, 2015		2 nd week of January, 2016	March, 2016
9	Burla	Last week of July 15	Jan, 2016	Last week of February, 2016	

Members may update.

Deliberation in the meeting

Members updated the schedule.

ii) Mock Black Start exercise for Chuzachen and Teesta

As per decision taken in the previous OCC meetings, mock blackstart exercise of Teesta and Chuzachen with load segregation in Sikkim and North Bengal(for running in islanded mode)has been planned. Accordingly, ERLDC would be presenting the network for finalization of the load segregation and the procedure of switching actions to be adopted sequentially for successful islanding and re-synchronization of the islands. Sikkim and SLDC,WBSETCL may confirm/suggest to finalize the load segregation and the switching actions. Also, nodal persons may be identified to ensure that the operators are well versed with the procedure/switching actions to be performed. The dates may also be finalized.

In 117th OCC, ERLDC explained the procedure of mock black start procedure of Teesta V and Chuzachen.

It was agreed to carry out the black start exercise of Teesta V and Chuzachen in February, 2016.

In 118th OCC, members agreed to carry out the black start exercise of Teesta V and Chuzachen in last week of February, 2016 or first week of March, 2016.

NHPC and Chuzachen may update.

Deliberation in the meeting

Members agreed to carry out the black start exercise of Teesta V and Chuzachen in March, 2016.

iii) 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.33: 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 108th 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 115th 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

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

In 117th 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 118th 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.34: 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 February, 2016:

Power Plant	Max and Min Voltage observed for Feb 16 (KV)	Date for monitoring (February 16)
Farakka STPS	426,406	1,12
Khalgaon STPS	424,408	1,12
Talcher STPS	414,402	15
Teesta	412,403	10
Bakreshwar TPS	408,387	13
Kolaghat TPS	420,395	17
Sagardighi TPS	Data not available	---
MPL	424,410	4
Mejia-B	426,416	13
DSTPS	428,417	16
Adhunik TPS	427,408	15
Sterlite	429,420	10

ERLDC may update.

Deliberation in the meeting

It was informed that the reactive performance of all the generators are satisfactory except DSTPS and Adhunik TPS.

It was also informed that the data from Sagardighi TPS is not available, WBPDCCL was advised to check and resolve it.

a) Schedule for reactive capability tests

The following was status of regarding reactive capability testing:

- Adhunik TPS(both units) –Yet to be confirmed by Adhunik
- DSTPS (Unit#2 only pending) – Not yet done
- Koderma TPS Unit#1
- 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 April' 16

Members may finalize the Shutdown proposals of the generating stations for the month of April' 16 as 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 April, 2016 is given at **Annexure-C.1**.*

A. Shutdown of Line 401 (DSTPS-RTPS) for OPGW stringing

DVC vide mail dated 16.03.16 requested for shutdown of line 401(Ckt-1) between DSTPS & RTPS from 28/3/2016 to 16/4/2016 daily from 7.00 hrs to 16.00 hrs for OPGW work.

This is very urgent as stringing of balance OPGW in this line has been pending for over a year now and OPGW communication at DSTPS & RTPS is required to be urgently established for better voice & data communication. There will be no data interruption at CLD, Maithon or ERLDC due to this shutdown work.

Deliberation in the meeting

OCC approved the requisite shutdown.

Item no. C.2: Anticipated power supply position during April'16

The abstract of peak demand (MW) vis-à-vis availability and energy requirement vis-à-vis availability (MU) for the month of April'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 April, 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	15-Jan-16
STERLITE	4	600	OUTAGE FOR LOW	4-Mar-16
FARAKKA	1	200	CW FEEDER CANNAL	22-Feb-16
BARH	4	660	ELECTRICAL FAULT	10-Mar-16
KAHALGAON	4	210	ELECTRICAL FAULT	9-Mar-16
MEJIA	2	210	STATOR EARTH	5-Dec-15
MEJIA	1	210	DUE TO LOW	10-Dec-15
MUZAFFARPUR	1	110	TURBINE PROBLEM	1-Mar-16
DSTPS	1	500	GT TRIPPED	29-Feb-16
KODERMA	1	500	ASH POND PROBLEM	11-Nov-14

BOKARO B	1	210	TUBE LEAKGE	26-Jan-16
KOLAGHAT	6	210	ROTOR EARTH FAULT	18-Feb-16
KOLAGHAT	4	210	BOILER TUBE	5-Jan-16
DPL	7	300	Boiler tube leakage	5-Mar-16
WARIA	4	210	BOILER TUBE	9-Mar-16
WARIA	3	140	TUBE LEAKGE	19-Oct-15
BOKARO B	2	210	TUBE LEAKGE	27-Feb-16
MPL	2	525	BOILER TUBE	4-Mar-16
SANTALDIH	6	250	SUPERHEATER TUBE	8-Mar-16
TENUGHAT	1	210	DRUM LEVEL LOW	10-Mar-16

(ii) Transmission elements

Name of the Line/Element	Outage	Reason
400 KV TALA-BINAGURI-I	11.12.15	LINE ANTI THEFT
400 KV TALA-BINAGURI-II	11.02.16	S/D TAKEN BY TALA TILL
400 KV FARAKKA - MALDA I, II	04.12.15	HTLS RECONDUCTORING
125 MVAR BR-II AT BINAGURI	29.02.16	BUSHING OF ALL THE
315 MVA ICT-I AT SASARAM	26/02/16	S/D AVAILED BY PGCIL
400 KV BONGAIGAON-	24.02.16	O/V OPENED
765 KV JHARSUGUDA-	10.03..16	HAND TRIPPED DUE TO
765 KV JHARSUGUDA -ANGUL	10.03..16	HAND TRIPPED DUE TO
1500 MVA , 765/400 ICT I,II AT	10.03..16	HAND TRIPPED DUE TO
400 KV TALA-BINAGURI-I	11.12.15	LINE ANTI THEFT
400 KV TALA-BINAGURI-II	11.02.16	S/D TAKEN BY TALA TILL

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 nd D/C-Quad)	
6	400kV Sterlite-Jharsuguda D/C	
7	765kv Anugul-Srikakulum D/C	
8	400kV Sasaram-Daltonganj D/C &Daltonganj S/Stn	
9	400 kV Ranchi-Raghunathpur D/C	March, 2016
10	220 kV TLDP-IV – NJP ckt-2	
11	220 kV Bidhansai-Cuttack D/C	
12	220 kV Girdih-Koderma D/C	Commissioned on 28.09.15
13	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 50.39Hz at 18:03Hrs of 14/02/16 and a minimum of 49.71Hz at 09:14Hrs of 19/02/16. 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 February'16.

Members may note.

Deliberation in the meeting

Members noted.

Item no. D.3: Grid incidences during the month of February, 2016

SI no	Disturbance Place	Date & Time	Generati on loss (MW)	Load loss (MW)	Remark	Catego ry
1	JUSNL (Chandil)	16:59 hrs 24/02/16	0	125	Total Power Failure occurred at 220/132kV Chandil S/s due to burning of 220/132kV, 100 MVA ATR-IV at Chandil and consequently all the 220/132kV lines emanating from Chandil S/s along with remaining ATRs at Chandil tripped.	GD-1
2	WBSETCL (Kolaghat)	18:54 hrs 24/02/16	270	0	Multiple elements tripping occurred at 220kV Kolaghat S/s due to operation of LBB protection for 220kV Main Bus-II at Kolaghat S/s and hence all the elements connected to Main Bus-II tripped.	GD-1

3	NJP (WBSETCL)	03:55 hrs 29/02/16	NIL	NIL	At 03:55 hrs, Bus section – A & B of 220kV Binaguri (PG)- NJP tripped due to overvoltage and subsequently all the 220/132kV , 160 MVA Transformers at NJP (WB) tripped due to over flux. At the same time 125 MVA B/R at Binaguri had also tripped on indication Of Y-Ph differential protection.	-
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Members may note.

Deliberation in the meeting

Members noted.

Item no. D.4: COD of IBEUL Unit#1 – Special Agenda

Ind Barath Energy (Utkal) Ltd. (IBEUL) vide letter dated 29.02.2016 intimated that their Unit#1 after getting synchronized on dt 25.02.16 at 13:11 hrs with grid code no 748 has continuously generated 21,579.335 MWH upto 00:13 hrs of dt 29.02.16 with minor interruption and due information to ERLDC. It was informed that the unit has completed more than 72 hours generating around 350 MW & therefore, IBEUL wanted that their unit may be considered for COD certification to facilitate coal allocation to IBEUL.

Accordingly CEA vide letter CEA/TPM-I/JHAR-7/ODS/ER/2015/165 dated 02.03.16 communicated that Unit-I of IBEUL has achieved full load on 25.02.16.

Subsequently, IBEUL in letter dated 02.03.2016 further emphasized that request for COD certification is only for facilitating coal allocation to IBEUL and assured not to do the commercial transaction to Tamilnadu through the present LILO arrangement.

Therefore Members are requested to deliberate the issues related to COD of Unit #1 of IBEUL.

Deliberation in the meeting

IBEUL informed that they have fulfilled all the points as decided in the meeting of 10.08.15 except the completion of dedicated line. The dedicated line could not be completed due to severe ROW issue of the last tower which has now been resolved and it will be commissioned within another one month i.e. by April/May, 2016. In view of above circumstances, IBEUL requested for allowing COD of their unit through the existing arrangement.

GRIDCO vide letter dated 15.03.16 informed that:

- *GRIDCO don't agree to the above manner proposal of declaration of CoD as it violates the Regulation 4 of CERC (Terms and Conditions of Tariff) Regulations, 2014 which stipulate the procedure for declaration of DOCO.*
- *There is no such provision of declaration of CoD of a unit for different purposes like CoD for coal allocation & CoD for commercial operation.*
- *As decided in the special meeting for "Synchronization of Unit #1 (350 MW) of Ind Barath (IBEUL) through LILO of 400 kV Raigarh-Jharsuguda-I at Ind Barath (IBEUL)" held on 10.08.2015 at ERPC, Kolkata, declaration of the unit as COD will only be considered after completion of the dedicated line 400 kV Ind Barth-Jharsuguda D/C line.*

ERLDC expressed that as per the minutes of meeting of 10.08.2015, IBEUL was not supposed to declare their COD with the present LILO connection and it is not acceptable.

Member Secretary, ERPC informed that:

- As per CERC order dated 08.08.2014 for Petition No. 85/MP/2013 on “Sasan UMPP- Declaration of COD and Scheduling” has clarified that the PPA contains the necessary provisions with regard to the performance testing and commercial operation of the unit of the generating stations and the same should be strictly complied with. In other cases, if adequate provisions are not made in the PPA, the RLDC shall be guided by the provisions in the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 in this regard.
- In the meeting of the Standing Committee on Power System Planning in Eastern Region held on 20.9.2010, Member (PS), CEA stated that in view of the possibility of the IPP generations being stranded on account of delay in implementation of ATS, LILO of the other circuit at Ind-Bharath would be made as temporary arrangement to avoid such situation. These LILO would be removed when the project specific transmission system as decided would be in place.
- Subsequently, CERC vide order dated 07.10.2015 on Petition No. 112/TT/2013 regarding “Determination of transmission tariff of 9 nos. of assets under Transmission System for Phase-I Generation Projects in Orissa-Part-A in Eastern Region” has noticed that some of the generation developers have not commissioned the dedicated lines and are continuing to evacuate power through the temporary LILO arrangements. Further, the commission has directed to discuss the issue in the Standing Committee Meeting on Transmission Planning and finalize the timeline for replacement of the LILOs of generation developer by dedicated transmission lines within a period of six months from the date of connection of LILO of the Powergrid.

Therefore considering all the information cited above, OCC decided the following:

- The trial run of 72 hours w.e.f. 25.02.16 at 13:11 hrs upto 00:13 hrs of 29.02.16 could not be considered for COD.
- LILO can be used for declaration of COD.
- IBEUL is to follow CERC order dated 08.08.2014 for Petition No. 85/MP/2013 on “Sasan UMPP- Declaration of COD and Scheduling” for declaring COD of their unit#1.
- While declaring the COD, IBEUL is to follow the instruction of ERLDC on real time basis.
- ERPC is to peruse with CEA for finalizing the timeline for replacement of LILO by dedicated transmission line as ordered by CERC.

It was informed that ERPC vide letter dated 16.03.2016 has already placed the issue before CEA/CTU for finalizing the timeline for replacement of LILO by dedicated transmission line within a period of six months from the date of connection of LILO.

Item no. D.5: Additional Agenda

D.5.1 Uploading of information regarding RRAS service providers i.r.o implementation of Ancillary services:

Hon'ble CERC, vide communication dated 10th March 2016, has approved the Detailed Procedure for Ancillary Services Operations. As per the procedure, in accordance with the Para 6.1 of the Approved Procedures, RPCs are required to publish the following information (as per Format-AS3) on their respective websites on a monthly basis based on the information supplied by the RRAS Providers:

- a)RRAS Provider Station Name
- b)Unit wise and Total Installed/Effective Capacity (MW)
- c) Type of fuel used
- d) Maximum possible ex-bus injection (including overload if any)
- e) Region and Bid Area
- f)Ramp Up Rate (MW/Min)
- g) Ramp Down Rate (MW/Min)
- h) Station Technical Minimum (MW and in %), as per the relevant CERC Regulations on technical minimum of plants
- i) Fixed cost or Capacity Charges (paise/kWh up to one decimal place)
- j) Variable cost or Energy Charges (paise/kWh up to one decimal place)
- k) Start-up time for cold start and warm start
- l) Module constraints, if any, in the case of gas based stations.

The letter from NLDC alongwith a copy of the CERC approved Procedure for Ancillary Services is available at POSOCO as well as ERPC website.

It is hereby requested that the above information may kindly be facilitated so as to implement Ancillary Services at the earliest.

Members may discuss.

Deliberation in the meeting

It was informed that ERPC vide fax message no 130 dated 15.03.16 has already requested the respective ISGS generators to furnish the requisite details.

OCC advised all the ISGS generators i.e. NTPC & NHPC generating stations to furnish the requisite information to ERPC at the earliest.

D.5.2 Scheduling of Un-requisitioned Surplus (URS) power from ISGS -- ERLDC

118th OCC advised all the respective constituents to submit their standing consent by 29th February, 2016 so that w.e.f. 1st March, 2016, ERLDC can schedule the URS power as per CERC directions.

As per the CERC ROP dtd.05/01/16 in Petition No.16/SM/2015, standing consents of both generators and all the beneficiaries of the generator are required to be received by the RLDC for URS scheduling, and in case the same is not available, RLDC shall schedule the URS power on basis of consents submitted by the generating station.

However, ERLDC did not receive any standing consent from majority of the beneficiaries/ ISGS generators and in respect of standing consent received it was not confirmed that the decision of the concerned RLDC will be binding on them with regard to scheduling and dispatch of URS power.

Hence to enable continuation of the scheduling, ERLDC intimated NTPC vide mail dated 01/03/16 that with effect from 01/03/16, they are continuing to schedule URS power assuming that any communication/consent from NTPC for scheduling of URS power has been forwarded to ERLDC only after taking the consent of all the corresponding beneficiaries.

Deliberation in the meeting

OCC advised NTPC to get consents from the respective beneficiaries before sending the request to ERLDC for schedule of URS power.

OCC also advised all the constituents to cooperate for smooth scheduling of URS power.

D.5.3 Anti theft charging of 400 kv d/c Sasaram-Daltonganj line -- Powergrid

Powergrid vide letter dated 15.03.16 intimated that 400kV D/C Sasaram –Daltonganj Transmission Line is ready for charging as an anti-theft measure through 400kV Nabinagar Line-2 bay at Sasaram as per clearance of CTU.

As per Amendment Regulations 2015 of CEA for any anti-theft charging of transmission line, it is stated that “the owner of the said line may energize on their own with compliance of all the provisions of these regulations for anti-theft purpose and therefore, the application for anti-theft charging may not be accepted henceforth”.

However, as per ERLDC, before charging of the line for anti-theft measures, the clearance need to be taken from both CTU & CEA and matter needs to be discussed in suitable forum to arrive at a conclusion so that further clearance can be accorded by ERLDC.

Members may discuss.

Deliberation in the meeting

OCC advised Powergrid to charge the line for anti theft purpose only after fulfilling all the provisions of CEA regulations for anti-theft charging.

D.5.4 Severe low voltage at 220kv Dalkhola S/Stn of WBSETCL -- WBSETCL

WBSETCL vide letter dated 15.03.16 reported that presently, 220kV Dalkhola s/stn and its connected 132kV Sub-stations, are experiencing severe low voltage problem during evening peak hours despite maintaining 2 x 160 MVA Transformer Tap position at No.3 at Dalkhola S/stn. Example: On 14.03.2016 at 19:15 Hrs, 220kV Bus Voltage at Dalkhola went down 201 KV when its feeding sub-stations such Raiganj, Samchi, Gangarampur etc. received 132kV bus voltage as 110 KV, 103 KV and 104 KV respectively. Such low voltage is causing public commotion in the districts of North Dinajpur , South Dinajpur and Malda.

Therefore the said low voltage problem may be addressed in view of on-going campaigning of Bidhan Sava election in the State and maintaining law and order.

Members may discuss.

Deliberation in the meeting

It was informed that with the commissioning of Kishanganj S/s the low voltage problem at Dalkhola has been resolved.

OCC advised ERLDC and WBSETCL to coordinate for smooth running of grid during the campaigning of Bidhan Sava election

Participants in the 119th OCC meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 18.03.2016 (Friday)



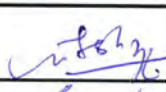


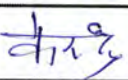
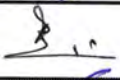

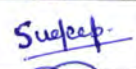

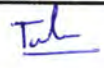



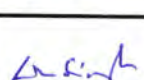
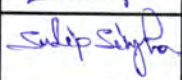
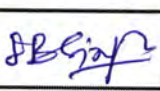
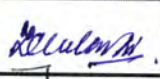
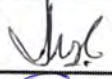

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
1	A K Bandyopadhyay	MS/ERPC	9433068533	mserpc-power @nic.in	A K Bandyopadhyay
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6	P.S. Das	AsstGM(SO), ERLDC	9433041832	psdas-psd@yahoo.in	P.S. Das
7	B. Pan	DE(SO)/DVC	9903247102	bpan.dvc@gmail. com	B. Pan
8	S. Mallick	Sr. Manager NTPC Kharagpur	9473196643	soumenmallick@ntpc.co.in	S. Mallick
9	S.K. Sharma	AGM(OS) ERLDC, NTPC	9471008359	sksharma06@ntpc.co.in	S.K. Sharma
10	S. Nayak	AGM(OS)/ED-2 NTPC	9437041581	snayak@ntpc.co.in	S. Nayak
11	B.N. De Bhattacharya	Gm (CO), Coal & Power	9910377993	barin@powergridindia. com	B.N. De Bhattacharya
12	Santner	Engineer, BPSO, BPL	+9751728024	santner@bpl.bt	Santner
13	Langa Tshering	EE, DGPC		Langatshering@gomila	L. Tshering
14	J. Mohapatra	Asst. Genl. Mgr., IBEDL	9471721299	modapatraj6@gmail.com	J. Mohapatra
15	R.C. Mohapatra	Adv. IBEDL IBEDL	9437044660	rcmohapatra1@gmail.com	R.C. Mohapatra
16	Dr. D.K. Singh	AGM, VL	9777451531	singh.deepak@vedanta. co.in	Dr. D.K. Singh
17	J.P. Malik	AM, GMR	9777456737	jitendra.prasad.malik @gmrgroup.in	J.P. Malik
18	B. Verma	Engg/ERLDC	990380731	bramhanand18 @gmail.com	B. Verma
19	M.K. Thakur	Asst. Mgr/ERLDC	9432351832	mktelect@gmail.com	M.K. Thakur
20	Lugyan Tshering	EE/OD	-	ogentshe.dgpc@gmail.com	Lugyan Tshering

Participants in the 119th OCC meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 18.03.2016 (Friday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
21	Ugyen Chophel	Sr. Eng BPSO, BPC Bhutan	-	ugyenchophel@bpc.bt	
22	N.C. Dash	Chief Advisor Power SBECL	9437376733	ncdash.2009@rediffmail.com	
23	Ugyen Tenzin	Asst. Engg	-	ede2063@gmail.com	
24	Tenzin Dorji	JE	17670070	t.dorji298@gmail.com	
25	M. C. Malasi	IBPIL	26145973	malasi_lo@yahoo.com	
26	K. Rajendra	CM POWERGRID	9434740019	erts2am@gmail.com	
27	D. Biswas	POWERGRID	9434740091	erts2am@gmail.com erts2am@gmail.com	
28	Monodip Ghosh	ENICL SIBS	779780078	monodip.ghosh@gmail.com	
29	Sudeep Kumar	Sr Engg / PGIL Patna	9431820338	sudeep.kumar1234@gmail.com	
30	S.K. Naik	ch. mgr, PG BPSR	9437962169	onmodisha@gmail.com	
31	T. R. Mohapatra	ch. mgr / ERIL	9433041873	tushar.mohapatra@gmail.com	
32	P.K. Pradhan	Director (Genl) GRIDCO	9437125794	prasanta3@gmail.com	
33	V. Kalyanasoren	SG, ERIL	84024-93969	alwconman@rediffmail.com	
34	Rajendra Prasad	TUNL ARV.B.	9031049934	r.p.ttp8@gmail.com	
35	D. K. Singh	ESE, SLDC BPSCL Patna	7763817716	slde.bsab@gmail.com	
36	SUDIP SINGHA	CRITL, JUSNL	9386729386	sudipsingha83@gmail.com	
37	Dharmbeer Singh	AEC/JUSNL	9771850485	slde@nchi@gmail.com	
38	T. K. MUKHOPADHYAY	SM(O) / DPL	9832200922	tapasmukji@gmail.com	
39	T. K. DE	CB / WBSBCL	9433870748	kumartapande@gmail.com	
40	S. Roy	CA WBSLDC	9434710030	sabpa-60@yahoo.co.in	

Participants in the 119th OCC meeting of ERPC

Venue: ERPC Conference Hall, Kolkata

Time: 11:00 hrs

Date: 18.03.2016 (Friday)

Sl No	Name	Designation/ Organization	Contact Number	Email	Signature
41	ARUNAVA SEN GUPTA	DGM (EC) CESC Ltd	9881802682	arunava.gupta @slp-sg.in	
42	PRAKASH KUMAR GUPTA	DGM (O) KTPS	8336903960	pgupta@adpocl. co.in	
43	M. R. Mohanty	Sr. GM (CS) SLDC	9438907310	murmohanty113@guail. com	
44	A. Sathy	Dy. Manager GRIDCO	9438506354	ele.asethi@gridco.co.in	
45	Sarat Kumar Das	D-G M. (Elect.)	9438907025	ele.saratdas@optcl.co.in	
46	H. P. Mahapatra	Mgr (R) OHPC	09861164943	hpm.ohpc@gmail.com	
47	C. S. Bobade	VP, SITPL	8130613563	transmission@ indialgroup.com	
48	N. P. Sahu	SM (OS)	8336903700	n90sahu@wbpdcl. co.in	
49	C R Haldar	ACE/WBSLDC	9432209501	ekhaldaar@yahoo.co.in	
50	P. K. Kundu	ACE/SLDC/ WBSETCL	9434910263	pkundu_1961@yahoo. co.in	
51	N. Khan	EO/GRIDCO	9433035435	khannuruddin14@gmail.com	
52	RADEEP BHATTACHARJEE	EEE, BSPHCL	9830380689	rekolbsphcl@gmail.com	
53	SANDIPAN MUKHERJEE	A.M, DPL	9881716992	Sandi-dp@rediffmail. com	
54	S. KETRIWAL	EE, ERPC	9831919509	eecon2.erpcc@gov.in	
55	A. Se.	AEE, ERPC	9681932906	alixpantha@gmail.com	
56	S. R. Saldur	A.G.M (Operation)	9223552151	ssaldur@tatapower. com	
57	Nadim Ali	Dy. Mgr (M)	9432357831	nadim.p.gul@ focust.in	
58	D.K. Bauri	EE, ERPC	9883617236	eeop.erpcc@gov.in	
59					
60					



भारत सरकार
Government of India
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
पश्चिम क्षेत्रीय विद्युत समिति

Western Regional Power Committee

एफ -3, एमआयडीसी क्षेत्र, अंधेरी (पूर्व), मुंबई - 400 093

F-3, MIDC Area, Andheri (East), Mumbai - 400 093

दूरभाष Phone: 022- 28209506; 28200194; 28200195; 28200196 फैक्स Fax : 022 - 28370193

Website: www.wrpc.nic.in

E-mail : opc-wrpc@nic.in



आई एस ओ : 9001-2000

ISO: 9001-2000

NO. WRPC/OPN/2015-16/

DATE: 08.03.2016

To

489 =

1. The Chief Engineer (Load Despatch),
CSPTCL, PO- Sunder Nagar,
Danganiya, Raipur-492 013
2. Executive Director, PGCIL,
4th & 5th floor, ESIDC, Commercial Complex,
Mahadev ghat Rd.,
Raipur, Chhattisgarh,

SUBJECT: Raigarh- Budhipadar charging-reg.

Sir,

In continuation to our letter dated 18.12.2015 addressed to Member Secretary, ERPC on the above subject, he informed that the issue of charging of Raigarh- Budhipadar was placed in 32nd TCC/ERPC on 19/20-02-2016. In the meeting ERPC/TCC agreed for charging the line. OPTCL informed that they need some details such as protection settings, meter and communication details to fill B1 to B5 formats to ERLDC for Charging.

For further co-ordination on the issue OPTCL has nominated following two official:

1. Sri M.R.Mohanty, Sr.GM, 09438907310;
2. Sri L.Nayak, GM, 09438907801;

You are therefore requested to interact the concerned official of OPTCL for charging of the line at the earliest.

Thanking you,

Yours truly

(S D TAKSANDE)

MEMBER SECRETARY

Copy to:

1. General Manager, WRLDC, Mumbai
2. General Manager, ERLDC, Kolkatta.
3. Member Secretary, ERPC, Kolkatta.



**No. CEA/GO&D/OPM/TPR/2015/
Government of India
Ministry of Power
Central Electricity Authority
OPM Division**

**Sewa Bhavan, R.K. Puram
New Delhi - 110066
Dated: 28.10.2015**

Sub. : Under performance of Thermal Power Stations of Eastern Region-reg.

Reference is invited to the Monthly Generation Report (18 column) for the month of September, 2015 published by CEA, which indicates the dismal performance of the Thermal Power Generating Stations of the country as a whole and Eastern Region in particular. The analysis of data and subsequent examination shows that the thermal power stations of Eastern Region are running on low PLF. The list of such Thermal Power Stations running under PLF less than the national average PLF of 60.90% may kindly be seen at Annexure. Looking into the Annexure it may be concluded that efforts could have been initiated for improvement of the operating parameters of these stations viz a viz PLF, Heat Rate, Secondary Fuel Oil consumption and Aux Power consumption as well as early rectification of the outages.

It is, therefore, suggested that a meeting may be called by ERPC at Kolkata of all the stake holders to discuss the reasons and possible remedies of the same. A convenient date and timing of such meeting may kindly be intimated to this division for attending the meeting. The agenda of the meeting would be as below:

The utilities may come out with a concrete proposal/action plan for the entire financial year for improvement of PLF, Heat Rate, secondary fuel oil and auxiliary power consumption of their Thermal Power Stations.

Encl. As above.

**(Chandra Shekhar)
Chief Engineer (OPM)**

**Member Secretary, Eastern Regional Power Committee (ERPC), Kolkata
No.CEA/GO&D/OPM/Misc./2015/ dated 28.10.2015**

Central Electricity Authority
Operation Performance Monitoring Division

List of Power Stations of Eastern Region operating below the National Average PLF of 60.90

Name of the Station	Unit No.	Capacity	State	Utility	Date of Stabilization	Fuel	Comm PLF
PATRATU TPS	6	90	JHARKHAND	JSEB	17/12/1971	COAL	16.2
PATRATU TPS	10	110	JHARKHAND	JSEB	01/09/1986	COAL	56.62
MUZAFFARPUR TPS	1	110	BIHAR	NTPC Ltd.	01/03/1986	COAL	43.74
MUZAFFARPUR TPS	2	110	BIHAR	NTPC Ltd.	01/04/1987	COAL	36.81
TENUGHAT TPS	1	210	JHARKHAND	TVNL	01/04/1997	COAL	58.26
MAHADEV PRASAD STPP	1	270	JHARKHAND	ADHUNIK	01/02/2013	COAL	54.49
MAHADEV PRASAD STPP	2	270	JHARKHAND	ADHUNIK	01/06/2013	COAL	33.29
CHANDRAPURA(DVC) TPS	1	130	JHARKHAND	DVC	30/09/1964	COAL	56.94
DURGAPUR TPS	3	130	WEST BENGAL	DVC	31/05/1967	COAL	52.87
DURGAPUR TPS	4	210	WEST BENGAL	DVC	01/12/1982	COAL	17.94
BOKARO `B` TPS	1	210	JHARKHAND	DVC	01/05/1987	COAL	27.56
BOKARO `B` TPS	3	210	JHARKHAND	DVC	01/08/1994	COAL	17.61
MEJIA TPS	1	210	WEST BENGAL	DVC	01/04/1998	COAL	56.78
MEJIA TPS	2	210	WEST BENGAL	DVC	01/11/1999	COAL	45.42

MEJIA TPS	3	210	WEST BENGAL	DVC	01/06/2000	COAL	40.48
MEJIA TPS	4	210	WEST BENGAL	DVC	01/05/2005	COAL	3.87
MEJIA TPS	5	250	WEST BENGAL	DVC	01/10/2007	COAL	45.38
KODARMA TPP	1	500	JHARKHAND	DVC	01/08/2013	COAL	0
DURGAPUR STEEL TPS	2	500	WEST BENGAL	DVC	01/04/2013	COAL	32.52
STERLITE TPP	1	600	ORISSA	SEL	01/08/2011	COAL	25.1
STERLITE TPP	3	600	ORISSA	SEL	01/09/2011	COAL	30.61
STERLITE TPP	4	600	ORISSA	SEL	01/05/2012	COAL	34.72
KAMALANGA TPS	1	350	ORISSA	GMR ENERG	01/05/2013	COAL	59.42
DERANG TPP	1	600	ORISSA	JITPL	06/06/2014	COAL	59.48
DERANG TPP	2	600	ORISSA	JITPL	12/02/2015	COAL	45.97
BANDEL TPS	1	60	WEST BENGAL	WBPDC	30/11/1965	COAL	26.22
BANDEL TPS	2	60	WEST BENGAL	WBPDC	31/05/1966	COAL	37.31
BANDEL TPS	3	60	WEST BENGAL	WBPDC	30/11/1965	COAL	35.47
BANDEL TPS	4	60	WEST BENGAL	WBPDC	31/05/1967	COAL	39.26
BANDEL TPS	5	210	WEST BENGAL	WBPDC	01/04/1983	COAL	0.13

KOLAGHAT TPS	1	210	WEST BENGAL	WBPDC	01/03/1991	COAL	42.03
KOLAGHAT TPS	2	210	WEST BENGAL	WBPDC	01/10/1986	COAL	50.38
KOLAGHAT TPS	3	210	WEST BENGAL	WBPDC	01/04/1985	COAL	46.12
KOLAGHAT TPS	4	210	WEST BENGAL	WBPDC	01/10/1995	COAL	48.04
BAKRESWAR TPS	4	210	WEST BENGAL	WBPDC	01/07/2008	COAL	56.44
SAGARDIGHI TPS	1	300	WEST BENGAL	WBPDC	01/07/2008	COAL	56.99
SAGARDIGHI TPS	2	300	WEST BENGAL	WBPDC	01/02/2009	COAL	33.34
D.P.L. TPS	7	300	WEST BENGAL	DPL	01/06/2008	COAL	47.76
TITAGARH TPS	3	60	WEST BENGAL	CESC	01/08/1984	COAL	38.27
TITAGARH TPS	4	60	WEST BENGAL	CESC	01/08/1985	COAL	40.98
HALDIA TPP	2	300	WEST BENGAL	HEL	21/02/2015	COAL	46.73
FARAKKA STPS	4	500	WEST BENGAL	NTPC Ltd.	01/12/1996	COAL	56.69
FARAKKA STPS	6	500	WEST BENGAL	NTPC Ltd.	01/05/2012	COAL	58.17

**JHARKHAND URJA SANCHARN NIGAM LIMITED**

Office of the
Electrical Superintending Engineer, State Load Dispatch Centre,
Kusai Colony, Doranda, Ranchi

Phone: 0651-2490090, Fax: 0651-2490486, Email: sldcranchi@gmail.com

Letter No. 83 ' SLDC, Ranchi,

Dated, the 09-03-2016

From,

Er. Shailesh Prakash,
Elect. Supt. Engineer
SLDC, Ranchi.

To,

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

Sub: Latest Status of Under Frequency Relay of JUSNL for the month of February 2016.

Sir

With reference to the subject mentioned above the latest status of Under Frequency Relay for the month of February 2016 is hereunder:-

Stage	G/S/S	33 KV Feeder	Remarks
Stage – I 49.2 Hz	Kamdara	Kamdara	In Service
	Gumla	Gumla	In Service
	Deoghar	Sarath	In Service
	Lohardaga	Lohardaga	In Service
	Jamtara	Jamtara	In Service
Stage – II 49.0 Hz	Garhwa	Ranka	In Service
	Garhwa	Bhawnathpur	In Service
	Deoghar	Baidyanathpur	In Service
	Lohardaga	Tico	In Service
	Latehar	Manika	In Service
Stage – III 48.8 Hz	Hatia	Brambay	In Service
	Adityapur	Adityapur I	Not In Service
	Japla	Japla	In Service
Stage – IV 48.6 Hz	Namkum	Kokar (Rural)	In Service
	Hatia	Argora	In Service
	Hatia	Dhurwa	In Service
	Hatia	Harmu	In Service
	Adityapur	Adityapur II	Not In Service

This is for your kind information & necessary action.

Yours faithfully

(Shailesh Prakash)
ESE, SLDC, Ranchi

Status of UFR at Sub-stations under Transmission Dept. for the month February '16

SI No	Name of sub-station	Feeder Details	CD (MVA)	In-service	Test performed	Results/Remarks
1	Burdwan	WBSEB Burdwan	48	Yes	Yes	UFR in service.
2	Durgapur	Graphite India+ Jai Balaji Industries+ Jai Balaji Sponge	74	No	Yes	1 UFR along with 3 (Three) nos VAI relays put in service on 25.02.16.but presently kept out of service after spurious tripping of 33 Kv consumer fdrs as per instruction CTC .
3	Durgapur	SRB Steel+ Brahma Alloy+ Venky Steel+ VSP+ Shri Gopal Hi-tech	67	No	Commissioning tests by CTC on 24.01.2014	UFR out of service since 25.01.2014 after repeated tripping of 12 nos. of 33KV consumers.
4	Kalyaneswari	BMA+ Impex+ Hira Concast+ MPL	47	Yes	Yes	UFR in service.
5	Kumardhubi	JSEB Sanjay Chowk+ Mugma+ DPSCO Dishergarh	60	Yes	Yes	UFR in service.
6	Putki	JSEB Godhar+ Bhuli+ JSEB Ganeshpur+ JSEB Katras+ JSEB Katras Sijua	93.5	Yes	Yes	UFR in service.
7	Patherdih	JSEB Govindpur + JSEB Mukunda + JSEB Digwadi	70	Yes	Yes	UFR in service.
8	Ramgarh	JSEB Ramgarh	80	Yes	Yes	UFR in service.
9	Hazaribagh	JSEB Hazaribagh	50	No	No	Not Installed yet.(will be installed within 4 th April 16)
10	Giridih	JSEB Giridih	55	Yes	Yes	UFR in service.
11	Koderma	JSEB Koderma	38	Yes	Yes	UFR in service.

Total load relieved 682.5 MVA

West Bengal State Electricity Transmission Company Limited

(A Government of West Bengal Enterprise)

CIN: U40109WB2007SGC113474; Website: 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

Memo No. SLDC/HOW/18/ 3747

Date:- 08.03.2016

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

Sub: Status of UFRs installed at WBSETCL sub-stations.


Dear Sir,

As per deliberation in the 105th OCC meeting of ERPC held on 22.01.15, report on UFRs enunciation, PT fuse status connected to the UFR feeders at different WBSETCL sub-stations for the month of FEBRUARY, 2016 is furnished herewith for your record.

Thanking you.

Encl: 1) 5 Nos sent through e-mail.

Yours faithfully,


8/3/2016
(S. Roy)

Chief Engineer (O&M)
SLDC, WBSETCL

STAGE-I

U/F RELAY SETTING

49.2 HZ

The name of the feeders of WBSETCL under 1st stage U/F relay -FEBRUARY'16

Sl. No.	Name of Sub-Station	Name of the feeders to be tripped by U/F relay	CERTIFICATES	REMARKS
		Name of feeders		
1	NBU 132 KV	a) 33 KV TCF	D.C. Supply ON. PT fuse O.K.	
		b) 33 KV Kharibari		
		c) 33 KV Ujanu		
		d) 11 KV Teesta		
		e) 11 KV Bagdogra		
		f) 11 KV Phansidewa #2		
2	ULUBERIA 132 KV	a) 33 KV UIGC - 1	D.C. Supply ON. PT fuse O.K.	
		b) 33 KV Banitabla		
		c) 33 KV Foodpark		
		d) 33 KV Amta		
		e) 33 KV UIGC - 2		
3	KALYANI 132 KV	a) 33 KV WBIDC-I	D.C. Supply ON. PT fuse O.K.	
		b) 33 KV WBIDC-II		
		c) 33 KV University - I		
		d) 33 KV University - II		
		f) 6.3 MVA Tr#1		
		g) 5 MVA Tr#2		
		h) 5 MVA Tr#3		
4	DHARAMPUR 132 KV	a) 33 KV Panpur	D.C. Supply ON. PT fuse O.K.	
		b) 33 KV Kanchrapara		
		c) 33 KV Gouripur		
		d) 33 KV Cord Road - 1		
		e) 33 KV Cord Road - 2		
		f) 33 KV Jeerat		
5	GANGARAMPUR 132 KV	a) 33 KV Buniadpur-1	D.C. Supply ON. PT fuse O.K.	
		b) 33 KV Buniadpur-2		
		c) 33 KV Salas		
		d) 33 KV Rampur		
		e) 2X6.3 MVA (33/11) Tr#1,		
6	CESC			To be confirmed by M/S. CESC

TOTAL

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08/03/16

STAGE-2

U/F RELAY SETTING

49.0 HZ

The name of the feeders of WBSETCL under 2nd stage U/F relay-FEBRUARY'16

Sl. No.	Name of Sub-Station	Name of the feeders with	CERTIFICATES	REMARKS
		Name of feeders		
1	DOMJUR 220 KV	a) 33 KV Jangalpur #1 &2 b) 33KV Jaladhulaguri#1 c) 33 KV Munshirhat	DC SUPPLY ON. PT FUSE O.K.	
2	BAGNAN 231 KV	a) 33 KV Bagnan #1 b) 33 KV Bagnan #2 c) 33 KV Amta d) 33KV Mugkalyan#1&2	DC SUPPLY ON. PT FUSE O.K.	
3	MALDA 132 KV	a) 33 KV Narayanpur b) 33 KV Habibpur c) 33KV Rabindra Bhavan d) 33 KV Manikchak e) 33 KV KPS f) 33 KV Kaliachak g) 33 KV Gazole h) 1X6.3 MVA Tr#1 i) 1X5 MVA Tr#2	DC SUPPLY ON. PT FUSE O.K.	
4	NEW BISHNUPUR 220 KV	a) 33 KV Sonamukhi b) 33 KV Patrashayar	DC SUPPLY ON. PT FUSE O.K.	
5	BORJORA 132 KV	a) 33 KV Borjora-II b) 2X6.3 MVA Tr#1&2	DC SUPPLY ON. PT FUSE O.K.	
6	CESC			To be confirmed by M/S. CESC

TOTAL

Atal dar
08/03/16

STAGE-3
U/F RELAY SETTING
48.8 HZ

The name of the feeders of WBSETCL under 3rd stage U/F relay-FEBRUARY'16

Sl. No.	Name of Sub-Station	Name of the feeders	CERTIFICATES	REMARKS
		Name of feeders		
1	LILUAH 132 KV	a) 33 KV Kona	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV JNP		
		c) 33 KV KTT		
		d) 33 KV MKD		
		e) 33 KV Baltikuri-1		
		f) 33 KV Baltikuri-2		
		g) 33 KV Liluah		
2	NJP 220 KV	a) 33 KV Radhabari	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV Raninagar		
		c) 33 KV Dabgram		
		d) 33 KV Fatapukur		
		e) 6.3 MVA Tr-1 &2		
3	SALT LAKE 132 KV	a) 33 KV M5#1	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV M5#2		
4	OLD BISHNUPUR 132 KV	a) 33 KV Kotolpur	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV Jaipur		
		c) 33 KV Simlapal		
		d) 33 KV Onda		
		e) 33 KV Bankadaha		
		f) 5 MVA Tr#1 &2		
		g) 6.3 MVA Tr#3		
5	CESC			To be confirmed by M/S. CESC

TOTAL

Adalder
08/03/16

STAGE-4**U/F RELAY SETTING****48.6 HZ**

The name of the feeders of WBSETCL under 4th stage U/F relay-FEBRUARY'16

Sl. No.	Name of Sub-Station	Name of the feeders with load quantum to be tripped by U/F relay	CERTIFICATES	REMARKS
		Name of feeders		
1	SILIGURI 132 KV	a) 33 KV Siliguri-I	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV Siliguri-II		
		c) 33 KV Rabindranagar-I		
		d) 33 KV Housing Board		
		e) 33 KV Desbondhu Para		
		f) 33 KV Gangadhor		
2	DARJEELING 132 KV	a) 33 KV Lebong	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV Happy Valley		
3	JANGIPARA 132 KV	a) 33 KV Jangipara	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV Siakhala		
		c) 33 KV Singti		
		h) 6.3 MVA Tr#1		
4	TAMLUK 132 KV	a) 33 KV Baraberia	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV Moyna		
		c) 33 KV Gopalpur		
		d) 33 KV Tamluk		
		e) 6.3 MVA Tr#1 & 2		
5	RISHRA 220 KV	a) 33 KV Borjora-II	DC SUPPLY ON. PT FUSE O.K.	
		b) 33 KV Dankuni-I&II		
		c) 33 KV Kaikala-I&II		
		d) 6.3 MVA Tr#1 & 2		
		e) 6.3 MVA Tr#3 & 4		
		f) 5 MVA Tr#5		
6	CESC			To be confirmed by M/S. CESC

TOTAL

Halder
08/03/16

STAGE-5**U/F RELAY SETTING****47.6 HZ**

The name of the feeders of WBSETCL under 5th stage U/F relay-FEBRUARY'16

SL. NO.	Name of Feeders	Load (MW)	CERTIFICATES	REMARKS
1	220KV Subhasgram - Laxmikantapur # 1 & 2		DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
2	132 KV Ashoknagar - Jeerat # 1 & 2		DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
3	132 KV Arambag - Raina # 1 & 2		DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
4	132 KV Arambag - Birsingha #1 & 2		DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
5	132 KV Durgapur - Bolpur #1 & 2		DC SUPPLY ON. PT FUSE O.K.	LOAD QUANTUM MAY CHANGE ON NETWORK CONFIGURATION.
	Total	0		

Atal Das
08/03/16

Sys/Con: 165

1st March, 2016

Member Secretary
Eastern Regional Power Committee,
14, Golf Club Road
Tollygunge
Kolkata – 700 033

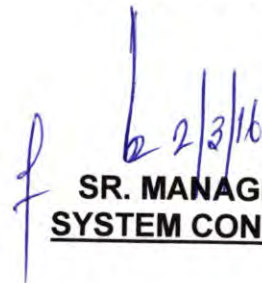
Re: UNDERFREQUENCY

Dear Sir,

We hereby confirm that all U/F relays and SPS including Islanding Scheme of CESC Generating Stations installed in our system are healthy and in commission.

Please also note that there was no under frequency operation for the month of **February, 2016**.

Yours faithfully,



**SR. MANAGER
SYSTEM CONTROL**

Annexure- B.5

GMR Energy

GMR Kamalanga Energy Limited



Administration Office:
Plot No. 29, Satya Nagar
Bhubaneswar 751 007
CIN U40101KA2007PLC044809
T +91-0674-2572795
F +91-0674-2572794
W www.gmrgroup.in

Letter No-GKEL/ERPC/16-17/5697

Date: 9.03.2016

To

The Member Secretary

ERPC, 14 Golf Club Road

Tollygunj, Kolkata: 700033

Sub : (Declaration of healthiness of SPS System for the month of February 2016)

Sir,

We here with declared that our SPS system is running satisfactory and there will be a load rejection of 200 MW (Station wise), once the SPS signal is received from NTPC end.

This is for your information and further advice in this regard.

Thanking You.

Yours Sincerely

(Arabinda Pani)

AVP (O&M)

GMR Kamalanga Energy Limited.

Site Office:
Near Kamalanga Village,
Via-Mangalpur, Opp. Bhushan Steel,
Dist. Dhenkanal 759121, Orissa

Regd. Office:
25/1, Skip House, Museum Road,
Bangalore-560 025



JINDAL INDIA THERMAL POWER LIMITED

VILL/P.O: DERANG, TEH: KANIHA, DIST.: ANGUL, ODISHA, PIN-759117

Phone: +91 9583040700/701/702/703

To,

Dated: 05.03.16

The General Manager,
Eastern Region Load Dispatch Centre,
KOLKATA

Sub: Status of SPS at Jindal India Thermal Power Limited, Derang, Odisha

Dear Sir,

As deliberated in OCC, wrt to the above subject, we would like to bring to you kind notice that SPS scheme implemented at our Plant is in service.

This is for your information and records.

Thanking you,

Yours Truly,

(MUKESH KHANNA)

Head – O & M

JINDAL INDIA THERMAL POWER LIMITED

DERANG

DIST – ANGUL

ODISHA

CC to Member Secretary, ERPC, Kolkata

Regd. Office: Plot No.12, Local Shopping Complex, Sector-B-1, Vasant Kunja, New Delhi-110070

Phone: 011-26139256-65, **Fax:** 011-26121734, **Website:** www.jindalgroup.com

From Manas Kumar panda <ManasKumar.panda@vedanta.co.in>
Sent Sunday, March 13, 2016 5:47 pm
To "mserpc-power@nic.in" <mserpc-power@nic.in>
Subject FW: SPS testing of HVDC Talcher-Kolar Bipole at Talcher end

Dear Sir,
Please find the copy of [healthiness certificate of SPS of Vedanta Limited Jharsuguda](#) for your record.

Regards'

Manas Kumar Panda
AGM-Electrical
4x600MW Power Plant
Vedanta Limited, Jharsuguda

Mob: 9937047045
Mail: manaskumar.panda@vedanta.co.in

From: selipp switchyard
Sent: 18 February 2016 13:05
To: erldc.cal@gmail.com; rklsbstation@gmail.com; erldc_cal@rediffmail.com
Cc: Manas Kumar panda; Sudipta Chowdhury
Subject: SPS testing of HVDC Talcher-Kolar Bipole at Talcher end

Dear Sir,

With reference to checking of SPS for HVDC talcher-kholar line ,talcher -Rourkela line,& Rourkela -SEL line.

shutdown code- for bypassing ERLDC-500,NLDC-737,SRLDC-470 for SPS healthiness checking on 18.02.2016 received from ERLDC for disabling the SPS via phone.

SPS simulation testing was done at-Talcher end and our end channel-2 counter-D 400KV SEL- ROURKELA LILO- 2 RX-counter increased from (23 - 24) at 12.12 hrs .

SPS is healthy at our end.

This is for your information and record please.

Regards.

S/I SEL JSG.

The information contained in this electronic message and any attachments to this message are intended for the exclusive use of the addressee(s) and may contain proprietary, confidential or privileged information. If you are not the intended recipient, you should not disseminate, distribute or copy this e-mail. Please notify the sender immediately and destroy all copies of this message and any attachments contained in it.

----- Original Message -----

From selipp switchyard <sel.ipp.switchyard@vedanta.co.in>
Date Sun, 21 Feb 2016 03:01:24 +0000
To "erldc.cal@gmail.com" <erldc.cal@gmail.com>, "erldc_cal@rediffmail.com" <erldc_cal@rediffmail.com>,
"erldcoutage@gmail.com" <erldcoutage@gmail.com>, "psdas1972@gmail.com" <psdas1972@gmail.com>

This email has been blocked from loading remote images.

Subject: **Formal Healthiness certificate of SPS**

Date: 03/17/16 06:27 PM

To: Ankan Kumar Bandyopadhyaya <mserpc-power@nic.in>

From: AM BBSR <onmodisha@gmail.com>

Cc: ERLDC kolkata Outage <erldcoutage@gmail.com>,

Erldc POSOCO <erldc.cal@gmail.com>,

PS DAS ERLDC KOLKOTA <psdas_psd@yahoo.com>,

Odisha ASSET Management <onmodisha@gmail.com>

Dear Sir,

The SPS equipments pertaining to Talcher, Angul and Rourkela SS are healthy and in service.

This is for kind information please.

Regards.

(S.K.Naik)

Ch.Manager(AM)

--

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड

POWER GRID CORPORATION OF INDIA LIMITED

Plot No.27, Sahid nagar

Bhubaneswar-751007

Subject: **Fwd: Healthiness of SPS installed at Berhampore Station-reg.**
To: Ankan Kumar Bandyopadhyaya <mserpc-power@nic.in>

Date: 03/18/16 04:22 PM
From: Asset Management <erts2am@gmail.com>

Dear sir,

For kind information please.

regards,

Rajendra.K

----- Forwarded message -----

From: **Asset Management** <erts2am@gmail.com>

Date: Thu, Mar 17, 2016 at 3:45 PM

Subject: Healthiness of SPS installed at Berhampore Station-reg.

To: PP Bandyopadhyaya <prth_banerjee@yahoo.co.in>, PARTHA SARATHI Das <psdas1972@gmail.com>, Eridc POSOCO <erldc.cal@gmail.com>, erldc outage <erldcoutage@gmail.com>

Cc: Khajkumar Krishnannair <khajkumar@gmail.com>, ashro58 <ashro58@yahoo.com>, "M M Baidya {एम.एम. बैद्य}" <mmbaidya@powergridindia.com>, power grid Bhp <powergrid.bhp@gmail.com>, purkayastha1@yahoo.co.in

Dear Sir,

This is to inform that the SPS system installed at Berhampore Substation of POWERGRID, ER-II for HVDC Bheramara Substation(Bangladesh) is Healthy for "February 2016" month.

This is for your kind information please.

Rajendra.K
Chief Manager(AM)

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पावर ग्रिड कॉर्पोरेशन ऑफ़ इंडिया लिमिटेड / POWER GRID CORPORATION OF INDIA LIMITED
पूर्वी क्षेत्र पारेषण प्रणाली - II/ Eastern Region Transmission system-II

एसेट मैनेजमेंट / Asset Management
CF-17, Action Area-1C, New Town
Rajarhat, Near Axis Mall,
Kolkata -700156

--

पावर ग्रिड कॉर्पोरेशन ऑफ़ इंडिया लिमिटेड / POWER GRID CORPORATION OF INDIA LIMITED
पूर्वी क्षेत्र पारेषण प्रणाली - II/ Eastern Region Transmission system-II

एसेट मैनेजमेंट / Asset Management
CF-17, Action Area-1C, New Town
Rajarhat, Near Axis Mall,
Kolkata -700156



Phone : 06549-242278
Fax No.06549-242279

Damodar Valley Corporation

Chandrapura Thermal Power Station
P.O. CHANDRAPURA, DIST: BOKARO,
PIN – 828 403 :: Jharkhand

No.CT/CE/E-309/ 80

March 04, 2016.

To,
The Chief Engineer (CLD)
DVC:Maithon

Sub: Healthy Certificate in respect of "Islanding Scheme"
Ref: Your letter No:LD/25/Thermal/321 Dtd: 02/07/2015.

Dear Sir,

With reference to above, the healthiness status of islanding system as observed today (Dt: 04/03/2016) at 16.00 Hrs is furnished below:

- A) System Healthy Indication –OK
- B) Under Frequency Relay 181—healthy indication glowing –OK
- C) Under Frequency Relay 281—healthy indication glowing –OK
- D) Under Frequency Relay 381—healthy indication glowing –OK

As per the indications available, the system is healthy in line with the in built supervision provision provided by M/s ALSTOM, the Manufacturer and Erector of the "Islanding Scheme".

This for your kind information.

Yours faithfully,

(G C Chowdhury)
Electrical Superintendent-I
CTPS Units # 1,2 & 3

Copy to;

- 1). The CE & HOP, DVC,CTPS.
- 2). The CE (O&M), DVC,CTPS.
- 3). The Dy.CE (E), DVC,CTPS.

West Bengal State Electricity Transmission Company Limited

(A Government of West Bengal Enterprise)

CIN: U40109WB2007SGC113474; Website: 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

Memo No.: SLDC/How/ 146 / 3744

Dated: 08/03/ 2016.

To
The Member Secretary,
ERPC, 14 Golf Club Road,
Tollygaunj, Kolkata-700 033.

Sub: Status of UFRs for February-2016 under BKTPP islanding.

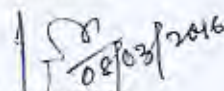
Dear Sir,

Enclosed herewith please find the healthiness report for February-2016 i.r.o. UFRs put into operation under BKTPP Islanding Scheme at 220KV Gokarna and Satgachia S/stns. of WBSETCL.
This is for your kind information please.

Thanking you.

Yours faithfully,

Enclo: As stated.


(P. K. KUNDU)
ACE, SLDC, WBSETCL.

❖ ANDUL ROAD ❖ P.O. DANESH SEIKH LANE ❖ HOWRAH - 711109
❖ TELEPHONE : 2688-7697 ❖ FAX NO.2688-5417 / 2688-6232\
email ID:- wbslde.hra@gmail.com

UFR Status at 220 KV Satgachia and Gokarno S/Stn. under BKTPP Islanding for February-2016.

Name of Sub-station	Name of Fdrs. connected with UFR.	Healthiness	Remarks
Gokarno 220 KV S/stn. (UFR Stg-I set at 47.90 Hz, 250ms time delay)	220 KV Sgtpp #1&2	D.C. Supply ON & PT fuse O.K.	
Gokarno 220 KV S/stn. (UFR Stg-II set at 47.60Hz, 500ms time delay)	132 KV Rampurhat #	D.C. Supply ON & PT fuse O.K.	
	33 KV Nabagram #		
Gokarno 220 KV S/stn. (UFR Stg-III set at 47.50Hz, 750ms time delay)	132 KV Kuli #	D.C. Supply ON & PT fuse O.K.	
	33 KV Bhabaninagar #		
	33 KV Kandi # 2		
Satgachia 220 KV S/stn (UFR Stg-I set at 47.90Hz, 250ms time delay)	132 KV Bandel #	D.C. Supply ON & PT fuse O.K.	
	132 KV Khannyan #		
	132 KV Mahachanda #1&2		
Satgachia 220 KV S/stn (UFR Stg-II set at 500ms time delay)	Nil		
Satgachia 220 KV S/stn (UFR Stg-III set at 47.5 Hz, 750ms time delay)	33KV Kusumgram # 1&2	D.C. Supply ON & PT fuse O.K.	
	33 KV Hatgobindapur #		
	33 KV Nadanghat #		

West Bengal State Electricity Transmission Company Limited

(A Government of West Bengal Enterprise)

CIN: U40109WB2007SGC113474; Website: 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

Memo No.: SLDC/How/ 146 / 3745

Dated: 08/03/2016.

To
The Member Secretary,
ERPC, 14 Golf Club Road,
Tollygaunj, Kolkata-700 033.

Sub: Status of UFRs for February-2016 under Tata Power islanding.

Dear Sir,

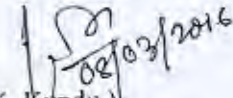
Enclosed herewith please find the healthiness report for February-2016 i.r.o. UFRs put into operation under Tata Power-Haldia Islanding Scheme at 132KV Haldia and NIZ S/stns. of WBSETCL.

This is for your kind information please.

Thanking you.

Yours faithfully,

Encl: As stated.


(P. K. Kundu.)
ACE, SLDC, WBSETCL.

❖ ANDUL ROAD ❖ P.O. DANESH SEIKH LANE ❖ HOWRAH - 711109
❖ TELEPHONE : 2688-7697 ❖ FAX NO. 2688-5417 / 2688-6232
email ID:- wbsldc.hra@gmail.com

UFR Status at 132KV Haldia and NIZ S/Stn. under Tata Power-Haldia Islanding for February-2016.

UFR Stg-I set at 47.90 Hz with 500ms time delay for Creation of Island		Healthiness	Remarks
Name of Sub-station	Name of Fdrs. to be tripped by UFR Stg-I		
Old Haldia 132KV S/stn.	132KV New Haldia direct ckt,	D.C. Supply ON & PT fuse O.K.	
	- 132KV HPL ckt		
	132KV Traction fdr. # 1&2		
	33KV Renuka Sugar fdr		
NIZ 132KV S/stn.	132KV Tamluk # 1&2	D.C. Supply ON & PT fuse O.K.	
	132KV Rohit Ferro fdr.		
Fdrs. to be tripped by UFR Stg-II set at 47.70 Hz with 200ms time delay for load relief.			
Old Haldia 132KV S/stn.	33kv CPT Fdr.-1	D.C. Supply ON & PT fuse O.K.	
	33kv IOC Fdr.		
	33KV Exide fdr.-1		
Fdrs. to be tripped by UFR Stg-III set at 47.60 Hz with 400ms time delay for load relief.			
Old Haldia 132KV S/stn.	33kv khudiram nagar	D.C. Supply ON & PT fuse O.K.	
	33KV Exide fdr.-2		
	33KV IOC pipe line		
	33KV Glychem		
NIZ 132KV S/stn.	33KV Basudebpur	D.C. Supply ON & PT fuse O.K.	

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 118th OCC meeting that they have completed 1st set of measurement for 45 locations, However data submitted for only 8 locations.

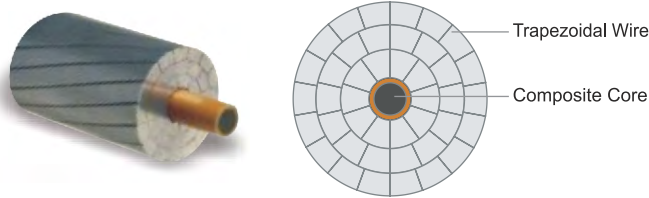
JUSNL have completed first set measurement for 17no of locations only out of 67 identified locations.

***POWERGRID ER1** have informed in 118th OCC meeting that they have completed 1st 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 rd set	4 th set	5 th set	6 th set
21 st -31 st May 2016	21 st -30 th Sep 2016	21 st -31 st Jan 2017	21 st -31 st May 2017

Sterlite® High Ampacity / Low Sag / Low Loss Conductor Series ACCC Conductors



PRODUCT DESCRIPTION

Sterlite Aluminum conductor Composite Core (ACCC) conductor consists of a hybrid carbon and glass fiber core which is wrapped with trapezoidal shaped aluminum strands. The high strength structural core carries most of the conductor's mechanical load, while the fully annealed aluminum strands carry all of the conductor's electrical current. ACCC conductor's composite core is much lighter and stronger than conventional or high-strength steel core.

PRODUCT APPLICATION

Reduced Line Losses in New Lines:

- Under equal load conditions reduces line losses by 30 to 40 % compared to conductors of the same diameter and weight.
- 100% capacity build towards future demand.

Ideal for Reconductoring

- Increase capacity while improving line clearance and losses.
- Reduce strain on structures increasing life..

PRODUCT BENEFITS

- With 28% more annealed aluminum in a trapezoidal configuration the ACCC conductor of the same diameter as ACSR, can double the current (ampacity) rating; Higher operating efficiency reduces line losses and associated emissions by more the 35%, resulting in more power delivered and lower power generation costs.
- ACCC conductors use a patented carbon/glass/thermoset resin core that provides high strength and reduces high temperature sag. Can re-conductor existing pathways without structural modification and reduce capital expenses on new lines.
- Uses conventional installation methods, tools, and mostly conventional hardware- no special tools and limited special training.
- Resists environmental degradation – will not rust, corrode, or cause electrolysis with aluminum conductors and components.

PRODUCT SPECIFICATIONS*

Properties	ACCC Mumbai	ACCC Kolkata	ACCC Casablanca
Typical Factors	18 TW/12TW/8 TW/0.375 in	14TW.12 TW/8TW/0.375 in	10TW/6TW/0.280 in
Reference Specifications	ASTM B857, ASTM B609	ASTM B857, ASTM B609	ASTM B857, ASTM B609
Total Cross Section Area(sqin)	1.150 sq in	0.935 sq in	0.471 sq in
Conductive Wire	1350 0 temper Al	1350 0 temper Al	1350 0 temper Al
Core Wire	Composite Core	Composite Core	Composite Core
Conductor Diameter (in)	1.250 in	1.127in	0.807 in
Weight (lbs/1000ft)	1337 lbs/1000ft	1079 lbs/1000ft	531 lbs/1000ft
Ultimate Tensile Strength (lbf)	39533 lbf	37370 lbf	22090 lbf
DC Resistance (ohms/1000ft)@68°F Temperature	0.0130 ohms/1000ft	0.0164 ohms/1000ft	0.0312 ohms/1000ft
Maximum Operating Temperature, °F	356°F	356°F	356°F
Current Carrying Capacity (Amp) at Maximum Operating Temperature	1983 Amp	1693 Amp	1070 Amp
Conductor Sag in feet at Maximum Operating Temperature	35.04 ft	24.04 ft	16.60 ft
Ruling Span	1312.33 ft	1230.31 ft	1099.08 ft

Assumptions: Ampacity is calculated based on Wind zone coefficient as 2, reliability level coefficient as 2, terrain category coefficient as 2, 0.2006lbs/in² as wind pressure for Moose equivalent conductors, 0.1938lbs/in² as wind pressure for Zebra equivalent conductors, 0.1824lbs/in² as wind pressure for Panther equivalent conductors, starting condition for calculation of Sag tension for ACSR Moose as 22% of UTS at 89.6 °F, no wind and for ACSR Zebra & Panther as 25% of UTS at 89.6 °F, no wind, constant of mass temperature coefficient of resistance of conductor per °K as 0.0039 for Al59 otherwise 0.004, the values of Sag for conductors other than ACSR are calculated by maintaining the tension of ACSR conductor at 89.6 °F full wind, 113°F ambient temperature, 1.97 ft/s wind velocity, 0.5 as coefficient of solar absorption, 0.6 as coefficient of emissivity and 1200Wt/sqm coefficient for solar radiation, at sealevel.

SUPPLY LENGTH

As per customer requirements.

MANUFACTURING PROCESS

To ensure the accuracy and precision of the manufacturing process, sterlite has a state of the art plant with top of the line machines enabling control of critical process and quality parameters,. All Sterlite production lines are backed up with strong quality assurances systems. This is done by ensuring that all process and test equipments are periodically calibrated with defines benchmarks.

INTERNATIONAL STANDARDS

These conductors comply with ASTM B857 and ASTM B609 specification standards.

SERVICE USP's

- Complete range of power transmission conductors
- World-wide sales support
- Web-bases order tracking & customer support
- Specialization technical support

TECHNICAL SPECIFICATIONS

The above designs are only a sample of the options available from Sterlite. Contact our sales team for a cable designed to your exact specifications.

DISCLAIMER

Sterlite's policy of continuous improvement may result in a change in specifications without prior notice. Any warranty of any nature relating to any Sterlite product in only contained in the written agreement between Sterlite Technologies Limited and the direct purchaser of such product(s).

sterlitetechnologies.com

Aurangabad | Beijing | Campobello | Haridwar | Johannesburg | London | Moscow | Mumbai | Noida | Pune | Shanghai | Silvassa



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	Yes	Yes	Yes	Yes	Yes	Yes	
51	765kV Angul	Yes	Yes	Yes	Yes	Yes	Yes	
52	Chuzachen	Yes	Yes	Yes	No	Yes	Yes	
53	New Ranchi 765kV	Yes	Yes	Yes	Yes	Yes	Yes	
54	Lakhisarai	Yes	Yes	Yes	Yes	Yes	Yes	
55	Chaibasa							
56	765kV Jharsuguda	Yes	Yes	Yes	Yes	Yes	Yes	All are in working condition. However a dedicated DR for 765KV Lines; make TESLA is not working. M/s Siemens has assured to commission the same by 31.01.15
57	Beharampur	Yes	Yes	Yes	Yes	Yes	Yes	
58	Keonjhar	Yes	Yes	Yes	Yes	Yes	Yes	

Eastern Regional Power Committee

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

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

Sl. No.	Name of S/S	No. of ERS towers available	ERS towers in use
1	Durgapur, ER-II	1 Set (8 towers)	One no. tower having 170 ft has been erected in 220 kV Faraka-Lalmatia line near Farakka.
2	Rourkela, ER-II	1 Set (8 towers)	
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 March, 2015.
- 4) The 25th ERPC meeting held on 21.09.2014, the board concurred to the proposal of procurement of four sets of ERS and it was also informed that, the proposed four sets of ERS will be kept at Sikkim, Siliguri, Ranchi and Gaya and will be used by all constituents of ER during emergencies.

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

- 5) Bihar informed that they have 2 sets of 220 kV ERS towers and 2 sets are under process of procurements. However, they require 7 more sets of 400 kV level ERS towers to cater the emergency.
- 6) DVC informed that they are in process of procuring two (2) sets of 400 kV ERS towers.

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

System	Station	Unit	Size (MW)	period		No. of Days	Reason
				From	To		
DVC	CTPS	2	130	02.04.16	17.04.16	16	Burner Replacement
	DSTPS	1	500	02.04.16	27.04.16	26	AOH (Blr, TGbrgs, LPT, Gen)

**EASTERN REGIONAL LOAD DESPATCH CENTRE
KOLKATA**

TRANSMISSION ELEMENTS OUTAGE APPROVED IN 119TH 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	400kV Indravati FSC bay at Rengali	19-03-2016	09:00	19-03-2016	17:00	ODB	ER-II/OD	AMP works.	
2	315MVA ICT#2 at Baripada	19-03-2016	09:00	19-03-2016	18:00	ODB	ER-II/OD	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -I OF GIS	ODISHA
3	220KV Binaguri-Birpara I & II	19-03-2016	08:00	30-03-2016	18:00	ODB	ULDC	OPGW STRINGING WORK	Will be allowed after May - 16 West Bengal election
4	400 kV Meramundali - Angul line at OPTCL Meramundali S/s.	20-03-2016	09:00	20-03-2016	17:00	ODB	ER-II/OD	AMP works of 80MVAR Line Reactor .	JITPL & GMR NOC MAY BE REVISED
5	160MVA ICT#1 at Baripada	20-03-2016	09:00	20-03-2016	18:00	ODB	ER-II/OD	C & TAN DELTA MEASUREMENT WITH VARIABLE FREQUENCY IN NEW KIT	ODISHA
6	315MVA ICT#2 at Baripada	20-03-2016	09:00	20-03-2016	18:00	ODB	ER-II/OD	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	ODISHA
7	400 KV SEL-Raigarh # 2	21-03-2016	09:00	28-03-2016	18:00	OCB	ER-II/OD	Railway Diversion / Modification work from Location No.- 363 to 366.	NLDC
8	400 KV Sundargarh - Raigarh # 2	21-03-2016	09:00	28-03-2016	18:00	OCB	ER-II/OD	Railway Diversion / Modification work from Location No.- 363 to 366.	NLDC
9	400/220kV 315MVA ICT-II at Rengali	21-03-2016	09:00	27-03-2016	17:00	OCB	ER-II/OD	Overhauling of 315MVA ICT-II	ODISHA
10	400 KV MAIN BUS 3 including Bus Sectionalizer-1 CB DURGAPUR	21-03-2016	10:00	21-03-2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
11	220kV D/C Satgachia - Jeerat T/L of WBSETCL	21-03-2016	6:00 hrs	21-03-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
12	400KV Subhasgram-Jeerat	22-03-2016	08:00	22-03-2016	18:00	ODB	ULDC	OPGW STRINGING WORK	WBSETCL
13	220KV Rengali PCGIL- OPTCL -I at Rengali	22-03-2016	09:00	24-03-2016	17:00	OCB	ER-II/OD	Overhauling of CGL CB.	ODISHA
14	315MVA ICT#1 at Baripada	22-03-2016	09:00	22-03-2016	18:00	ODB	ER-II/OD	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	ODISHA
15	400 KV MAIN BUS 4 including Bus Sectionalizer-2 CB DURGAPUR	22-03-2016	10:00	22-03-2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
16	160MVA ICT#2 at Baripada	23-03-2016	09:00	23-03-2016	18:00	ODB	ER-II/OD	C & TAN DELTA MEASUREMENT WITH VARIABLE FREQUENCY IN NEW KIT	ODISHA
17	400kV Rourkela-Ranchi#2 Main Bay (Bay No.-421) at Rourkela	23-03-2016	09:00	23-03-2016	18:00	ODB	ER-II/OD	AMP work	
18	400 KV MAIN BUS 1 including Bus Sectionalizer-1 CB DURGAPUR	23-03-2016	10:00	23-03-2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
19	400KV MAIN BUS-II at Baripada	24-03-2016	09:00	24-03-2016	18:00	ODB	ER-II/OD	ERECTION OF BUSHING & GAS INSULATED BUS DUCT OF MAIN BUS -II OF GIS	
20	400 KV MAIN BUS 2 including Bus Sectionalizer-2 CB DURGAPUR	24-03-2016	10:00	24-03-2016	18:00	ODB	ER-II/KOL	Busbar main & Check zone CT connection	
21	63 MVAR Tala-4 L/R New Siliguri	24-03-2016	9.00 hrs	24-03-2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
22	220 kv Jeerat -newtown Tr line of WBSETCL	24-03-2016	6.00 hrs	24-03-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
23	220kV Bus coupler Bay at Rengali	25-03-2016	09:00	28-03-2016	17:00	OCB	ER-II/OD	Overhauling of CGL CB.	
24	132 KV TRANSFER BUS AT PRN	25-03-2016	09:00			PERMANENT	ER-I	PERMANET REMOVAL OF TRANSFER BUS IS REQUIRED FOR GIS BUILDING AND ASSOCIATED CIVIL WORK	BIHAR
25	132 KV PRN(PG)- PRN(BSPTCL)#3 LINE	25-03-2016	09:00	28-03-2016	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
26	132 KV PRN(PG) - KISHANGANJ LINE	25-03-2016	09:00	25-03-2016	11:00	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
27	220KV BUS-2 AT PURNEA	25-03-2016	09:00	25-03-2016	17:00	ODB	ER-I	1. FOR RECONNECTION OF ICT-1 BAY 220 KV MAIN BUS-1 & 2 NEW ISOLATORS BY BHEL 2. BUS CVT REPLACEMENT UNDER ADD-CAP 3. Bus bar AMP (NO POWER INTERUPPTION)	BIHAR
28	400 KV MAIN BUS 3 including Bus Sectionalizer-1 CB DURGAPUR	25-03-2016	10:00	25-03-2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-3	
29	315MVA ICT-I AT Maithon	25-03-2016	09:00	25-03-2016	18:00	ODB	ER-II/KOL	AMP Works. And 42389B-RPh Isolator alignment	DVC
30	400kV NSLG - TALA-III LINE	25-03-2016	9.00 hrs	03-04-2016	17.00 hrs	OCB	ER-II/KOL	Conductor repairing	NLDC

33	220kV D/C Jeerat -newtown Tr line of WBSETCL (T No. 110 - 111)	25-03-2016	6.00 hrs	25-03-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
34	132 kV Gokarna - Kuli - LILO TL	25-03-2016	6.00 hrs	25-03-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
35	765KV Angul-Jharsuguda - II	25-03-2016	08:00	15-04-2016	18:00	ODB	ULDC	OPGW STRINGING WORK	NLDC/JITPL & GMR NOC MAY BE REVISED
36	400 KV IBEUL - RAIGARH	25-03-2016	08:00	26-03-2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	NLDC
37	(220KV line-3) 207 Bay at Bolangir	26-03-2016	09:00	26-03-2016	18:00	ODB	ER-II/OD	AMP Work	
38	220kV ICT-I Incomer Bay (Bay No.-211) at Rourkela	26-03-2016	09:00	26-03-2016	18:00	ODB	ER-II/OD	AMP work	
39	132KV D/C Budhipadar-Tarkera transmission line (OPTCL)	26-03-2016	08:00	27-03-2016	17:00	ODB	ER-II/OD	Construction works-Both lines required simultaneously- for crossing of 765KV Angul-Jharsuguda line(222/0-223/0) to OPTCL lines span of 132KV D/C Budhipadar-Tarkera line(at 248-249) & 132KV S/C Kuchinda-Rajgangpur line (at J260-J261)	ODISHA
40	132KV S/C Kuchinda-Rajgangpur transmission line (OPTCL)	26-03-2016	08:00	27-03-2016	17:00	ODB	ER-II/OD	Construction works-Both lines required simultaneously- for crossing of 765KV Angul-Jharsuguda line(222/0-223/0) to OPTCL lines span of 132KV D/C Budhipadar-Tarkera line(at 248-249) & 132KV S/C Kuchinda-Rajgangpur line (at J260-J261)	ODISHA
41	315 MVA ICT#2 at Baripada	26-03-2016	09:00	26-03-2016	18:00	ODB	ER-II/OD	HV TEST OF MAIN BUS-I OF GIS	ODISHA
42	400KV BUS-1 AT CHAIBASA	26-03-2016	09:00	26-03-2016	17:00	ODB	ER-I	FOR BUS EXTENSION WORK	
43	400 KV MAIN BUS 4 including Bus Sectionalizer-2 CB DURGAPUR	26-03-2016	10:00	26-03-2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-4	
44	220kV Siliguri - New Siliguri Ckt-2	26-03-2016	9.00 hrs	26-03-2016	17.00 hrs	OCB	ER-II/KOL	AMP OF NSLG	
45	160MVA ICT#2 Siliguri	26-03-2016	06.00 Hrs	26-03-2016	16:00 Hrs	ODB	ER-II/KOL	ICT-I AMP & BAY AMP	WBSETCL
46	132 kv BARASAT -NEWTOWN Tr line of WBSETCL	26-03-2016	6.00 hrs	15-02-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
47	400 KV Indravati-rengali line at Indravati	26-03-2016	09:00	26-03-2016	18:00	ODB	ER-II/OD	Dismantling of bushing & turret Of 50 MVAR Rengali L/R in Overhauling	NLDC/ODISHA
48	50 MVAR L/R OF RENGALI - INDRAVATI LINE AT INDRAVATI	26-03-2016	09:00	03-04-2016	18:00	OCB	ER-II/OD	DRYING OUT OF REACTOR	
49	315 MVA ICT#2 at Baripada	27-03-2016	09:00	27-03-2016	18:00	ODB	ER-II/OD	HV TEST OF MAIN BUS-I OF GIS	ODISHA
50	220 KV DVC Line-2 DURGAPUR	27-03-2016	11:00	27-03-2016	12:00	ODB	ER-II/KOL	CB Retrofitting-trasfer load to transfer bus & protection testing	DVC
51	220kV New Siliguri - Birpara Ckt-II	27-03-2016	9.00 hrs	27-03-2016	17.00 hrs	OCB	ER-II/KOL	AMP OF NSLG	
52	400 KV IBEUL - JHARSUGUDA	27-03-2016	08:00	28-03-2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	
53	(220KV ICT-II LV) 208 Bay at Bolangir	28-03-2016	09:00	28-03-2016	18:00	ODB	ER-II/OD	AMP Work	
54	ICT-I & 50MVAR B/R Tie Bay (Bay No.- 423) at Rourkela	28-03-2016	09:00	28-03-2016	18:00	ODB	ER-II/OD	AMP work	
55	400KV MAIN BUS-II at Baripada	28-03-2016	09:00	28-03-2016	18:00	ODB	ER-II/OD	HV TEST OF MAIN BUS-II OF GIS	
56	MAIN BAY OF 400 KV BANKA - KAHALGAON - 1 AT BANKA	28-03-2016	11:00	28-03-2016	15:00	ODB	ER-I	AMP WORK	
57	400KV BUS-2 AT CHAIBASA	28-03-2016	09:00	28-03-2016	17:00	ODB	ER-I	FOR STABILITY TESTING OF COMMISSIONING OF 411 BAY	
58	50MVAR L/R OF 400KV LAKHISARAI-KHLG-2 AT LAKHISARAI	28-03-2016	10:00	28-03-2016	16:00	ODB	ER-I	FOR AMP WORK(S/D OF 10 MTS WILL BE REQUIRED FOR 400 KV LAKHISARAI-KHLG-2 EACH TIME FOR ISOLATION OF L/R AND FOR TAKING IT INTO SERVICE.)	
59	MAIN BAY OF 400KV MUZ-GKP-2 AT MUZ	28-03-2016	09:00	28-03-2016	15:00	ODB	ER-I	FOR AMP WORK	NLDC
60	220 KV DURGAPUR-DVC Line-2	28-03-2016	08:00	28-03-2016	18:00	ODB	ER-II/KOL	CB Retrofitting-Old Breaker Dismantling	DVC
61	315MVA ICT-II AT Maithon	28-03-2016	09:00	28-03-2016	18:00	ODB	ER-II/KOL	Tan Delta of 220KV R-PH Bushing at variable frequency.AMP, Connector replacement	DVC
62	220kV Siliguri - New Siliguri Ckt-1	28-03-2016	9.00 hrs	28-03-2016	17.00 hrs	OCB	ER-II/KOL	AMP OF NSLG	
63	132kV SLG- MELLI LINE	28-03-2016	06.00 Hrs	30-03-2016	17.00 Hrs	Continuous	ER-II/KOL	GIS WORK	WBSETCL
64	400 KV DSTPS - RTPS - I	28-03-2016	07:00	16-04-2016	16:00	ODB	DVC	OPGW STRINGING WORK	
65	ICT-I Main Bay (Bay No.-424) at Rourkela	29-03-2016	09:00	29-03-2016	18:00	ODB	ER-II/OD	AMP work	
66	220kV Rengali PCGIL- OPTCL -II at Rengali	29-03-2016	09:00	31-03-2016	17:00	OCB	ER-II/OD	Overhauling of CGL CB.	ODISHA
67	220KV D/C Budhipadar- Tarkera transmission line (OPTCL)	29-03-2016	08:00	29-03-2016	17:00	ODB	ER-II/OD	Construction works- Crossing of 765KV Angul-Jharsuguda line(225/0-226/0) to OPTCL lines span (82-83)	ODISHA
68	400KV MAIN BUS-II at Baripada	29-03-2016	09:00	29-03-2016	18:00	ODB	ER-II/OD	HV TEST OF MAIN BUS-II OF GIS	
69	MAIN BAY OF 400 KV BANKA - KAHALGAON - 2 AT BANKA	29-03-2016	11:00	29-03-2016	15:00	ODB	ER-I	AMP WORK	
70	315 MVA ICT -1 AT PATNA	29-03-2016	10:00	17-04-2016	17:00	OCB	ER-I	FOR REPLACEMENT OF 315 MVA ICT BY 500 MVA ICT	After restoration of pusauli ICT
71	MAIN BAY OF 400KV RNC-RAGHUNATHPUR-3(416 BAY) AT RNC	29-03-2016	10:00	29-03-2016	17:00	ODB	ER-I	AMP WORK	NLDC
72	765KV B/R-2 AT NRNC	29-03-2016	08:00	29-03-2016	18:00	ODB	ER-I	AMP WORK	NLDC
73	L/R OF 400KV BSF-SSRM-4 AT BSF	29-03-2016	10:00	29-03-2016	18:00	ODB	ER-I	FOR REACTOR BAY AMP WORK	
74	EAST FILTER BUS AT SSRM	29-03-2016	08:00	29-03-2016	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)	
75	80MVAR B/R AT LAKHISARI	29-03-2016	16:00	30-03-2016	17:00	ODB	ER-I	FOR CSD COMMISSIONING WORK UNDER CONSTRUCTION HEAD	
76	MAIN BAY OF 80MVAR B/R AT LAKHISARAI	29-03-2016	09:00	29-03-2016	17:00	ODB	ER-I	FOR CSD COMMISSIONING WORK UNDER CONSTRUCTION HEAD	
77	220 kv NPRN-PRN#1 line	29-03-2016	09:00	29-03-2016	17:00	ODB	ER-I	Bay AMP work.	BIHAR
78	400 KV MAIN BUS 1 including Bus Sectionalizer-1 CB DURGAPUR	29-03-2016	10:00	29-03-2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-1	
79	400KV Maithon JSR Main Bay (413) Maithon	29-03-2016	09:00	04-04-2016	17:00	OCC	ER-II/KOL	Overhauling of Operating Mechanism of 400kv BHEL CB	
80	400KV MTN-Gaya-II LR (Switchable)	29-03-2016	09:00	29-03-2016	14:00	ODB	ER-II/KOL	CSD card replacement and on load testing of Reactor	
81	New Siliguri-WBSETCL Bus Section-1	29-03-2016	9.00 hrs	29-03-2016	17.00 hrs	OCB	ER-II/KOL	AMP OF NSLG	
82	400KV Berhampore- Farakka Line	29-03-2016	09.00Hrs	29-03-2016	17.00Hrs	ODB	ER-II/KOL	Replacement of Line Isolator PAD due to rusting and AMP work.	NLDC
83	220 kv Bakereshwar – Gokarna TL	29-03-2016	6.00 hrs	29-03-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
84	400KV Baripada-Mendhasa# 1	29-03-2016	09:00	29-03-2016	18:00	ODB	ER-II/OD	CROSS ARM RECTIFICATION WORK AT LOC - 726	ODISHA
85	400KV BUS - II AT JHARSUGUDA	29-03-2016	09:00	29-03-2016	17:00	ODB	ER-I	FOR CONSTRUCTION WORK OF ICT - II AT J260	

89	TIE BAY OF 400 KV BANKA-KAHALGOAN - 2 & FUTURE AT BANKA	30-03-2016	11:00	30-03-2016	15:00	ODB	ER-I	AMP WORK	
90	80MVAR B/R AT RNC	30-03-2016	10:00	30-03-2016	16:00	ODB	ER-I	FOR BAY CONSTRUCTION WORK AT RNC	
91	765KV BUS-1 AT NRNC	30-03-2016	08:00	31-03-2016	18:00	ODB	ER-I	AMP WORK	NLDC
92	400KV BUS-1 AT GAYA	30-03-2016	09:00	30-03-2016	18:00	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF GAYA-CHANDWA LINE AT GAYA	
93	400KV BSF-BANKA-1	30-03-2016	10:00	30-03-2016	14:00	ODB	ER-I	LINE BAY AMP WORK	NLDC
94	TIE BAY OF 80MVAR B/R AT LAKHISARAI	30-03-2016	09:00	30-03-2016	17:00	ODB	ER-I	FOR CSD COMMISSIONING WORK UNDER CONSTRUCTION HEAD	
95	400 KV MAIN BUS 2 including Bus Sectionalizer-2 CB DURGAPUR	30-03-2016	10:00	30-03-2016	18:00	ODB	ER-II/KOL	Testing of Bus bar protection for Bus-2	
96	400KV MTN-Meja-I Line with LR	30-03-2016	09:00	30-03-2016	14:00	ODB	ER-II/KOL	CSD re commissioning	DVC
97	New Siliguri-WBSETCL Bus Section-2	30-03-2016	9:00 hrs	30-03-2016	17:00 hrs	OCB	ER-II/KOL	AMP of NSLG	
98	132 KV BIRPARA-WB-I	30-03-2016	09:00	30-03-2016	17:00	ODB	ER-II/KOL	AMP and base insulator of LA to be replaced	WBSETCL
99	400KV Berhampore- Jeerat Line	30-03-2016	09:00Hrs	30-03-2016	17:00Hrs	ODB	ER-II/KOL	Replacement of Line Isolator PAD due to rusting and AMP work.	WBSETCL
100	400 KV IBEUL - RAIGARH	30-03-2016	08:00	31-03-2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	NLDC
101	400 KV BUS - I AT JAMSHEDPUR	30-03-2016	09:00	30-03-2016	17:00	ODB	ER-1	BAY CONSTRUCTION WORK OF ICT - III AT JSR	
102	ICT-II Main Bay (Bay No.-415) at Rourkela	31-03-2016	09:00	31-03-2016	18:00	ODB	ER-II/OD	AMP work	
103	400 KV MAIN BUS -1 AT BANKA	31-03-2016	10:00	31-03-2016	17:00	ODB	ER-I	AMP WORK	
104	400KV BUS-2 AT GAYA	31-03-2016	09:00	31-03-2016	18:00	ODB	ER-I	FOR BAY CONSTRUCTION WORK OF GAYA-CHANDWA LINE AT GAYA	
105	400KV BSF-BANKA-2	31-03-2016	10:00	31-03-2016	14:00	ODB	ER-I	LINE BAY AMP WORK	NLDC
106	132 KV PRN(PG)-KISHANGANJ LINE	31-03-2016	09:00	31-03-2016	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
107	160 MVA ICT-2 AT PRN	31-03-2016	09:00	31-03-2016	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
108	New Siliguri-Tala-4 Main Bay	31-03-2016	9:00 hrs	31-03-2016	17:00 hrs	ODB	ER-II/KOL	AMP of NSLG	
109	BRP-CHP-I	31-03-2016	09:00	31-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	NLDC
110	BRP-CHP-II	31-03-2016	09:00	31-03-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	NLDC
111	220 KV BUS-II BIRPARA	31-03-2016	09:00	02-04-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	WBSETCL
112	125 Mvar Bus Reactor at Jeypore	01-04-2016	09:00	01-04-2016	17:30	ODB	ER-II/OD	For Commissioning (Online Testing) of CSD Note- Multiple closing & tripping of Reactor is desired (if not availed in the month of march)	
113	400KV Mendhasal Main Bay (401) at Baripada	01-04-2016	08:00	01-04-2016	17:00	ODB	ER-II/OD	TO PROVIDE MANUAL DRAIN VALVE	
114	A/R OF 400KV KAHALGAON - MAITHAN - 1 & 2	01-04-2016	09:00	30-04-2016	17:00	ODB	ER-I	PID TEST	
115	400 KV MAIN BUS -2 AT BANKA	01-04-2016	10:00	01-04-2016	17:00	ODB	ER-I	AMP WORK	
116	400 KV NPRN - NSLG -1	01-04-2016	10:00	01-04-2016	14:00	ODB	ER-I	REPLACEMENT OF EXISTING BPI AT NPRN END	
117	MAIN BAY OF 400KV LAKHISARAI-BSF-2 AT LAKHISARAI	01-04-2016	10:00	01-04-2016	14:00	ODB	ER-I	AMP WORK	
118	132 KV PRN(PG)-KISHANGANJ LINE	01-04-2016	09:00	03-04-2016	17:00	ODB	ER-I	FOR Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
119	A/R OF 400KV KAHALGAON - MAITHAN - 2	01-04-2016	07:00	30-04-2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	Either A/R of Kahalgaon - maithon/Bsf-banka/Khg - Barh one will be allowed
120	A/R OF 400KV KAHALGAON - BARH - 2	01-04-2016	07:00	30-04-2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	Either A/R of Kahalgaon - maithon/Bsf-banka/Khg - Barh one will be allowed
121	A/R OF 400KV BSF-BANKA-2	01-04-2016	07:00	30-04-2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	Either A/R of Kahalgaon - maithon/Bsf-banka/Khg - Barh one will be allowed
122	A/R OF 400KV BSF-MUZ-1	01-04-2016	07:00	30-04-2016	19:00	ODB	ER-I	FOR OPGW INSTALLATION WORK	Afetr restoration of Farakka - Malda - D/C
123	400 kV Barh - Kahalgaon - II	01-04-2016	08:00	03-04-2016	17:00	ODB	ER-I	FOR OPGW ERECTION WORK IN MULTI CKT PORTION	NLDC
124	400 kV Patna - Barh - I	01-04-2016	08:00	03-04-2016	17:00	ODB	ER-I	FOR OPGW ERECTION WORK IN MULTI CKT PORTION	
125	400 kV Jamshedpur - Baripada - I	01-04-2016	08:00	03-04-2016	17:00	ODB	ER-I	FOR OPGW ERECTION WORK	
126	220 KV DURGAPUR-DVC Line-2	01-04-2016	08:00	01-04-2016	18:00	ODB	ER-II/KOL	CB Retrofitting--New Breaker Erection	DVC
127	315MVA ICT#2 Main Bay New Siliguri	01-04-2016	9:00 hrs	01-04-2016	17:00 hrs	ODB	ER-II/KOL	AMP of NSLG	WBSETCL
128	160 MVA ICT-I BIRPARA	01-04-2016	09:00	01-04-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	WBSETCL
129	BRP-NSLG-I	01-04-2016	09:00	01-04-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	
130	132KV SLG- KURSEONG LINE	01-04-2016	06:00 Hrs	03-04-2016	17:00 Hrs	Continuous	ER-II/KOL	GIS WORK	WBSETCL
131	Bay. No-407, Main Bay of Berhampore-Sagardighi ckt-I Feeder Berhampore	01-04-2016	09:00Hrs	01-04-2016	17:00Hrs	ODB	ER-II/KOL	AMP work	
132	A/R Jeypore - Bolangir	01-04-2016	08:00	30-04-2016	18:00	ODB	ULDC	OPGW STRINGING WORK	EUTHER JEYPORE - BOLNIR OR KENJHAR - RENGALI ONE SHALL BE ALLOWED
133	A/R Keonjhar-Rengali	01-04-2016	08:00	30-04-2016	18:00	ODB	ULDC	OPGW STRINGING WORK	EUTHER JEYPORE - BOLNIR OR KENJHAR - RENGALI ONE SHALL BE ALLOWED
134	400 KV IBEUL - JHARSUGUDA	01-04-2016	08:00	02-04-2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	
135	315 MVA ICT-II Subhasgram	02-04-2016	09:00Hrs	02-04-2016	17:30 HRS	ODB	ER-II/KOL	AMP WORK & Oil seepage rectification	WBSETCL
136	(220KV line-1) 203 Bay at Bolangir	02-04-2016	09:00	02-04-2016	18:00	ODB	ER-II/OD	AMP Work	
137	Sundargarh-II & Ranchi-I Tie Bay (Bay No.- 429) at Rourkela	02-04-2016	09:00	02-04-2016	18:00	ODB	ER-II/OD	AMP work	
138	160MVA ICT-1 BAY at Baripada	02-04-2016	09:00	02-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
	TIE BAY RFTWFFN 400KV LAKHISARAI-BSF-2 & 300MVA ICT-2 AT								

142	BRP-NSLG-II	02-04-2016	09:00	02-04-2016	17:00	ODB	ER-II/KOL	Bus-II Conductor replacement	
143	Bay. No-410, Main Bay of Berhampore-Sagardighi ckt-II Feeder Berhampore	02-04-2016	09.00Hrs	02-04-2016	17.00Hrs	ODB	ER-II/KOL	AMP work	
144	400kV Talcher - Rengali Ckt-I	03-04-2016	08:00:00	04-04-2016	17:30:00	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing etc.	
145	125MVAR Bus reactor Main Bay New Siliguri	03-04-2016	9.00 hrs	03-04-2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
146	400 KV Indravati-rengali line at Indravati	03-04-2016	09:00	03-04-2016	18:00	ODB	ER-II/OD	Fitting of turret & bushing after replacement of gaskets of 50 MVAR L/R of Rengali Line	NLDC/ODISHA
147	400kV Angul-Meramundali Line-2	04-04-2016	09:00	04-04-2016	15:00	ODB	ER-II/OD	AMP	ODISHA
148	(220KV line-2) 205 Bay at Bolangir	04-04-2016	09:00	04-04-2016	18:00	ODB	ER-II/OD	AMP Work	
149	220kV ICT-II Incomer Bay (Bay No.-208) at Rourkela	04-04-2016	09:00	04-04-2016	18:00	ODB	ER-II/OD	AMP work	
150	ICT-II at Jeypore	04-04-2016	09:00	04-04-2016	17:00	ODB	ER-II/OD	For AMP works	ODISHA
151	132 KV MAIN BUS AT BANKA	04-04-2016	11:00	04-04-2016	14:00	ODB	ER-I	AMP WORK	BIHAR
152	MAIN BAY OF 125 MVAR B/R -2 AT NPRN	04-04-2016	10:00	04-04-2016	18:00	ODB	ER-I	BAY AMP WORK	
153	765KV BUS-2 AT NRNC	04-04-2016	08:00	05-04-2016	18:00	ODB	ER-I	AMP WORK	NLDC
154	315MVA ICT-2 AT GAYA	04-04-2016	09:00	04-04-2016	18:00	ODB	ER-I	FOR BAY CONSTRUCTION OF GAYA - CHANDAWA LINE AT GAYA	BIHAR
155	400KV BSF-NPRN-1	04-04-2016	10:00	04-04-2016	14:00	ODB	ER-I	REACTOR STABILTY TEST & CHARGING	
156	MAIN BAY OF 200MVA ICT-2 AT LAKHISARAI	04-04-2016	10:00	04-04-2016	14:00	ODB	ER-I	AMP WORK	
157	160 MVA ICT-2 AT PRN	04-04-2016	09:00	06-04-2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
158	315 MVA ICT-II Subhasgram	04-04-2016	09:00Hrs	04-04-2016	17:30 HRS	ODB	ER-II/KOL	Relay retrofit	WBSETCL
159	400KV Maithon Gaya-I line	04-04-2016	09:00	04-04-2016	18:00	ODB	ER-II/KOL	Removal of pipe bus required for commencing the retrofitting of 41752 BHEL CB with Alstom CB	
160	132kv Kurseong - Rangit	04-04-2016	9.00 hrs	04-04-2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	WBSETCL
161	Bongaigaon-3 L/R Bay New Siliguri	04-04-2016	9.00 hrs	04-04-2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
162	Bay. No-408, Tie Bay of Berhampore-Sagardighi ckt-I Feeder Berhampore	04-04-2016	09.00Hrs	04-04-2016	17.00Hrs	ODB	ER-II/KOL	AMP work	
163	400 KV IBEUL - RAIGARH	04-04-2016	08:00	05-04-2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	NLDC
164	400kV Talcher - Rourkela Ckt-I	05-04-2016	08:00:00	09-04-2016	17:30:00	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing and Pollution stretches etc.	NLDC
165	400kV Angul-Talcher	05-04-2016	09:00	05-04-2016	15:00	ODB	ER-II/OD	AMP	
166	400 KV Bus Reactor Main Bay (408) at Keonjhar	05-04-2016	09:00	05-04-2016	18:00	ODB	ER-II/OD	AMP	
167	400KV Rourkela-Sundargarh #1 & Sundargarh-Raigarh(Indbharat)#1 transmission line (PGCIL)	05-04-2016	08:00	06-04-2016	17:00	OCB	ER-II/OD	Construction works-Crossing of 765KV Angul-Jharsuguda line(253/0-254/0) to POWERGRID lines span (03-04)	NLDC
168	765/400kv 1500MVA ICT-1 at Sundergarh	05-04-2016	09:00	06-04-2016	18:00	OCB	ER-II/OD	Spare phase ICT commissionin work, 33KV tertiaty charging related work and fixing of missing Corona/greating rings.	NLDC
169	160MVA ICT-2 BAY at Baripada	05-04-2016	09:00	05-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
170	400KV BUS-1 AT RNC	05-04-2016	09:00	05-04-2016	17:30	ODB	ER-I	FOR BAY CONSTRUCTION WORK AT RNC	
171	100 MVA ICT -1 AT ARA	05-04-2016	08:00	05-04-2016	20:00	ODB	ER-I	OLTIC OVERHAULING	BIHAR
172	MAIN BAY OF 125 MVAR B/R -1 AT NPRN	05-04-2016	10:00	05-04-2016	18:00	ODB	ER-I	BAY AMP WORK	
173	765KV GAYA-BALIA	05-04-2016	09:00	05-04-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MICREANTS	NLDC
174	400KV BUS-1 AT BSF	05-04-2016	08:00	15-04-2016	18:00	OCB	ER-I	SPLIT BUS ARRANGEMENT WORK	BIHAR
175	MAIN BAY OF 400KV LAKHISARAI-KHLG-1 AT LAKHIASARAI	05-04-2016	10:00	05-04-2016	14:00	ODB	ER-I	AMP WORK	
176	315 MVA ICT-IV Subhasgram	05-04-2016	09:00Hrs	05-04-2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
177	220 KV DURGAPUR-DVC Line-2	05-04-2016	08:00	05-04-2016	18:00	ODB	ER-II/KOL	CB Retrofitting-Bus pipe erection and final commissioning	DVC
178	400kv NSLG-Bangaigaon Ckt-II	05-04-2016	9.00 hrs	05-04-2016	17.00 hrs	ODB	ER-II/KOL	Insulator replacement	NLDC
179	Purnea-2 Main Bay New Siliguri	05-04-2016	9.00 hrs	05-04-2016	17.00 hrs	ODB	ER-II/KOL	AMP of NSLG	
180	132 KV BIRPARA-WB-II	05-04-2016	09:00	05-04-2016	17:00	ODB	ER-II/KOL	Base insulator of LA to be replaced	WBSETCL
181	132KV SLG-WBSETCL-1	05-04-2016	06.00 Hrs	07-04-2016	17.00 Hrs	Continuous	ER-II/KOL	GIS WORK	WBSETCL
182	Bay. No-411, Tie Bay of Berhampore-Sagardighi ckt-II Feeder Berhampore	05-04-2016	09.00Hrs	05-04-2016	17.00Hrs	ODB	ER-II/KOL	AMP work	
183	132 KV MAIN BUS MALDA	05-04-2016	07:00	05-04-2016	09:00	ODB	ER-II/KOL	FOR MAIN BUS ISOLATOR OF TBC BAY.	WBSETCL
184	400 KV Kh - Barh Line#2	05-04-2016	09:30	05-04-2016	17:30	ODB	NTPC	PM works & relay testing	
185	132 KV D/C GOLA-CHANDIL LINE	05-04-2016	09:00	05-04-2016	17:00	ODB	PKCIL	CROSSING OF 400 KV PURULIA-RANCHI D/C TRANSMISSION LINE	DVC/JHARKHAND
186	400 KV TSTPS - ROURKELA - I	05-04-2016	08:00	07-04-2016	17:00	ODB	NTPC	AMC WORK	
187	765kv Bus-1 at Angul	06-04-2016	09:00	06-04-2016	18:00	ODB	ER-II/OD	AMP	NLDC
188	400 KV Bus Reactor Tie Bay (407-08) at Keonjhar	06-04-2016	09:00	06-04-2016	18:00	ODB	ER-II/OD	AMP	
189	80 MVAR Bus Reactor at Keonjhar	06-04-2016	09:00	06-04-2016	18:00	ODB	ER-II/OD	AMP	
190	(220KV TBC) 210 Bay at Bolangir	06-04-2016	09:00	06-04-2016	18:00	ODB	ER-II/OD	AMP Work	
191	400kv Rourkela-Sundargarh#2	06-04-2016	09:00	06-04-2016	18:00	ODB	ER-II/OD	AMP work	
192	220KV SIDE OF 315MVA ICT-1 BAY at Baripada	06-04-2016	09:00	06-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
193	100 MVA ICT -2 AT ARA	06-04-2016	08:00	06-04-2016	20:00	ODB	ER-I	OLTIC OVERHAULING	BIHAR
194	765KV B/R-1 AT NRNC	06-04-2016	09:00	06-04-2016	14:00	ODB	ER-I	ISOLATOR TESTING WORK UNDER NTAMC PROJECT	NLDC
195	MAIN BAY OF 765KV GAYA-FATEHPUR AT GAYA	06-04-2016	09:00	06-04-2016	18:00	ODB	ER-I	FOR ATTENDING SF6 LEAKAGE PROBLEM OF CB	NLDC
196	400KV BSF-SSRM-3	06-04-2016	10:00	06-04-2016	14:00	ODB	ER-I	REACTOR STABILTY TEST & CHARGING	

200	132kV SLG-Kurseong	06-04-2016	9.00 hrs	06-04-2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	WBSETCL
201	Tie of Purnea-2 & Bongaigaon-4 New Siliguri	06-04-2016	9.00 hrs	06-04-2016	17.00 hrs	ODB	ER-II/KOL	AMP OF NSLG	
202	400 kv Subhashgram - Jeerat tr. Line	06-04-2016	6.00 hrs	06-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
203	400 KV IBEUL - JHARSUGUDA	06-04-2016	08:00	07-04-2016	17:00	ODB	IBEUL	CROSSING OF 400 KV IBEUL - JHARSUGUDA D/C	
204	220 KV TSTPS - MERAMUNDALI - I	06-04-2016	08:00	06-04-2016	17:00	ODB	NTPC	AMC WORK	ODISHA
205	765kV LR-1 Main Bay(706R) at Baripada	07-04-2016	09:00	07-04-2016	17:00	ODB	ER-II/OD	AMP	NLDC
206	63 Mvar Bus Reactor Main Bay (416) at Jeypore	07-04-2016	09:00	07-04-2016	17:30	ODB	ER-II/OD	For AMP works	
207	220KV SIDE OF 315MVA ICT-2 BAY at Baripada	07-04-2016	09:00	07-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
208	TIE BAY OF 400 KV NPRN-MALDA -1 & 125MVAR B/R - 2 AT NEW PURNEA	07-04-2016	10:00	07-04-2016	18:00	ODB	ER-I	BAY AMP WORK	
209	765KV,3*500MVA ICT-1 AT NRNC	07-04-2016	09:00	07-04-2016	13:00	ODB	ER-I	ISOLATOR TESTING WORK UNDER NTAMC PROJECT	NLDC
210	400KV GAYA-KODERMA-1	07-04-2016	09:00	07-04-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MICREANTS	
211	132KV LAKHISARAI-LAKHISARAI-1	07-04-2016	10:00	07-04-2016	14:00	ODB	ER-I	AMP WORK	BIHAR
								Dismantling of Transfer Bus which is above TBC & BSEB- 2 bayFOR Construction of GIS bus duct & SF6 to air bushing foundation.	
212	132 KV PRN(PG)-PRN (BSPTCL#2 LINE	07-04-2016	09:00	07-04-2016	17:00	ODB	ER-I		BIHAR
213	315 MVA ICT#1 DURGAPUR	07-04-2016	09:00	14-04-2016	18:00 HRS	OCB	ER-II/KOL	Replacement of ICT#1	DVC
214	220kV SLG-Dalkhola Ckt-II	07-04-2016	9.00 hrs	07-04-2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	
215	132 kV Gokarna - Kuli - Sainthia TL	07-04-2016	6.00 hrs	07-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
216	400KV Rourkela-Ranchi#1	08-04-2016	09:00	08-04-2016	18:00	ODB	ER-II/OD	AMP work	
217	765KV MAIN BUS-II at Sundergarh	08-04-2016	09:00	09-04-2016	18:00	OCB	ER-II/OD	For extension of bus bar and various related jumpering work for Bay extension work.	NLDC
218	132KV SIDE OF 160MVA ICT-1 at Baripada	08-04-2016	09:00	08-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
219	400KV GAYA-KODERMA-2	08-04-2016	09:00	08-04-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MICREANTS	
220	132KV LAKHISARAI-LAKHISARAI-2	08-04-2016	10:00	08-04-2016	14:00	ODB	ER-I	AMP WORK	BIHAR
221	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	08-04-2016	09:00	08-04-2016	11:00	ODB	ER-I		BIHAR
222	220 KV SUBHASGRAM- WBSETCL Line # 1	08-04-2016	09:00Hrs	08-04-2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
223	400 KV MLD-PRN Ckt II	08-04-2016	10:00	08-04-2016	15:00	ODB	ER-II/KOL	Line Maintenance work	
224	220kV NSLG-BRP Ckt-I	08-04-2016	9.00 hrs	08-04-2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	
225	132 KV MAIN BUS MALDA	08-04-2016	07:00	08-04-2016	09:00	ODB	ER-II/KOL	FOR MAIN BUS ISOLATOR OF TBC BAY.	WBSETCL
226	(220KV Bus Coupler) 204 Bay at Bolangir	09-04-2016	09:00	09-04-2016	18:00	ODB	ER-II/OD	AMP Work	
227	63 Mvar Bus Reactor-ICT II Tie Bay (417) at Jeypore	09-04-2016	09:00	09-04-2016	17:30	ODB	ER-II/OD	For AMP works	
228	400KV Rourkela-Sundargarh #2 & Sundargarh-Raigarh#2 transmission line (PGCIL)	09-04-2016	08:00	10-04-2016	17:00	OCB	ER-II/OD	Construction works-Crossing of 765KV Angul-Jharsuguda line(254/0-255/0) to POWERGRID lines span (03-04)	NLDC
229	132KV SIDE OF 160MVA ICT-2 at Baripada	09-04-2016	09:00	09-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	ODISHA
230	TIE BAY OF 400 KV NPRN-BSF-1 & FUTURE AT NEW PURNEA	09-04-2016	10:00	09-04-2016	18:00	ODB	ER-I	BAY AMP WORK	
231	132KV LAKHISARAI-JAMUI-1	09-04-2016	10:00	09-04-2016	14:00	ODB	ER-I	AMP WORK	BIHAR
232	132 KV PRN(PG)-PRN (BSPTCL#2 LINE	09-04-2016	09:00	11-04-2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation.	BIHAR
233	220KV NSLG-BRP Ckt-II	09-04-2016	9.00 hrs	09-04-2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	
234	400kV Talcher - Rourkela Ckt-II	10-04-2016	08:00:00	14-04-2016	17:30:00	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing and Pollution stretches etc.	NLDC
235	400KV GAYA-MAITHON-1	10-04-2016	09:00	11-04-2016	18:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MICREANTS	
236	400KV NSLG-Rangpo Ckt-II	10-04-2016	9.00 hrs	10-04-2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	
237	50 MVAR BUS REACTOR-I FARAKKA	10-04-2016	09:00	13-05-2016	17:00	OCB	ER-II/KOL	FOR SHIFTING OF REACTOR TO NEW BAY	
238	132 KV MAIN BUS MALDA	10-04-2016	07:00	10-04-2016	09:00	ODB	ER-II/KOL	FOR MAIN BUS ISOLATOR OF WBSETCL-I.	WBSETCL
239	132 KV S/C HATIA TO KAMDARA LINE	10-04-2016	09:00	10-04-2016	17:00	ODB	PKCIL	CROSSING OF 400 KV PURULIA-RANCHI D/C TRANSMISSION LINE	JHARKHAND
240	765KV BR-1 Main Bay(712) at Angul	11-04-2016	09:00	11-04-2016	17:00	ODB	ER-II/OD	AMP	NLDC
241	400kV Rourkela-Chaibasa # 1 Main Bay (Bay No.- 416) at Rourkela	11-04-2016	09:00	16-04-2016	18:00	OCB	ER-II/OD	Removal of PIR in Main Bay CB (41652).	
242	400kV Rourkela-Chaibasa # 1	11-04-2016	09:00	13-04-2016	18:00	ODB	ER-II/OD	Removal of PIR in Main Bay CB (41652).The shutdown required due to clearance issue.	
243	315MVA ICT#1 MAIN BAY (403) at Baripada	11-04-2016	09:00	11-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
244	400 KV FARAKKA - KAHALGAON - 3 & 4	11-04-2016	09:00	13-04-2016	18:00	OCB	ER-I	POWERLINE CROSSING WORK FOR SHIFTING OF 400KV KHLG-BANKA FROM STAGE -1 TO STAGE -2 SIDE UNDER BUS SPLIT SCHEME AT NTPC / KHLG END.	NLDC
245	TIE BAY OF 400 KV NPRN-BSF-2 & FUTURE AT NEW PURNEA	11-04-2016	10:00	11-04-2016	18:00	ODB	ER-I	BAY AMP WORK	
246	132KV LAKHISARAI-JAMUI-2	11-04-2016	10:00	11-04-2016	14:00	ODB	ER-I	AMP WORK	BIHAR
247	220 KV SUBHASGRAM- KLC Line	11-04-2016	09:00Hrs	11-04-2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
248	400KV MTN-KHG-I Line with LR	11-04-2016	09:00	11-04-2016	14:00	ODB	ER-II/KOL	CSD re commissioning	
249	400kV NSLG-Bangaigaon Ckt-II	11-04-2016	9.00 hrs	11-04-2016	17.00 hrs	ODB	ER-II/KOL	PG clamp removal	NLDC
250	160MVA ICT#1 Siliguri	11-04-2016	09:00 Hrs	11-04-2016	16:00 Hrs	ODB	ER-II/KOL	OIL TOP	WBSETCL
251	132KV SLG-WBSETCL-2	11-04-2016	06.00 Hrs	13-04-2016	17.00 Hrs	Continuous	ER-II/KOL	GIS WORK	WBSETCL
252	765kV Angul-Sundergarh Line-2	12-04-2016	08:00	12-04-2016	18:00	ODB	ER-II/OD	AMP works	NLDC
253	400KV Bolangir - Angul line at Bolangir	12-04-2016	08:00	13-04-2016	18:00	ODB	ER-II/OD	For replacement of porcelain insulators with Polymer insulator for major crossings.	NLDC
254	315MVA ICT#1 MAIN BAY (406) at Baripada	12-04-2016	09:00	12-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	

257	240MVAR L/R OF 765KV NRNC-DHARAMJAIGARH-2 AT NRNC	12-04-2016	09:00	12-04-2016	18:00	ODB	ER-I	FOR CSD COMMISSIONING WORK	NLDC
258	400KV GAYA-MAITHON-2	12-04-2016	10:00	13-04-2016	19:00	ODB	ER-I	FOR REPLACEMENT OF INSULATOR DAMAGED BY MICREANTS	
259	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	12-04-2016	09:00	18-04-2016	17:00	OCB	ER-I	FOR NEUTRAL CT REPLACEMENT, TRANSFORMER CABLE REPLACEMENT & OLTC OIL LEAKAGE ARREST WORK	BIHAR
260	132 KV PRN(PG)-PRN (BSPTCL#1 LINE	12-04-2016	09:00	12-04-2016	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
261	400KV Barh-Patna Line#3 Main Bay and Tie Bay	12-04-2016	09:30	13-04-2016	17:30	ODB	NTPC	PM Job of, CTs, CVTs, LAs, Isolator and CB. Line outage required.	
262	400 Kv Barh-Patna Line#3	12-04-2016	09:30	13-04-2016	17:30	ODB	NTPC	Line outage required.	
263	400 KV Kh - Banka Line#2	12-04-2016	09:30	12-04-2016	17:30	ODB	NTPC	PM works & relay testing	
264	765kv Bus Reactor-2 at Angul	13-04-2016	09:00	13-04-2016	15:00	ODB	ER-II/OD	AMP	NLDC
265	400KV MENDHASAL MAIN BAY (410) at Baripada	13-04-2016	09:00	13-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
266	400KV PATNA-BALIA-2	13-04-2016	08:00	13-04-2016	16:00	ODB	ER-I	FOR ATTENDING LINE DEFECTS	
267	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	13-04-2016	09:00	13-04-2016	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
268	400 kV Ranchi - New Ranchi - I	13-04-2016	09:00	13-04-2016	17:00	ODB	ER-I	FOR DIAMOND FORMATION OF EARTH WIRE	NLDC
269	400 kV Ranchi - New Ranchi - II	13-04-2016	09:00	13-04-2016	17:00	ODB	ER-I	FOR DIAMOND FORMATION OF EARTH WIRE	NLDC
270	400 kV Ranchi- Sipat - I	13-04-2016	09:00	13-04-2016	17:00	ODB	ER-I	FOR DIAMOND FORMATION OF EARTH WIRE	NLDC
271	400 kV Ranchi- Sipat - II	13-04-2016	09:00	13-04-2016	17:00	ODB	ER-I	FOR DIAMOND FORMATION OF EARTH WIRE	NLDC
272	220 KV Main Bus #1 Subhasgram	13-04-2016	09:00Hrs	13-04-2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
273	132 KV MAIN BUS MALDA	13-04-2016	07:00	13-04-2016	09:00	ODB	ER-II/KOL	FOR MAIN BUS ISOLATOR OF WBSETCL-I.	WBSETCL
274	400kv Bus Reactor-3 Main Bay(404) at Angul	14-04-2016	09:00	14-04-2016	15:00	ODB	ER-II/OD	AMP	
275	ICT-I (3x 105 MVA) at Jeypore	14-04-2016	10:30	14-04-2016	11:30	ODB	ER-II/OD	For changing ICT-I combination form Unit-I, II, III to Unit-I,II and IV for oil replacement works at Unit-III	ODISHA
276	400KV DUBURI MAIN BAY (407) at Baripada	14-04-2016	09:00	14-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
277	160 MVA ICT#3 & 100 MVA ICT#4 (PARALLEL) AT PRN	14-04-2016	09:00	16-04-2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation	BIHAR
278	132 KV TBC CB BIRPARA	14-04-2016	09:00	16-04-2016	17:00	OCB	ER-II/KOL	CB Overhauling	WBSETCL
279	400KV Farakka - Durgapur#2	14-04-2016	09:30	14-04-2016	17:30	ODB	NTPC	Relay testing	
280	220 KV D/C Thirubali-Natrendrapur TL (CKT I & II)(OPTCL)	15-04-2016	08:00	16-04-2016	17:00	ODB	ER-II/OD	Stringing of 765 KV D/C Angul-Srikakulam TL(Part-I)-Power line crossing at Loc.no. AP 123-AP-124.	ODISHA
281	125 Mvar Bus Reactor at Jeypore	15-04-2016	09:00	15-04-2016	17:00	ODB	ER-II/OD	Inspection of B/R by Manufacturer due to abnormal sound	
282	220KV BC BAY at Baripada	15-04-2016	09:00	15-04-2016	17:00	ODB	ER-II/OD	ANNUAL MAINTENANCE	
283	220 KV Main Bus #2 Subhasgram	15-04-2016	09:00Hrs	15-04-2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
284	315 MVA ICT#1 DURGAPUR	15-04-2016	15:00	15-04-2016	16:00	ODB	ER-II/KOL	CB Retrofitting-trasfer load to main CB & protection testing	DVC
285	220 KV MTN-DHANBAD-I	15-04-2016	09:00	15-04-2016	17:00	ODB	ER-II/KOL	AMP Works.	DVC
286	63 MVAR Tala-1 L/R New Siiliguri	15-04-2016	9.00 hrs	15-04-2016	17.00 hrs	ODB	ER-II/KOL	AMP OF NSLG	
287	132 KV MAIN BUS MALDA	15-04-2016	07:00	15-04-2016	09:00	ODB	ER-II/KOL	FOR MAIN BUS ISOLATOR OF WBSETCL-II.	WBSETCL
288	400KV Farakka - Kahaigaon#4	15-04-2016	09:30	15-04-2016	17:30	ODB	NTPC	Relay testing	
289	220 KV D/C CHANDIL-PGCIL, NAMKUM(RANCHI) LINE	15-04-2016	09:00	15-04-2016	17:00	ODB	PKCIL	CROSSING OF 400 KV PURULIA-RANCHI D/C TRANSMISSION LINE	JHARKHAND
290	220 kv D/C Farakka - Lalmatia T/L	15-04-2016	6.00 hrs	15-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	JHARKHAND
291	132 KV D/C Satgachia - Dhatrigaram T/L of WBSETCL (T.No. 48-49)	15-04-2016	6.00 hrs	15-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
292	Gajuwaka-I FSC at Jeypore	16-04-2016	09:00	16-04-2016	17:00	ODB	ER-II/OD	For AMP works	NLDC
293	50MVAR L/R OF 400KV LAKHISARAI-KHLG-1 AT LAKHISARAI	16-04-2016	10:00	16-04-2016	16:00	ODB	ER-I	FOR AMP WORK(S/D OF 10 MTS WILL BE REQUIRED FOR 400 KV LAKHISARAI-KHLG-1 EACH TIME FOR ISOLATION OF L/R AND FOR TAKING IT INTO SERVICE.)	
294	400 KV Bus Reactor Jeerat	16-04-2016	09:00Hrs	16-04-2016	17:30Hrs	ODB	ER-II/KOL	Bus Reactor CB and Isolator retrofitt work. Dismantling of IPS tube from Bus Reactor to Isolator	WBSETCL
295	400 KV Bus Reactor Main Bay Jeerat	16-04-2016	17:30Hrs	13-05-2016	09:00Hrs	OCB	ER-II/KOL	Bus Reactor CB and Isolator retrofitt work	
296	407 CB (400 KV B'nagar line-1 main CB) DURGAPUR	16-04-2016	09:00	19-04-2016	16:00	OCB	ER-II/KOL	CB hydraulic overhauling	
297	220 KV MTN-DHANBAD-II	16-04-2016	09:00	16-04-2016	17:00	ODB	ER-II/KOL	AMP Works.	DVC
298	132 KV D/C Satgachia - Kalna T/L of WBSETCL (T.No. 68-69)	16-04-2016	6.00 hrs	16-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
299	400 KV D/C FKK KAHALGAON T/L CKT-I&II	16-04-2016	6.00 hrs	16-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	Subject to availability of Farakka - Malda - D/C
300	220 KV Satgachia - Krishnanagar T/L of WBSETCL	16-04-2016	6.00 hrs	16-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
301	400KV Rengali - Indravati	17-04-2016	08:00:00	20-04-2016	17:30:00	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Railway crossing etc.	NLDC
302	132 KV PRN(PG)-PRN (BSPTCL#1 LINE	17-04-2016	09:00	19-04-2016	17:00	ODB	ER-I	Construction of GIS bus duct & SF6 to air bushing foundation	BIHAR
303	132 KV MAIN BUS MALDA	17-04-2016	07:00	17-04-2016	09:00	ODB	ER-II/KOL	FOR MAIN BUS ISOLATOR OF WBSETCL-II.	WBSETCL
304	132 kv Lalmatia - Sahebganj T/L	17-04-2016	6.00 hrs	17-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	JHARKHAND
305	765KV Bus Reactor-1 at Angul	18-04-2016	09:00	18-04-2016	15:00	ODB	ER-II/OD	AMP	NLDC
306	Jeypore-Gajuwaka-I Line	18-04-2016	09:00	18-04-2016	13:30	ODB	ER-II/OD	3-ph Auto reclosure scheme testing of Jeypore-Gazuwaka-I line at Jeypore	NLDC
307	400 KV BUS -1 AT PATNA	18-04-2016	10:00	19-04-2016	17:00	ODB	ER-I	AMP WORK	
308	765KV NRNC-DHARAMJAIGARH-1	18-04-2016	08:00	20-04-2016	18:00	ODB	ER-I	FOR JUMPER MODIFICATION OF LINE SIDE EQUIPMENT	NLDC
309	3*80MVAR L/R OF 765KV GAYA-VARANASI AT GAYA	18-04-2016	09:00	19-04-2016	18:00	OCB	ER-I	FOR REPLACEMENT OF ABB MAKE HV BUSHING IN Y PH AT GAYA	NLDC
310	400KV RIJS-2 AT RSF	18-04-2016	08:00	18-04-2016	18:00	OCB	ER-I	SPIT RIJS ARRANGEMENT WORK	BIHAR

314	66 KV S/C Ranaghat - Bagula T/L of WBSETCL	18-04-2016	6.00 hrs	18-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
315	132kV D/C Dharampur - Ranaghat Tr line of WBSETCL (T No. 83-84)	18-04-2016	6.00 hrs	18-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
316	400 KV TSTPP - RENGALI - I	18-04-2016	08:00	20-04-2016	17:00	ODB	NTPC	AMC WORK	
317	Jeypore-Gajuwaka-II Line	19-04-2016	09:00	19-04-2016	13:30	ODB	ER-II/OD	3-ph Auto reclosure scheme testing of Jeypore-Gazuwaka-II line at Jeypore	NLDC
318	400 KV KAHALGOAN - BARH -1 & 2	19-04-2016	09:00	21-04-2016	18:00	OCB	ER-I	POWERLINE CROSSING WORK FOR SHIFTING OF 400KV KHLG-BANKA FROM STAGE -1 TO STAGE -2SIDE UNDER BUS SPLIT SCHEME AT NTPC / KHLG END.	NLDC
319	220KV CHAIBASA-CHAIBASA-1	19-04-2016	09:00	19-04-2016	17:00	ODB	ER-I	AMP WORK	JHARKHAND
320	400KV MAIN BUS-2 AT LAKHISARAI	19-04-2016	10:00	19-04-2016	14:00	ODB	ER-I	AMP WORK	
321	80 MVAR L/R OF RANCHI - SIPAT -1 AT RANCHI	19-04-2016	10:00	19-04-2016	13:00	ODB	ER-I	DGA OF BUSHING OIL AND TAN DELTA ON SWEEP FREQUENCY OF BHEL BUSHING(S/D OF 10 MTS WILL BE REQUIRED FOR 400 KV RNC - SIPAT - I EACH TIME FOR ISOLATION OF L/R AND FOR TAKING IT INTO SERVICE.)	NLDC
322	220KV Maithon - Kalyaneshwari-2 line	19-04-2016	09:00	19-04-2016	17:00	ODB	ER-II/KOL	Alignment adjustment of line isolatorand Insulator replacement	DVC
323	132KV Kh-Lalmatia Line	19-04-2016	09:30	19-04-2016	17:30	ODB	NTPC	PM works & relay testing	BIHAR
324	132 KV S/C Aska-Berhampur TL (OPTCL)	20-04-2016	08:00	21-04-2016	17:00	ODB	ER-II/OD	Stringing of 765 KV D/C Angul-Srikakulam TL(Part-I)-Power line crossing at Loc no. AP 113/0-AP 114/0.	ODISHA
325	400 KV BUS -2 AT PATNA	20-04-2016	10:00	21-04-2016	17:00	ODB	ER-I	AMP WORK	
326	160MVA ICT-2 AT PRN	20-04-2016	09:00	20-04-2016	17:00	ODB	ER-I	For Tertiary bay connection work	BIHAR
327	220KV BUS-1 AT PURNEA	20-04-2016	09:00	20-04-2016	17:00	ODB	ER-I	1. FOR RECONNECTION OF ICT-1 BAY 220 KV MAIN BUS-1 & 2 NEW ISOLATORS BY BHEL 2. BUS CVT REPLACEMENT UNDER ADD-CAP 3. Bus bar AMP POWER INTERUPPTION) (NO	BIHAR
328	315 MVA ICT -1 AT RANCHI	20-04-2016	10:00	20-04-2016	13:00	ODB	ER-I	DGA OF BUSHING OIL AND TAN DELTA ON SWEEP FREQUENCY OF BHEL BUSHING	JHARKHAND
329	220 KV D/C BTPS TO JAMSHEDPUR LINE	20-04-2016	09:00	20-04-2016	17:00	ODB	PKCIL	CROSSING OF 400 KV PURULIA-RANCHI D/C TRANSMISSION LINE	DVC
330	132 kv ASHOKNAGAR - BASHIRHAT Tr line of WBSETCL	20-04-2016	6.00 hrs	20-04-2016	17:00hrs	ODB	ER-II/KOL	For Stringing work Rajarhat-Purnia 400 KV D/C line	WBSETCL
331	50 MVAR L/R OF RANCHI- MAITHAN (RB) -1	21-04-2016	10:00	21-04-2016	13:00	ODB	ER-I	DGA OF BUSHING OIL AND TAN DELTA ON SWEEP FREQUENCY OF BHEL BUSHING	
332	132 KV BRP-WB-II (CB)	21-04-2016	09:00	23-04-2016	17:00	OCB	ER-II/KOL	CB Overhauling	WBSETCL
333	400KV/220KV Auto Transformer (Annual Testing)	21-04-2016	09:30	21-04-2016	17:30	ODB	NTPC	Relay and CT testing	JHARKHAND
334	400kV Bolangir - Jeypore	22-04-2016	08:00:00	25-04-2016	17:30:00	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Raiway crossing etc.	NLDC
335	Gajuwaka-II FSC at Jeypore	22-04-2016	09:00	22-04-2016	17:00	ODB	ER-II/OD	For AMP works	NLDC
336	220 KV PATNA - SIPARA -1	22-04-2016	10:00	22-04-2016	17:00	ODB	ER-I	AMP WORK	BIHAR
337	220KV CHAIBASA-CHAIBASA-2	22-04-2016	09:00	22-04-2016	17:00	ODB	ER-I	AMP WORK	JHARKHAND
338	160MVA ICT-1 AT PRN	22-04-2016	09:00	22-04-2016	17:00	ODB	ER-I	For Tertiary bay connection work	BIHAR
339	315MVA ICT-I AT Maithon	22-04-2016	09:00	24-04-2016	18:00	OCB	ER-II/KOL	Dismantling of 20kV LA for jumpering of 220kV Bay through ERS for energising 500MVA ICT-III	DVC
340	400KV Maithon Gaya-I line	22-04-2016	09:00	22-04-2016	18:00	ODB	ER-II/KOL	Fixing of earlier removed pipe bus for taking the newly installed CB into service	
341	220KV Farakka - Lalmatia(Annual Testing)	22-04-2016	09:30	22-04-2016	17:30	ODB	NTPC	Relay and CT testing	JHARKHAND
342	400 KV New Purnea -Muzaffarpur Circuit # II	23-04-2016	09:00	12-05-2016	17:00	ODB	POWERLINK	For changing 160KN Porcelain Insulator Strings by 160KN Polymer Insulator Strings at 84Nos Tension/Angle towers between Purnea and Saharsa Section (up to Koshi River).	
343	400KV Maithon Mejia-II Line	25-04-2016	09:00	25-04-2016	14:00	ODB	ER-II/KOL	Line CT AMP Test	DVC
344	400 KV TSTPP - RENGALI - II	25-04-2016	08:00	27-04-2016	17:00	ODB	NTPC	AMC WORK	
345	220 KV SUBHASGRAM- WBSETCL Line # 2	26-04-2016	09:00Hrs	26-04-2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	WBSETCL
346	400kV Angul - Bolangir	27-04-2016	08:00:00	28-04-2016	17:30:00	ODB	ER-II/OD	For Insulator replacement in River crossing, NH/SH crossing, Raiway crossing etc.	NLDC
347	220 KV SUBHASGRAM- CESC Line # 1	28-04-2016	09:00Hrs	28-04-2016	15:00Hrs	ODB	ER-II/KOL	For relay testing and other AMP work	WBSETCL
348	400KV Farakka - Sagardighi	28-04-2016	09:30	28-04-2016	17:30	ODB	NTPC	Relay and CT testing	WBSETCL
349	220KV BUS-II at Baripada	29-04-2016	09:00	31-03-2016	17:00	ODB	ER-II/OD	CONNECTION FROM EXISTING BUS TO NEW BUS	ODISHA
350	125MVAR B/R-3 AT BSF	29-04-2016	10:00	29-04-2016	18:00	ODB	ER-I	AMP WORK	
351	400KV Farakka - Bus Reactor-2	29-04-2016	09:30	29-04-2016	17:30	ODB	NTPC	Relay CT and reactor testing	
352	400 KV Main Bus #2 Subhasgram	30-04-2016	09:00Hrs	30-04-2016	17:30Hrs	ODB	ER-II/KOL	AMP WORK	
353	400 KV Bus Reactor Jeerat	13-05-2016	09:00Hrs	13-05-2016	17:30Hrs	ODB	ER-II/KOL	Final protection testing of new CB and erection of IPS tube from Bus Reactor to new Isolator	WBSETCL
354	220KV Birpara-Salakati-I	01.04.2016	30.04.2016	6.00	18.00	ODB	ER-II/KOL	Replacement of Disc insulator with Polymer insulator	NLDC

Outages proposed in other RPCs requiring ERPC appr

Sl No	outages proposed in	Name of Requesting Agency	Name of Elements	From		To		Basis	Reason	Remarks (If Any)
				Date	Time	Date	Time			
1	SRPC	PGCIL	400 kV Jeypore-Gazuwaka 1 & 2	30-Apr-16	6:00	30-Apr-16	18:00	D	Line Crossing works of 765kV Vemagiri - Simhadri-D/C line	ER-SR TTC would be curtailed by 65%
2	SRPC	PGCIL	HVDC Talcher-Kolar	1-Apr-16	6:00	30-Apr-16	20:00	D	For Hotline Washing of Insulators, the Auto reclose selection of both lines to be kept off	Only A/R to be kept off
3	SRPC	PGCIL	400 kV Jeypore-Gazuwaka	1-Apr-16	6:00	30-Apr-16	20:00	Daily basis (D)	For Hotline Washing of Insulators, the Auto reclose selection of both lines to be kept off	Only A/R to be kept off
4	WRPC	PGCIL	Jharsuguda (Sundergarh) - Korba(Dharamjaygarh) Ckt-02 TL	28-Mar-16	8:00	2-Apr-16	18:00	Continuous	Line reactor bay modified from non switching to switchable. CB erection & ssociated panel	
5	WRPC	PGCIL	Sipat-Ranchi Ckt # I	4-Apr-16	08:00	5-Apr-16	18:30	Daily	Annual Maintenance (AMP)	
6	WRPC	PGCIL	Jharsuguda 01 Line reactor at Korba(Dharamjaygarh)	11-Apr-16	8:00	11-Apr-16	18:00	Continuous	Replacement of new 132kV, 12 kJ/kV LA and NGR bypassing	

Anticipated Power Supply Position for the month of
Apr-16

SL.NO	PARTICULARS	PEAK DEMAND MW	ENERGY MU
1	BIHAR		
i)	NET MAX DEMAND	3500	2063
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	416	316
	- Central Sector	2405	1552
iii)	SURPLUS(+)/DEFICIT(-)	-680	-195
2	JHARKHAND		
i)	NET MAX DEMAND	1150	780
ii)	NET POWER AVAILABILITY- Own Source (including bilateral)	446	354
	- Central Sector	529	297
iii)	SURPLUS(+)/DEFICIT(-)	-175	-129
3	DVC		
i)	NET MAX DEMAND (OWN)	2725	1635
ii)	NET POWER AVAILABILITY- Own Source	4330	2232
	- Central Sector	477	299
	Long term Bi-lateral (Export)	1400	936
iii)	SURPLUS(+)/DEFICIT(-)	681	-40
4	ORISSA		
i)	NET MAX DEMAND	4300	2484
ii)	NET POWER AVAILABILITY- Own Source	3439	1818
	- Central Sector	1074	683
iii)	SURPLUS(+)/DEFICIT(-)	213	17
5	WEST BENGAL		
5.1	WBSEDCL		
i)	NET MAX DEMAND (OWN)	6035	3792
ii)	CESC's DRAWAL	0	0
iii)	TOTAL WBSEDCL's DEMAND	6035	3792
iv)	NET POWER AVAILABILITY- Own Source	3115	1805
	- Import from DPL	126	58
	- Central Sector	1856	1020
v)	SURPLUS(+)/DEFICIT(-)	-938	-909
vi)	EXPORT (TO B'DESH & SIKKIM)	255	184
5.2	DPL		
i)	NET MAX DEMAND	300	205
ii)	NET POWER AVAILABILITY	426	263
iii)	SURPLUS(+)/DEFICIT(-)	126	58
5.3	CESC		
i)	NET MAX DEMAND	1970	930
ii)	NET POWER AVAILABILITY - OWN SOURCE	910	571
	FROM HEL	530	307
	FROM CPL/PCBL	40	0
	Import Requirement	490	52
iii)	TOTAL AVAILABILITY	1970	930
iv)	SURPLUS(+)/DEFICIT(-)	0	0
6	WEST BENGAL (WBSEDCL+DPL+CESC) (excluding DVC's supply to WBSEDCL's command area)		
i)	NET MAX DEMAND	8305	4927
ii)	NET POWER AVAILABILITY- Own Source	4451	2639
	- Central Sector+Others	2876	1327
iii)	SURPLUS(+)/DEFICIT(-)	-978	-961
7	SIKKIM		
i)	NET MAX DEMAND	85	34
ii)	NET POWER AVAILABILITY- Own Source	5	3
	- Central Sector+Others	109	68
iii)	SURPLUS(+)/DEFICIT(-)	30	37
8	EASTERN REGION At 1.03 AS DIVERSITY FACTOR		
i)	NET MAX DEMAND	19480	11923
	Long term Bi-lateral by DVC	1400	936
	EXPORT BY WBSEDCL	255	184
ii)	NET TOTAL POWER AVAILABILITY OF ER (INCLUDING C/S ALLOCATION)	20556	11587
iii)	PEAK SURPLUS(+)/DEFICIT(-) OF ER (ii)-(i)	-580	-1456